

1975 AUTHOR INDEX

Asterisk indicates abstract

- Abe, M.**
see Matsui, K.
see Murata, H.
- Albert, S. N.** Blood volume measurements, 961
- Abramovici, J.** see Ectors, M.
- Ackerman, M. J.** see Pritchard, J. H.
- Ackery, D. M.** see Goddard, B. A.
- Adams, D. F.**
see Holman, B. L.
see See, J. R.
- Adelstein, S. J., Jansen, C. and Wagner, H. N.** Studies of the heart and circulation, 959
- Adelstein, S. J.**
see Bloomer, W. D.
see McNeil, B. J.
- Adler, R. A.** see McCowen, K. D.
- Adler, S., Parthasarathy, K. L., Bakshi, S. P. and Stutzman, L.** ⁶⁷Ga-citrate scanning of lymphomas, 255
- Adolph, R. J.** see Nishiyama, H.
- Agee, R. N.** see Lull, R. J.
- Agress, H., Pearlman, A. S., Brody, W. R., Myers, R. W., Itscoitz, S. B., Green, M. V., Bailey, J. J., Johnston, G. S. and Redwood, D. R.** Stress-induced myocardial perfusion, 510*
- Agress, H.**
see Bacharach, S.
see Green, M. V.
- Ahmed, S. A.** see Coleman, R. E.
- Akalin, H. E.** see English, D. K.
- Alagarsamy, V.** see DePuey, E. G.
- Alavi, A.** see Alexander, J. M.
- Alazraki, N. P., Thomas, R., Verba, J. W., Daniel, D., Resnick, D. and Greenfield, R.** Bone scanning in arthritis, 510*
- Alazraki, N. P., Verba, J. W., Henry, J. E., Becker, R., Taylor, A. and Halpern, S. E.** GFR by x-ray fluorescence, 510*
- Alazraki, N. P.**
see Chauncey, D.
see Epstein, J.
see Hagan, P. L.
see Hurwitz, S. R.
see Taylor, A.
- Alba, J.** see Sarmiento, A. H.
- Alderman, E. L.** see Berndt, T.
- Alderson, P. D., Boonvisut, S., McKnight, R. and Hartman, A. F.** Ventilation and perfusion in tetralogy of Fallot, 510*
- Alderson, P. O., Gilday, D. L. and Wilkie, A.** Rapid-sequence brain imaging in pediatrics, 511*
- Alderson, P. O., Jost, R. G., Strauss, A. W., Boonvisut, S. and Markham, J.** Left-to-right cardiac shunts in children, 511*
- Alderson, P. O.**
see Harwig, J. F.
see Secker-Walker, R. H.
- Alexander, J. L.** see Gillespie, P. J.
- Alexander, J. M., Alavi, A. and Hansell, J. R.** Bone imaging in jaw lesions, 511*
- Alford, C. A.** see Gams, R. A.
- Ali, A.** see Rayudu, G. V. S.
- Aloia, J. F., Ellis, K., Zanzi, I. and Cohn, S. H.** Photon absorptiometry in osteoporosis, 196
- Alpert, N. M., Burnham, C. A., Deveau, L. A., Correll, J. E., Chesler, D. A., Pizer, S. M. and Brownell, G. L.** System for on-line data processing, 386
- Andersen, B. R.** see English, D. K.
- Anderson, B. G., Beierwaltes, W. H., Nishiyama, R. H. and Ice, R. D.** ¹³¹I-iodocholesterol effect on adrenal cortical hyperplasia, 928
- Anderson, O.** see Pavel, D. G.
- Anderson, P. J.** see Ronai, P. M.
- Andrews, J. W.** see Lull, R. J.
- Anger, H. O.** see Weber, P. M.
- Anger, R. T.** see Kavula, M. P.
- Anghilieri, L. J.** Erythrocyte labeling with ¹⁰⁶Ru-ruthenium red, 795
- Ansari, A. N., Atkins, H. L., Briggs, J., Christman, D., Gowler, J., Gallagher, B., MacGregor, R. and Wolf, A. P.** Metabolism of ¹¹C-aliphatic acids, 511*
- Ansari, A. N., Atkins, H. L., Smith, T. D. and Richards, P.** BNL ^{99m}Tc-RBC labeling kit, 512*
- Ansari, A. N.**
see Atkins, H. L.
see Bradley-Moore, P. R.
see Lebowitz, E.
- Anselmi, O. E.** see Taplin, G. V.
- Aoki, C. T.** Construction of a lead bar phantom, 441
- Aragon, S.** see Dunnick, J. K.
- Arnold, J. E. and Pinsky, S. M.** Thyroid imaging with ^{99m}Tc and ¹²³I, 512*
- Arnold, J. E., Pinsky, S. M., Ryo, U. Y., Colman, M., Frohman, L. A., Schneider, A., Favus, M., Stachura, M. and Arnold, M.** ^{99m}Tc thyroid imaging in history of x-ray therapy, 512*
- Arnold, J. E.**
see Johnston, A. S.
see Ryo, U. Y.
- Arnold, J. S., Barnes, W. E., Frazin, L. and Kaplan, E.** ^{99m}Tc-pyrophosphate in myocardial infarcts and bone, 512*
- Arnold, J. S.** see Kaplan, E.
- Arnold, M.** see Arnold, J. E.
- Arnold, R. W., Subramanian, G., McAfee, J. G., Blair, R. J. and Thomas, F. D.** ^{99m}Tc-complexes for renal imaging, 357
- Ash, J. M., Gilday, D. L. and Reilly, B. J.** Pinhole imaging of hip in children, 512*
- Ashare, A. B., Dubuque, G., Rauf, C. G. and Kereiakes, J. G.** Lesion detection with photopeak plus backscatter energy, 513*
- Ashare, A. B., Padikal, T., Cohen, G. and Kereiakes, J. G.** Scintillation camera field flood uniformity correction, 513*
- Ashare, A. B.**
see Holder, L. E.
see Nishiyama, H.
- Ashburn, W. L.** Book review: *Cardiovascular Nuclear Medicine*, 966
- Ashburn, W. L.**
see Schelbert, H.
see Taylor, A.
- Ashkar, F. S., Heal, A. and Turner, T.** Hepatitis B antigen and antibody studies, 513*
- Ashkar, F. S.** see Rosenthal, S.
- Ashley, S. J.** see Guarin, U.
- Athanasoulis, C. A.** see Shapiro, S. H.
- Atkins, F. B. and Beck, R. N.** Scatter subtraction effects on image contrast, 102
- Atkins, H. L., Ansari, A. N., Lebowitz, E., Greene, E. W., Fairchild, R. and Budinger, T. F.** Distribution and properties of ²⁰¹Tl, 513*
- Atkins, H. L., Cloutier, R. J., Lathrop, K. A., Freeman, L. M., McAfee, J. G., Nelp, W. B., Patton, D. D. and Smith, E. M.** Radiation dose estimates for ^{99m}Tc-S colloid in liver disease, 109
- Atkins, H. L.**
see Ansari, A. N.
see Bradley-Moore, P. R.
see Lebowitz, E.
see Packer, S.
- Atmaran, S. H., Ganatra, R. D., Sharma, S. M. and Ramanna, L.** Thyroid carcinoma metastases in liver, 919
- Ayres, P. R.** see Hagan, P. L.
- Azueta, V.** see Sham, R.
- Bacharach, S., Agress, H., Hammock, M. K., Green, M. V., Pongpatirojana, A., Johnston, G. S. and DiChiro, G.** ¹³³Xe blood flow in induced cerebral infarction, 514*
- Bachur, N. R.** see Puri, S.
- Bailey, J. J.**
see Agress, H.
see Green, M. V.
- Baily, N. A.** see Taylor, A.
- Baker, J. D.**
see Levy, L. M.
see Marta, J. B.
- Baker, R. J., Bellen, J. C. and Ronai, P. M.** ^{99m}Tc-pyridoxylidene-glutamate for hepatobiliary studies, 720
- Baker, R. J.** see Ronai, P. M.

- Baker, S. I.** see Johnston, A. S.
Bakshi, S. P.
 see Adler, S.
 see Lunia, S.
- Balachandran, S., Beierwaltes, W. H., Ice, R. D., Fajans, S. S., Ryo, U. Y., Redmond, M. J., Hetzel, K. R., Mosley, S. T. and Feldstein, B.** Distribution of ^{14}C , ^{125}I and ^{131}I -diphenylhydantoin, 775
- Balachandran, S., Moses, D. C., Sisson, J. C. and Patel, S. R.** Evaluation of a new T_3 kit, 514*
- Balch, C. M.** see Dubovsky, E. V.
Balint, R. see Ruetz, P. P.
Banna, M. see Nahmias, C.
Bardy, A., Fouyé, H., Gobin, R., Beydon, J., de Tovar, G., Bannacière, C. and Hégésippe, M. $^{99\text{m}}\text{Tc}$ labeling using $\text{Sn}(\text{II})$ pyrophosphate, 435
- Barnes, M. F.** see Bell, E. G.
Barnes, W. E.
 see Arnold, J. S.
 see Kaplan, E.
- Barrett, H. H., Simpson, R. G. and Fisher, H. D.** Data processing with annular coded apertures, 514*
- Barrett, H. H.** see Farmelant, M. H.
Barth, R. F. and Singla, O. Distribution of $^{99\text{m}}\text{Tc}$ - and ^{51}Cr -thymocytes, 633
- Barth, R. F.** see Gobuty, A. H.
Barthe, J. see Blanquet, P.
- Basmadjian, G. P., Hetzel, K. R., Ice, R. D. and Beierwaltes, W. H.** Synthesis of a new adrenal agent, 514*
- Basmadjian, G. P.** see Sarkar, S. D.
Bass, J. C. see Sfakianakis, G. N.
Bautovich, G. see Lathrop, K. A.
- Beabout, J. W.** see Wahner, H. W.
Beal, W. see Soin, J. S.
Beardon, A. J. see Hambright, P.
Beauchamp, J. M., Belanger, M. A. and Neitzschman, H. R. "Doughnut" sign in brain imaging, 432
- Beauchamp, J. M.** see Belanger, M. A.
Beaver, J. E. see Serafini, A. N.
Beck, R. N.
 see Atkins, F. B.
 see Brunsten, B.
 see Hoffer, P. B.
- Becker, R.** see Alazraki, N. P.
Beekhuis, H. see Rasker, J. J.
- Beierwaltes, W. H., Ice, R. D., Shaw, M. J. and Ryo, U. Y.** Myocardial uptake of labeled oleic and linoleic acids, 842
- Beierwaltes, W. H.**
 see Anderson, B. G.
 see Balachandran, S.
 see Basmadjian, G. P.
 see Ice, R. D.
 see Gill, S. P.
 see Kirschner, A. S.
 see Ryo, U. Y.
 see Sarker, S. D.
 see Seabold, J. E.
 see Sturman, M. F.
- Beihn, R. M.**
 see DeLand, F. H.
 see Simmons, G. H.
 see Theodorakis, M. C.
- Bekerman, C. and Hoffer, P. B.** Salivary gland uptake of ^{67}Ga -citrate, 514*
- Bekerman, C.** see Hoffer, P. B.
Bekier, A. Displacement of anterior cerebral vessels in subdural hematoma, 86
- Belanger, M. A., Beauchamp, J. M. and Neitzschman, H. R.** Ga uptake in benign liver tumor, 470
- Belanger, M. A.** see Beauchamp, J. M.
Belgrave, E. see Lebowitz, E.
Belko, J. S.
 see Frisbie, J. H.
 see O'Connell, D. J.
- Bell, E. G., Mahon, D. F., Henry, C. A., Barnes, M. F., McAfee, J. G., Turcotte, R. E., Wolff, J. R. and White, W.** Light-weight overhead scintillation camera, 515*
- Bell, G.** see DeNardo, S. J.
Bell, P. R. see DeLand, F. H.
Bell, W. E. see Conway, J. J.
Bellen, J. C.
 see Baker, R. J.
 see Ronai, P. M.
- Belliveau, R. E.** see Puri, S.
Bender, M. A. see Lunia, S.
Benedetto, A. R. see Nusynowitz, M. L.
- Bennett, L. R.**
 see Horn, N. L.
 see Robinson, G. D.
 see Touya, J. J.
 see Verma, R. C.
- Benua, R. S.**
 see Tilbury, R. S.
 see Yeh, S. D. J.
- v. d. Berg, C. J. M.** see Jambroes, G.
Bergan, J. J. see Henkin, R. E.
- Berman, D. S., Salel, A. F., DeNardo, G. L., Bogren, H. G. and Mason, D. T.** High-resolution gated left ventricular flow studies, 865
- Berman, D. S., Salel, A. F., DeNardo, G. L. and Mason, D. T.** Rest and exercise ^{86}Rb myocardial imaging, 515*
- Berman, J. A.** see Wolf, W.
- Berman, M., Braverman, L. E., Burke, J., DeGroot, L., McCormack, K. R., Oddie, T. H., Rohrer, R. H., Wellman, H. N. and Smith, E. M.** Radiation dose estimates for ^{125}I , ^{124}I , ^{123}I , ^{129}I , ^{130}I , ^{131}I and ^{132}I as sodium iodide, 857
- Berndt, T., Alserman, E. L., Wasnich, R., Hsieh, S. C., Van Dyke, D. and Harrison, D. C.** Portable probe cardiac flow studies, 289
- Berquist, T. H., Nolan, N. G., Stephens, D. H. and Carlson, H. C.** $^{99\text{m}}\text{Tc}$ specificity in Meckel's diverticulum, 515*
- Bessent, R. G.** see Citrin, D. L.
Beydon, J. see Bardy, A.
- Bigler, R. E., Russ, G. A. and Laughlin, J. S.** Radiation dosimetry of ^{211}Bi - and ^{210}Bi -citrate, 515*
- Bigler, R. E.** see Woodard, H. Q.
Billinghurst, M. W. Behavior of $^{99\text{m}}\text{Tc}$ -diphosphonate on Sephadex and Bio-gel, 1089
- Billinghurst, M. W. and Palser, R. F.** Lung retention of $^{99\text{m}}\text{Tc}$ -S colloid, 440
- Bing, R. J.** see Ikeda, S.
Binkhorst, R. A. see Yap, S. H.
Bittikofer, F. see Matin, P.
Bjork, L. see McNeil, B. J.
Blahd, W. H.
 see Krishnamurthy, G. T.
 see Pritchard, J. H.
- Blair, R. J., Schroeder, E. T., McAfee, J. G. and Duxbury, C. E.** Muscle uptake of bone agents in rhabdomyolysis, 515*
- Blair, R. J.**
 see Arnold, R. W.
 see Subramanian, G.
 see Yeates, M. G.
- Blanc, D.** see Blanquet, P.
Blanquet, P., Blanc, D., Safi, N., Thoreson, E., Barthe, J. and Lerebeller, M. J. Cerenkov effect for endocular tumor detection, 516*
- Blau, M.** Radiation dosimetry of ^{131}I -iodocholesterol, 247
- Blau, M., McAfee, J. G., Rohrer, R. H., Synder, W. S. and Smith, E. M.** Radiation dose estimates for ^{197}Hg - and ^{203}Hg -chlormerodrin, 1095
- Blau, M.**
 see Chang, W.
 see Owunwanne, A.
- Blaufox, M. D.** see Chervu, L. R.
Bloch, B. see Malmud, L. S.
- Bloomer, W. D. and Adelstein, S. J.** Antineoplastic activity of ^{125}I -iododeoxyuridine, 516*
- Blum, M. and Goldman, A. B.** Oblique view in cold thyroid nodule diagnosis, 713
- Blumgart, L. H.**
 see Karran, S. J.
 see Leach, K. G.
- Bobinet, D.** see Spolter, L.
Bofilias, I., Hofer, J., Pabst, H. W. and Platzer, H. Coherent optical scintiscan processing, 516*
- Bogren, H. G.** see Berman, D. S.
Bok, B. D. and Fonroget, F. New whole-body unidirectional scanner, 516*
- Bonoguro, E.** see Mincey, E.
Bonte, F. J., Parkey, R. W., Graham, K. D. and Moore, J. G. Distribution of myocardial infarct imaging agents, 132
- Bonte, F. J.**
 see Parkey, R. W.
 see Stokeley, E. M.
- Boonvisut, S.** see Alderson, P. O.
Botviniak, E. see Shames, D. M.
Bowen, B. M., Coates, G. and Gannett, E. S. $^{99\text{m}}\text{Tc}$ -S colloid lung scan in histiocytosis X, 332
- Bowen, B. M.** see Coates, G.

- Boyd, C. M. see Vieras, F.
- Bradley-Moore, P. R., Lebowitz, E., Greene, M. W., Atkins, H. L. and Ansari, A. N. ^{201}Tl for medical use, 156
- Bradley-Moore, P. R. see Lebowitz, E.
- Brady, L. W.
see Heindel, N. D.
see Honda, T.
see Lantieri, R. L.
see Risch, V. R.
- Brahmaver, S. M., Zu'bi, S. M. and Sullivan, J. P. Procedures for medical byproduct material licenses, 517*
- Branch, W. T. see McNeil, B. J.
- Braun, E. J. see Finney, C. E.
- Braunstein, P. see Goldman, A. B.
- Braverman, L. E. see Berman, M.
- Brickman, A. S. see Krishnamurthy, G. T.
- Briggs, J. see Ansari, A. N.
- Brill, A. B.
see Patton, J. A.
see Price, R.
- Brodey, P. A. see Richman, S. D.
- Brody, W. R.
see Agress, H.
see Green, M. V.
- Bronzino, J., O'Rourke, J., Miller, C. and D'Amato, D. Microvascular dysfunction in the eye, 517*
- Bronzino, J. see D'Amato, D.
- Brooke, P., Decostre, P. and Cantaine, F. Early I and Tc thyroid kinetics, 517*
- Brookeman, V. A. Component resolution indices for scintillation cameras, 228
- Brookeman, V. A. and Morin, R. L. Dosimetry of DTPA cisternography agents, 1177
- Brooks, W. H. and Mortara, R. H. Brain scanning in metastatic disease, 961
- Brown, F. see Pearson, D.
- Brown, M. see Spies, S. M.
- Brown, M. J. see Stauffer, J. C.
- Brownell, G. L.
see Alpert, N. M.
see Hoop, B.
- Brunsdon, B., Harper, P. V. and Beck, R. N. Elimination of colli-mator-hole pattern, 517*
- Bruun, P. Lung retention of $^{99\text{m}}\text{Tc-S}$ colloid, 440
- Buchanan, J. see Kim, H-R.
- Bucher, J. E. see Moore, M. M.
- Buddemeyer, E. U. Continuous measurement of in vitro metabolism, 517*
- Budinger, T. F. Simple superposition tomography, 517*
- Budinger, T. F. and Macdonald, B. Fresnel-coded scintillation camera images, 309
- Budinger, T. F., Yano, Y. and Hoop, B. Myocardial positron scintigraphy, 429
- Budinger, T. F.
see Atkins, H. L.
see Derenzo, S. F.
see Zaklad, H.
- Buhl, M., Charles, P. and Jensen, F. T. Headband for scalp blood flow elimination, 679
- Buja, L. M. see Stokeley, E. M.
- Burdine, J. A. and Murphy, P. H. Large-field-of-view scintillation camera, 1158
- Burdine, J. A., Murphy, P. H. and Galen, T. Large-field-of-view scintillation camera, 518*
- Burdine, J. A.
see DePuey, E. G.
see Dhekne, R. D.
see Moyer, R. A.
see Murphy, P. H.
see Soin, J. S.
- Burke, J. see Berman, M.
- Burman, K. D., Wright, F. D., Earll, J. M. and Wartofsky, L. Radio-immunoassay of T_3 , 662
- Burnham, C. A. see Alpert, N. M.
- Burns, H. D.
see Heindel, N. D.
see Honda, T.
see Risch, V. R.
- Busick, D. D. see DeGrazia, J. A.
- Buys, W. C. A. M. see Yap, S. H.
- Buzzi, K. W. see Weinraub, J. M.
- Callahan, R. J. see Shapiro, S. H.
- Callery, P. S. see Loberg, M. D.
- Camargo, E. E., Larson, S. M., Charache, P., Tepper, B. S. and Wagner, H. N. Radiometric detection of M. tuberculosis and M. lepraemium, 518*
- Camargo, E. E. see Cummings, D. M.
- Campbell, J. J. see Siegel, M. E.
- Campeau, R. J., Gottlieb, S., Chandarlapaty, S. K. C., Mayorga-Cortes, A. and Miale, A. $^{99\text{m}}\text{Tc}$ -phosphates for myocardial infarction, 518*
- Cantor, R. E. see Shapiro, B.
- Cantaine, F. see Brooke, P.
- Capon, A. see Verbist, A.
- Capps, S. J. see O'Mara, R. E.
- Capurro, P. U. see Eldridge, J. E.
- Capuzzi, J. see Malmud, L. S.
- Caretta, R. F. see Rosenthal, S.
- Caride, V. J. see Spencer, R. P.
- Carlson, H. C. see Berquist, T. H.
- Carretta, R. F. see DeNardo, S. J.
- Castenada, A. see Treves, S.
- Castor, W. R. see Lentle, B. C.
- Castronovo, F. P. see Shapiro, S. H.
- Catz, Z. see Holder, L. E.
- Cavaliere, R. R. ^{75}Se -selenite brain scanning, 331
- Celis, C. see Skromme-Kadlubik, G.
- Chan, J. K. see Cho, Z. H.
- Chan, P., Firnao, G. and Garnett, E. S. ^{18}F -fluoro-DOPA for brain scanning, 518*
- Chandarlapaty, S. K. C. see Campeau, R. J.
- Chandler, W. M. and Schuck, L. D. Abnormal $^{99\text{m}}\text{TcO}_4^-$ brain image following $^{99\text{m}}\text{Tc-Sn}$ -pyrophosphate, 518*
- Chandler, W. M. and Schuck, L. D. Effects of tin on $^{99\text{m}}\text{TcO}_4^-$ distribution, 690
- Chandra, S. and Laor, Y. G. Lung scan and wide mediastinum, 324
- Chang, C. C. see Spolter, L.
- Chang, W. and Blau, M. Optimum gray scale for photoscanners, 519*
- Chang, Y. C. see Lowenthal, I. S.
- Charache, P.
see Camargo, E. E.
see Larson, S. M.
- Charkes, N. D., Philips, C. and Malmud, L. S. Model for bone agent uptake, 519*
- Charles, P. see Buhl, M.
- Chaudhuri, Tapan K. ^{87}Sr and $^{99\text{m}}\text{Tc}$ -polyphosphate secretion in serous fluids, 1208
- Chaudhuri, Tapan K. $^{99\text{m}}\text{TcO}_4^-$ secretion in the stomach, 1204
- Chaudhuri, Tapan K., May, L. G., Dwyer, R. D. and de los Santos, G. Effect of parathormone on ^{32}P bone metastases therapy, 519*
- Chaudhuri, Tapan K., Saparoff, G. R., Dolan, K. D. and Chaudhuri, Tuhin K. Comparison of contrast and nuclear lacrimal drainage studies, 605
- Chaudhuri, Tuhin K. see Chaudhuri, Tapan K.
- Chauncey, D. M., Halpern, S. E. and Alazraki, N. P. ^{131}I -tetracycline for tumor scanning, 519*
- Chauncey, D. M., Halpern, S. E., Hagan, P. L. and Alazraki, N. P. ^{131}I -tetracycline for tumor scanning, 520*
- Chauncey, D. M.
see Hagan, P. L.
see Schelbert, H.
- Chelliah, M. see Eckelman, W. C.
- Chen, M., Rhodes, B. A. and Wagner, H. N. Radiometric sterility assay, 798
- Chen, M.
see Larson, S. M.
see Tran, N.
- Chervu, L. R., Goyal, Q. R. and Blafox, M. D. $^{99\text{m}}\text{Tc-Cu-HEDSPA}$ for bone imaging, 520*
- Chesler, D. A., Hales, C., Hnatowich, D. J. and Hoop, B. 3D reconstruction of positron lung perfusion image, 80
- Chesler, D. A.
see Alpert, N. M.
see Hoop, B.
- Chesnut, C. H. see Lewellen, T. K.
- Chiba, K.
see Matsui, K.
see Murata, H.
- Chiotellis, E., Subramanian, G. and McAfee, J. G. $^{99\text{m}}\text{Tc}$ -Schiff's bases, 520*
- Chisholm, G. D. Radiozinc for prostate, 496
- Cho, Z. H., Chan, J. K., Ericksson, L., Singh, M., Graham, S., MacDonald, N. S. and Yano, Y. Positron ranges of biomedically important radionuclides, 1167
- Cho, Z. H. see Profio, A. E.

- Christensen, J. see James, A. E.
 Christman, D. see Ansari, A. N.
 Chu, D. see Lim, C. B.
 Citrin, D. L., Bessent, R. G., McGinley, E. and Gordon, D. Dynamic studies with ^{99m}Tc -HEDP, 886
 Clark, E. E. and Hattner, R. S. Brain imaging in recurrent medulloblastoma, 520*
 Clark, R. B. and Fair, W. R. Radioactive putrescine metabolism in rats, 337
 Clements, J. P. see Dickerman, J. D.
 Cloutier, R. J., Freeman, L. M., McAfee, J. G., McCormack, K. R., Patton, D. D., Rosenthal, L. and Smith, E. M. Radiation dose estimates for ^{198}Au in liver disease, 173
 Cloutier, R. J. see Atkins, H. L. see Watson, E. E.
 Coates, G., Bowen, B. M., Nahmias, C. and Garnett, E. S. Parameters of bone agent uptake, 520*
 Coates, G., DeNardo, S. J., DeNardo, G. L. and Troy, F. A. Pharmacokinetics of radioiodinated streptokinase, 136
 Coates, G. see Bowen, B. M.
 Coberly, J. C. see Hunter, D.
 Coble, C. S. see Phelps, M. E.
 Coco, M. see Subramanian, G.
 Codd, J. E. see George, E. A.
 Coel, M. see Epstein, J.
 Cohen, G. see Ashare, A. B.
 Cohen, M. B. see Spolter, L.
 Cohn, P. F. see Holman, B. L. see Sec, J. R.
 Cohn, S. H. see Aloia, J. F.
 Coleman, R. E., Harwig, S. S. L., Harwig, J. F., Sherman, L. A. and Welch, M. J. Radioiodinated fibrin for thrombus, 521*
 Coleman, R. E., Harwig, S. S. L., Harwig, J. F., Siegel, B. A. and Welch, M. J. Fibrinogen uptake by thrombi, 370
 Coleman, R. E., Hoffman, E. J., Phelps, M. E., Welch, M. J. and Ter-Pogossian, M. M. Transaxial tomography with positron emitters, 521*
 Coleman, R. E., Klein, M. S., Ahmed, S. A., Roberts, R. and Sobel, B. E. ^{99m}Tc -pyrophosphate and serum MB CPK for myocardial infarction, 521*
 Coleman, R. E. see Harwig, S. L. see Welch, D. M.
 Colley, D. P. see Holder, L. E.
 Collins, P. J. see Ronai, P. M.
 Colman, M. see Arnold, J. E.
 Colombetti, L. G. see Johnston, A. S. see Mohammedzadeh, A. see Ryo, U. Y.
 Colvin, J. T. see Klein, E. W.
 Comar, D., Maziere, M., Marazano, C. and Raynaud, C. ^{11}C -psychoactive drugs, 521*
 Connolly, R. J. see Dewanjee, M. K.
 Conway, J. J., Gooneratne, N. and Simon, G. Femoral metaphyseal irregularities in children, 521*
 Conway, J. J. and Kruglik, G. D. Direct and indirect radionuclide cystography, 522*
 Conway, J. J., Seibert, J. J., Kuhn, G. P. and Bell, W. E. Evaluation of central nervous system complications from chemotherapy, 522*
 Conway, J. J. see Gooneratne, N.
 Cooper, J. F. and Harbert, J. C. Aseptic meningitis after radionuclide cisternography, 809
 Cooper, M. D. see Harvey, E. B. see Loberg, M. D. see Quinlan, J. see Termini, B.
 Corcoran, R. C., Thrall, J., Kyle, R. and Johnson, M. Solitary bone lesions, 522*
 Corcoran, R. C. see Thrall, J.
 Correll, J. E. see Alpert, N. M.
 Corrigan, J. see O'Mara, R. E.
 Cortes, E. P. see Sham, R.
 Coune, A. see Frühling, J.
 Counsell, R. E. see Skinner, R. W. S.
 Coupal, J. Abstracts of current literature, 500, 501
 Cowan, R. J., Murphy, M. P. and Maynard, C. D. ^{99m}Tc activity artifact in ^{111}In cisternography, 434
 Cox, R. S., Turner, D. A. and Fordham, E. W. Rectilinear scanner modification to improve ^{67}Ga scans, 1192
 Crawford, M. see Schelbert, H.
 Creutzig, H. Bone imaging after total hip replacement, 522*
 Creutzig, H. ^{99m}Tc -polyphosphate and ^{18}F kinetics, 688
 Crocker, E. F., McLaughlin, A. F., Uren, R. F., Morris, J. G., Jellins, J. and Kossoff, G. Echography and ^{137}Cs scanning of non-functioning thyroid nodules, 522*
 Cullison, R. C. see Krishnamurthy, G. T.
 Cummings, D. M., Ristroph, D., Camargo, E. E., Larson, S. M. and Wagner, H. N. Radiometric detection of the metabolism of Mycobacterium tuberculosis, 1189
 Custer, J. R. and Shafter, R. B. Changes in liver scan following splenectomy, 194
 Czerniak, P. see Zwas, S. T.
 Daly, J. L., Herbig, F. K. and Fletcher, J. W. A nuclear medicine information network, 523*
 Daly, J. L. see Fletcher, J. W. see Henry, R. E.
 D'Amato, D., Bronzino, J., Miller, C. and O'Rourke, J. System of dynamic studies of the eye, 523*
 D'Amato, D. see Bronzino, J.
 Damm, D. W. see Reinke, D. B.
 Damoulaki-Sfakianaki, E. see Sfakianakis, G. N.
 Dance, D. see Parker, R.
 Daniel, D. see Alazraki, N. P.
 Daniels, D. see Pick, R. O.
 D'Antonio, R. see Kim, H-R.
 Davis, M. A. Editorial; nomenclature of ^{99m}Tc bone agents, 1
 Davis, M. A. and Holman, B. L. Acute myocardial infarct imaging agents, 523*
 Davis, M. A. see Jones, A. G.
 Davson, H. see James, A. E.
 Decostre, P. see Brooke, P.
 DeGrazia, J. A., Rodden, A. F., Teresi, J. D., Busick, D. D. and Walz, D. R. Imaging of ^{11}C -ethanol distribution, 73
 DeGroot, L. see Berman, M.
 Deisenhammer, E., Gund, A., Hammer, B. and Steinhaeusl, H. Unilateral ventricular reflux, 716
 DeLand, F. H. Abstracts of current literature, 500, 502, 503, 697, 802, 851, 968, 1092, 1210
 DeLand, F. H. Book review: *Atlas of Cerebral Angiography: Anatomic Correlation*, 801
 DeLand, F. H. Book report: *New Techniques in Tumor Localization and Radioimmunoassay*, 498
 DeLand, F. H. Book review: *Physician's Desk Reference for Radiology and Nuclear Medicine*, 499
 DeLand, F. H. Editor's letter, 449, 1103
 DeLand, F. H., Beihn, R. M., Simmons, G. H. and Hafner, T. V. Tumor detection by the subtraction technique, 523*
 DeLand, F. H., Fisher, D., Bell, P. R., McClain, W. J., Dillon, R. S. and Ross, D. A. Computer correction of image errors, 523*
 DeLand, F. H. see Simmons, G. H. see Theodorakis, M. C.
 de los Santos, G. see Chaudhuri, Tapan K.
 DeLuca, S. A. and Kolodny, G. M. Spleen-lung interface, 822
 DeMeester, G. see Farmelant, M. H.
 de Moss, E. V. see Richman, S. D.
 DeNardo, G. L. Bone scans and ^{32}P in thyroid adenocarcinoma, 963
 DeNardo, G. L., DeNardo, S. J., Meyers, J. and Krohn, L. A. Tumor localization with ^{125}I - and ^{131}I -bleomycin, 524*
 DeNardo, G. L. see Berman, D. S. see Coates, G. see DeNardo, S. J. see Dublin, A. B. see Hines, H. H. see Meyers, J. see Rosenthal, S. see Stadalnik, R. C.
 DeNardo, S. J., Bell, G., DeNardo, G. L., Carretta, R. F., Scheibe, P., Imperato, T. and Jackson, P. Effective hepatic plasma flow, 524*
 DeNardo, S. J., DeNardo, G. L.,

- Carretta, R. F., Jansholt, A-L. Krohn, K. A. and Peek, N. F.** ^{125}I -fibrinogen for thrombophlebitis detection, 524*
- DeNardo, S. J.** see Coates, G.
see DeNardo, G. L.
see Rosenthal, S.
see Stadalnik, R. C.
- DePuey, E. G., Thompson, W. L., Alagarsamy, V. and Burdine, J. A.** Bone mineral content by functional imaging, 891
- Derenzo, S. E., Zaklad, H. and Budinger, T. F.** Collimators for positron emitters, 524*
- Derenzo, S. E., Zaklad, H. and Budinger, T. F.** Ring detector for transaxial reconstruction tomography, 1166
- Derenzo, S. E.** see Zaklad, H.
- De Roo, M. J. K.** Scintigraphic appearance of necrotic liver metastasis, 250
- De Roo, M. J. K.** ^{75}Se -selenite brain scanning, 331
- Detels, R.** see Taplin, G. V.
- de Tovar, G.** see Bardy, A.
- Deutschman, A. H., Fulmer, L. R., Wise, G. R., Miller, D. W. and Hunter, W. W.** Quantitative regional cerebral circulation determination, 525*
- Deveau, L. A.** see Alpert, N. M.
- Devenney, J. E., Morales, J. O. and Kuhl, D. E.** $^{99\text{m}}\text{Tc}$ -Sn-DTPA in obstructive renal disease, 525*
- Dewanjee, M. K.** Autoradiography of $^{99\text{m}}\text{Tc}$ -tetracycline in necrotic cells, 315
- Dewanjee, M. K., Kahn, P. C., Dewanjee, U. and Connolly, R. J.** $^{99\text{m}}\text{Tc}$ -pyrophosphate and -tetracycline in infarcted myocardium, 525*
- Dewanjee, U.** see Dewanjee, M. K.
- Dhekne, R. D., Nitishin, A. and Burdine, J. A.** Liver/spleen scanning in blunt abdominal trauma, 525*
- Diaz, J. F.** see Skromme-Kadlubik, G.
- DiChiro, G.** see Bacharach, S.
- Dickerman, J. D. and Clements, J. P.** Spleen scan following MOPP therapy for Hodgkin's, 457
- Dierich, H.** see Lentle, B. C.
- Dietholm, A. G.** see Dubovsky, E. V.
- Dietrich, R.** see Sarmiento, A. H.
- Digenis, G. A., Kook, C. S. and Reed, M. F.** Synthesis of ^{18}F -haloperidol, 525*
- Digenis, G. A.** see Theodorakis, M. C.
- Dillon, R. S.** see DeLand, F. H.
- Dillon, W. G. and Glomski, C. A.** Erythrocyte survival in the mongolian gerbil, 682
- Dimitrieva, Z.** see Guarin, U.
- Doehn, M.** see Hupe, W.
- Dolan, K. D.** see Chaudhuri, Tapan K.
- Donabedian, R. K.** see Puri, S.
- Donati, R. M.** Book review: *Nuclear Medicine*, 966
- Donati, R. M.** see Fletcher, J. W.
see George, E. A.
see Haibach, H.
see Henry, R. E.
see Schulz, R. C.
- Donner, M.** see James, A. E.
- Dorais, S.** see Mincey, E.
- Dore, E. K.** see Gates, G. F.
- dos Remedios, L. V.** see Weber, P. M.
- Douglas, M. A.** see Green, M. V.
- Dratz, A. F.** see Hunter, D.
- Driedger, A.** see Peart, R. A.
- Dublin, A. B., Stadalnik, R. C., DeNardo, G. L. and Vogel, J. M.** Imaging of a blind-ending ureteral duplication, 208
- Dubovsky, E. V., Logic, J. R., Dietholm, A. G., Balch, C. M. and Tauxe, W. N.** Renal function in the transplanted kidney, 1115
- Dubovsky, E. V.** see Russell, C. D.
- Dubuque, G.** see Ashare, A. B.
- Duken, H.** see Ikeda, S.
- Dukstein, W. G.** see Prince, J. R.
- Dunn, B.** see Reinke, D. B.
- Dunnick, J. K., McDougall, I. R., Aragon, S., Goris, M. L. and Kriss, J. P.** Vesicle interactions with polyamino acids and antibody, 483
- Dunnick, J. K.** see McDougall, I. R.
- Duxury, C. E.** see Blair, R. J.
see Subramanian, G.
- Dworkin, H. J., Gutkowski, R. F., Porter, W. and Potter, M.** Number of particles for lung imaging, 526*
- Dworkin, H. J.** see Gutkowski, R. F.
see Roco, R. N.
- Dwyer, R. D.** see Chaudhuri, Tapan K.
- Earl, W. C.** see Sfakianakis, G. N.
- Earll, J. M.** see Burman, K. D.
- Eckelman, W. C., Rzeszotarski, W. J., Siegel, B. A., Kubota, H., Chelliah, M. and Reba, R. C.** Isolated ^{57}Co -bleomycin components, 526*
- Eckelman, W. C., Rzeszotarski, W. J., Siegal, B. A., Kubota, H., Chelliah, M., Stevenson, J. and Reba, R. C.** Isolated radiolabeled bleomycin preparations, 1033
- Eckelman, W. C.** see Harbert, J. C.
see Kubota, H.
see Poulse, K. P.
- Ectors, M., Abramovici, J. and Jonckheer, M. H.** $^{99\text{m}}\text{Tc}$ -citrate-diphosphonate and $^{99\text{m}}\text{TcO}_4^-$ brain studies, 526*
- Edelstyn, G. A.** see Gillespie, P. J.
- Edwards, R. Q.** see Kuhl, D. E.
- Eernisse, B.** see Marta, J. B.
- Ege, G. N.** Internal mammary lymphoscintigraphy, 526*
- Eikman, E. A.** see Klingensmith, W. C.
- Elam, D.** see Taplin, G. V.
- Eldridge, J. E. and Capurro, P. U.** Nomogram for estimating normal liver weights, 314
- Ellis, K.** see Aloia, J. F.
- Endow, J. S.** see Tubis, M.
- Eng, R., Hinn, G. M. and Spitznagle, L.** ^{18}F -fluoropregnenolone-3-acetate for adrenal scans, 526*
- English, D. K. and Andersen, B. R.** $^{99\text{m}}\text{Tc}$ -S colloid labeling of human phagocytes, 5
- English, D. K., Andersen, B. R. and Akalin, H. E.** $^{99\text{m}}\text{Tc}$ -S colloid-leukocytes for inflammatory processes, 527*
- Engstrom, M. A.** see Winstead, M. B.
- Enomoto, K.** see Irie, M.
- Epstein, J., Taylor, A., Alazraki, N. P. and Coel, M.** Pulmonary embolus in transient ventilatory defect, 1017
- Erdal, B. R.** see Grant, P. M.
- Ericksson, L.** see Cho, Z. H.
- Etani, N.** see Goriya, K.
- Evans, P. L.** see Kirch, D. L.
- Evens, R. G.** see Mikhael, M. A.
- Fair, W. R.** see Clark, R. B.
- Fairchild, R.** see Atkins, H. L.
see Lebowitz, E.
- Faith, W. C.** see Loberg, M. D.
- Fajans, S. S.** see Balachandran, S.
- Falk, R.** see Jereb, M.
- Farhat, S. M.** see Klein, E. W.
- Farmelant, M. H., DeMeester, G., Wilson, D. and Barrett, H. H.** Clinical experiences with a Fresnel zone plate imager, 183
- Farrar, P. A.** see Saha, G. B.
- Faunce, H.** see Sy, W. M.
- Favus, M.** see Arnold, J. E.
- Feldstein, B.** see Balachandran, S.
- Feller, P. A. and Sodd, V. J.** Dosimetry of ^{132}Cs , ^{43}K , ^{81}Rb and ^{201}Tl , 527*
- Feller, P. A. and Sodd, V. J.** Dosimetry of ^{43}K , ^{81}Rb , ^{132}Cs and ^{201}Tl for heart imaging, 1070
- Fellows, R. A.** see Sorabella, P. A.
- Fernandez, M.** see Holder, L. E.
- Fernandez-Pol, J. A.** New liquid scintillation vial, 963
- Fernandez-Pol, J. A. and Zaninovich, A. A.** Kinetics of diphenylhydantoin in man, 305
- Finney, C. E., Larson, D. D., Braun, E. J. and Lieberman, D.** Pulse mode display for color code scintiphotos, 527*
- Firnao, G.** see Chan, P.
- Fischer, K. C., McKusick, K. A., Pendergrass, H. P. and Potsaid, M. S.** Brain scan specificity, 705
- Fisher, C. H., Scheffel, U., Tsan, M-F., Rhodes, B. A. and Wagner, H. N.** $^{99\text{m}}\text{Tc}$ leukocyte tagging by phagocytosis, 527*
- Fisher, D.** see DeLand, F. H.
- Fisher, H. D.** see Barrett, H. H.
- Fisher, R. S.** see Malmud, L. S.
- Fitzer, P. M.** Nuclide angiography in Paget's disease of the skull, 619
- Fitzer, P. M.** Renal imaging in $^{99\text{m}}\text{Tc}$ -polyphosphate bone scanning, 602

- Fitzer, P. M. ^{99m}Tc -S colloid and $^{99m}\text{TcO}_2$ studies in hepatic veno-occlusive disease, 1130
- Fitzgerald, J. S. see Kavula, M. P.
- Fletcher, A. see Spolter, L.
- Fletcher, J. W., Herbig, F. K., Daly, J. L., Donati, R. M. and Walter, K. E. Left ventricular ejection fraction, 527*
- Fletcher, J. W. see Daly, J. L. see Schulz, R. C.
- Fonroget, F. see Bok, B. D.
- Fordham, E. W. see Cox, R. S. see Rayudu, G. V. S.
- Forrest, K. V. see Krishnamurthy, G. T.
- Fortman, D. L. see Sodd, V. J.
- Fouyé, H. see Bardy, A.
- Fowler, J. see Ansari, A. N.
- Francis, M. D. see Silberstein, E. B. see Tofe, A. J.
- Franco, J. A., Kovaleski, B., Vanags, K. and Schreyer, M. Radionuclide venography, 438
- Franco, J. A. see Homesley, J. see Schreyer, M.
- Frankel, R. S. see Levenson, S. M. see Majd, M. see Richman, S. D.
- Frazin, L. see Arnold, J. S.
- Freed, B. R. see Tilbury, R. S. see Woodard, H. Q.
- Freedman, G. S. see Puri, S.
- Freeman, L. M., Patton, D. D., Rosenthal, L., Taplin, G. V. and Smith, E. M. Radiation dose estimates for ^{125}I , ^{124}I , ^{129}I , ^{131}I and ^{131}I as sodium rose bengal, 1214
- Freeman, L. M. see Atkins, H. L. see Cloutier, R. J. see Weiss, M. A.
- Friedman, A. M., Sullivan, J. C., Ruby, S. L., Lindebaum, A., Russell, J. J., Zabransky, B. J. and Rayudu, G. V. S. Chemical binding of ^{153}Sm in tumors, 528*
- Friesinger, G. see Price, R.
- Frisbie, J. H., O'Connell, D. J., Tow, D. E., Sasahara, A. A. and Belko, J. S. Autologous radioiodinated fibrinogen, 393
- Frisbie, J. H. see O'Connell, D. J.
- Frohman, L. A. see Arnold, J. E.
- Frühling, J. and Coune, A. Radiozinc for prostate, 495
- Frühling, J. see Verbist, A.
- Fukunaga, M. see Hamamoto, K.
- Fulmer, L. R. see Deutchman, A. H. see Sfakianakis, G. N.
- Gach, J. see Rigo, P.
- Galen, T. see Burdine, J. A.
- Gallagher, B. see Ansari, A. N.
- Gallagher, J. A. see Preston, D. F.
- Gallo, A. see Salvatore, M.
- Gams, R. A. and Glickson, J. D. Leukemia cell binding of ^{67}Ga , 528*
- Gams, R. A., Long, W. K., Alford, C. A. and Glickson, J. D. ^{67}Ga binding to hamster embryo cells, 231
- Ganatra, R. D. see Atmaran, S. H.
- Garcia, D. A., Tow, D. E., Kapur, K. K. and Wells, H. Resorbing bone uptake of ^{99m}Tc -polyphosphate, 528*
- Garnett, E. S. see Bowen, B. M. see Chan, P. see Coates, G. see Nahmias, C.
- Garrett, M. see Khentigan, A.
- Gates, G. F. and Goris, M. L. Agents for cardiac shunt determination, 528*
- Gates, G. F., Orme, H. W. and Dore, E. K. Surgical systemic-pulmonic shunt assessment, 528*
- Gelbard, A. S., McDonald, J. M., Reiman, R. E. and Laughlin, J. S. Species differences in ^{14}N -amino acid myocardial uptake, 529*
- Genna, S. Editorial; 3D transaxial reconstruction, 179
- Genna, S. and Pang, S. C. Noise propagation in 3-D Fourier convolution reconstruction, 529*
- Genna, S. see Pang, S. C.
- George, E. A., Henry, R. E., Haibach, H., Codd, J. E., Newton, W. T. and Donati, R. M. Renal allograft function monitoring, 529*
- George, E. A. see Henry, R. E.
- George, E. S. see Haibach, H.
- Gerber, F. H., Goodreau, J. J. and Kirchner, P. T. ^{99m}Tc -EHDP bone scans in breast carcinoma, 529*
- Geslien, G. E. ^{67}Ga uptake in liver lesions, 443
- Ghaed, N. see McCowen, K. D.
- Giargiana, F. A. see Siegel, M. E.
- Gilday, D. L. see Alderson, P. O. see Ash, J. M.
- Gill, S. P., Beierwaltes, W. H., Ice, R. D. and Mosley, S. T. Distribution of ^{125}I -quinoline analog for tumor, 530*
- Gillespie, P. J., Alexander, J. L. and Edelstyn, G. A. Changes in ^{87}Sr concentrations, 191
- Gillespie, P. J. and MacRae, K. D. Accuracy of liver scintiscanning, 1204
- Gillin, M., Thrall, J. and Johnson, M. Thyroid fluorescent scanning system, 530*
- Gilson, A. J. see Serafini, A. N.
- Glassman, A. Book review: *Nuclear Medicine in Vitro*, 801
- Glaubitt, D. M. H., Schlüter, I. H. and Haberland, K. U. R. ^{111}In -citrate bone marrow kinetics, 769
- Gleghorn, B. see Verma, R. C.
- Glenn, H. J., Ruksawin, N., Konikowski, T. and Haynie, T. P. ^{99m}Tc -leukocyte labeling, 530*
- Glenn, H. J. see Haynie, T. P. see Konikowski, T.
- Glickson, J. D. see Gams, R. A.
- Glomski, C. A. see Dillon, W. G.
- Gloria, I. V. see Lathrop, K. A.
- Gobin, R. see Bardy, A.
- Gobuty, A. H., Barth, R. F. and Robinson, R. G. Distribution of ^{99m}Tc -autologous lymphocytes, 530*
- Goddard, B. A., and Ackery, D. M. Radiation dosimetry of ^{135}Xe , ^{137}Xe and ^{133}Xe lung studies, 780
- Goldman, A. B. and Braunstein, P. Uptake of ^{99m}Tc agents on bone ends, 423
- Goldman, A. B. see Blum, M.
- Gollan, F. see Johnson, A. E.
- Goodreau, J. J. see Gerber, F. H.
- Goodwin, D. A. see Lin, M. S.
- Goodyear, M. see Poulou, K. P. see Watkins, A. E.
- Gooneratne, N. and Conway, J. J. Radionuclide angiography for pulmonary sequestration, 530*
- Gooneratne, N. see Conway, J. J.
- Goossens, C. M. I. C. see Yap, S. H.
- Gordon, D. see Citrin, D. L.
- Gordon-Smith, E. C. see Merrick, M. V.
- Goris, M. L. see Dunnick, J. K. see Gates, G. F. see McDougall, I. R.
- Goriya, Y., Hoshi, M., Etani, E., Kimura, K., Shichiri, M. and Sigeta, Y. Scintigraphic study of exocrine function of pancreas, 270
- Gottlieb, S., Groch, M., Kallos, N. and Miale, A. Mobile dual-probe system, 531*
- Gottlieb, S. see Campeau, R. J.
- Goyal, Q. R. see Chervu, L. R.
- d. Graaf, C. N. see Jambroes, G.
- Graham, G. E. see Winstead, M. B.
- Graham, K. D. see Bonte, F. J.
- Graham, L. S. and Poe, N. D. Collimators for myocardial imaging, 531*
- Graham, L. S. see Touya, J. J. see Verma, R. C.
- Graham, S. see Cho, Z. H.
- Grames, G. M., Reisinger, R., Jansen, C. and Herber, R. Consecutive-day Schilling tests, 495
- Grant, P. M., Erdal, B. R. and O'Brien, H. A. ^{82}Sr - ^{82}Rb generator, 300
- Green, M. V., Brody, W. R., Pearlman, A. S., Agress, H., Douglas, M. A., Redwood, D. R., Itscoitz, S. B., Bailey, J. J. and Johnston, G. S. Left ventricular volume change by ECG-gated angiocardiology, 531*
- Green, M. V., Ostrow, H. G., Douglas, M. A., Myers, R. W., Scott, R. N., Bailey, J. J. and Johnston, G. S. ECG-gated angiocardiology, 95
- Green, M. V. see Agress, H.

- see Bacharach, S.
see Atkins, H. L.
see Bradley-Moore, P. R.
see Lebowitz, E.
- Greenfield, L. D.** see Verma, R. C.
Greenfield, R. see Alazraki, N. P.
Greenleaf, J. F. see Seward, J. B.
Gregg, E. C. Analog image processing in omnidirectional scanning, 685
Groch, M. see Gottlieb, S.
Grossman, L. W., Van Tuinen, R. J., Hoops, R. G. and Lewis, J. T. Bar phantom for Anger camera monitoring, 531*
Guarin, U., Dimitrieva, Z. and Ashley, S. J. ^{99m}Tc -S colloid scan of splenogonadal fusion, 922
Gund, A. see Deisenhammer, E.
Gutkowski, R. F., Horwitz, N. H. and Dworkin, H. J. A calibrated dose dispenser for ^{135}Xe gas, 1197
Gutkowski, R. F. see Dworkin, H. J.
Haber, K. see O'Mara, R. E.
Haberland, K. U. R. see Glaubitt, D. M. H.
Haden, H. T., Stacy, W. K., Wolf, J. S., Texter, J. H. and Thomas, F. T. Diagnosis of urinary fistula, 612
Hafkenschied, J. C. M. see Yap, S. H.
Hafner, T. V. see DeLand, F. H.
Hagan, P. L., Ayres, P. R., Halpern, S. E. and Chauncey, D. M. ^{99m}Tc -thiomalic acid for renal scanning, 531*
Hagan, P. L., Chauncey, D., Ayres, P. R. and Halpern, S. E. Tumor uptake of ^{210}Pb and ^{75}Se -selenomethionine, 532*
Hagan, P. L., Halpern, S. E., Chauncey, D. M. and Alazraki, N. P. ^{131}I -tetracycline for tumor scanning, 532*
Hagan, P. L.
see Chauncey, D. M.
see Hurwitz, S. R.
Haibach, H., George, E. S., Hendershott, L. R. and Donati, R. M. Uptake mechanisms of ^{99m}Tc -S and ^{198}Au colloids, 532*
Haibach, H. see George, E. A.
Haider, B. see Oldewurtel, H. A.
Haines, J. E. see Yeung, W.-C.
Hales, C. see Chesler, D. A.
Hall, J. N., Tokars, R. P. and O'Mara, R. E. ^{32}P -diphosphonate for therapy, 532*
Hall, J. N.
see O'Mara, R. E.
see Tokars, R. P.
see Van Antwerp, J. D.
Hall, P. see Wellman, H. N.
Hall, R. C. see Van Heertum, R. L.
Halpern, S. E.
see Alazraki, N. P.
see Chauncey, D. M.
see Hagan, P. L.
see Taylor, A.
Hamamoto, K., Morita, R., Yamamoto, I., Fukunaga, M., Mori, T., Torizuka, K. and Kodama, H. ^{99m}Tc -phosphorous compound bone imaging in breast cancer, 532*
Hamamoto, K. see Mori, T.
Hambright, P., McRae, J., Valk, P. E., Beardon, A. J. and Shipley, B. A. Chemistry of Tc-Sn-gluconate and -diphosphonate, 478
Hamilton, F. see Rockett, J. F.
Hammer, B. see Deisenhammer, E.
Hammock, M. K. see Bacharach, S.
Hanc, R. P. see Turner, J. W.
Handmaker, H. and O'Mara, R. E. Gallium imaging in pediatrics, 533*
Handmaker, H., Young, B. W. and Lowenstein, J. M. Clinical experience with ^{67}Tc -DMSA, 28
Hanelin, L. G. and Mena, I. Hepatic hemodynamics in metastatic lesions, 533*
Hansell, J. R. Book review: *Liquid Scintillation Counting*, 1091
Hansell, J. R. see Alexander, J. M.
Harbert, J. C., Eckelman, W. C., Reba, R. C. and Schein, P. S. ^{67}Co -bleomycin for pancreatic carcinoma, 533*
Harbert, J. C. see Cooper, J. F.
Harper, P. V.
see Brunsden, B.
see Lathrop, K. A.
see Pearson, D.
Harrison, D. C. see Berndt, T.
Harrison, J. E., Williams, W. C., Watts, J. and McNeill, K. G. Bone calcium index based on body calcium measurements, 116
Harrison, K. see Semenoff, D.
Hartman, A. F. see Alderson, P. O.
Hartman, C. see Robinson, R. G.
Harvey, E. B., Loberg, M. D. and Cooper, M. D. ^{99m}Tc -HIDA for hepato-biliary imaging, 533*
Harvey, E. B. see Loberg, M. D.
Harvey, W. C., Podoloff, D. A. and Kopp, D. T. ^{67}Ga -citrate infection searches, 2
Harvey, W. J. see Tofe, A. J.
Harwig, J. F., Alderson, P. O., Primeau, J. L., Boonvisut, S. and Welch, M. J. Electrolytic preparation of ^{99m}Tc -RBC, 533*
Harwig, J. F., Coleman, R. E., Harwig, S. S. L., Sherman, L. A., Siegel, B. A. and Welch, M. J. Highly iodinated fibrinogen, 756
Harwig, J. F., Harwig, S. L., Wells, L. D. and Welch, M. J. In vitro studies of ^{99m}Tc -proteins, 534*
Harwig, J. F.
see Coleman, R. E.
see Harwig, S. S. L.
Harwig, S. S. L., Harwig, J. F., Coleman, R. E. and Welch, M. J. Iodination level effect on radioiodinated fibrinogen, 534*
Harwig, S. S. L.
see Coleman, R. E.
see Harwig, J. F.
see Knight, L. C.
Hashimoto, S. see Ishibashi, A.
Hattner, R. S. Posterior fossa scintiangiography, 828
Hattner, R. S. Toxicity of ^{99m}Tc -Sn-diphosphonate, 444
Hattner, R. S. and Kaufman, L. Algorithm for distribution uniformity, 534*
Hattner, R. S., Miller, S. W. and Schimmel, D. Significance of renewal asymmetry in bone scans, 161
Hattner, R. S.
see Clark, E. E.
see Lim, C. B.
see Price, C. D.
Hauser, W. Consecutive-day Schilling test, 495
Hayes, R. L. see Washburn, L. C.
Haynie, T. P., Konikowski, T. and Glenn, H. J. ^{99m}Tc -Sn-citrate tumor uptake, 534*
Haynie, T. P.
see Glenn, H. J.
see Konikowski, T.
Heading, R. C. see Tothill, P.
Heal, A. see Ashkar, F. S.
Heerwald, P. see Krejcarek, G. E.
Hégésippe, M. see Bardy, A.
Heindel, N. D., Burns, H. D., Risch, V. R., Honda, T., Brady, L. W. and Micalizzi, M. ^{131}I -streptozotocin distribution, 535*
Heindel, N. D.
see Honda, T.
see Risch, V. R.
Heidendal, G. A. K., Roos, P., Thijs, L. G. and Weiner, J. D. ^{67}Ga -citrate imaging of cold thyroid nodules, 793
Helson, L. see Tilbury, R. S.
Heminger, L. see Van Heertum, R. L.
Hendee, W. R. see Moore, M. M.
Hendershott, L. R. see Haibach, H.
Henkin, R. E., Yao, J. S. T., Quinn, J. L. and Bergan, J. J. Radionuclide venography, 438
Henkin, R. E. see Martonfy, K.
Henning, H. see Schelbert, H.
Henry, C. A. see Bell, E. G.
Henry, J. E.
see Alazraki, N. P.
see Taylor, A.
Henry, R. E., George, E. A., Daly, J. L. and Donati, R. M. ^{99m}Tc -S colloid bone marrow scanning, 535*
Henry, R. E., George, E. A., and Donati, R. M. Cellularity and ^{99m}Tc -S colloid bone marrow distribution, 535*
Henry, R. E. see George, E. A.
Herber, R. see Grames, G. M.
Herbig, F. K.
see Daly, J. L.
see Fletcher, J. W.
Hermann, G. A. Imaging quality control program, 957
Herrin, W. A.
see Preston, D. F.
see Robinson, R. G.
Hessel, S. J. see McNeil, B. J.
Hetzl, K. R. and Ice, R. D. Radiometric sterility assay, 798
Hetzl, K. R.
see Balachandran, S.

- see Basmadjian, G. P.
see Sarkar, S. D.
- Hevesy, G.** see Chievitz, O.
- Hill, J. H., Merz, T. and Wagner, H. N.** Fe enhancement of ^{67}Ga uptake in a leukocyte culture, 1183
- Hill, R. L.** see Secker-Walker, R. H.
- Hillis, S.** see Price, R.
- Hilts, S. V.** see Van Antwerp, J. D.
- Hine, G. J. and Paras, P.** Performance of scintillation cameras, 1206
- Hines, H. H., Peek, N. F., DeNardo, G. L. and Jansholt, A.-L.** ^{135}Xe production, 143
- Hinn, G. M.**
see Eng, R.
see Lewellen, T. K.
- Hirabashi, S., Koga, Y., Kitahara, T., Hishida, T., Kiga, M. and Iino, S.** Inconsistent thyroid nodule images with ^{131}I and $^{99\text{m}}\text{TcO}_4^-$, 918
- Hirotsu, H.** see Mori, T.
- Hisada, K.** see Iimori, M.
- Hishida, T.** see Hirabayashi, S.
- Hnatowich, D. J.** ^{67}Ga -radiopharmaceutical preparation and quality control, 764
- Hnatowich, D. J.**
see Chesler, D. A.
see Hoop, B.
- Hochner, G.** see Kaplan, E.
- Hofeldt, F. D.** see McCowen, K. D.
- Hofler, J.** see Bofilias, I.
- Hoffer, P. B., Beck, R. N., Stark, V. and Bekerman, C.** Scatter fraction in brain and liver imaging, 535*
- Hoffer, P. B.**
see Bekerman, C.
see Metz, C. E.
- Hoffman, E. J.**
see Coleman, R. E.
see Phelps, M. E.
- Hohne, K. H.** see Hupe, W.
- Holden, J. E.** see Nickles, R. J.
- Holder, J.** see Serafini, A. N.
- Holder, L. E., Ashare, A. B., Smith, W. and Saenger, E. L.** Stimulation of gastric secretion of $^{99\text{m}}\text{TcO}_4^-$, 535*
- Holder, L. E., Ashare, A. B., Tom-sick, T., Colley, D. P., Fernandez, M., Catz, Z. and Saenger, E. L.** The Gamut approach to scintigram interpretation, 1121
- Hollander, C. S.** see Shenkman, L.
- Hollifield, J.** see Patton, J. A.
- Holly, F. E.** Quantitating Anger camera resolution and field uniformity, 536*
- Holman, B. L., Cohn, P. F., See, J. R., Idoine, J. and Adams, D. F.** ^{135}Xe measurement of regional myocardial blood flow, 536*
- Holman, B. L. and Zweiman, F. G.** $^{99\text{m}}\text{Tc}(\text{Sn})$ -tetracycline uptake in myocardial infarct, 1144
- Holman, B. L.**
see Davis, M. A.
see See, J. R.
see Zweiman, F. G.
- Holmes, R. A. and Isitman, A. T.** $^{99\text{m}}\text{Tc}$ -DTPA for brain imaging, 536*
- Holmes, R. A. and Luth, C. N.** Glycocyrrolate in $^{99\text{m}}\text{TcO}_4^-$ brain imaging, 819
- Holmes, R. A., Manoli, R. S. and Isitman, A. T.** $^{99\text{m}}\text{Tc}$ -phosphates for breast imaging, 536*
- Holmes, R. A.**
see Rosenthal, S.
see Silverstein, E. A.
see Zimmer, A. M.
- Homesley, J., Kovalski, B. Vanags, K., Schreyer, M. and Franco, J. A.** Thermography evaluation of cold thyroid nodules, 536*
- Homesley, J.** see Schreyer, M.
- Honda, T., Risch, V. R., Burns, H. D., Micalizzi, M., Brady, L. W. and Heindel, N. D.** Radioiodinated acetazolamide, 537*
- Honda, T.**
see Heindel, N. D.
see Lantieri, R. L.
see Risch, V. R.
- Hoop, B.** Naming of scans, 964
- Hoop, B., Hnatowich, D. J., Chesler, D. A., McKusick, K. A., Parker, J. A., Subramanyam, R., Brownell, G. L., Ojemann, R. G. and Taveras, J. M.** Positron imaging of cerebral function, 537*
- Hoop, B.**
see Budinger, T. F.
see Chesler, D. A.
- Hoops, R. G.** see Grossman, L. W.
- Hoory, S.** see Levy, L. M.
- Hopkins, G. B., Kan, M. and Mende, C. W.** ^{67}Ga scanning of abdominal abscesses, 990
- Hopkins, G. B. and Mende, C. W.** ^{67}Ga -citrate abscess imaging, 609
- Horgan, J. D.** see Sebern, M. J.
- Horn, N. L., Verma, R. C. and Bennett, L. R.** Analysis of normal ^{111}In -bleomycin scans, 537*
- Horn, N. L., Verma, R. C. and Bennett, L. R.** ^{111}In -bleomycin scanning of malignant melanoma, 537*
- Horwitz, N. H.** see Gutkowski, R. F.
- Hoshi, M.** see Goriya, Y.
- Hoskins, P. A.** see Klein, E. W.
- Hotte, C. E.** see Lamson, M. L.
- Hoving, J., Versluis, A. and Woldring, M. G.** ^{210}Pb for skeletal imaging, 170
- Howard, B. Y. and Teates, C. D.** Bone scanning time, 958
- Howard, B. Y.** see Watson, E. E.
- Hsieh, S. C.** see Berndt, T.
- Huang, S.-C.** see Phelps, M. E.
- Hudson, J. S.** see Rockett, J. F.
- Huebotter, R. J.** see Krishnamurthy, G. T.
- Hughes, F. A.** Liver studies in superior vena caval obstruction, 626
- Hughes, F. G.** see Levy, L. M.
- Hughes, F. J.** see Marta, J. B.
- Hunter, D., Dratz, A. F., Rohrer, R. H. and Coberly, J. C.** Errors in ^{125}I radioassay, 952
- Hunter, G. O.** see Selby, J. B.
- Hunter, W. W.** see Deutchman, A. H.
- Hupe, W., Montz, R., Doehn, M., Otto, H. F., Höhne, K. H. and Pfeiffer, G.** Dual brain and kidney studies with $^{99\text{m}}\text{Tc}$ -DTPA, 538*
- Hupf, H. B.** see Serafini, A. N.
- Hurley, P. J.** Blood volume measurements, 962
- Hurley, P. J.** Red cell and plasma volumes, 46
- Hurwitz, A.** see Robinson, R. G.
- Hurwitz, S. R., Alazraki, N. P., Ramsdell, J., Peters, R., Taylor, A. and Tisi, G.** Staging protocol for bronchogenic carcinoma, 538*
- Hurwitz, S. R., Hagan, P. L. and Alazraki, N. P.** ^{67}Ga distribution and Na_2EDTA therapy, 280
- Hurwitz, S. R. and Quinto, R. R.** Diminished uptake of ^{67}Ga -citrate in pseudoarthrosis, 167
- Hušák, V.** see Wiedermann, M.
- Ice, R. D., Wieland, D. M., Beier-waltes, W. H., Lawton, R. G. and Redmond, M. J.** Dopamine analog concentration in the adrenal medulla, 1147
- Ice, R. D.**
see Anderson, B. G.
see Balachandran, S.
see Basmadjian, G. P.
see Beierwaltes, W. H.
see Gill, S. T.
see Hetzel, K. R.
see Kirschner, A. S.
see Lamson, M. L.
see Ryo, U. Y.
see Sarkar, S. D.
see Seabold, J. E.
see Sturman, M. F.
- Idoine, J.**
see Holman, B. L.
see Zweiman, F. G.
- Iimori, M., Hisada, K. and Suzuki, Y.** $^{99\text{m}}\text{Tc}$ -pyrophosphate bone imaging in trauma, 538*
- Iino, S.** see Hirabayashi, S.
- Iio, M.**
see Matsui, K.
see Murata, H.
- Ikebe, J. and Nawa, O. A.** Isocount scanning and multilevel analysis, 938
- Ikeda, S., Duken, H., Tillmans, H. and Bing, R. J.** Coincidence and noncoincidence counting, 658
- Imarisio, J. J.** Liver scan showing lung uptake, 188
- Imperato, T.** see DeNardo, S. J.
- Ingle, J. N.**
see Levenson, S. M.
see Richman, S. D.
- Inoue, K.** see Irie, M.
- Irie, M., Enomoto, K., Enomoto, H. and Inoue, K.** Serum TSH response to TRH in disease, 538*
- Irwin, G. A. L.** see Weinraub, J. M.
- Ishibashi, A., Ishii, K., Hashimoto, S. and Masumi, S.** Aseptic necrosis of bone after renal transplant, 538*
- Ishii, K.** see Ishibashi, A.
- Ishii, Y., Kawamura, J., Mukai, T., Takahashi, M. and Torizuka, K.**

- Functional imaging of intrarenal blood flow, 899
- Ishii, Y.** see Torizuka, K.
- Isitman, A. T.**
see Holmes, R. A.
see Zimmer, A. M.
- Ito, T.** see Kojima, M.
- Itoh, H.** see Torizuka, K.
- Itsecoitz, S. B.**
see Agress, H.
see Green, M. V.
- Iyer, P. S.** see Tripathi, U. B.
- Jackson, G. L., Jester, W. A. and Prasad, K. N.** ^{85m}Kr for ventilation studies, 539*
- Jackson, P.** see DeNardo, S. J.
- Jahns, M. F.** see Konikowski, T.
- Jambroes, G., v. Rijk, P. P., v. d. Berg, C. J. M., d. Graaf, C. N. and Zimmerman, A. N. E.** ^{201}Tl heart scintigraphy, 539*
- James, A. E., McComb, J. G., Christenson, J. and Davson, H.** Evaluation of CSF drainage pathway size, 539*
- James, A. E., Panigel, M., Nataraajan, T. K., Siegel, M. E. and Donner, M.** Relative blood flow to the placenta, 539*
- Jander, H. P.** see Russell, C. D.
- Jansen, C.**
see Adelstein, S. J.
see Grames, G. M.
- Jansholt, A-L.**
see DeNardo, S. J.
see Hines, H. H.
see Meyers, J.
- Jellins, J.** see Crocker, E. F.
- Jennings, R. B.** see Martonfly, K.
- Jensen, F. T.** see Buhl, M.
- Jereb, B.** see Jereb, M.
- Jereb, M., Falk, R., Jereb, B. and Lindhe, C.** Radiation dose from ^{75}Se -selenite, 846
- Jester, W. A.** see Jackson, G. L.
- Johannsen, B.** Behavior of ^{90m}Tc -diphosphonate on Sephadex and Bio-gel, 1087
- Johns, L.** see Pearson, D.
- Johnson, A. E. and Gollan, F.** Properties of ^{113}In -phosphate for cisternography and GFR, 164
- Johnson, H.** see O'Mara, R. E.
- Johnson, M.**
see Gillin, M.
see Thrall, J.
- Johnson, P. M. and Muroff, L. R.** Encasement of the spleen, 718
- Johnson, P. M.**
see Sorabella, P. A.
see Winter, P. F.
- Johnson, R. P.** see Rollo, F. D.
- Johnston, A. S., Arnold, J. E. and Pinsky, S.** Anger camera dead-time, 539*
- Johnston, A. S., Baker, S. I., Arnold, J. E., Colombetti, L. G. and Pinsky, S. M.** Impurities and dose calibration of ^{125}I , 540*
- Johnston, G. S.**
see Agress, H.
see Bacharach, S.
see Green, M. V.
see Levenson, S. M.
see Richman, S. D.
- Johnston, R. E. and Staab, E. V.** ^{109}Yb -DTPA radiation dose to brain in cisternography, 101
- Jonasson, O. M.** see Pavel, D. G.
- Jonckheer, M. H.** see Ectors, M.
- Jones, A. E.**
see Levenson, S. M.
see Richman, S. D.
- Jones, A. G. and Davis, M. A.** Multidentate phosphonates, 540*
- Jones, J. D.** see Ryo, U. Y.
- Jones, S. E.** see O'Mara, R. E.
- Jost, R. G.** see Alderson, P. O.
- Kahan, B. D.** see Pavel, D. G.
- Kahn, P. C.** see Dewanjee, M. K.
- Kalbhen, D. A.** see Sargent, T.
- Kallfelz, F. A.** see Subramanian, G.
- Kallos, N.** see Gottlieb, S.
- Kalsbeck, J.** see Wellman, H. N.
- Kan, M.** see Hopkins, G. B.
- Kanoor, R.** see Rayudu, G. V. S.
- Kaplan, E., Hochner, G., Barnes, W. E., Arnold, J. S., Shponka, S., Mayron, L. W. and Frazin, L.** Dual-channel ^{99m}Tc radiocardiogram, 789
- Kaplan, E.** see Arnold, J. S.
- Kaplan, E. S.** see Rockett, J. F.
- Kapur, K. K.** see Garcia, D. A.
- Karliner, J.** see Schelbert, H.
- Karran, S. J., Leach, K. G., Wisbey, M. L. and Blumgart, L. H.** Colloid uptake in rat liver, 377
- Karran, S. J.** see Leach, K. G.
- Kaufman, L.**
see Hattner, R. S.
see Lim, C. B.
see Price, D. C.
- Kavula, M. P., Rogge, J. D., Anger, R. T., Wellman, H. N. and Fitzgerald, J. S.** Preparation of ^{125}I -rose bengal, 540*
- Kawada, T.** see Waxman, A. D.
- Kawamura, J.** see Ishii, Y.
- Kay, D. B. and Keyes, J. W.** Absorption corrections and resolution compensation in Fourier tomography, 540*
- Kaye, M., Silverton S. and Rosenthal, L.** ^{99m}Tc -pyrophosphate studies, 40
- Kaye, M.** see Rosenthal, L.
- Kehr, M. D.** see Krishnamurthy, G. T.
- Kempi, V.** see Persson, B. R. R.
- Kennedy, T. D., Martin, N. L., Robinson, R. G. and Preston, D. F.** ^{67}Ga -citrate scan in infected pancreatic pseudocyst, 1132
- Kennedy, T. D.** see Preston, D. F.
- Kennedy, W. P.** see Sarkar, S. D.
- Kereiakes, J. G.**
see Ashare, A. B.
see Saenger, E. L.
- Kew, M. C.** see Levin, J.
- Keyes, J. W. and Rogers, W. L.** Improvement of digitized image displays, 541*
- Keyes, J. W.** see Kay, D. B.
- Khaliq, A.** see Lentle, B. C.
- Khentigan, A., Garrett, M., Lum, D. and Winchell, H. S.** ^{99m}Tc -compound distribution post Sn(II) administration, 541*
- Khentigan, A.** see Winstead, M. B.
- Khullar, S.** see Schelbert, H.
- Khurana, M.** see Mishkin, F. S.
- Kiga, M.** see Hirabayashi, S.
- Kim, H-R., D'Antonio, R., Larson, S. M., Thorell, J. I., Buchanan, J., Morgan, R. D. and Wagner, H. N.** Vitamin B₁₂ binding by toadfish serum, 541*
- Kimura, K.** see Goriya, Y.
- Kirch, D. L., Steele, P. P., LeFree, M. T. and Evans, P. L.** High count rate imaging system, 541*
- Kirchner, P. T.**
see Gerber, F. H.
see Short, D. B.
- Kirschner, A. S. and Ice, R. D.** Specific activity effect on distribution and dosimetry, 541*
- Kirschner, A. S., Ice, R. D. and Beierwaltes, W. H.** Radiation dosimetry of ^{131}I -iodocholesterol, 248
- Kirschner, A. S.** see Lamson, M. L.
- Kitahara, T.** see Hirabayashi, S.
- Kiuru, A. J.** see Nickles, R. J.
- Klein, E. W., Farhat, S. M., Hoskins, P. A. and Colvin, J. T.** Cerebral blood flow study of an extracranial meningioma, 833
- Klein, H.** see Sham, R.
- Klein, M. S.** see Coleman, R. E.
- Klingensmith, W. C.** Retention of ^{99m}Tc -S colloid in the lungs, 249
- Klingensmith, W. C., Eikman, E. A., Maumenee, I. and Wagner, H. N.** Radiocolloid distribution in mucopolysaccharidosis, 1002
- Klingensmith, W. C., Eikman, E. A., Maumenee, I. and Wagner, H. N.** RE cell function in mucopolysaccharidosis, 542*
- Klinger, L.** Bone scans and ^{32}P in thyroid adenocarcinoma, 964
- Knight, L. C., Harwig, S. L. and Welch, M. J.** Halogen-SHPP labeling of fibrinogen, 542*
- Knoll, G. F.** see Koral, K. F.
- Knowlton, A. H.** see Spencer, R. P.
- Kobayashi, M.** see Murata, H.
- Kodama, H.** see Hamamoto, K.
- Koenigsberg, M.** see Weiss, M. A.
- Koga, Y.** see Hirabayashi, S.
- Kojima, M., Maeda, M., Ogawa, H., Nitta, K. and Ito, T.** A new adrenal scanning agent, 542*
- Kolodny, G. M.** see DeLuca, S. A.
- Konikowski, T., Haynie, T. P. and Glenn, H. J.** ^{111}In -bleomycin and -chloride kinetics in mice, 738
- Konikowski, T., Jahns, M. F., Haynie, T. P. and Glenn, H. J.** Comparison of brain tumor agents in animals, 200
- Konikowski, T.**
see Glenn, H. J.
see Haynie, T. P.
- Kook, C. S.** see Digenis, G. A.
- Kopp, D. T.** see Harvey, W. C.
- Koral, K. F., Rogers, W. L. and**

- Knoll, G. F. Digital tomographic imaging, 402
- Kossoff, G. see Crocker, E. F.
- Kostenbauder, H. B. see Tilbury, R. S.
- Kovaleski, B.
see Franco, J. A.
see Homesley, J.
see Schreyer, M.
- Kral, M. see Wiedermann, M.
- Krassas, G. see McHardy-Young, S.
- Krause, J. S., Maxfield, W. S. and Miale, A. Scan transmission by telephone, 542*
- Krause, J. S. see Maxfield, W. S.
- Krejcarek, C. E., Tucker, K. L., Nora, J. C. and Heerwald, P. ^{99m}Tc -minimicrosphere kit, 542*
- Krishnamurthy, G. T., Brickman, A. S., Huebotter, R. J., Cullison, R. C. and Bland, W. H. ^{99m}Tc -pyrophosphate imaging in pseudohypoparathyroidism, 543*
- Krishnamurthy, G. T., Brickman, A. S., Huebotter, R. J., Forrest, K. V., Tubis, M. and Bland, W. H. ^{99m}Tc -pyrophosphate imaging in primary hyperparathyroidism, 543*
- Krishnamurthy, G. T., Huebotter, R. J., Walsh, C. F., Taylor, J. R., Kehr, M. D., Tubis, M. and Bland, W. H. Kinetics of ^{99m}Tc -pyrophosphate and polyphosphate, 109
- Krishnamurthy, G. T., Tubis, M. and Bland, W. H. Bone scanning time, 958
- Krishnamurthy, G. T., Tubis, M. and Bland, W. H. ^{131}I -rose bengal and ^{99m}Tc -mercaptoisobutyric acid for hepatobiliary studies, 686
- Krishnamurthy, G. T., Tubis, M. and Bland, W. H. ^{99m}Tc -polyphosphate and ^{18}F kinetics, 689
- Krishnamurthy, G. T. see Tubis, M.
- Kriss, J. P.
see Dunnick, J. K.
see McDougall, I. R.
- Kristensen, K. and Pedersen, B. Lung retention of ^{99m}Tc -S colloid, 439
- Krizek, H.
see Lathrop, K. A.
see Pearson, D.
- Krohn, K. A.
see DeNardo, G. L.
see DeNardo, S. J.
see Meyers, J.
- Kronenwetter, C. see Sebern, M. J.
- Kruglik, G. D. see Conway, J. J.
- Kubota, H., Poulou, K. P., Eckelman, W. C. and Reba, R. C. ^{99m}Tc -pyridoxylidene-glutamate for gallbladder, 543*
- Kubota, H. see Eckelman, W. C.
- Kuhl, D. E. and Edwards, R. Q. Mark IV computerized brain tomography, 543*
- Kuhl, D. E. see Devenney, J. E.
- Kuhn, G. P. see Conway, J. J.
- Kurman, D. see Sagar, V. V.
- Kusubov, N. see Sargent, T.
- Kutsuzawa, T. see Uemura, K.
- Kyle, R. see Corcoran, R. C.
- Kyle, R. A. see Wahner, H. W.
- Lamb, J. F. see Winstead, M. B.
- Lambrecht, R. M. see Packer, S.
- Lamson, M. L., Kirschner, A. S., Hotte, C. E., Lipsitz, E. L. and Ice, R. D. Carrier in $^{99m}\text{TcO}_4^-$ eluate, 639
- Lamson, M. L., Kirschner, A. S., Hotte, C. E., Lipsitz, E. L. and Ice, R. D. Specific activity of $^{99m}\text{TcO}_4^-$ generator eluate, 543*
- Lanaro, A. E. see Sarmiento, A. H.
- Lander, H. see Ronai, P. M.
- Lantieri, R. L., Honda, T. and Brady, L. W. Radiolabeled tumor antibody, 544*
- Laor, Y. G. see Chandra, S.
- Lappin, H. see Shames, D. M.
- Larson, D. D. see Finney, C. E.
- Larson, S. M., Chen, M., Charache, P. and Wagner, H. N. Radiometric identification of streptococcus A in throat cultures, 1085
- Larson, S. M.
see Camargo, E. E.
see Cummings, D. M.
see Kim, H-R.
see Oster, Z. H.
see Tran, N.
see Yeung, W-C.
- Lathrop, K. A., Gloria, I. V. and Harper, P. V. ^{99m}Tc radiation effects on mouse fetus, 544*
- Lathrop, K. A., Gloria, I. V., Harper, P. V. and Krizek, H. ^{203}Pb bone distribution manipulation, 544*
- Lathrop, K. A., Harper, P. V., Bautovich, G., Krizek, H. and Rich, M. Placenta studies with radioiodium, 544*
- Lathrop, K. A., Harper, P. V., Gloria, I. V. and Rich, M. Intestinal localization of ^{203}Tl , 545*
- Lathrop, K. A. see Atkins, H. L.
- Laughlin, J. S.
see Bigler, R. E.
see Gelbard, A. S.
see Tilbury, R. S.
- Lavender, J. P. see Merrick, L. V.
- Lawton, R. G. see Ice, R. D.
- Leach, K. G., Karran, S. J., Wisbey, M. L. and Blumgart, L. H. In vivo assessment of liver size in rat, 380
- Leach, K. G. see Karran, S. J.
- LeBel, E.
see Ntundulu, T.
see Tran, N.
- Lebowitz, E. and Atkins, H. L. ^{203}Tl radiation dose to the liver, 1090
- Lebowitz, E., Greene, M. W., Ansari, A. N., Steigman, J. MacKenzie, D., Smol, R., Richards, P., Atkins, H. L. and Solomon, N. A. Xenon compounds for medical use, 545*
- Lebowitz, E., Greene, M. W., Fairchild, R., Bradley-Moore, P. R., Atkins, H. L., Ansari, A. N., Richards, P. and Belgrave, E. ^{203}Tl for medical use, 151
- Lebowitz, E.
see Atkins, H. L.
see Bradley-Moore, P. R.
- Lee, A. W. see Robinson, G. D.
- Leeper, R. D. see Yeh, S. D. J.
- LeFree, M. T. see Kirch, D. L.
- Leh, F. K. V. and Wolf, W. ^{105}Pt -bleomycin for tumor imaging, 545*
- Lentle, B. C., Castor, W. R., Khalil, A. and Dierich, H. Contrast lymphangiography effect on ^{67}Ga -citrate distribution, 374
- Lentle, B. C., Russell, A. S. and Perey, J. S. Comparison of techniques for sacro-iliac disease, 545*
- Lentle, B. C. see Scott, J. R.
- Lerebeller, M. J. see Blanquet, P.
- Levenson, S. M., Ingle, J. N., Richman, S. D., Frankel, R. S., Torrey, D. C., Jones, A. E. and Johnston, G. S. Liver scanning in metastatic breast carcinoma, 545*
- Levenson, S. M. see Richman, S. D.
- Levin, J. and Kew, M. C. ^{67}Ga -citrate scanning in primary liver cancer, 949
- Levy, L. M., Baker, J. D., Hughes, F. G. and Marta, J. B. Refocused gamma system images, 546*
- Levy, L. M., Hoory, S., Moskowitz, G. W. and Martone, R. J. Scintillation camera dead-time loss compensation, 546*
- Levy, L. M. see Moskowitz, G. W.
- Lewellen, T. K., Chesnut, C. H., Nelp, W. B., Palmer, H. E., Murano, R. and Hinn, G. M. Excretion of ^{75}Ar following neutron activation, 672
- Lewis, J. T.
see Grossman, L. W.
see Nishiyama, H.
see Silberstein, E. B.
- Lewis, S. see Wellman, H.
- Lewis, S. E. see Stokely, E. M.
- Lieberman, D. see Finney, C. E.
- Lilien, D. L. see O'Mara, R. E.
- Lim, C. B., Chu, D., Perez-Mendez, V., Kaufman, L., Hattner, R. S., Price, D. C. and Swann, S. J. Multiwire proportional chamber positron camera, 546*
- Lin, M.S. and Goodwin, D. A. Aerosol studies in pulmonary obstructive disease, 546*
- Lin, T. H. see Winstead, M. B.
- Lindberg, D. see Serafini, A. N.
- Lindebaum, A. see Friedman, A. M.
- Lindhe, C. see Jereb, M.
- Lipsitz, E. L. see Lamson, M. L.
- Lischner, M. see Matin, P.
- Littenberg, R. L. Anaphalactoid reactions to HSA microspheres, 236
- Loberg, M. D., Callery, P. S., Harvey, E. B., Faith, W. C. and Cooper, M. D. Iminodiacetic acid chelating group, 546*
- Loberg, M. D.
see Harvey, E. B.
see Quinlan, J.
- Logic, J. R. see Dubovsky, E. V.
- Long, J. M. see Lull, R. J.

AUTHOR INDEX

- Long, W. K.** see Gams, R. A.
Lowenstein, J. M. see Handmaker, H.
Lowenthal, I. S., Tow, D. E. and Chang, Y. C. ^{99m}Tc-polyphosphate uptake by lung carcinoma, 1021
Lull, R. J., Agee, R. N., Long, J. M., Petroff, P. A. and Andrews, J. W. Inhalation injury in burn patients, 547*
Lum, D. see Khentigan, A.
Lunia, S., Parthasarathy, K. L., Bakshi, S. P. and Bender, M. A. Evaluation of ^{99m}Tc-S colloid liver scintiscans, 62
Lusted, L. B. see Metz, C. E.
Luth, C. N. see Holmes, R. A.
Lutzker, L. G. and Perez, L. A. Radioactive embolization from upper-extremity thrombophlebitis, 241
Macdonald, B. see Budinger, T. F.
MacDonald, C. S. see Metzger, J. M.
MacDonald, J. M. see Tilbury, R. S.
MacDonald, M. S. see Metzger, J. M.
MacDonald, N. S.
 see Cho, Z. H.
 see Spolter, L.
MacGregor, R. see Ansari, A. N.
MacKenzie, D. see Lebowitz, E.
Mackenzie, R. see Reese, L.
MacRae, K. D. see Gillespie, P. J.
Macumber, H. H. see Stauffer, J. C.
Maeda, M. see Kojima, M.
Magoun, S. see Simmons, G. H.
Mahon, D. F. see Bell, E. G.
Majd, M. and Frankel, R. S. Pediatric bone imaging in benign disease, 547*
Malamud, H. and Sham, R. Fast interchange of low-energy collimators, 1195
Malmud, L. S., Fisher, R. S., Roberts, G. S., Capuzzi, J. and Bloch, B. Imaging for gastroesophageal reflux, 547*
Malmud, L. S. see Charkes, N. D.
Manfredi, O. L. and Ramaden, F. Review of ⁶⁷Ga-citrate studies, 547*
Manfredi, O. L., Ramaden, F. and Watson, P. Liver subtraction in ⁶⁷Ga tumor imaging, 548*
Manoli, R. S.
 see Holmes, R. A.
 see Rosenthal, S.
Manothaya, C. see Poshyachinda, M.
Marazano, C. see Comar, D.
Marinsky, J. A. see Owunwanne, A.
Markham, J.
 see Alderson, P. O.
 see Secker-Walker, R. H.
Marta, J. B., Hughes, F. J., Baker, J. D., Eernisse, B. and Sturgeon, B. Refocused scintillation camera images, 548*
Marta, J. B. see Levy, L. M.
Martin, N. L. see Kennedy, T. D.
Martin, T. R. and Shafer, R. B. Posterior flow study in brain imaging, 548*
Martone, R. J. see Levy, L. M.
Martonfly, K., Reimer, K. A., Henkin, R. E., Jennings, R. B., and Quinn, J. L. ^{99m}Tc-pyrophosphate uptake in myocardial infarcts, 548*
Maruyama, Y. Book review: *Tumors of the Nervous System*, 966
Marzilli, L. see Semenoff, D.
Mason, D. T. see Berman, D. S.
Mason, J. Anatomic landmarks on scintiphotos, 962
Mason, M. M. see Sarkar, S. D.
Masumi, S. see Ishibashi, A.
Matin, P., Bittikofer, F. and Lischner, M. Ventilation imaging in cystic fibrosis, 548*
Matolo, N. see Stadnik, R. C.
Matsui, K., Iio, M., Chiba, K., Yamada, H., Abe, M. and Murata, H. Differential diagnosis of cerebral vascular disease and tumor, 549*
Matsui, K. see Murata, H.
Mattar, A. G. and Prezio, J. A. Visualization of pancreatic pseudocyst, 326
Mattar, A. G. see Steinbach, J. J.
Maturosakal, B. see Poshyachinda, M.
Maugham, E. see Tilbury, R. S.
Maumenee, I. see Klingensmith, W. C.
Maxfield, W. S., Miale, A., and Krause, J. S. Telephone transmission of images, 549*
Maxfield, W. S. see Krause, J. S.
May, L. G. see Chaudhuri, Tapan K.
Maynard, C. D. see Cowan, R. J.
Maynard, W. P. and Mishkin, F. S. Cerebral vascular displacement on radionuclide angiograms, 549*
Mayorga-Cortes, A. see Campeau, R. J.
Mayron, L. W. see Kaplan, E.
Maze, M. and Wood, J. ⁶⁷Ga-uptake in liver lesions, 442
Maziere, M. see Comar, D.
McAfee, J. G.
 see Arnold, R. W.
 see Atkins, H. L.
 see Bell, E. G.
 see Blair, R. J.
 see Blau, M.
 see Chiotellis, E.
 see Cloutier, R. J.
 see Subramanian, G.
 see Van Heertum, R. L.
 see Yeates, M. G.
McCartney, W. H. see Metz, C. E.
McClain, W. J. see DeLand, F. H.
McClelland, R. R. Focal porta hepatis defects, 1007
McComb, J. G. see James, A. E.
McCombs, R. K. and Olson, W. H. ¹⁸F bone scan in osteoid osteoma, 465
McCormack, K. R.
 see Berman, M.
 see Cloutier, R. J.
McCowen, K. D., Hofeldt, F. D., Ghaed, N., Adler, R. A. and Verdon, T. Low dose ¹³¹I thyroid ablation, 549*
McDonald, J. M. see Gelbard, A. S.
McDougall, I. R., Dunnick, J. K., Goris, M. L. and Kriss, J. P. Distribution of radiopharmaceutical loaded vesicles, 488
McDougall, I. R. see Dunnick, J. K.
McGinley, E. see Citrin, D. L.
McHardy-Young, S., Krassas, G. and Ramsay, I. Thyroid studies in pernicious anemia, 549*
McIntyre, P. see Tran, N.
McKnight, R. see Alderson, P. O.
McKusick, K. A.
 see Fischer, K. C.
 see Hoop, B.
McLaughlin, A. F. ^{99m}Tc-bone agent uptake in metastatic calcification of lung, 322
McLaughlin, A. F. see Crocker, E. F.
McLaughlin, J. see Termini, B.
McNeil, B. J., Hessel, S. J., Branch, W. T., Bjork, L. and Adelstein, S. J. Efficacy and cost-effectiveness of lung scanning, 550*
McNeill, K. G. see Harrison, J. E.
McPherson, T. A. see Scott, J. R.
McRae, J. Effects of tin on ^{99m}TcO₄⁻ distribution, 690
McRae, J. see Hambright, P.
Meade, R. C.
 see Ruetz, P. P.
 see Sebern, M. J.
 see Yeh, E-L.
Means, J. L. see Winstead, M. B.
Melton, R. E. see Nelson, M. F.
Mena, I.
 see Hanelin, L. G.
 see Roser, S.
Mende, C. W. see Hopkins, G. B.
Mengeot, P. H. see Rigo, P.
Merrick, M. V., Gordon-Smith, E. C., Lavender, J. P. and Szur, L. Comparison of agents for bone marrow scanning, 66
Merrick, M. V., Lavender, J. P. and Gordon-Smith, E. Splenic uptake of ¹¹¹In, 1206
Merz, T. see Hill, J. H.
Metager, J. M., MacDonald, N. S., MacDonald, C. S. and Takahashi, J. M. ¹⁵O-hemoglobin myocardial oxygen consumption, 550*
Metz, C. E., Hoffer, P. B., McCartney, W. H. and Lusted, L. B. Carcinoembryonic antigen assay in colonic malignancy diagnosis, 550*
Meyer, S. L. see Parkey, R. W.
Meyers, J., Krohn, K., and DeNardo, G. L. Radioiodinated bleomycin preparation and characterization, 835
Meyers, J., Krohn, K. A., Jansholt, A-L. and DeNardo, G. L. Preparation and characterization of ¹²⁵I-bleomycin, 550*
Meyers, J. see DeNardo, G. L.
Meyers, M. see Telfer, N.
Miale, A.
 see Campeau, R. J.
 see Gottlieb, S.
 see Krause, J. S.
 see Maxfield, W. S.
Micalizzi, M.
 see Heindel, N. D.
 see Honda, T.
 see Risch, V. R.

- Mikhael, M. A. and Evens, R. G.** Migration and embolization of macrophages to the lung, 22
- Mikhael, M. A. and Evens, R. G.** Phagocytic capability of the kidney, 709
- Miller, C.**
see Bronzino, J.
see D'Amato, D.
- Miller, D. W.** see Deutchman, A. H.
- Miller, R. E.** see Spencer, R. P.
- Miller, S. W.** see Hatner, R. S.
- Mincey, E., Bonoguro, E., Dorais, S. and Morrison, R.** Radiometric estimation of serum B₁₂, 551*
- Mishkin, F. S., Niden, A. H., Pick, R. A. and Khurana, M.** ⁶⁷Ga lung imaging for pneumonitis/infarct differentiation, 551*
- Mishkin, F. S.**
see Maynard, W. P.
see Reese, I. C.
see Stevens, J. S.
see Wong, D. W.
- Mock, B.** see Pearson, D.
- Mohammedzadeh, A., Colombetti, L. G., Ryo, U. Y. and Pinsky, S. M.** Adrenal and pituitary uptake of ¹⁴C-ascorbic acid, 551*
- Mohammedzadeh, A.** see Ryo, U. Y.
- Moinuddin, M.** see Rockett, J. F.
- Moniot, A. L.** Liver-spleen scintigram in kala-azar, 1128
- Monroe, L. A.** see Murphy, P. H.
- Montz, R.** see Hupe, W.
- Moore, D. O.** see Selby, J. B.
- Moore, J. G.** see Bonte, F. J.
- Moore, M. M., Bucher, J. E. and Hendee, W. R.** Quality assurance in nuclear medicine, 550*
- Morales, J. O.** see Devenney, J. E.
- Morgan, R. D.** see Kim, H.-R.
- Mori, T., Hamamoto, K., Onoyama, Y. and Torizuka, K.** ^{99m}Tc-bleomycin tumor imaging, 414
- Mori, T., Odori, T., Yamamoto, I., Sakamoto, T., Morita, R., Hamamoto, K., Torizuka, K. and Hiro-tani, H.** ^{99m}Tc-bleomycin imaging in soft tissue lesions, 551*
- Mori, T.** see Hamamoto, K.
- Morin, R. L.** see Brookeman, V. A.
- Morita, R.**
see Hamamoto, K.
see Mori, T.
- Morris, J. G.** see Crocker, E. F.
- Morrison, R.** see Mincey, E.
- Mortara, R. H.** see Brooks, W. H.
- Moschos, C. B.** see Oldewurtel, H. A.
- Moses, D. C.** see Balachandran, S.
- Moskowitz, G. W., Levy, L. M. and Sacher, F. J.** Automated ¹³²Xe spirometer system, 551*
- Moskowitz, G. W.** see Levy, L. M.
- Mosley, S. T.**
see Balachandran, S.
see Gill, S. P.
see Sarkar, S. D.
- Moyer, R. A., Murphy, P. H. and Burdine, J. A.** Large-field-of-view scintillation camera, 552*
- Moyer, R. A.** see Murphy, P. H.
- Muchllehner, G.** Positron camera with extended counting rate capability, 653
- Mukai, T.** see Ishii, Y.
- Mullani, N. A.** see Phelps, M. E.
- Mundia, A.** see Sham, R.
- Murano, R.** see Lewellen, T. K.
- Murata, H., Kobayashi, M., Iio, M., Yamada, H., Chiba, K., Matsui, K. and Abe, M.** Sensitivity of the Limulus test, 552*
- Murata, H.** see Matsui, K.
- Muroff, L. R.** see Johnson, P. M.
- Murphy, M. P.** see Cowan, R. J.
- Murphy, P. H., Burdine, J. A. and Moyer, R. A.** Converging collimators and a large field of view scintillation camera, 1152
- Murphy, P. H., Monroe, L. A. and Burdine, J. A.** High-efficiency lung imaging, 552*
- Murphy, P. H.**
see Burdine, J. A.
see Moyer, R. A.
- Mussa, G. C.** ^{99m}Tc-gluconate tumor imaging, 552*
- Myers, R. W.**
see Agress, H.
see Green, M. V.
- Myers, W. G.** The first man-made radionuclide study in the life sciences, 1106
- Myerson, P. J.** Pseudotumors in acute hepatitis, 799
- Nahmias, C. and Garnett, E. S.** Blood background in ^{99m}TcO₄⁻ brain scans, 553*
- Nahmias, C., Webber, C. E., Banna, M. and Garnett, E. S.** Blood background effect on brain scans, 676
- Nahmias, C.** see Coates, G.
- Natarajan, T. K.** see James, A. E.
- Nawa, O. A.** see Ikebe, J.
- Neifeld, J. P.** see Richman, S. D.
- Neitzschman, H. R.** see Belanger, M. A.
- Nelp, W. B.**
see Atkins, H. L.
see Lewellen, T. K.
- Nelson, M. F., Melton, R. E. and Van Wazer, J. R.** Sodium trimetaphosphate for bone imaging, 1043
- Nelson, M. F. and Vorhees, L. C.** Purification and quality control of ¹³¹I-cholesterol, 69
- Newton, W. T.** see George, E. A.
- Nickles, R. J., Holden, J. E., Kiuru, A. J. and Polcyn, R. E.** Modular standardization of data acquisition, 553*
- Niden, A. H.** see Mishkin, F. S.
- Nieweg, H. O.** see Beekhuis, H.
- Nishiyama, H., Lewis, J. T., Ashare, A. B. and Saenger, E. L.** Interpretation of liver images, 11
- Nishiyama, H., Sodd, V. J., Adolph, R. J., Lewis, J. T. and Saenger, E. L.** Comparison of myocardial imaging agents, 553*
- Nishiyama, R. H.** see Anderson, B. G.
- Nissen, A. W.** see Sy, W. M.
- Nitishin, A.** see Dhekne, R. D.
- Nitta, K.** see Kojima, M.
- Nohara, N. and Tanaka, E.** Analog image processing in omnidirectional scanning, 685
- Nolan, N. G.** Computer assisted ventilation/perfusion in pulmonary embolism, 553*
- Nolan, N. G.**
see Berquist, T. H.
see Seward, J. B.
- Nora, J. C.** see Krejcarek, G. E.
- Ntundulu, T., Tran, N. and LeBel, E.** Continuous ¹⁴CO₂ breath analysis in vitamin B₁₂ deficiency, 553*
- Ntundulu, T.** see Tran, N.
- Nusynowitz, M. L. and Benedetto, A. R.** Determination of MTF for the scintillation camera, 1200
- Nusynowitz, M. L. and Benedetto, A. R.** Thyroxine binding globulin capacity, 1076
- Nusynowitz, M. L.** see Pick, R. O.
- Nuttall, F. Q.** see Shafer, R. B.
- O'Brien, H. A.** see Grant, P. M.
- O'Connell, D. J., Stein, M. E., Tow, D. E., Frisbie, J. H., Sasahara, A. A. and Belko, J. S.** Radioiodinated autologous fibrinogen kit, 554*
- O'Connell, D. J.** see Frisbie, J. H.
- Oddie, T. H.** see Berman, M.
- Odori, T.** see Mori, T.
- Ogawa, H.** see Kojima, M.
- Ojemann, R. G.** see Hoop, B.
- O'Keefe, A.** see Zweiman, F. G.
- Oldendorf, W. H.** Photon spectra of ¹²⁵I and ¹²⁵I, 246
- Oldewurtel, H. A., Rao, D. V., Moschos, C. B., Haider, B. and Regan, T. J.** ¹⁸⁶Er imaging of early myocardial infarct, 554*
- Ollodart, R.** see Quinlan, J.
- Olson, W. H.** see McCombs, R. K.
- O'Mara, R. E., Capps, S. J. and Hall, J. N.** Autoradiography of kidney distribution, 554*
- O'Mara, R. E., Haber, K., Corrigan, J., Johnson, H. and Lilien, D. L.** ¹¹¹In-bleomycin tumor scanning in pediatrics, 554*
- O'Mara, R. E., Schecter, J. P., Jones, S. E. and Woolfenden, J. M.** Bone scanning in lymphoma, 555*
- O'Mara, R. E., Witte, M., Witte, C. L., Corrigan, J., Woolfenden, J. M. and Ovitt, T. W.** Liver-splenic perfusion studies, 555*
- O'Mara, R. E.**
see Hall, J. N.
see Handmaker, H.
see Tokars, R. P.
see Van Antwerp, J. D.
- Onoyama, Y.** see Mori, T.
- Oppenheim, B. E.** Transaxial reconstruction by iterative techniques, 555*
- Orme, H. W.** see Gates, G. F.
- O'Rourke, J.**
see Bronzino, J.
see D'Amato, D.
- O'Rourke, R.** see Schelbert, H.

AUTHOR INDEX

- Oster, Z. H., Larson, S. M., Strauss, H. W. and Wagner, H. N. Analysis of liver scanning, 450
- Ostrom, B. see Shapiro, B.
- Ostrow, H. G. see Green, M. V.
- Otto, H. F. see Hupe, W.
- Ovitt, T. W. see O'Mara, R. E.
- Owunwanne, A., Marinsky, J. A. and Blau, M. Valence state of Sn(II) reduced Tc, 555*
- Pabst, H. W. see Bofilias, I.
- Packer, S., Lambrecht, R. M., Wolf, A. P. and Atkins, H. L. ²⁰³Pb-Tris for melanoma, 556*
- Padikal, T. see Ashare, A. B.
- Palmer, H. E. see Lewellen, T. K.
- Palsler, R. F. see Billingham, M. W.
- Pang, S. C. and Genna, S. Fourier convolution fan-geometry reconstruction, 556*
- Pang, S. C. see Genna, S.
- Panigel, M. see James, A. E.
- Pannecièrre, C. see Bardy, A.
- Paras, P. see Hine, G. J.
- Parker, J. A. see Hoop, B.
- Parker, R., Wilson, B. and Dance, D. Digital techniques for a zone-plate aperture, 556*
- Parkey, R. W., Bonte, F. J., Stokeley, E. M., Meyer, S. L. and Willerson, J. T. ^{99m}Tc-pyrophosphate myocardial imaging, 556*
- Parkey, R. W. see Bonte, F. J. see Stokeley, E. M.
- Parmley, W. see Shames, D. M.
- Parthasarathy, K. L. see Adler, S. see Lunia, S.
- Patel, D. see Sy, W. M.
- Patel, S. R. see Balachandran, S.
- Patterson, V. N. see Pavel, D. G.
- Patton, D. D. Posterior fossa brain scans, 556*
- Patton, D. D. see Atkins, H. L. see Cloutier, R. J. see Freeman, L. M. see Patton, J. A.
- Patton, J. A., Hollifield, J., Patton, D. D. and Brill, A. B. Quantitative fluorescent thyroid scanning, 557*
- Pavel, D. G., Jonasson, O. M., Anderson, O., Patterson, V. N. and Kahan, B. D. Diagnosis of post renal transplant collecting system, 557*
- Pearlman, A. S. see Agress, H. see Green, M. V.
- Pearson, D., Harper, P. V., Brown, F., Mock, B., Krizek, H., Johns, L. and Rich, M. Effect of compression on the cerebral blood pool, 557*
- Peart, R. A. and Driedger, A. A. Obstructed mediastinal return effect on cerebral angiography, 622
- Pedersen, B. see Kristensen, K.
- Peek, N. F. see DeNardo, S. J. see Hines, H. H.
- Pendergrass, H. P. see Fischer, K. C.
- Perey, J. S. see Lentle, B. C.
- Perez, L. A. see Lutzker, L. G.
- Perez-Mendez, V. see Lim, C. B.
- Persson, B. R. R. and Kempf, V. ^{99m}Tc-streptokinase for thrombus imaging, 557*
- Persson, B. R. R. and Kempf, V. ^{99m}Tc-streptokinase labeling and testing, 475
- Peters, R. see Hurwitz, S. R.
- Petrocelli, R. D. and Wetzel, R. A. Detection of a pheochromocytoma, 234
- Petroff, P. A. see Lull, R. J.
- Pfeiffer, G. see Hupe, W.
- Phelps, M. E., Hoffman, E. J., Huang, S.-C., and Ter-Pogossian, M. M. Effect of positron range on spatial resolution, 649
- Phelps, M. E., Hoffman, E. J., Mullani, N. A. and Ter-Pogossian, M. M. Transaxial reconstruction tomography, 210
- Phelps, M. E., Ter-Pogossian, M. M., Hoffman, E. J., Mullani, N. A. and Coble, C. S. Computerized transaxial tomograph, 558*
- Phelps, M. E. see Coleman, R. E.
- Philips, C. see Charkes, N. D.
- Piccone, J. see Sagar, V. V.
- Pick, R. A. see Mishkin, F. S.
- Pick, R. O., Daniels, D., Waliszewski, J. A. and Nusynowitz, M. L. Comparison of T₂ kits, 558*
- Pierson, R. N. see Price, D. C.
- Pinsky, S. see Thrall, J.
- Pinsky, S. M. see Arnold, J. E. see Johnston, A. S. see Mohammedzadeh, A. see Ryo, U. Y.
- Pircher, F. J. Book review: *Nuclear Medicine—Brief and to the Point*, 1091
- Pitt, B. see Rossman, D. J. see Semenov, D.
- Pitt, M. J. see Van Antwerp, J. D.
- Pizer, S. M. see Alpert, N. M.
- Platzer, H. see Bofilias, I.
- Podoloff, D. A. see Harvey, W. C.
- Poe, N. D., Robinson, G. D. and Tillisch, J. H. Blood flow effect on myocardial infarct uptake, 558*
- Poe, N. D. see Graham, L. S.
- Pohlmann, G. P. see Yeh, E.-L.
- Poleyn, R. E. see Nickles, R. J.
- Polin, S. G. see Ryo, U. Y.
- Pongpatirojana, A. see Bacharach, S.
- Porter, W. see Dworkin, H. J.
- Poshyachinda, M., Maturosakul, B. and Manothaya, C. Liver scanning in pseudocyst, 825
- Potsaid, M. S. see Fischer, K. C.
- Potter, M. see Dworkin, H. J.
- Poulose, K. P., Watkins, A. E., Reba, R. C., Eckelman, W. C. and Goodyear, M. Cobalt labeled bleomycin, 839
- Poulose, K. P., Watkins, A. E., Reba, R. C., Eckelman, W. C. and Goodyear, M. Comparison of ⁶⁷Co-bleomycin and ⁶⁷Ga-citrate tumor scanning, 558*
- Poulose, K. P. see Kubota, H. see Watkins, A. E.
- Pozderac, R. V. see Skinner, R. W. S.
- Prakash, S. see Sturman, M. F.
- Prasad, K. N. see Jackson, G. L.
- Preston, D. F., Servoss, W. C., Kennedy, T. D., Herrin, W. A., Gallagher, J. A., Wegst, A. V. and Riley, R. C. Sequential smoothing of scintillation camera images, 558*
- Preston, D. F. see Kennedy, T. D.
- Prezio, J. A. see Mattar, A. G.
- Price, D. C. and Hattner, R. S. Comparison of bone and bone marrow imaging, 559*
- Price, D. C., Kaufman, L. and Pierson, R. N. Bromide space by fluorescent excitation analysis, 814
- Price, D. C. see Lim, C. B.
- Price, R. Hillis, S., Friesinger, G. and Brill, A. B. Analytical techniques for image superposition, 559*
- Primeau, J. L. see Harwig, J. F.
- Prince, J. R., Dukstein, W. G. and White, W. E. Systems analysis of a computer for radioimmunoassay, 559*
- Pritchard, J. H., Ackerman, M. J., Tubis, M. and Bland, W. H. ¹¹¹In-chelates-antibodies, 559*
- Profio, A. E. and Cho, Z. H. Semiconductor camera for small tumor detection, 53
- Puri, S., Belliveau, R. E., Spencer, R. P. and Bachur, N. R. Prostaglandins in mice with neuroblastoma, 83
- Puri, S., Freedman, G. S., Donabedian, R. K., Wolfson, S. and Zaret, B. L. ⁴⁰K and ^{99m}Tc-pyrophosphate uptake and CPK depletion in myocardial infarct, 559*
- Quenelle, D. J. see Silberstein, E. B.
- Quinlan, J., Loberg, M. D., Ollodart, R. and Cooper, M. D. ¹²⁵I-autologous fibrinogen studies in kidney transplant rejection, 555*
- Quinn, J. L. see Henkin, R. E. see Martonfly, K.
- Quinto, R. R. see Hurwitz, S. R.
- Ramachandran, P. C. see Rayudu, G. V. S.
- Ramaden, F. see Manfredi, O. L.
- Ramanna, L. see Atmaran, S. H. see Taplin, G. V.
- Ramsay, I. see McHardy-Young, S.
- Ramsdell, J. see Hurwitz, S. R.
- Ramsey, P. see Sagar, V. V.
- Rao, D. V. see Oldewurtel, H. A.
- Rasker, J. J., van de Poll, M. A. C. P., Beekhuis, H., Woldring, M. G. and Nieweg, H. O. ⁶⁷Co-bleomycin for tumor studies, 1058
- Rauf, C. G. see Ashare, A. B.
- Raventos, A. see Stadalnik, R. C.

- Raynaud, C.
see Comar, D.
see Soussaline, F.
- Rayudu, G. V. S., Kanoor, R., Ramachandran, P. C., Ali, A., Turner, D. A. and Fordham, E. W. Distribution of labeled serum proteins in tumor bearing mice, 560*
- Rayudu, G. V. S., Kanoor, R., Ramachandran, P. C., Ali, A., Turner, D. A. and Fordham, E. W. Tumor uptake of ⁶⁷Ga- and ¹⁹⁷Hg-adriamycin, ¹⁹⁷Hg-acetate and ⁶⁷Ga-chloride, 560*
- Rayudu, G. V. S. see Friedman, A. M.
- Reba, R. C.
see Eckelman, W. C.
see Harbert, J. C.
see Kubota, H.
see Poulouse, K. P.
see Watkins, A. E.
- Redmond, M. J.
see Balachandran, S.
see Ice, R. D.
- Redwood, D. R.
see Agress, H.
see Green, M. V.
- Reed, M. F. Abstracts of current literature, 501, 502, 503
- Reed, M. F. see Digenis, G. A.
- Reese, I. C. and Mishkin, F. S. Cardiac motion images, 368
- Reese, I. C. and Mishkin, F. S. Recording scans on 4 × 5 inch film, 560*
- Reese, L. and Mackenzie, R. Normal range of ¹²⁵I thyroid uptakes, 560*
- Reeve, J. see Wooten, R.
- Regan, T. J. see Oldewurtel, H. A.
- Reilly, B. J. see Ash, J. M.
- Reiman, R. E. see Gelbard, A. S.
- Reimer, K. A. see Martonfy, K.
- Reinke, D. B., Damm, D. W., Dunn, B. and Shafer, R. B. Data storage and retrieval system, 275
- Reinke, D. B. see Shook, D. R.
- Reiswing, R. see Grames, G. M.
- Resnick, D. see Alazraki, N. P.
- Rhodes, B. A.
see Chen, M.
see Fisher, C. H.
see Semenoff, D.
- Riccobono, X. J. see Sfakianakis, G. N.
- Rich, M.
see Lathrop, K. A.
see Pearson, D.
- Richards, A. G. Metastatic calcification and bone scanning, 1087
- Richards, P.
see Ansari, A. N.
see Lebowitz, E.
see Smith, T. D.
- Richman, S. D., Brodey, P. A., Frankel, R. S., de Moss, E. V., Tormey, D. C. and Johnston, G. S. Breast scintigraphy with ^{99m}TcO₄⁻ and ⁶⁷Ga-citrate, 293
- Richman, S. D., Ingle, J. N., Levenson, S. M., Neifeld, J. P., Tormey, D. C., Jones, A. E. and Johnston, G. S. ⁶⁷Ga studies in breast carcinoma, 996
- Richman, S. D., Ingle, J. N., Levenson, S. M., Tormey, D. C., Jones, A. E. and Johnston, G. S. ⁶⁷Ga detection of metastatic breast carcinoma, 560*
- Richman, S. D. see Levenson, S. M.
- Rigo, P., Gach, J., and Mengeot, P. H. Myocardial and blood pool scans in left ventricular aneurysm, 1024
- Rigo, P. see Schelbert, H.
- v. Rijk, P. P. see Jambroes, G.
- Riley, R. C.
see Preston, D. F.
see Wegst, A. V.
- Risch, V. R., Burns, H. D., Honda, T., Micalizzi, M., Brady, L. W. and Heindel, N. D. ^{99m}Tc-sulfonyl-urea preparation and animal distribution, 561*
- Risch, V. R.
see Heindel, N. D.
- Ristroph, D. see Cummings, D. M.
- Roberts, B. R. see See, J. R.
- Roberts, G. S. see Malmud, L. S.
- Roberts, R. see Coleman, R. E.
- Robertson, J. see Rockett, J. F.
- Robinson, G. D. High specific activity ¹⁸F-fluoroethanol, 561*
- Robinson, G. D. and Lee, A. W. ¹²⁵I-iodoantipyrine kit, 561*
- Robinson, G. D. and Lee, A. W. Radiiodinated fatty acids for heart imaging, 17
- Robinson, G. D., Uszler, J. M. and Bennett, L. R. Brain dynamics of lipophilic radiopharmaceuticals, 561*
- Robinson, G. D. see Poe, N. D.
- Robinson, R. G., Hurwitz, A., Skibba, R., Herrin, W. A. and Hartman, C. Effects of antacids on gastric emptying, 562*
- Robinson, R. G.
see Gobuty, A. H.
see Kennedy, T. D.
see Wegst, A. V.
- Rockett, J. F., Hamilton, F., Robertson, J. and Moinuddin, M. Bifrontal epidural hematoma image, 908
- Rockett, J. F., Kaplan, E. S., Hudson, J. S. and Moinuddin, M. Intracerebral hemorrhage on ^{99m}TcO₄⁻ angiogram, 459
- Roco, R. N. and Dworkin, H. J. ¹²⁵I thyroid uptakes, 562*
- Rodden, A. F. see DeGrazia, J. A.
- Rogers, W. L. and Wainstock, M. A. An ultrasound guided gamma-ray probe, 562*
- Rogers, W. L.
see Keyes, J. W.
see Koral, K. F.
- Rogge, J. D. see Kavula, M. P.
- Rohrer, R. H.
see Berman, M.
see Blau, M.
see Hunter, D.
- Rollo, F. D. and Johnson, R. F. Imaging properties of ⁸⁶Rb and ⁴¹K, 562*
- Ronai, P. M., Baker, R. J., Bellen, J. C., Collins, P. J., Anderson, P. J. and Lander, H. ^{99m}Tc-pyridoxylidene-glutamate hepatobiliary studies, 728
- Ronai, P. M. see Baker, R. J.
- Roos, P. see Heidental, G. A. K.
- Rosenberg, R. see Weinraub, J. M.
- Rosenreich, M. see Subramanian, G.
- Rosenthal, S., Ashkar, F. S., DeNardo, G. L., Holmes, R. A., Serafini, A. N., Manoli, R. S., DeNardo, S. J. and Caretta, R. F. Safety of ¹²⁵I-fibrinogen, 562*
- Rosenthal, L. and Kaye, M. ^{99m}Tc-pyrophosphate kinetics, 33
- Rosenthal, L.
see Cloutier, R. J.
see Freeman, L. M.
see Kaye, M.
- Roser, S. and Mena, I. ^{99m}Tc-diphosphonate bone graft imaging, 563*
- Ross, D. A. see DeLand, F. H.
- Rossmann, D. J., Rouleau, J., Strauss, H. W. and Pitt, B. ^{99m}Tc-glucoheptonate for myocardial infarct characterization, 980
- Rossmann, D. J., Rouleau, J., Strauss, H. W. and Pitt, B. ^{99m}Tc-glucoheptonate imaging of myocardial infarct, 563*
- Rossmann, D. J., Strauss, H. W., Siegel, M. E. and Pitt, B. ^{99m}Tc-glucoheptonate uptake in myocardial infarct, 875
- Rouleau, J. see Rossmann, D. J.
- Ruby, S. L. see Friedman, A. M.
- Ruetz, P. P., Meade, R. C., Yeh, E.-L. and Balint, R. Diagnosis of biliary pancreatic disease, 563*
- Ruetz, P. P. see Sebern, M. J.
- Ruksawin, N. see Glenn, H. J.
- Russ, G. A. see Bigler, R. E.
- Russ, G. R.
see Tilbury, R. S.
see Woodard, H. Q.
- Russell, A. S. see Lentle, B. C.
- Russell, C. D., Jander, H. P. and Dubovsky, E. V. Perfusion imaging of a chemodectoma, 472
- Russell, J. J. see Friedman, A. M.
- Ryo, U. Y. Artifact simulation of spleen infarct, 99
- Ryo, U. Y., Arnold, J. E. and Pinsky, S. M. Thyroid image sensitivity, 563*
- Ryo, U. Y., Colombetti, L. G., Polin, S. G. and Pinsky, S. M. Radio-nuclide venography, 563*
- Ryo, U. Y., Ice, R. D., Jones, J. D. and Beierwaltes, W. H. Distribution of labeled bleomycin in rats, 127
- Ryo, U. Y., Mohammedzadeh, A., Colombetti, L. G., Siddiqui, A. and Pinsky, S. M. Evaluation of ^{99m}Tc-RBC, 564*
- Ryo, U. Y., Siddiqui, A. and Pinsky, S. M. Nonvascular cranial tumor on cerebral flow study, 462

- Ryo, U. Y.
see Arnold, J. E.
see Balachandran, S.
see Beierwaltes, W. H.
see Mohammedzadeh, A.
- Rzeszotarski, W. J. see Eckelman, W. C.
- Sacher, F. J. see Moskowitz, G. W.
- Sachura, M. see Arnold, J. E.
- Sade, R. see Treves, S.
- Saenger, E. L., Sodd, V. J., Kereiakes, J. G. and Van Tuinen, R. J. Scintillation camera quality control, 564*
- Saenger, E. L.
see Holder, L. E.
see Nishiyama, H.
see Smith, W.
- Safi, N. see Blanquet, P.
- Sagar, V. V., Ramsey, P., Kurman, D. and Piccone, J. Femoral head changes in cup-arthroplasty, 564*
- Saha, G. B., Schell, E. T. and Farrar, P. A. Lymphocyte labeling with ^{67}Ga , ^{111}In , and ^{199}Hg , 564*
- Saito, H. see Yamada, H.
- Sakamoto, T.
see Mori, T.
see Torizuka, K.
- Sakimura, I. T., Waxman, A. D. and Siemsen, J. K. Comparison of $^{99\text{m}}\text{Tc}$ -DTPA and $^{99\text{m}}\text{TcO}_4^-$ brain images, 564*
- Salel, A. F. see Berman, D. S.
- Salvatore, M. and Gallo, A. Accessory thyroid in the anterior mediastinum, 1135
- Sansi, P. K. see Verma, R. C.
- Saparoff, G. R. see Chaudhuri, Tapan K.
- Sargent, T., Kalbhen, D. A., Shulgin, A. T., Stauffer, H. and Kusbobov, N. ^{75}Br -dimethoxyphenylisopropylamine for brain scanning, 243
- Sarkar, S. D., Beierwaltes, W. H., Ice, R. D., Basmadjian, G. P., Hetzel, K. R., Kennedy, W. P. and Mason, M. M. NP-59 for adrenal studies, 1038
- Sarkar, S. D., Ice, R. D., Beierwaltes, W. H., Basmadjian, G. P., Hetzel, K. R. and Kennedy, W. P. ^{131}I -cholesterol analog for adrenal gland, 565*
- Sarkar, S. D., Ice, R. D., Beierwaltes, W. H., Basmadjian, G. P., Kennedy, W. P. and Mosley, S. T. ^{75}Se -selenocholesterol for adrenal imaging, 565*
- Sarmiento, A. H., Alba, J., Lanaro, A. E. and Dietrich, R. $^{99\text{m}}\text{Tc}$ -pyrophosphate soft tissue scan in dermatomyositis, 467
- Sasahara, A. A.
see Frisbie, J. H.
see O'Connell, D. J.
- Sarchilli, J. see Yeates, M. G.
- Schauwecker, D. see Wellman, H. N.
- Schecter, J. P. see O'Mara, R. E.
- Scheffel, U. see Fisher, C. H.
- Schein, P. S. see Harbert, J. C.
- Schelbert, H., Henning, H., O'Rourke, R., Verba, J. W., Crawford, M., Karliner, J. and Ashburn, W. L. Comparison of methods for left ventricular ejection fraction, 565*
- Schelbert, H., Rigo, P., Henning, H., Chauncey, D. M., Khullar, S., O'Rourke, R. and Ashburn, W. ^{201}Tl distribution and myocardial imaging, 565*
- Schell, E. T. see Saha, G. B.
- Scherlis, L. see Termini, B.
- Schimmel, D. see Hattner, R. S.
- Schlüter, I. H. see Glaubitt, D. M. H.
- Schneider, A. see Arnold, J. E.
- Schreyer, M., Kovaleski, B., Vanags, K., Homesley, J. and Franco, J. A. Thermography for peripheral venous thrombosis, 566*
- Schreyer, M.
see Franco, J. A.
see Homesley, J.
- Schroeder, E. T. see Blair, R. J.
- Schteingart, D. E. see Seabold, J. E.
- Schuck, L. D. see Chandler, W. M.
- Schulz, R. C., Shields, J. B., Fletcher, J. W. and Donati, R. M. Liver scanning and the intrahepatic gallbladder, 1029
- Scott, J. R., Lentle, B. C. and McPherson, T. A. $^{99\text{m}}\text{Tc}$ -granulocyte preparation and uptake by inflammation, 566*
- Scott, R. N. see Green, M. V.
- Seabold, J. E., Beierwaltes, W. H., Zaken, J. F., Wieland, D. M. and Ice, R. D. ^3H -aminoglutethimide adrenal localization, 566*
- Seabold, J. E. and Schteingart, D. E. Adrenal imaging with ^{131}I -iodocholesterol, 566*
- Sebern, M. J., Horgan, J. D., Meade, R. C., Kronenwetter, C., Ruetz, P. P. and Yeh, E.-L. Minicomputer enhancement of scintillation camera images, 566*
- Secker-Walker, R. H., Alderson, P. O., Hill, R. L. and Markham, J. Regional ventilation in chronic obstructive lung disease, 567*
- See, J. R., Cohn, P. F., Holman, B. L., Roberts, B. R. and Adams, D. F. Regional myocardial blood flow in coronary artery disease, 567*
- See, J. R. see Holman, B. L.
- Seibert, J. J. See Conway, J. J.
- Selby, J. B., Hunter, G. O. and Moore, D. O. The pancreas scan as a functional study, 1090
- Semenoff, D., Marzilli, L., Strauss, H. W., Harrison, K., Rhodes, B. A. and Pitt, B. ^{210}Pb - and ^{201}Tl -ionophores, 567*
- Serafini, A. N., Hupf, H. B., Lindberg, D., Smoak, W. M. and Gilson, A. J. ^{125}I -rose bengal in jaundice, 567*
- Serafini, A. N., Smoak, W. M., Hupf, H. B., Beaver, J. E., Holder, J. and Gilson, A. J. ^{125}I -rose bengal for hepatobiliary imaging, 629
- Serafini, A. N. see Rosenthal, S.
- Servoss, W. C. see Preston, D. F.
- Seward, J. B., Greenleaf, J. F., Nolan, N. G. and Tancredi, R. G. Myocardial tomography, 568*
- Sfakianakis, G. N., Damoulakisfadianaki, E., Bass, J. C., Earl, W. C. and Riccobono, X. J. $^{99\text{m}}\text{Tc}$ -pyrophosphate scanning in calcinosis universalis of dermatomyositis, 568*
- Sfakianakis, G. N., Fulmer, L. R. and Riccobono, X. J. Pancreas scanning analysis, 568*
- Shafer, P. B. see Custer, J. R.
- Shafer, R. B. and Nuttall, F. Q. Thyroid function following ^{131}I therapy, 568*
- Shafer, R. B.
see Martin, T. R.
see Reinke, D. B.
- Sham, R., Cortes, E. P., Mundia, A., Klein, H., Azueta, V. and Silver, L. $^{99\text{m}}\text{Tc}$ -diphosphonate chest imaging, 568*
- Sham, R. see Malamud, H.
- Shambu, M. see Theodorakis, M. C.
- Shames, D. M., Botvinick, E., Lappin, H., Townsend, R., Tyberg, J. and Parmley, W. $^{99\text{m}}\text{Tc}$ -pyrophosphate imaging and CPK depletion in myocardial infarct, 569*
- Shani, J. see Wolf, W.
- Shapiro, B., Stein, I., Cantor, R. E. and Ostrom, B. $^{99\text{m}}\text{Tc}$ -EHDP and ^{18}F scanning in Paget's disease, 569*
- Shapiro, S. H., Castronovo, F. P., Callahan, R. J. and Athanasoulis, C. A. $^{113\text{m}}\text{In}$ detection of gastrointestinal bleeding, 569*
- Share, A. B. see Smith, W.
- Sharma, S. M. see Atmaran, S. H.
- Shaw, M. J. see Beierwaltes, W. H.
- Shenkman, L. and Hollander, C. S. Effective thyroid ratio in pediatric, 955
- Sherman, L. A.
see Coleman, R. E.
see Harwig, J. F.
- Shichiri, M. see Goriya, Y.
- Shields, J. B. see Schulz, R. C.
- Shigeta, Y. see Goriya, Y.
- Shih, W.-J. Imaging in delayed traumatic splenic rupture, 912
- Shih, W.-J. $^{113\text{m}}\text{In}$ perfusion study and thyroid nodule, 1187
- ShIPLEY, B. A. see Hambright, P.
- Shook, D. R. and Reinke, D. B. $^{99\text{m}}\text{Tc}$ -S colloid uptake in vertebral compression fractures, 92
- Shoop, J. D. see Stahly, T. L.
- Short, D. B. and Kirchner, P. T. Detection of spinal fluid leak, 616
- Shponka, S. see Kaplan, E.
- Shulgin, A. T. see Sargent, T.
- Siddiqui, A. see Ryo, U. Y.
- Siegel, B. A.
see Coleman, R. E.
see Eckelman, W. C.
see Harwig, J. F.
see Welch, D. M.
- Siegel, M. E., Giargiana, F. A. and

- Wagner, H. N. Arteriovenous shunting in a hypernephroma, 569*
- Siegel, M. E., Walker, W. J. and Campbell, J. J. ^{99m}Tc -diphosphate uptake by malignant pleural effusions, 883
- Siegel, M. E., Williams, G. M., Giargiana, F. A. and Wagner, H. N. Vascular perfusion studies of ischemic ulcers, 993
- Siegel, M. E.
see James, A. E.
see Rossman, D. J.
- Siemsen, J. K.
see Sakimura, I. T.
see Waxman, A. D.
see Woolfenden, J. M.
- Silberstein, E. B., Francis, M. D., Tofe, A. J. and Slough, C. L. Distribution of ^{99m}Tc -diphosphate and $^{99m}\text{TcO}_4^-$, 58
- Silberstein, E. B., Lewis, J. T. and Quenelle, D. J. Physiologic relationship of upper and lower airways, 570*
- Silver, L. see Sham, R.
- Silverstein, E. A., Zimmer, A. M. and Holmes, R. A. Quench correction for ^3H radioimmunoassays, 570*
- Silverstein, M. J. see Verma, R. C.
- Silverton, S. see Kaye, M.
- Simmons, G. H. Abstracts of current literature, 500
- Simmons, G. H. Book review: *Computer Processing of Dynamic Images from an Anger Scintillation Camera*, 498
- Simmons, G. H., DeLand, F. H., Magoun, S. and Beihn, R. M. Linear total body scanner, 570*
- Simon, G. see Conway, J. J.
- Simpson, R. G. see Barrett, H. H.
- Singh, M. see Cho, Z. H.
- Singla, O. see Barth, R. F.
- Singleton, R. see Termini, B.
- Sisson, J. C. see Balachandran, S.
- Skibba, R. see Robinson, R. G.
- Skinner, R. W. S., Pozderac, R. V., Counsell, R. E. and Weinhold, P. A. Steroidal prostate agents, 570*
- Skromme-Kadlubik, G., Diaz, J. F. and Celis, C. Basal ganglia scans, 787
- Slough, C. L. see Silberstein, E. B.
- Slovic, T. L. see Sorabella, P. A.
- Smith, E. M.
see Atkins, H. L.
see Berman, M.
see Blau, M.
see Cloutier, R. J.
see Freeman, L. M.
- Smith, T. D., Steimers, J. R. and Richards, P. ^{99m}Tc carrier effect on ^{99m}Tc labeled agents, 570*
- Smith, T. D. see Ansari, A. N.
- Smith, W., Share, A. B. and Saenger, E. L. Hepatic artery aneurysm, 1027
- Smith, W. see Holder, L. E.
- Smoak, W. M. see Serafini, A. N.
- Smol, R. see Lebowitz, E.
- Snow, R. M. and Weber, D. A. Time-dependent image quality with ^{99m}Tc -pyrophosphate, 879
- Snow, R. M. and Wilson, G. A. Scanning of multiple pulmonary arteriovenous fistulas, 328
- Snyder, W. S. see Blau, M.
- Sobel, B. E. see Coleman, R. E.
- Sodd, V. J. and Fortman, D. L. ^{90}Sr and ^{90}Sr contamination in ^{90}Mo - ^{90m}Tc generators, 571*
- Sodd, V. J.
see Feller, P. A.
see Nishiyama, H.
see Saenger, E. L.
- Soin, J. S., Burdine, J. A. and Beal, W. Myocardial uptake of ^{99m}Tc -pyrophosphate, 944
- Solomon, N. A.
see Lebowitz, E.
see Steigman, J.
- Sorabella, P. A., Slovic, T. L., Fellows, R. A. and Johnson, P. M. Gastric fundus simulation of suprarenal mass, 947
- Sorenson, J. A. Deadtime characteristics of Anger cameras, 284
- Soucek, C. D. Foramen of Morgagni hernia, 261
- Soucek, C. D. Sinusitis demonstrated by brain scanning, 89
- Soussaline, F., Todd-Pokropek, A. and Raynaud, C. Multi-isotope study equipment, 571*
- Spencer, R. P. Artifact simulation of spleen infarct, 100
- Spencer, R. P. Compartmental model for hepatoma uptake of $^{99m}\text{TcO}_4^-$, 571*
- Spencer, R. P. The small spleen, 571*
- Spencer, R. P. and Caride, V. J. Low dose ^{131}I therapy for hyperthyroidism, 572*
- Spencer, R. P., and Knowlton, A. H. Splenic response to external radiation, 123
- Spencer, R. P. and Miller, R. E. Distribution of iodo-folate, 573*
- Spencer, R. P. and Miller, R. E. Mercury adducts of unsaturated fatty acid esters, 573*
- Spencer, R. P.
see Puri, S.
see Sziklas, J. J.
see Witek, J. T.
- Spies, S. M., Swift, T. R. and Brown, M. Muscle uptake of ^{99m}Tc -polyphosphate in polymyositis, 1125
- Spitznagle, L. see Eng, R.
- Spolter, L., Chang, C. C., Bobinet, D., Cohen, M. B., MacDonald, N. S., Flesher, A. and Takahashi, J. M. Chemical and enzymatic synthesis of ^{11}C -acetyl phosphate, 572*
- Staab, E. V. see Johnston, R. E.
- Stacy, W. K. see Haden, H. T.
- Stadalnik, R. C., DeNardo, G. L. and Matolo, N. Quantitative hepatic blood flow, 573*
- Stadalnik, R. C., DeNardo, S. J., DeNardo, G. L. and Raventos, A. Evaluation of blood flow studies in liver tumor, 595
- Stadalnik, R. C. see Dublin, A. B.
- Stahly, T. L. and Shoop, J. D. Plague and the gallium scan, 1031
- Stark, V. see Hoffer, P. B.
- Stauffer H. see Sargent, T.
- Stauffer, J. C., Macumber, H. H. and Brown, M. J. EMI brain scanning, 573*
- Stavchansky, S. see Tilbury, R. S.
- Stebner, F. C. Steroid effect on brain scan in cerebral metastases, 320
- Steele, P. P. see Kirch, D. L.
- Steigman, J., Williams, H. P. and Solomon, N. A. Protein sulfhydryl group in ^{99m}Tc -HSA preparation, 573*
- Steigman, J. see Lebowitz, E.
- Steimers, J. R. see Smith, T. D.
- Stein, I. see Shapiro, B.
- Stein, M. E. see O'Connell, D. J.
- Steinbach, J. J. and Mattar, A. G. Anomalous venous drainage effects on cerebral blood flow study, 573*
- Steinhaeusl, H. see Deisenhammer, E.
- Stephens, D. H. see Berquist, T. H.
- Stevens, J. S. and Mishkin, F. S. Brain studies in seizure, 573*
- Stevens, J. S. and Mishkin, F. S. Persistent left superior vena cava, 569
- Stevenson, J. see Eckelman, W. C.
- Stokeley, E. M., Lewis, S. E., Buja, L. M., Parkey, R. W., Bonte, F. J. and Willerson, J. T. Myocardial size estimation with ^{99m}Tc -pyrophosphate, 573*
- Stokeley, E. M. see Parkey, R. W.
- Straatman, M. G., and Welch, M. J. Labeling proteins with ^{14}C , 425
- Strauss, A. W. see Alderson, P. O.
- Strauss, H. W.
see Oster, Z. H.
see Rossman, D. J.
see Semenov, D.
- Sturgeon, B. see Marta, J. B.
- Sturman, M. F., Beierwaltes, W. H., Ice, R. D. and Prakash, S. Adrenal uptake of ^3H -estradiol, 77
- Stutzman, L. see Adler, S.
- Subramanian, G., McAfee, J. G., Blair, R. J., Kallfelz, F. A. and Thomas, F. D. ^{99m}Tc -methylene diphosphonate for bone imaging, 744
- Subramanian, G., McAfee, J. G., Blair, R. J., Rosenstreich, M., Coco, M. and Duxbury, C. E. ^{99m}Tc -Sn-imidodiphosphate for bone scanning, 1137
- Subramanian, G., McAfee, J. G., Rosenstreich, M. and Coco, M. ^{113m}In -polyfunctional phosphonates for bone imaging, 1080
- Subramanian, G., McAfee, J. G., Rosenstreich, M. and Coco, M. ^{99m}Tc -imidodiphosphate for bone imaging, 574*
- Subramanian, G.

- see Arnold, R. W.
 see Chiotellis, E.
 see Van Heertum, R. L.
- Subramanyam, R. see Hoop, B.
- Sullivan, J. C. see Friedman, A. M.
- Sullivan, J. P. see Brahmeyer, S. M.
- Sun, T. T. see Washburn, L. C.
- Sunderland, M. L. Radiochromatographic quality control, 225
- Suzuki, T. see Torizuka, K.
- Suzuki, Y. see Imori, M.
- Swann, S. J. see Lim, C. B.
- Swanson, L. A. see Uszler, J. M.
- Swift, T. R. see Spies, S. M.
- Sy, W. M. and Nissen, A. W. Radionuclide studies in hemangioendotheliomatosis, 915
- Sy, W. M., Patel, D. and Faunce, H. Kidney sign on bone scan, 454
- Sy, W. M., Westring, D. W. and Weinberger, G. Cold lesions on bone imaging, 1013
- Syed, I. B. see Turner, J. W.
- Sziklas, J. J. and Spencer, R. P. Hepatic artery-portal vein fistula, 910
- Zsur, L. see Merrick, L. V.
- Takahashi, J. M.
 see Metzger, J. M.
 see Spolter, L.
- Takahashi, M. see Ishii, Y.
- Tanacescu, D. see Waxman, A. D.
- Tancredi, R. G. see Seward, J. B.
- Taplin, G. V., Tashkin, D. P., Anselmi, O. E., Elam, D. and Detels, R. Inhalation imaging in obstructive airways disease, 574*
- Taplin, G. V., Tashkin, D. P., Ramanna, L., Detels, R. and Anselmi, O. E. Radioaerosol imaging in obstructive airways disease, 574*
- Taplin, G. V. see Freeman, L. M.
- Tashkin, D. P. see Taplin, G. V.
- Tauxe, W. N. see Dubovsky, E. V.
- Taveras, J. M. see Hoop, B.
- Taylor, A., Baily, N. A., Halpern, S. A. and Ashburn, W. L. Localization for intracavitary ³²P-phosphate therapy, 318
- Taylor, A., Henry, J. E. and Alazraki, N. P. ^{99m}TcO₄⁻ secretion into isolated loops of rat bowel, 574*
- Taylor, A.
 see Alazraki, N. P.
 see Epstein, J.
 see Hurwitz, S. R.
- Taylor, J. R. see Krishnamurthy, G. T.
- Teates, C. D.
 see Howard, B. Y.
 see Weiner, M. J.
- Telfer, N. and Meyers, M. Avascular necrosis, degenerative joint disease differentiation, 574*
- Tepper, B. S. see Camargo, E. E.
- Teresi, J. D. see DeGrazia, J. A.
- Termini, B., Cooper, M. D., Scherlis, L., Singleton, R. and McLaughlin, J. ⁴³K myocardial scan in coronary artery disease, 575*
- Ter-Pogossian, M. M.
 see Coleman, R. E.
 see Phelps, M. E.
- Texter, J. H. see Haden, H. T.
- Theodorakis, M. C., Beihn, R. M., Digenis, G. A., DeLand, F. H., Shambu, M. and Wilson, L. C. ^{99m}Tc-polystyrene-TETA for gastric emptying, 575*
- Thijs, L. G. see Heidendal, G. A. K.
- Thomas, F. D.
 see Arnold, R. W.
 see Subramanian, G.
 see Van Heertum, R. L.
- Thomas, F. T. see Haden, H. T.
- Thomas, R. see Alazraki, N. P.
- Thompson, W. L. see DePuey, E. G.
- Thorell, J. I. see Kim, H.-R.
- Thoreson, E. see Blanquet, P.
- Thrall, J., Pinsky, S., Corcoran, R. C. and Johnson, M. Computer records system, 575*
- Thrall, J.
 see Corcoran, R. C.
 see Gillin, M.
- Tilbury, R. S., Stavchansky, S., Ting, C. T., MacDonald, J. M., Maugham, E., Freed, B. R., Russ, G. R., Helson, L., Benua, R. S., Kostenbauder, H. B. and Laughlin, J. S. ¹¹C-diphenylhydantoin for tumor, 575*
- Tillisch, J. H. see Poe, N. D.
- Tillmans, H. see Ikeda, S.
- Ting, C. T. see Tilbury, R. S.
- Tisi, G. see Hurwitz, S. R.
- Todd-Pokropek, A. see Soussaline, A.
- Tofe, A. J. and Francis, M. D. Toxicity of ^{99m}Tc-Sn-diphosphonate, 444
- Tofe, A. J., Francis, M. D. and Harvey, W. J. ^{99m}Tc-diphosphonate bone scans in metastatic disease, 986
- Tofe, A. J. see Silberstein, E. B.
- Tokars, R. P., Hall, J. N. and O'Mara, R. E. Computer determination of specific scan boundary, 576*
- Tokars, R. P. see Hall, J. N.
- Tomsick, T. see Holder, L. E.
- Tonaka, E. see Nohara, N.
- Torizuka, K., Itoh, H., Ishii, Y., Suzuki, T. and Sakamoto, T. Imaging bronchogenic carcinoma of the hilum, 576*
- Torizuka, K.
 see Hamamoto, K.
 see Ishii, Y.
 see Mori, T.
- Tormey, D. C.
 see Levenson, S. M.
 see Richman, S. D.
- Tohill, P. and Heading, R. C. ⁷⁵Se-amino acids, 933
- Touya, J. J., Graham, L. S. and Bennett, L. R. Kidney phantom for dynamic studies, 576*
- Tow, D. E.
 see Frisbie, J. H.
 see Garcia, D. A.
 see Lowenthal, I. S.
 see O'Connell, D. J.
- Townsend, R. see Shames, D. M.
- Tran, N., Chen, M., McIntyre, P., Larson, S. M. and Wagner, H. N. Lymphocyte carbohydrate metabolism assay, 576*
- Tran, N., Ntundulu, T. and LeBel, E. Antirheumatoid drug effect on SH groups in blood, 576*
- Tran, N. see Ntundulu, T.
- Treves, S., Sade, R., Williams, R. and Castenada, A. Lung function in pulmonary artery band, 577*
- Tripathi, U. B. and Iyer, P. S. Computation of specific absorbed fraction, 492
- Troy, F. A. see Coates, G.
- Tsan, M.-F. see Fisher, C. H.
- Tubis, M., Krishnamurthy, G. T. and Endow, J. S. ¹²⁵I-, ¹³¹I-chlorpropamide for pancreas studies, 577*
- Tubis, M.
 see Krishnamurthy, G. T.
 see Pritchard, J. H.
- Tucker, K. L. see Krejcarek, G. E.
- Turcotte, R. E. see Bell, E. G.
- Turner, D. A.
 see Cox, R. S.
 see Rayudu, G. V. S.
- Turner, J. W., Syed, I. B. and Hane, R. P. Retention of ^{99m}Tc-S colloid in the lungs, 249
- Turner, T. see Ashkar, F. S.
- Tyberg, J. see Shames, D. M.
- Uemura, K., Yamaguchi, K., and Kutsuzawa, T. Cerebral blood flow in subarachnoid hemorrhage, 577*
- Uren, R. F. see Crocker, E. F.
- Uszler, J. M. and Swanson, L. A. Focal nodular hyperplasia of the liver, 831
- Uszler, J. M. see Robinson, G. D.
- Valk, P. E. see Hambright, P.
- Vanags, K.
 see Franco, J. A.
 see Homesley, J.
 see Schreyer, M.
- Van Antwerp, J. D., Hall, J. N., O'Mara, R. E. and Hiltz, S. V. In vivo interaction of ^{99m}Tc-diphosphonate with Fe-dextran, 577*
- Van Antwerp, J. D., O'Mara, R. E., Pitt, M. J. and Walsh, S. ^{99m}Tc-diphosphonate accumulation in amyloid, 238
- van de Poll, M. A. C. P. see Rasker, J. J.
- Van Dyke, D.
 see Berndt, T.
 see Weber, P. M.
- Van Heertum, R. L., Subramanian, G., Thomas, F. D., McAfee, J. G., Hall, R. C., Heminger, L. and Vescio, P. D. ^{99m}Tc-hepatobiliary agents, 577*
- Van Tongeren, J. H. M. see Yap, S. H.
- Van Tuinen, R. J.
 see Grossman, L. W.
 see Saenger, E. L.
- Van Wazer, J. R. see Nelson, M. F.

- Verba, J. W.
see Alazraki, N. P.
see Schelbert, H.
- Verbist, A., Capon, A. and Frühling, J. Rapid evaluation of ^{133}Xe regional cerebral blood flow, 264
- Verdon, T. see McCowen, K. D.
- Verma, R. C., Silverstein, M. J., Graham, L. S. and Bennett, L. R. Tumor/nontumor ratio concept, 578*
- Verma, R. C., Silverstein, M. J., Greenfield, L. D. and Bennett, L. R. ^{111}In -bleomycin breast mass scanning, 578*
- Verma, R. C., Silverstein, M. J., Greenfield, L. D. and Bennett, L. R. ^{111}In -bleomycin breast scanning and mammography, 578*
- Verma, R. C., Webber, M. M., Sansi, P. K. and Gleghorn, B. In vivo thrombosis model, 578*
- Verma, R. C. see Horn, N. L.
- Versluis, A. see Hoving, J.
- Vescio, P. D.
see Van Heertum, R. L.
see Yeates, M. G.
- Vider, M. ^{32}P -chromic phosphate synovectomy, 100
- Vieras, F. Splenic uptake of ^{111}In , 1205
- Vieras, F. and Boyd, C. M. Kidney image on $^{99\text{m}}\text{Tc}$ -phosphate compound bone images, 1109
- Vogel, J. M. see Dublin, A. B.
- Vorhees, L. C. see Nelson, M. F.
- Wagner, H. N.
see Adelstein, S. J.
see Camargo, E. E.
see Chen, M.
see Cummings, D. M.
see Fisher, C. H.
see Hill, J. H.
see Kim, H. R.
see Klingensmith, W. C.
see Larson, S. M.
see Oster, Z. H.
see Siegel, M. E.
see Tran, N.
- Wahner, H. W., Kyle, R. A. and Beabout, J. W. $^{99\text{m}}\text{Tc}$ -diphosphate myeloma imaging, 579*
- Wainstock, M. A. see Rogers, W. L.
- Waliszewski, J. A. see Pick, R. O.
- Walker, A. G. Effect of $^{99\text{m}}\text{Tc}$ -Sn agents on subsequent $^{99\text{m}}\text{TcO}_4^-$ brain scan, 579*
- Walker, W. J. see Siegel, M. E.
- Walsh, C. F. see Krishnamurthy, G. T.
- Walsh, S. see Van Antwerp, J. D.
- Walter, K. E. see Fletcher, J. W.
- Walz, D. R. see DeGrazia, J. A.
- Wang, Y. Comparison of methods for breast carcinoma metastases evaluation, 579*
- Wang, Y. Radionuclide venogram combined with lung imaging, 579*
- Wartofsky, L. see Burman, K. D.
- Washburn, L. C., Sun, T. T., Wieland, B. W. and Hayes, R. L. Synthesis and purification of ^{14}C -amino acids, 579*
- Wasnich, R. see Berndt, T.
- Watkins, A. E., Poulouse, K. P., Goodyear, M. and Reba, R. C. $^{99\text{m}}\text{Tc}$ -HSA arthroscintigraphy in popliteal cyst, 581*
- Watkins, A. E. see Poulouse, K. P.
- Watson, E. E. and Coffey, J. L. ^{201}Tl radiation dose to the liver, 1089
- Watson, E. E., Howard, B. Y. and Cloutier, R. J. ^{133}Xe radiation dose to lungs, 580*
- Watson, P. see Manfredi, O. L.
- Watts, J. see Harrison, J. E.
- Waxman, A. D., Kawada, T. Siemsen, J. K. and Wolf, W. Comparison of ^{67}Ga -citrate preparations, 580*
- Waxman, A. D. and Siemsen, J. K. ^{67}Ga -citrate gallbladder scanning, 148
- Waxman, A. D. and Siemsen, J. K. ^{67}Ga scanning of cranial and intrascanning, 580*
- Waxman, A. D., Tanacescu, D., Siemsen, J. K. and Wolfstein, R. S. $^{99\text{m}}\text{Tc}$ -glucoheptonate brain scanning, 580*
- Waxman, A. D.
see Sakimura, I. T.
see Woolfenden, J. M.
- Webber, C. E. see Nahmias, C.
- Webber, M. M. see Verma, R. C.
- Weber, D. A. see Snow, R. M.
- Weber, P. M., Van Dyke, D., dos Remedios, L. V. and Anger, H. O. Tomographic scanning in myocardial infarct, 581*
- Wegst, A. V., Robinson, R. G. and Riley, R. C. Transplacental transfer of ^{67}Ga , 581*
- Wegst, A. V. see Preston, D. F.
- Weinberger, G. see Sy, W. M.
- Weiner, M. J. and Teates, C. D. Brain scanning in metastatic disease, 960
- Weinhold, P. A. see Skinner, R. W. S.
- Weinraub, J. M., Buzzi, K. W. and Irwin, G. A. L. Voltage fluctuation in camera image degradation, 581*
- Weinraub, J. M., Rosenberg, R. and Irwin, G. A. L. $^{99\text{m}}\text{Tc}$ -polyphosphate in breast mass diagnosis, 581*
- Weiss, M. A., Koenigsberg, M. and Freeman, L. M. Pulmonary arteriovenous malformation, 180
- Welch, D. M., Coleman, R. E. and Siegel, B. A. Cisternographic imaging patterns, 267
- Welch, M. J.
see Coleman, R. E.
see Harwig, J. F.
see Harwig, S. L.
see Knight, L. C.
see Straatman, M. G.
- Wellman, H. N., Hall, P., Kalsbeck, J. and Lewis S. $^{99\text{m}}\text{Tc}$ -HSA studies in hydrosyngomelia, 581*
- Wellman, H. N. and Schauwecker, D. $^{99\text{m}}\text{Tc}$ -DMSA myocardial infarct imaging, 582*
- Wellman, H. N.
see Berman, M.
see Kavula, M. P.
- Wells, H. see Garcia, D. A.
- Wells, L. D. see Harwig, J. F.
- Westring, D. W. see Sy, W. M.
- Wetzel, R. A. see Petrocelli, R. D.
- White, W. see Bell, E. G.
- White, W. E. see Prince, J. R.
- Widner, P. J. see Winstead, M. B.
- Wiedermann, M., Hušák, V. and Král, M. Radiation synovectomy with ^{32}P -chromic phosphate, 442
- Wieland, B. W. see Washburn, L. C.
- Wieland, D. M.
see Ice, R. D.
see Seabold, J. E.
- Wiener, J. D. see Heidendal, G. A. K.
- Wieseler, D. L. and Zimmerman, A. S. Scintillation camera whole-body scanning system, 582*
- Wilkie, A. see Alderson, P. O.
- Willerson, J. T.
see Parkey, R. W.
see Stokeley, E. M.
- Williams, G. M. see Siegel, M. E.
- Williams, H. P. see Steigman, J.
- Williams, R. see Treves, S.
- Williams, W. C. see Harrison, J. E.
- Wilson, B. see Parker, R.
- Wilson, D. see Farmelant, M. H.
- Wilson, G. A. see Snow, R. M.
- Wilson, L. C. see Theodorakis, M. C.
- Winchell, H. S. $^{99\text{m}}\text{Tc}$ -mercaptoisobutyric acid for hepatobiliary studies, 687
- Winchell, H. S.
see Khentigan, A.
see Winstead, M. B.
- Winstead, M. B., Widner, P. J., Means, J. L., Engstrom, M. A., Graham, G. E., Khentigan, A., Lin, T. H., Lamb, J. F. and Winchell, H. S. ^{14}C -aminonitriles, 582*
- Winstead, M. B., Widner, P. J., Means, J. L., Engstrom, M. A., Graham, G. E., Khentigan, A., Lin, T. H., Lamb, J. F. and Winchell, H. S. Distribution patterns of ^{14}C -aminonitriles, 1049
- Winston, M. A. ^{32}P -chromic phosphate synovectomy, 442
- Winston, M. A. Pseudotumors in acute hepatitis, 799
- Winter, P. F. and Johnson, P. M. Kidney uptake of $^{99\text{m}}\text{Tc}$ -diphosphate in Paget's disease, 582*
- Wisbey, M. L.
see Karran, S. J.
see Leach, K. G.
- Wise, G. R. see Deutchman, A. H.
- Witek, J. T. and Spencer, R. P. Clinical correlation of hepatic flow studies, 71
- Witte, M. see O'Mara, R. E.
- Woldring, M. G.
see Beekhuis, H.
see Hoving, J.
- Wolf, A. P.
see Ansari, A. N.
see Packer, S.
- Wolf, J. S. see Haden, H. T.
- Wolf, W., Berman, J. A. and Shani,

SUBJECT INDEX

- J. Kinetics of ¹⁴C-fluorouracil, 582*
- Wolf, W.
see Leh, F. K. V.
see Waxman, A. D.
- Wolff, J. R. see Bell, E. G.
- Wolfson, S. see Puri, S.
- Wolfstein, R. S.
see Waxman, A. D.
see Woolfenden, J. M.
- Wong, D. W. and Mishkin, F. S.
^{99m}Tc-human fibrinogen, 343
- Wood, J. see Maze, M.
- Woodard, H. Q., Bigler, R. E., Freed, B. R. and Russ, G. R. Expression of tissue isotope distribution, 958
- Woolfenden, J. M., Waxman, A. D., Wolfstein, R. S. and Siemsen, J. K. Imaging liver metastases of thyroid carcinoma, 669
- Woolfenden, J. M. see O'Mara, R. E.
- Wooten, R. and Reeve, J. ^{99m}Tc-polyphosphate and ¹⁸F kinetics, 688
- Wright, F. D. see Burman, K. D.
- Yamada, H. and Saito, H. Radioassay of total iron-binding capacity of serum, 583*
- Yamada, H.
see Matsui, K.
see Murata, H.
- Yamaguchi, K. see Uemura, K.
- Yamamoto, I.
see Hamamoto, K.
see Mori, T.
- Yano, Y.
see Budinger, T. F.
see Cho, Z. H.
- Yao, J. S. T. see Henkin, R. E.
- Yap, S. H., Hafkenscheid, J. C. M., Goossens, C. M. I. C., Buys, W. C. A. M., Binkhorst, R. A. and Van Tongeren, J. H. M. Radiation dose and effects from ¹⁴C-albumin synthesis studies, 642
- Yeates, M. G., Scarchilli, J., Vescio, P. D., Blair, R. J. and McAfee, J. G. Leukocyte labeling for abscess detection, 583*
- Yeh, E.-L., Pohlmann, G. P. and Meade, R. C. Liver-heart imaging in hepatic focal defect, 896
- Yeh, E.-L.
see Ruetz, P. P.
see Sebern, M. J.
- Yeh, S. D. J., Leeper, R. D., and Benua, R. S. Liver and spleen filling defects in cancer, 583*
- Yeung, W.-C., Larson, S. M. and Haines, J. E. Zero extrapolation in plasma volume determination, 1207
- Young, B. W. see Handmaker, H.
- Zabransky, B. J. see Friedman, A. M.
- Zakem, J. F. see Seabold, J. E.
- Zaklad, H., Derenzo, S. E. and Budinger, T. High resolution optimal collimators, 583*
- Zaklad, H. see Derenzo, S. E.
- Zaninovich, A. A. see Fernandez-Pol, J. A.
- Zanzi, I. see Aloia, J. F.
- Zaret, B. L. see Puri, S.
- Zimmer, A. M. and Holmes, R. A. ^{99m}Tc-diphosphonate kit evaluation, 584*
- Zimmer, A. M., Isitman, A. T. and Holmes, P. A. Enzymatic inhibition of diphosphonate uptake, 352
- Zimmer, A. M. see Silverstein, E. A.
- Zimmerman, A. N. E. see Jambroes, G.
- Zimmerman, A. S. see Wieseler, D. L.
- Zu'bi, S. M. see Brahmeyer, S. M.
- Zwas, S. T. and Czerniak, P. Head and brain scans in rhinocerebral mucormycosis, 925
- Zweiman, F. G., Holman, B. L., O'Keefe, A. and Idoine, J. Myocardial infarct uptake of ^{99m}Tc-complexes and ⁶⁷Ga, 975
- Zweiman, F. G. see Holman, B. L.

1975 SUBJECT INDEX

Asterisk indicates abstract

- Abdomen**
see also *specific organ*
liver image subtraction in ⁶⁷Ga-citrate scanning, 548*
trauma, liver-spleen imaging, in children, 525*
- Abscess**
abdominal, ⁶⁷Ga-citrate imaging, 990
brain, ⁶⁷Ga-citrate scanning, 580*
⁶⁷Ga-citrate scanning, 2
⁶⁷Ga-citrate uptake, effect of EDTA, in rats, 280
imaging, ⁶⁷Ga-, ¹¹¹In-leukocytes, in rabbits, 583*
liver, ⁶⁷Ga-citrate, colloid imaging, 250
subphrenic, ⁶⁷Ga-citrate imaging, 609
subphrenic, lung-spleen interface, 822
^{99m}Tc-microsphere-leukocyte uptake, in animals, 527*
^{99m}Tc-S-colloid-leukocyte uptake, in dogs, 527*
- Adrenal glands**
aminoglutethimide distribution, in rats, 566*
¹⁴C-ascorbic acid uptake, in dogs, 551*
¹⁴C-dopamine analogs, distribution, in rats, 1147
carcinoma, ¹³¹I-iodocholesterol imaging, distribution, 566*
³H-estradiol uptake, in dogs, 77
¹⁸F-pregnenolone acetate uptake, in rats, 526*
¹²⁵I-, ¹³¹I-iodomethylnorcholesterol, preparation, distribution, in animals, 542*, 565*, 666, 1038
¹³¹I-cholesterol analog preparation, 514*
¹³¹I-iodocholesterol therapy doses in hyperplasia, in dogs, 928
pheochromocytoma, ^{99m}Tc-DTPA kidney angiogram, 234
⁷⁵Se-selenocholesterol uptake, in animals, 565*
- Adverse reaction**
anaphylactoid, ^{99m}Tc-microspheres, 236
aseptic meningitis, cisternography agents, 809
⁵⁷Co-bleomycin, 1058
- Aerosol**
lung ventilation in obstructive airways disease, 574*
Tc, In-colloids, inhalation imaging in obstructive disease, 546*
- Albumin**
see also *Carbon-11; Iodine-125; Iodine-131, albumin; Technetium-99m, albumin; Technetium-99m, macroaggregated albumin*
synthesis studies, ¹⁴C, radiation dose, 642
- Alpha-fetoprotein**
immunodiffusion, primary liver cancer, 949
levels in cystic fibrosis, 968*
lung cancer metastatic to liver, 1094*
- American Board of Nuclear Medicine.** 691
- Americium-241**
anatomic landmark, 962
source, fluorescent scanner, 530*
source, photon absorptiometry, 891
- Amino acids**
¹¹C-, preparation, purification, 579*
¹⁵N-, myocardial uptake, species differences, 529*
⁷⁵Se-, for pancreas imaging, 933
^{99m}Tc-pyridoxyl-, preparation, hepatobiliary imaging, in animals, 520*
^{99m}Tc-pyridoxylidinediethylamine, gallbladder imaging, 728

- ^{99m}Tc-pyridoxylidene-glutamate, preparation, gallbladder studies, in animals, 720
 -^{99m}Tc-vesicles, survival, in mice, 483
Anger camera *see* *Camera, scintillation*
- Animals**
see also *Models*
 species differences, myocardial uptake, 529*
- Antibiotics**
see also *Technetium-99m, tetracycline*
 adriamycin, ¹⁹⁷Hg-, ⁶⁷Ga, tumor uptake in mice, 560*
 assays of gentamicin, 968*
³H-tetracycline, myocardial infarct uptake mechanism, 525*
¹²⁵I-streptozotocin analogs, tumor uptake, in hamsters, 535*
¹²⁵I-tetracycline for tumor, preparation, 519*; tumor uptake, in animals, 520*, 532*
^{99m}Tc-penicillamine, kidney uptake, in rats, 531*
^{99m}Tc-penicillamine, myocardial infarct uptake, in rats, 523*
- Antibodies** *see* *Immunology; Radioimmunoassay*
- Antigens** *see* *Immunology; Radioimmunoassay*
- Argon-37**
 whole-body Ca by neutron activation analysis, 672
- Arthritis**
^{99m}Tc-polyphosphate bone scan, 510*
- Artifact**
 anatomic, spleen image, 99, 100
 collimator hole pattern elimination, 517*
- Aseptic meningitis** *see* *Adverse reactions*
- Autoradiography**
 kidney agent distribution, in rabbits, 554*
 liver, ¹⁹⁸Au, ^{99m}Tc-S colloid, in rat, 532*
 mammalian cell, ^{99m}Tc-tetracycline, 315
¹⁵²Sm in mouse tumor, 528*
^{99m}Tc-microsphere-leukocytes, 527*
- Bacteria**
see also *Infection*
¹⁴C-substrate metabolism, continuous measurement, 517*
 M. lepraemurium metabolism, radiometric detection, 518*
 M. tuberculosis metabolism, radiometric detection, 518*, 1189
³⁵S-cyclamate metabolism, in rats, 970*
 streptococcus Group A, radiometric identification, 1085
- Basal ganglia**
 imaging, ⁶⁴Cu-complex, 787
- Bile** *see* *Gallbladder*
- Bismuth-204, citrate**
 radiation dosimetry, nuclear parameters, 515*
- Bismuth-206, citrate**
 radiation dosimetry, nuclear parameters, 515*
- Bleomycin**
see also *Cobalt-57; Indium-111, bleomycin; Iodine-123; Iodine-131; Platinum-195m; Technetium-99m*
⁶⁴Cu-, ³H-, ^{99m}Tc-, tumor uptake, in rats, 127
 properties of fractions, 526*
 radioiodinated, preparation, characterization, 835
- Blocking dose**
 glycopyrrolate, ^{99m}TcO₄⁻ brain imaging, 819
 meralluride, ¹⁹⁷Hg-, ²⁰³Hg-chlormerodrin, radiation dosimetry, 1095
- Blood**
see also *Leukocytes; Lymphocytes; Red blood cells; Technetium-99m, red blood cells*
 clot, *see* *Thrombus*
 leukemic cell binding of ⁶⁷Ga, 528*
 plasma volume, ¹²⁵I-HSA, 1207
 red cell and plasma volumes, normal, 46, 961, 962
 serum binding capacity, Fe, 583*
 SH group, effect of antirheumatoid drugs, 576*
- Blood flow** *see* *specific organ; Vascular system*
- Blood pool**
see also *specific organ*
- Sn(II) content effects, in animals, 541*
^{99m}Tc-iminodiacetic acid complexes, 546*
¹³⁵Xe-compounds, 545*
- Blood vessels** *see* *specific organ; Vascular system*
- Bone**
 blood flow, 520*; compartmental model, 519*
 blood supply, effect on uptake, in rats, 40
 Ca content, neutron activation analysis, 116, 196, 672
 ends, ^{99m}Tc-polyphosphate, -diphosphonate uptake, osteosarcoma, 423
 effect of ^{99m}Tc on ^{99m}Tc-diphosphonate distribution, in rats, 478
 grafts, ^{99m}Tc-diphosphonate imaging, in dogs, 563*
^{113m}In-polyfunctional phosphonates, preparation, distribution, in rabbits, 1080
 kinetics of ^{99m}Tc-pyrophosphate, -polyphosphate, 109, 958
 lymphoma, ⁶⁷Ga-citrate scanning, 255
 mineral content, photon absorption, 196, 891
 osteomyelitis, cranium, ⁶⁷Ga-citrate scan, 580*
 Paget's disease of skull, on brain image, ^{99m}TcO₄⁻, 619
²⁰³Pb-chloride imaging, distribution, in rats, 171
²⁰³Pb-compounds, distribution, in mice, 544*
 radiation dosimetry, 502*
 radiation therapy effect on ^{99m}Tc-polyphosphate uptake, 501*
 resorbing, ^{99m}Tc-polyphosphate uptake, in rats, 528*
 rickets, uptake kinetics, in rats, 40
^{99m}Tc-agents, current literature, 502*
^{99m}Tc-Cu-HEDSPA, preparation, distribution, in animals, 520*
^{99m}Tc-diphosphonate uptake mechanism, enzymatic, 352
^{99m}Tc-imidodiphosphate, preparation, distribution, in animals, 574*
^{99m}Tc-multidentate phosphates, distribution, in animals, 540*
^{99m}Tc-trimetaphosphate distribution, in animals, 1043
 therapy, ³²P-diphosphonate distribution, in rats, 532*
 tomography, camera, coded aperture, in rat, 402
 tumor, parathormone and ³²P therapy, 519*
 uptake mechanisms, in rats, 40
 uptake parameters, 520*
- Bone imaging**
 comparison of agents, 744, 803*
¹⁸F, avascular necrosis, 969*
¹⁸F, osteoid osteoma of the carpal scaphoid bone, 969*
 femoral metaphyseal irregularities, in children, 521*
 Fresnel zone-plate, ^{99m}Tc-polyphosphate, 183
 hip disorders, in children, 512*
 jaw lesions, ^{99m}Tc-polyphosphate, -diphosphonate, 511*
 kidney abnormalities, 1092*
 kidney failure, muscle uptake of agent, 515*
 kidney sign, ^{99m}Tc-polyphosphate, 602
 kidney studies on ^{99m}Tc-phosphate images, 1109
 kidney transplant effects, ^{99m}Tc-diphosphonate, 538*
 large-field-of-view scintillation camera, 1158
 parathyroid disease, ^{99m}Tc-pyrophosphate, hyper-, 33, 543*; pseudohyper-, 543*
 refocused images, 546*, 548*
 rhinocerebral mucormycosis, ^{99m}Tc-diphosphonate, 925
 sacro-iliac disease, ^{99m}Tc-pyrophosphate, 545*
⁸⁷Sr, metastases response to chemotherapy, 191
^{99m}Tc-diphosphonate kinetics, 886
^{99m}Tc-imidodiphosphate, 1137
^{99m}Tc-pyrophosphate kinetics, metabolic disease, 33
 tumors, current literature, 502*
 tumor, metastatic, ^{99m}Tc-diphosphonate, 986
- Bone scanning**
 cold lesions, ^{99m}Tc-polyphosphate, 1013
 compared to bone marrow scanning, in malignancy, 559*
 dermatomyositis, soft-tissue uptake, 467
 femoral head, avascular necrosis, degenerative joint disease differentiation, 574*
 hip displacement, ¹⁸F, ^{99m}Tc-diphosphonate, 522*

- in breast cancer, ^{99m}Tc -phosphorous compounds, 529*
532*
- in cup-arthroplasty, ^{99m}Tc -polyphosphate, 564*
- in lymphoma, ^{99m}Tc -phosphate compounds, 555*
- in melanoma and prostate cancer, ^{99m}Tc -diphosphonate, 579*
- in Paget's disease, ^{99m}Tc -diphosphonate, ^{18}F , 569*
interpretation, Gamut approach, 1121
- kidney activity, Paget's disease, ^{99m}Tc -diphosphonate, 582*
- kidney asymmetry, ^{18}F , ^{99m}Tc -pyrophosphate, 161
- kidney sign, ^{99m}Tc -polyphosphate, 454
- lung carcinoma staging, 538*
- muscle uptake of ^{99m}Tc -polyphosphate in polymyositis, 1125
- osteogenic sarcoma, 1211*
- osteoid osteoma, ^{18}F , 465
- osteomyelitis, cellulitis, bone infarct differentiation, in children, 547*
- principles, techniques, interpretations, 969*
- serous fluid content, ^{87m}Sr , ^{99m}Tc -polyphosphate, 1208
- solitary lesion, ^{99m}Tc -polyphosphate, -diphosphonate, 522*
- time of study, optimal, ^{99m}Tc -pyrophosphate, 879
- trauma, ^{99m}Tc -pyrophosphate, 538*
- tumor, metastatic, ^{99m}Tc -polyphosphate, -pyrophosphate, 1211*
- Bone marrow**
- biopsy, Hodgkin's disease, 852*
- function in mucopolysaccharidoses, 541*
- imaging, ^{111}In -citrate, 769
- imaging, vertebral compression fracture, ^{99m}Tc -S colloid, 92
- red, radiation dosimetry, ^{198}Au , MIRD, 173
- red, radiation dosimetry, ^{197}Hg -, ^{203}Hg -chlormerodrin, MIRD, 1095
- red, radiation dosimetry, radioiodides, MIRD, 857
- red, radiation dosimetry, ^{99m}Tc -S colloid, MIRD, 108A
- scanning, comparison of ^{111}In -chloride, ^{59}Fe and ^{99m}Tc -S colloid, 66
- scanning, effect of cellularity, ^{99m}Tc -S colloid, 535*
- scanning, nonhematologic disease, ^{99m}Tc -S colloid, 535*
- scanning, ^{99m}Tc -S colloid, compared to bone scanning in malignancy, 559*
- Book Reviews**
- Atlas of Cerebral Angiography*, 801
- Cardiovascular Nuclear Medicine*, 966
- Computer Processing of Dynamic Images from an Anger Scintillation Camera*, 498
- Liquid Scintillation Counting*, 1091
- New Techniques in Tumor Localization and Radioimmunoassay*, 498
- Nuclear Medicine*, 966
- Nuclear Medicine—Brief and to the Point*, 1091
- Nuclear Medicine in Vitro*, 801
- PDR for Radiology and Nuclear Medicine*, 499
- Tumors of the Nervous System*, 966
- Brain**
- blood flow, *see following listing Brain, blood flow*
- blood volume, ^{11}CO tomography, 521*
- blood volume, 3D reconstruction technique, 1092*
- Book Review, *Atlas of Cerebral Angiography*, 801
- ^{77}Br - and ^{68}Br -dimethoxyphenylisopropylamine, preparation, distribution, 243
- ^{11}C -aminonitriles, distribution, in dogs, 582*
- ^{11}C -ethanol distribution, in animals, 561*
- ^{11}C -psychoactive drug uptake, 521*
- cerebral death combined with kidney studies, ^{99m}Tc -DTPA, 538
- ^{18}F -fluoro-DOPA, distribution, in animals, 518*
- ^{18}F -fluoroethanol preparation, 561*; distribution, in animals, 561*
- ^{18}F -haloperidol, preparation, distribution, in rats, 525*
- ^{125}I -iodoantipyrine kit, 561* distribution, in animals, 561*
imaging, *see following listing, Brain imaging*
- intracranial lesions, screening, 851*
- lesion, computer diagnosis method, 805*
- lipophilic agents, distribution, in animals, 561*
- posterior fossa lesion imaging, 556*
- radiation dose, ^{109}Yb -DTPA cisternography, 101
- scanning, *see following listing, Brain scanning*
- subdural hematoma uptake, compartmental model, $^{99m}\text{TcO}_4^-$, 571*
- tomography, axial, 1210*
- tomography system, 543*
- tumor agents, comparison, in mice, 200
- tumor, ^{99m}Tc -Sn-citrate uptake, in mice, 534*
- Brain, blood flow**
- acute cerebral infarct, ^{133}Xe in saline, 853*; in baboons, 852*
- ^{11}C -aminonitriles, preparation, distribution, in dogs, 1049
- cerebral infarct, ^{133}Xe washout, in monkeys, 514*
- computer-camera system, ^{133}Xe , 264
- data processing system, ^{133}Xe , 386
- effect of anomalous venous return, 573*, 622
- effect of seizures, $^{99m}\text{TcO}_4^-$, 573*
- extracranial meningioma, $^{99m}\text{TcO}_4^-$, 833
- hemorrhage, intracerebral, $^{99m}\text{TcO}_4^-$, 459
- hemorrhage, subarachnoid, acute, ^{133}Xe , 577*
- in hemangioendotheliomatosis, $^{99m}\text{TcO}_4^-$, 915
- in neonates, 1210*
- in trauma, ^{133}Xe in saline, 803*
- posterior flow study, 548*
- quantitative regional circulation, $^{99m}\text{TcO}_4^-$, 525*
- regional, ^{133}Xe inhalation, 1093*
- scalp flow elimination, $^{99m}\text{TcO}_4^-$, 679
- ^{99m}Tc -RBC, 512*
- tumor and cerebrovascular disease, $^{99m}\text{TcO}_4^-$, 854*
- tumor, nonvascular cranial, 462
- vascular displacement, 86, 549*
- Brain imaging**
- basal ganglia, ^{64}Cu -complex, 787
- cerebral infarct, $^{99m}\text{TcO}_4^-$, 1210*
- comparison of ^{99m}Tc -citrate, -diphosphonate, $^{99m}\text{TcO}_4^-$, 526*
- compression effects, ^{11}CO , in monkeys, 557*
- computer image correction, $^{99m}\text{TcO}_4^-$, 523*
- delayed, $^{99m}\text{TcO}_4^-$, ^{99m}Tc -DTPA, 564*
- "doughnut" sign, $^{99m}\text{TcO}_4^-$, 432
- dynamic/static, neonates, 1210*
- EMI, 573*
- hematoma, bifrontal epidural, 908
- in hemangioendotheliomatosis, $^{99m}\text{TcO}_4^-$, 915
- in medulloblastoma, 520*
- in proven recanalized cerebral infarct, 852*
- in rhinocerebral mucormycosis, $^{99m}\text{TcO}_4^-$, 925
- large-field-of-view scintillation camera, 1158
- positron camera, $^{15}\text{NH}_3$, ^{67}Ga -chelates, $^{15}\text{O}_2$, 537*
- posterior fossa uptake, ^{99m}Tc -DTPA, in von Hippel-Lindau syndrome, 828
- rapid sequence, ^{99m}Tc , in children, 511*
- refocused images, 546*, 548*
- scatter fraction measurement, ^{99m}Tc , 535*
- ^{99m}Tc -DTPA, 536*; effect of steroid medication, 320
- ^{99m}Tc -glucoheptonate, 580*
- ^{99m}Tc -gluconate, in children, 552*
- $^{99m}\text{TcO}_4^-$, effect of previously administered Sn(II), 518, 579*, 690
- $^{99m}\text{TcO}_4^-$, glycopyrrolate blocking dose, 819
- $^{99m}\text{TcO}_4^-$, ^{99m}Tc -diphosphonate, comparison, 705
- ^{99m}Tc -RBC, 512*
- tumor, ^{57}Co -bleomycin, 1058
- tumor, CVD differentiation, $^{99m}\text{TcO}_4^-$, -pyrophosphate, 549*
- Brain scanning**
- blood activity levels, $^{99m}\text{TcO}_4^-$, ^{99m}Tc -RBC, 553*, 676
- cerebral vascular disease, 852*
- encephalitis, current literature, 502*
- extracranial meningioma, $^{99m}\text{TcO}_4^-$, 833

- Hodgkin's disease, ^{87}Sr , $^{99\text{m}}\text{Tc}$ -polyphosphate, 852*
infection, ^{67}Ga -citrate, 580*
interpretation, Gamut approach, 1121
lung carcinoma staging, 538*
metastatic adenocarcinoma, $^{99\text{m}}\text{TcO}_4^-$, 960, 961
 ^{76}Se -selenite, 331
sinusitis, $^{99\text{m}}\text{TcO}_4^-$ concentration, 89
 $^{99\text{m}}\text{TcO}_4^-$, effect of previously administered $^{99\text{m}}\text{Tc}$ -Sn bone agents, 518, 579*, 690
tumor, blood activity contribution, $^{99\text{m}}\text{TcO}_4^-$, 553*
tumor, chemotherapy response, 1210*
- Breast**
cancer, bone scanning, $^{99\text{m}}\text{Tc}$ -phosphorous compounds, 529*, 532*, 1158
cancer, ^{67}Ga -citrate scanning, 560*
carcinoma, ^{67}Ga -citrate whole-body scanning, 996
carcinoma, ^{111}In -bleomycin scanning, 578*
carcinoma, liver scanning, 545*, 802*
carcinoma, metastatic, CEA radioimmunoassay, 579*
imaging, $^{99\text{m}}\text{TcO}_4^-$, ^{67}Ga -citrate, 293
lesion uptake of $^{99\text{m}}\text{Tc}$ -diphosphonate, -polyphosphate, 536*
lymph node drainage, $^{99\text{m}}\text{Tc}$ -Sb colloid, 526*
mass, differential diagnosis, $^{99\text{m}}\text{Tc}$ -polyphosphate imaging, 581*; ^{111}In -bleomycin scanning, 578*
- Bromine-77**
-dimethoxyphenylisopropylamine for brain, preparation, distribution, 243
-fibrinogen, preparation, comparison to other labels, 542*
- Bromine-82**
bromide space, fluorescent excitation analysis, 814
-dimethoxyphenylisopropylamine for brain- preparation, distribution, 243
- Cadmium-109**
source, fluorescent excitation analysis, 814
- Calcium**
partial-body, neutron activation analysis, 116
whole-body, ^{71}Ar excretion following neutron activation, 672
whole-body, in osteoporosis, neutron activation analysis, 196
- Calcium-45**
bone uptake mechanisms, in rats, 40
myocardial infarct uptake mechanism, 525*
radiation dosimetry, 502*
- Camera, image intensifier**
operating characteristics, 541*
- Camera, multiwire liquid xenon**
high-resolution collimator, 583*
- Camera, positron**
brain imaging, $^{15}\text{NH}_3$, ^{18}O , ^{68}Ga -chelates, 537*
extended counting rate, 653
multiwire proportional chamber, 546*, 804*
 ^{86}Rb , $^{15}\text{NH}_3$ heart imaging, in dogs, 429
transverse section 3D image reconstruction, 80
- Camera, scintillation**
anatomic landmark, 962
bar phantom, 441, 531*
chromatographic imaging, 553*
coded aperture tomography, 402
collimator changing system, 1195
collimator hole pattern elimination, 517*
color code images, 527*
-computer system, *see Computer*
data processing, annular coded apertures, 514*
data processing, spatial filtering, 516*
deadtime, 284; correction, 539*, 546*
deconvolution analysis, renogram, 1212*
 ^{186}Er myocardial infarct imaging, in dogs, 554*
field flood uniformity, 513*, 534*, 536*
field of view, large, 518*, 552*, 1152, 1158
Fresnel zone plate image reconstruction, 309
image processing, Fourier transforms, 566*
image superposition, 559*
modules for data unification, 553*
MTF determination, 1200
performance characteristics, 1206
portable, 515*
positron imaging, 653
quality control, 564*
refocused images, 546*, 548*
resolution indices, $^{99\text{m}}\text{Tc}$, 228
sequential image smoothing, 558*
software, multi-isotope studies, 571*
specific image boundary determination, 576*
 $^{99\text{m}}\text{Tc}$ scatter fraction measurement, 535*
voltage fluctuation effects, 581*
whole-body imaging, 582*
- Camera, semiconductor**
small tumor detection, 53
- Carbon-11**
-acetyl phosphate, preparation, distribution, in animals, 572*
-albumin, preparation, 425
-aliphatic amines, lung uptake, in animals, 511*
-amino acids, preparation, purification, 579*
-aminonitriles, preparation, distribution, in dogs, 582*, 1049
 ^{11}CO , brain blood volume, tomography, 521*
 ^{11}CO , compression effects on brain image, in monkeys, 557*
 ^{11}CO , myocardial blood pool tomography, 521*
 ^{11}CO , transaxial tomography, 210
-diphenylhydantoin, -hydroxydiphenylhydantoin, tumor scanning, 575*
-ethanol, distribution, in animals, 561*
-ethanol, liver imaging, in cats, 73
-fibrinogen, preparation, 425
LSF, 649
-norepinephrine for myocardial imaging, 151
positron range, 1174
-psychoactive drugs, preparation, distribution, 521*
-putrescine for prostate, distribution, in rats, 337
- Carbon-14**
-acetate, -glycerol, M. lepraemurium metabolism, 518*
-ascorbic acid, adrenal and pituitary uptake, in dogs, 551*
-bile salts, kinetics, colonic injection, 805*
-carbohydrates, radiometric assay of lymphocyte metabolism, 576*
chromatogram imaging, modular system, 553*
 $^{14}\text{CO}_2$ breath analysis, metabolism in vitamin B₁₂ deficiency, in rats, 553*
-dextran, CSF drainage, in rabbits, 539*
-diphenylhydantoin for pancreas, distribution, 775
-diphosphonate, bone uptake mechanisms, in rats, 40
-DOPA, blood metabolism, drug effects, radiometric assay, 576*
-dopamine analogs for adrenals, distribution, in rats, 1147
-fluorouracil, distribution, tumor uptake, in mice, 582*
-formaldehyde, -propionate metabolism, in vitamin B₁₂ deficiency, in rats, 553*
-formate, M. tuberculosis metabolism, 518*
-glycerol, -acetate, M. tuberculosis metabolism, 1189
-inulin, GFR, in dogs, 510*
-oleic acid, myocardial uptake, in animals, 842
radiation dose, albumin synthesis studies, 642
radiation dosimetry, current literature, 502*
radiometric sterility assay, 798
-substrate metabolism, continuous measurement system, 517*
-sugars, radiometric identification of streptococcus Group A, 1085
- Carcinoembryonic antigen**
comparison of radioimmunoassays, 1094*
diagnosis of colon malignancy, 550*
radioimmunoassay, breast carcinoma metastases, 579*
radioimmunoassay, ulcerative proctocolitis, 1094*

- Cardiac** *see Heart*
- Cardiopulmonary** *see Heart, blood flow; Lungs, blood flow*
- Carrier**
^{99m}Tc in ^{99m}Tc-gluconate and -diphosphate distribution, in rats, 478
^{99m}Tc in ^{99m}TcO₄⁻, 570*, 639
- Cartilage**
^{99m}Tc-diphosphonate uptake, in rats, 58
- CEA** *see Carcinoembryonic antigen*
- Central nervous system** *see Brain; Cisternography*
- Cerebral** *see Brain*
- Cerebrospinal fluid**
see also Cisternography
 drainage, pathway size, in rabbits, 539*
 formation rate, ¹²⁵I-HSA, blue dextran, in monkeys, 1093*
^{99m}Tc-HSA ventriculography, hydromelia, 581*
- Cerenkov effect**
³²P eye tumor imaging, 516*
- Cerium-141**
 scatter subtraction and image contrast, 102
- Cerium-144**
 -particles, lung clearance, in dogs, 851*
- Cesium-129**
 characteristics for myocardial imaging, 151
 radiation dosimetry, 527*, 1070
- Cesium-131**
 characteristics for myocardial imaging, 151
 -chloride, thyroid scanning, 522*
 myocardial scan, left ventricular aneurysm, 1024
- Cesium-134m**
 characteristics for myocardial imaging, 151
- Cesium-137**
 specific absorbed fraction computation, 492
- Cesium-149**
 myocardial imaging, in dogs, 553*
- Chelates**
see also Cobalt-57; Indium-111; Indium-113m; Technetium-99m, DTPA; Ytterbium-169
 DTPA agents for cisternography, radiation dosimetry, 1177
 EDTA effect on ⁶⁷Ga-citrate distribution, in rats, 280
- Chemotherapy**
 antirheumatoid, effect on SH blood group, 576*
 central nervous system, monitoring, 522*
 cyclical, breast to bone metastases, ⁸⁷Sr monitoring, 191
 dexamethasone, brain tumor scanning, 1210*
 MOPP, Hodgkin's disease, spleen scan, 457
 steroid, effect on brain image of metastases, 320
- Chlormerodrin**
see also Mercury-197; Mercury-203
 myocardial infarct uptake, in rats, 523*
- Cholesterol** *see Iodine-131; Selenium-75*
- Chromatography**
¹⁴C, ³²P imaging, modular system, 553*
⁶⁷Co-bleomycin fractions, 1033
⁶⁷Ga-citrate preparations, 580*
 gel scanning, ^{99m}Tc-diphosphonate, 1087, 1088
¹³¹I-cholesterol purification, 69
 liquid, bleomycin fraction separation, 526*
 paper, strip counter, 225
^{99m}Tc-diphosphonate, 584*
- Chromium-51**
 -DTPA, radiation dosimetry, cisternography, 1177
 -RBC, preparation, survival, in gerbils, 682
 red cell volume, normal, 46, 961, 962
 -thymocytes, distribution, in mice, 633
- Cisternography**
 agents, Limulus test, 809
 DTPA agents, radiation dosimetry, 1177
 evaluation of chemotherapy, 522*
 faulty injection effects, 267
¹²⁵I-HSA current literature, 502*
 in achondroplastic children, 969*
¹¹¹In-DTPA, residual ^{99m}Tc artifact, 434
 in hydrocephalus, 500*
¹¹¹In-phosphate, in dogs, 164
 spinal fluid leak, ^{99m}Tc-DTPA, 616
 unilateral ventricular reflux, ¹³¹I-HSA, 716
¹⁶⁹Yb-DTPA, radiation dose to brain, 101
¹⁶⁹Yb-DTPA retention, 570*
- Clinical evaluation**
 bone imaging in sacro-iliac disease, ^{99m}Tc-pyrophosphate, 55 cases, 545*
 bone imaging, metastases, ^{99m}Tc-diphosphonate, 1355 cases, 986
 bone marrow scanning, ^{99m}Tc-S colloid, 196 cases, 535*; 101 cases, 535*; 60 cases, 559*
 bone scanning in breast cancer, 115 cases, 529*; 86 cases, 532*
 bone scanning in malignancy, 60 cases, 559*; 124 cases, 579*
 bone scanning in trauma, ^{99m}Tc-pyrophosphate, 182 cases, 538*
 bone scanning in metastases, ^{99m}Tc-polyphosphate, -pyrophosphate, 60 cases, 1211*
 bone scanning, solitary lesion, ^{99m}Tc-diphosphonate, -polyphosphate, 142 cases, 522*
 brain blood flow in tumor and cerebrovascular disease, ^{99m}TcO₄⁻, 89 cases, 854*
 brain imaging, rapid sequence, 500 children, 511*
 brain imaging, ^{99m}Tc-DTPA, 904 cases, 536*
 brain scanning, cerebral infarct, ^{99m}TcO₄⁻, 84 cases, 1210*
 brain screening for intracranial lesions, 147 cases, 851*
 brain studies in cerebral vascular disease, 162 cases, 852*
 breast uptake of ^{99m}Tc-diphosphonate, -pyrophosphate, 271 cases, 536*
 CEA radioimmunoassay, metastatic breast carcinoma, 75 cases, 579*
 CEA radioimmunoassay, ulcerative proctocolitis, 59 cases, 1094*
 cisternography, extra-arachnoid injection effects, 54 cases, 267
⁵⁷Co-bleomycin imaging, 132 cases, 1058
⁵⁷Co-bleomycin tumor scanning, 50 cases, 839; 50 cases, 558*
 effective thyroxine ratio ranges, in pediatrics, 89 cases, 955
⁶⁷Ga-citrate imaging, 2000 cases, 547*
⁶⁷Ga-citrate imaging, infection, 60 cases, 990
⁶⁷Ga-citrate scanning for infection, 68 cases, 2
⁶⁷Ga citrate scanning in breast cancer, 84 cases, 560*; 125 cases, 996
⁶⁷Ga-citrate staging of lymphoma, 111 cases, 255
⁶⁷Ga-citrate, thyroid imaging, cold nodules, 134 cases, 793
⁶⁷Ga citrate tumor scanning, 50 cases, 558*
 gastrin radioimmunoassay, 298 cases, 805*
 gastrointestinal tract imaging, ^{99m}TcO₄⁻, 100 cases, 515*
 hip imaging, in children, 176 cases, 512*
¹²⁵I-fibrinogen from single donor, 129 cases, 562*
¹¹¹In-bleomycin scanning, malignant melanoma, 51 cases, 537*
¹¹¹In-bleomycin tumor imaging, 65 cases, 854*
 iron, total serum binding capacity, 550 radioassays, 583*
 kidney images on bone scans, 247 cases, 1092*; 119 cases, 1109
 kidney imaging, ^{99m}Tc-DMSA, 65 cases, 28
 kidney transplant evaluation, ^{99m}Tc-DTPA, ¹³¹I-Hippuran, 86 cases, 1115
 kidney transplant evaluation, ^{99m}Tc-S colloid, ^{99m}TcO₄⁻, 54 cases, 529*
 large-field-of-view scintillation camera, 636 studies, 518*
 left ventricular ejection fraction, ^{99m}Tc and echocardiography, 77 cases, 565*
 liver and spleen focal defects, multiradionuclide studies, 125 cases, 583*
 liver blood flow, ^{99m}Tc-S colloid, 100 cases, 71; 92 cases, 595

- liver imaging in abdominal tumor, ^{99m}Tc -S colloid, 70 cases, 853*
- liver imaging, ^{99m}Tc -S colloid, 1115 cases, 62, 1204; 125 cases, 450
- liver scanning in breast cancer, 86 cases, 545*; 100 cases, 802*
- liver scanning, negative focal uptake ^{99m}Tc -S colloid, porta hepatis region, 80 cases, 1007
- lung imaging, cost-effectiveness, 97 cases, 550*
- lung ventilation in obstructive airways disease, 60 cases, 574*
- lung ventilation/perfusion, Xe, wide-field-of-view scintillation camera, 140 cases, 552*
- lung washout, ^{133}Xe in saline, 154 burn patients, 547*
- myocardial imaging, ^{99m}Tc -pyrophosphate, 242 cases, 556*
- myocardial infarct tomography, 92 cases, 581*
- pancreas scanning, 526 cases, 568*
- pancreas scanning and ultrasound, 600 cases, 563*
- portable scintillation camera, 2000 cases, 515*
- posterior fossa lesion imaging, 49 cases, 556*
- red cell and plasma volume, normal, 784 cases, 46, 961, 962
- serum TSH response to TRH, in thyroid disease, 101 cases, 538*
- spleen scanning in Hodgkin's disease, 68 cases, 1212*
- ^{99m}Tc -bleomycin, ^{67}Ga -citrate tumor imaging, 142 cases, 414
- telephone image transmission, 50 cases, 549*
- thyroid, autonomously functioning lesions, 164 cases, 1092*
- thyroid imaging, ^{123}I and $^{99m}\text{TcO}_4^-$, 65 cases, 512*
- thyroid imaging, nodules, $^{99m}\text{TcO}_4^-$, 87 cases, 563*
- thyroid, nonfunctioning nodule, ^{131}Cs scans and echography, 110 cases, 522*
- thyroid therapy, low-dose ^{131}I , 62 cases, 549*
- thyroid uptake, ^{123}I , 400 cases, 562*
- thyroid uptake, ^{123}I , normal range, 275 cases, 560*
- tomography, computerized axial, 750 cases, 1210*
- vascular perfusion, peripheral ischemic ulcer, ^{99m}Tc -microspheres, 60 cases, 993
- venography combined with lung scanning, ^{131}I -MAA, ^{99m}Tc -microspheres, 108 cases, 579*
- vesicoureteral reflux, ^{131}I -Hippuran imaging, 136 cases, 968*
- vesicoureteral reflux, radionuclide cystography, 90 children, 522*
- x-ray therapy, long-range effects, thyroid imaging, $^{99m}\text{TcO}_4^-$, 1500 cases, 512*
- Cobalt-57**
- EDTA, -HSA, competitive binding with bleomycin, in vitro, 1033
 - refocused scintillation camera images, 546*
- Cobalt-57, bleomycin**
- fractions, characterization, distribution, tumor uptake, in rats, 1033
 - melanoma uptake, in animals, 556*
 - pancreas tumor imaging, 533*
 - preparation, distribution, tumor imaging, 1058
 - properties of fractions, 526*
 - radiation dosimetry, 550*
 - tumor imaging, compared to ^{99m}Tc -gluconate, 552*
 - tumor scanning, 839; compared to ^{67}Ga -citrate, 558*
- Cobalt-60**
- specific absorbed fraction computation, 492
- Collimator**
- see also Fresnel zone plate*
 - changing system, 1195
 - converging, large-field-of-view scintillation camera, 518*, 552*, 1152
 - diverging, low-energy, 970*
 - diverging, scintillation camera, Xe lung studies, 552*
 - diverging, scintillation camera, Xe phantom resolution, 143
 - high-resolution, left ventricular blood flow, ^{99m}Tc , 865
 - hole pattern elimination, 517*
 - multiwire liquid xenon camera, 583*
 - optimum, ^{201}Tl , ^{99m}Tc , ^{123}I , ^{42}K for myocardial imaging, 531*
 - pinhole, hip imaging, in children, 512*
 - pinhole, ^{123}I thyroid imaging, 512*
 - pinhole, $^{99m}\text{TcO}_4^-$ thyroid imaging, 512*
 - positron imaging, 524*
 - resolution indices, ^{99m}Tc , 228
 - scanner, ^{42}K and ^{81}Rb heart studies, 562*
 - septal penetration, computer correction, 523*
 - spatial resolution, positron range effect, 649
 - ^{201}Tl , 513*
 - whole-body scintillation camera imaging, 582*
- Colloid** *see specific radionuclide*
- Communications**
- computer-telephone transmission, 523*, 542*, 549*
- Compton** *see Scatter*
- Computer**
- see also; Data processing*
 - analog, image processing, omnidirectional scanner, 685
 - axial tomography, 1093*, 1210*
 - brain lesion characterization method, 805*
 - camera, book review, 498
 - camera, cardiac shunt evaluation, in children, 511*
 - camera, coded aperture tomography, 402
 - camera, dual-channel $^{99m}\text{TcO}_4^-$ angiocardigram, 789
 - camera, early thyroid kinetics of I and $^{99m}\text{TcO}_4^-$, 517*
 - camera, ECG gated left-ventricular ejection fraction, 527*, 531*, 865
 - camera, ECG gated left-ventricular volume change, 531*
 - camera, ECG gated myocardial studies, 95, 368, 510*
 - camera image correction, 523*, 558*
 - camera image processing, book review, 498
 - camera, intrarenal blood flow, ^{133}Xe , 899
 - camera, liver size estimation, in rats, 380
 - camera, multi-isotope studies, 571*
 - camera, regional cerebral blood flow, ^{133}Xe , 264
 - camera, ventilation/perfusion in tetralogy of Fallot, 510*
 - code for collimator design, 524*
 - deconvolution analysis of scintillation camera renogram, 1212*
 - digital techniques for Fresnel zone plate imaging, 556*
 - digitized display improvement, 541*
 - Fourier convolution fan-geometry reconstruction algorithm, 556*
 - Fourier transform image processing, 566*
 - Fresnel zone plate image reconstruction, 309
 - image superposition, 559*
 - interhospital image transmission, 523*, 542*, 549*
 - isocount scanning and multilevel analysis, 938
 - lung ventilation/perfusion, ^{133}Xe , ^{99m}Tc crossover subtraction, 553*
 - on-line processing system, 386
 - program for thyroxine-binding globulin capacity, 1076
 - pulse mode display for color images, 527*
 - radioreceptor assay data, 559*
 - record system, 275, 575*
 - refocused scintillation images, 546*, 548*
 - regional cerebral blood flow, ^{133}Xe gas, 1093*
 - scintillation camera flood field uniformity, 534*
 - specific image boundary determination, 576*
 - system for dynamic eye studies, 523*
 - technique for cardiac blood flow, 500*
 - whole-body scanner, 570*
- Concentration, tissue**
- data presentation, 247, 958
- Contrast media**
- effect on ^{67}Ga -citrate distribution, 374
 - effect on regional myocardial blood flow, 536*
 - ^{123}I thyroid uptake depression, 802*

SUBJECT INDEX

- Copper-64**
 -bleomycin, tumor uptake, compared to ^3H - and $^{60\text{m}}\text{Tc}$ -bleomycin, in rats, 127
 -complex, basal ganglia imaging, 787
 detection efficiency, single and annihilation photon systems, 210
 LSF, 649
- Cost**
 relative weights, 348
 -effectiveness, lung imaging, 550*
- Cows see Generators**
- Creatinine phosphokinase**
 levels in myocardial infarct, 521*, 559*, 569*
- Crystal**
 NaI(Tl), ^{125}I radioassay, 952
 NaI(Tl), scatter subtraction effects, 102
- CSF see Cerebrospinal fluid; Cisternography**
- Cyclotron**
 ^{125}Xe production, 143
- Cystic fibrosis**
 alpha-fetoprotein levels, 968*
- Data processing**
see also Computer
 analog, omnidirectional scanning, 685
 annular coded apertures, 514*
 coherent optical spatial filtering, 516*
 deconvolution analysis, scintillation camera renogram, 1212*
 isocount scanning and multilevel analysis, 938
 on-line, 386
 pulmonary arteriovenous malformation study, $^{99\text{m}}\text{TcO}_4^-$, 180
 specific image boundary determination, 576*
 tomography, unfocused plane subtraction, 517*
 transaxial reconstruction by iterative techniques, 555*
 3D image reconstruction, 80, 529*
- Data storage and retrieval see Computer; Record Keeping**
- Deadtime**
 image intensifier camera, 541*
 ring detector transaxial tomography, 1166
 scintillation camera, 284, 539*, 546*
- Detector**
see also Collimator; Fresnel zone plate
 crystal uniformity, computer correction, 523*
 multiwire proportional chamber positron camera, 546*, 804*
 NaI(Tl), scatter subtraction effects, 102
 ring, transaxial reconstruction tomography, 1166
 semiconductor, small tumor imaging, 53
 unidirectional whole-body scanner, 516*
- Dextran**
 blue, CSF formation rate, in monkeys, 1093*
 Fe-, effect on $^{99\text{m}}\text{Tc}$ -diphosphonate uptake, 577*
 ^3H -, CSF drainage, in rabbits, 539*
- Diaphragm**
 foramen of Morgagni hernia, $^{99\text{m}}\text{Tc}$ -S colloid liver scan, 261
- Digoxin**
 radioimmunoassay, 559*
 radioimmunoassay, postmortem, 1212*
- Diphosphonate see Carbon-14; Phosphorous-32; Technetium-99m, diphosphonate**
- Display**
 color code, computer generated, 527*
 digitized, improvement, 541*
 scan, 4 x 5-in. film, 560*
 telephone image transmission, 523*, 542*, 549*
- DOPA**
 ^{14}C -, blood metabolism, radiometric assay, drug effects, 576*
 ^{18}F -fluoro-, for brain scanning, 518*
- Dopamine**
 -analogs, ^{14}C -, ^{35}S -, ^{125}I -, for adrenal gland, distribution, in rats, 1147
- Dose calibrator**
 ^{125}I assay, 540*
- Dosimetry see Radiation dosimetry**
- Drugs**
see also Chemotherapy
 ^{11}C -psychoactive, preparation, distribution, 521*
- DTPA see Chromium-51; Gallium-67; Indium-111; Indium-113m; Indium-114m; Lead-203; Technetium-99m, DTPA; Ytterbium-169**
- Dyes**
 blue dextran, CSF formation rate, monkeys, 1093*
 trypan blue, india ink, phagocytic action of kidney, in animals, 709
- Echography see Ultrasound**
- EDTA see Cobalt-57; Technetium-99m**
- Electrolysis**
 $^{99\text{m}}\text{Tc}$ -albumin, -fibrinogen, preparation, 534*
 $^{99\text{m}}\text{Tc}$ -autologous fibrinogen preparation, 343
 $^{99\text{m}}\text{Tc}$ -RBC preparation, 533*
- EMI**
 brain scanning, 573*
- Energy**
 photopeak and backscatter dual windows, $^{99\text{m}}\text{Tc}$ imaging, 513*
 positron ranges, ^{11}C , ^{13}N , ^{15}O , ^{18}F , ^{68}Ga , ^{82}Rb , 1174
 resolution, ring detector transaxial tomograph, 1166
- Enzyme**
 assay, continuous $^{14}\text{CO}_2$ measurement, 517*
 assay of gentamicin, 968*
 CPK levels in myocardial infarct, 521*, 559*, 569*
 diphosphonate inhibition, 352
 folate reductase, ^{125}I -folate displacement by methotrexate, in dogs, 572*
 inhibitor for adrenal gland imaging, 566*
 lactoperoxidase, radioiodination of bleomycin, 835
 mucopolysaccharidases, RES function, 542*, 1002
 pancreatic, drug response in diabetes mellitus, 270
 synthesis of ^{11}C -acetyl phosphate, 572*
- Erbium-165**
 myocardial infarct imaging, in dogs, 554*
- Extremities**
see also Joints
 perfusion, ischemic ulcers, $^{99\text{m}}\text{Tc}$ -microspheres, 993
 perfusion, occlusive disease, ^{133}Xe , 1211*
 thermography in thrombosis, 438, 566*
 thrombophlebitis, cyst differentiation, $^{99\text{m}}\text{Tc}$ -HSA, 580*
 thrombosis, $^{99\text{m}}\text{Tc}$ -streptokinase imaging, 474
 venography, ^{125}I -MAA, $^{99\text{m}}\text{Tc}$ -microspheres, 579*
 venography, $^{99\text{m}}\text{Tc}$ -MAA, in dogs, 563*
- Eye**
 dynamic studies, computer system, 523*
 lacrimal drainage, contrast and $^{99\text{m}}\text{TcO}_4^-$, 605
 melanoma, ^{203}Pb -Tris, ^{57}Co -bleomycin uptake, in hamsters, 556*
 microvasculature function, ^{125}I -HSA, ^{133}Xe , 517*
 tumor, ^{125}I -chloroquine, probe system, 562*
 tumor imaging, ^{32}P Cerenkov effect, 516*
- Fatty acids**
 ^{14}C - and ^{181}I -oleic, ^{181}I -linoleic, myocardial uptake, in animals, 842
 esters, ^{203}Hg -, preparation, distribution, in animals, 572*
 ^{125}I - and ^{123}I -, characteristics for myocardial imaging, 151
 ^{125}I - and ^{123}I -, preparation, 17
- Fetus**
 cell binding, ^{67}Ga -citrate, hamster, in vitro, 231
 congenital nephrosis, alpha-fetoprotein radioimmunoassay, 805*
 effects of $^{99\text{m}}\text{Tc}$ radiation, in mice, 544*
 placental blood flow, ^{133}Xe , 968*
 placental transfer, ^{67}Ga -citrate, in animals, 581*
- Fibrin**
 radioiodo-, thrombus uptake, in dogs, 521*

Fibrinogen

see also *Iodine-123; Iodine-125, fibrinogen; Iodine-131, fibrinogen; Technetium-99m*
 autologous, radioiodinated, kit, 554*
¹¹C-, preparation, 425
 highly iodinated, preparation, characterization, 756
¹²⁵I-, ¹³¹I-, ⁷⁷Br-, preparation, distribution, in animals, 542*
 radioiodo-, effect of iodination levels, 534*

Film

4 × 5 in., scans, 560*

Filter

see also, Fresnel zone plate
 spatial, data processing, 516*

Fluorescein

radioiodinated mercurihydroxy-, myocardial infarct uptake, in rats, 523*

Fluorescence

scanning, thyroid, 530*, 557*
 x-ray, iothalamate, for GFR, in dogs, 510*

Fluorescent excitation analysis

bromide space, 814

Fluorine-18

bone imaging, 969*
 bone scanning, 465, 522*, 559*, 569*, 574*
 bone uptake, compartmental model, 519*
 bone uptake parameters, 520*
 -fluoro-DOPA for brain scanning, 518*
 -fluoroethanol, preparation, 561*; distribution, in animals, 561*
 -haloperidol, preparation, distribution, in rats, 525*
 kinetics, compared to ^{99m}Tc-polyphosphate, 688, 689
 myocardial infarct tomography, 581*
 myocardial infarct uptake, in dogs, 132
 positron range, 1174
 -pregnenolone acetate, adrenal uptake, in rats, 526*
 radiation dosimetry, 502*
 renal asymmetry, whole-body bone scan, 161

Fluorouracil

¹⁴C-, distribution, tumor uptake, in mice, 582*

Fourier

convolution fan-geometry reconstruction algorithm, 556*
 tomography, internal absorption corrections, 540*
 transforms, image processing, 566*
 transforms, tomography, unfocused plane subtraction, 517*
 3D convolution reconstruction, noise, 529*

Fresnel zone plate

clinical studies, 183
 digital image reconstruction, 309
 digital techniques, 556*

FWHM

collimator for multiwire liquid xenon camera, 583*
 image intensifier and scintillation camera, ^{99m}Tc, 541*
 multiwire proportional chamber positron camera, 546*
 positron collimator, 524*
 positron range effect, 649
 ring detector, transaxial tomography, 1166
 scintillation camera, 1206
 transaxial positron tomography, 210

Gallbladder

bile leakage on ¹⁹⁹Au liver scan, 825
¹¹C-aminonitriles, distribution, in dogs, 582*
¹⁴C-bile salts, kinetics, colonic injection, 805*
 comparison of agents, in baboons, 577*
 ectopic, ¹³¹I-rose bengal, ^{99m}Tc-S colloid imaging, 1029
⁶⁷Ga-citrate scanning in cholecystitis, 148
¹²⁵I-rose bengal imaging, in rabbits, 540*
¹²⁵I-rose bengal, jaundice evaluation, 567*
¹²⁵I-rose bengal, preparation, imaging, 629
¹²⁵I-folate in bile, 572*
 pancreas and liver scanning in obstructive jaundice, 853*
 radiation dosimetry, ¹²⁵I-, ¹²⁴I-, ¹²⁶I-, ¹³⁰I-, ¹³¹I-rose bengal, MIRD, 1214

^{99m}Tc-iminodiacetic acid analog, distribution, in animals, 533*

^{99m}Tc-mercaptoisobutyric acid, ¹³¹I-rose bengal comparison, 686, 687

^{99m}Tc-pyridoxylidene-glutamate imaging, 543*, 728

^{99m}Tc-pyridoxylidene-glutamate, preparation, distribution, imaging, in animals, 720

Gallium-67

-adriamycin, tumor uptake, in mice, 560*
 -chloride, -Fe-DTPA, -lactate, brain tumor uptake, radiation dosimetry, in mice, 200
 -DTPA, radiation dosimetry, cisternography, 1177
 leukemic cell binding, serum inhibition, 528*
 -leukocytes, abscess detection, in rabbits, 583*
 -lymphocyte, labeling, 564*

Gallium-67, citrate

abscess imaging, 250, 443, 609, 990
 benign process uptake, 414, 470
 bone tumor imaging, 503*
 brain tumor uptake, radiation dosimetry, in mice, 200
 breast carcinoma, whole-body scanning, 996
 breast imaging, 293
 bronchogenic carcinoma staging, 538*
 contrast media effect on whole-body scan, 374
 decreased uptake in pseudoarthrosis, 167
 distribution, Na₂EDTA therapy effects, in rats, 280
 gallbladder scanning in cholecystitis, 148
 hamster embryo cell binding, in vitro, 231
 infection scanning, 2
 infection uptake, 443, 580*
 leukocyte culture uptake, Fe effects, 1183
 liver and spleen scanning, focal defects, 583*
 lymphoma staging, 255
 multi-isotope lung studies, ^{99m}Tc-microspheres, ¹⁹⁷Hg, 571*
 myocardial infarct uptake, in dogs, 975
 pancreatic pseudocyst scan, 1132
 placental transfer, in animals, 581*
 preparations, comparison of solutions, 580*
 pulmonary infarct/pneumonitis differentiation, 551*
 rectilinear scanner modification, 1192
 salivary gland uptake, postradiation therapy, 514*
 scan in plague, 1031
 spleen image in kala-azar, 1128
 thyroid imaging, cold nodules, 793
 tumor detection, ^{99m}Tc-compound subtraction technique, 523*
 tumor imaging, 1212*
 tumor imaging, compared to ^{99m}Tc-bleomycin and ^{99m}Tc-phosphate compounds, 551*; compared to ^{99m}Tc-glucuronate, 552*
 tumor imaging, primary liver cancer, 949
 tumor imaging, with ^{99m}Tc-bleomycin, 414
 tumor scanning, compared to ⁶⁷Co-bleomycin, 558*
 tumor scanning, hilar tumors, 576*
 tumor scanning in breast cancer, 560*
 tumor scanning, in children, 533*
 tumor scanning, liver image subtraction, 548*
 tumor uptake, compared to ⁶⁷Ga-, ¹⁹⁷Hg-adriamycin, in mice, 560*
 tumor uptake, compared to labeled bleomycins, 525*
 tumor uptake, viability, in rats, 532*
 whole-body imaging, usefulness, 547*

Gallium-68

-adenosine triphosphate, -citrate, preparation, 764
 -chelates, brain imaging, positron camera, 537*
 -microspheres, lung transverse section imaging, in dogs, 80
 -microspheres, 3D lung imaging, in dogs, 386
 positron range, 1174

Gastrointestinal tract

bleeding, ^{113m}In-chloride detection, 569*
 distended gastric fundus on kidney image, 947
 emptying, antacid effects, ^{113m}In, 562*
⁶⁷Ga-citrate content, effect of Na₂EDTA, in rats, 280

- gastric emptying, ^{99m}Tc -polystyrene-TETA, 575*
 gastrin radioimmunoassay, 805*
 gastro-esophageal reflux, ^{99m}Tc -S colloid, 547*
 Meckel's diverticulum diagnosis, $^{99m}\text{TcO}_4^-$, 515*
 radiation dosimetry model, 853*
 radiation dosimetry, radioiodides, MIRD, 857
 $^{99m}\text{TcO}_4^-$ secretion, effect of pentagastrin, in dogs, 535*
 $^{99m}\text{TcO}_4^-$ secretion into isolated loops, in rats, 574*
 $^{99m}\text{TcO}_4^-$ secretion site, 1204
 ^{201}Tl concentration, 545*
- Gating** *see* Heart, blood flow
- Generator**
 ^{68}Ge - ^{68}Ga , 764
 ^{90}Mo - ^{90m}Tc , ^{90}Sr , ^{90}Sr contamination, 571*
 ^{90}Mo - ^{90m}Tc , ^{99}Tc content in eluate, 639
 ^{82}Sr - ^{82}Rb , 300, 429
- Glomerular filtration rate** *see* Kidney
- Gold-198**
 effective hepatic plasma flow, 524*
 liver scan, bile leakage, 825
 liver uptake mechanism, in rats, 532*
 radiation dose estimates in liver disease, MIRD, 173
 specific absorbed fraction computation, 492
 synovium therapy, 100
- Granulocyte** *see* Leukocyte
- Health physics** *see* Quality Control; Radiation Dosimetry; Radiation safety
- Heart**
 ^{11}C -aminonitriles, distribution, in dogs, 582*
 ^{11}C -diazepam uptake, 521*
 cardiac silhouette, wide, on lung image, 324
 ^{125}I , ^{131}I -fatty acid preparation, 17
 Inter-Society Commission for Heart Disease report, 959
 left ventricular volume change, ECG gated, 531*
 myocardial infarct, CPK levels, 521*; in dogs, 559*, 569*
 myocardial infarct, ^{42}K , ^{99m}Tc -pyrophosphate uptake, in dogs, 559*
 myocardial infarct, ^{99m}Tc -complexes, ^{67}Ga -citrate, uptake, in dogs, 975
 myocardial infarct, ^{99m}Tc -glucoheptonate uptake, in animals, 865, 975
 myocardial infarct, ^{99m}Tc -phosphates and ^{18}F , uptake, in dogs, 132
 myocardial infarct, ^{99m}Tc -pyrophosphate, -tetracycline uptake mechanism, 525*
 myocardial infarct, ^{99m}Tc -pyrophosphate uptake, 512*; in dogs, 548*, 559*
 myocardial infarct, ^{99m}Tc -tetracycline uptake rate, 1144
 myocardial infarct uptake, effect of blood flow, ^{42}K , ^{99m}Tc -tetracycline, -polyphosphate, in dogs, 558*
 myocardial infarct uptake, effects of molecular structure, in rats, 523*
 myocardial uptake of ^{14}C - and ^{131}I -oleic acid, ^{131}I -linoleic acid, in animals, 842
 myocardial uptake of ^{15}N -compound, species differences, 529*
 myocardial uptake of ^{15}O -hemoglobin, in dogs, 550*
 myocardial uptake of ^{208}Pb - and ^{201}Tl -ionophores, in mice, 567*
 myocardial uptake of ^{99m}Tc -pyrophosphate, 944
 radiation dosimetry, ^{125}Cs , ^{42}K , ^{81}Rb , ^{201}Tl , 527*, 1070
 scanning, ^{42}K , in coronary artery disease, 575*
 scanning, left ventricular aneurysm, ^{131}Cs , ^{113m}In , 1024
 ^{201}Tl , distribution, in animals, 156
 tomography, myocardial infarct, ^{99m}Tc -diphosphonate, -pyrophosphate, -glucoheptonate, ^{18}F , 581*
 tomography, ^{99m}Tc -microspheres, in dogs, 568*
 tomography, transaxial, ^{11}CO , $^{13}\text{NH}_3$, 521*; in dogs, 210
- Heart, blood flow**
 cardiac ejection fraction, ^{99m}Tc -RBC, 512*
 data processing system, 386
 dual channel, dual color subtraction technique, $^{99m}\text{TcO}_4^-$, 789
 during stress, 510*, 514*, 851*
- ECG gated, 553*;
 ^{99m}Tc -HSA, 95, 368, 527*, 865
 left ventricular ejection fraction, cardiac output, portable probe, 289
 left ventricular ejection fraction, ECG gated, 531*;
 ^{99m}Tc -HSA, 527*;
 ^{99m}Tc -RBC, 865
 left ventricular ejection fraction, ^{99m}Tc , echocardiography, 565*
 ^{113m}In , current literature, 500*
 ^{113m}In -, ^{99m}Tc -MAA, stress-induced ischemia, 851*
 large-field-of-view scintillation camera, 1158
 myocardial, during stress, ^{81}Rb , 514*
 myocardial infarct, Fresnel zone plate, ^{99m}Tc -MAA, in dogs, 183
 myocardial infarct, ^{99m}Tc -polyphosphate, 851*
 persistent left superior vena cava, $^{99m}\text{TcO}_4^-$, 469
 regional myocardial, contrast hyperemia, ^{125}Xe , 536*
 regional myocardial, ^{125}Xe in saline, in coronary artery disease, 567*
 shunt evaluation, $^{99m}\text{TcO}_4^-$, in children, 511*
 shunt evaluation, ^{99m}Tc -microspheres, -MAA, ^{113m}In -Fe(OH) $_3$, 528*
 ^{201}Tl , ^{42}K , ^{81}Rb , ^{82}Sr -microspheres, in animals, 851*
- Heart, imaging**
 coincidence and noncoincidence, ^{42}K , ^{81}Rb , in dogs, 658
 collimator choice, 531*
 comparison of ^{125}Cs , ^{42}K , ^{201}Tl , ^{81}Rb , in dogs, 553*
 comparison of ^{81}Rb and ^{42}K , 562*
 coronary artery thrombosis, ^{125}I -fibrinogen, 804*
 evaluation of focal hepatic defect, ^{99m}Tc -S colloid, 896
 myocardial infarct, ^{152}Er , in dogs, 554*
 myocardial infarct quantification, ^{99m}Tc -pyrophosphate, in dogs, 569*, 573*
 myocardial infarct, ^{99m}Tc -compounds, in dogs, 582*
 myocardial infarct, ^{99m}Tc -glucoheptonate, 563*, 975
 myocardial infarct, ^{99m}Tc -polyphosphate, -pyrophosphate, 518*, 521*, 851*
 myocardial infarct, ^{201}Tl , 539*, 565*
 properties of imaging agents, 151
 ^{82}Rb , $^{13}\text{NH}_3$, in dogs, 429
 ^{99m}Tc -MAA, -HSA, pericardial effusion, 969*
 ^{99m}Tc -pyrophosphate, 518*, 521*, 556*, 851*
 ^{201}Tl , 513*, 539*, 565*; in animals, 151, 553*
- Hepatic** *see* Liver
- Hepatitis**
 B, radioimmunoassay, 513*
- Hippuran** *see* Iodine-123; Iodine-131, Hippuran
- Hormones**
 estrogen, effect on ^{125}I -diphenylhydantoin kinetics, 305
 estrogen radioimmunoassay, 500*
 estrogen, RES stimulation, in animals, 22
 ^3H -estradiol, adrenal uptake, in dogs, 77
 human chorionic gonadotrophin radioassay, 500*, 501*
 testosterone analogs for prostate, in rats, 570*
- Human serum albumin** *see* Carbon-11; Iodine-125; Iodine-131, albumin; Technetium-99m, albumin; Technetium-99, macroaggregated albumin
- Hydrogen-3**
 -bleomycin, tumor uptake, compared to ^{99m}Tc - and ^{64}Cu -bleomycin, in rats, 127
 -dextran, CSF drainage, in rabbits, 539*
 -dihydrotestosterone, uptake inhibition, in rats, 570*
 -estradiol, adrenal uptake, in dogs, 77
 -prostaglandin E. A and -arachidonic acid for tumor, in mice, 83
 -putrescine for prostate, distribution, in rats, 337
 radioimmunoassays, quench correction, 570*
 -tetracycline, myocardial infarct uptake mechanism, 525*
- Imaging** *see* Camera; specific organ
- Immunology**
 CEA assay in colonic malignancy, 550*
 CEA radioimmunoassay, 579*, 1094*
 hepatitis B, 513*
 ^{125}I -tumor antibody, distribution, in animals, 544*
 ^{111}In -chelate-antibodies, preparation, 559*

- motilin, radioimmunoassay, 1094*
- thyroid antibodies in pernicious anemia, 549*
- trichinosis diagnosis, ¹²⁵I-antitrichinosis, 501*
- vesicle interactions, 483
- Indium-111**
- chelate-antibodies, preparation, 559*
 - chloride, bone marrow scanning, compared to ⁵⁹Fe, ^{99m}Tc-S colloid, 66, 1204, 1205
 - chloride, brain tumor uptake, compared to other agents, in mice, 200
 - chloride, kinetics, in mice, 738
 - chloride, radiation dosimetry, 200
 - citrate, kinetics, bone marrow imaging, 769
 - citrate, uptake in pudendal region, 769
 - DTPA, cisternography, 267, 434; aseptic meningitis, 809
 - leukocytes, abscess detection, in rabbits, 583*
 - lymphocyte labeling, 564*
 - phosphate, for cisternography, preparation, distribution, 164
 - placenta uptake, in animals, 544*
- Indium-111, bleomycin**
- brain tumor uptake, radiation dosimetry, in mice, 200
 - breast carcinoma scanning, 578*
 - distribution, radiation dosimetry, 854*
 - kinetics, in mice, 738
 - liver and spleen scanning, focal defects, 583*
 - normal scans, 537*
 - radiation dosimetry, 200, 550*, 854*
 - tumor imaging, 537*, 854*; in children, 554*
 - tumor/nontumor ratio relevance, 578*
 - tumor uptake, compared to ⁶⁷Ga-citrate, 524*
 - tumor uptake, compared to other labeled bleomycins, 524*
- Indium-113m**
- aerosol, lung ventilation in obstructive airways disease, 574*
 - cardiac blood flow, 500*
 - chloride, gastric emptying, antacid effect, 562*
 - chloride, gastrointestinal bleeding detection, 569*
 - chloride, hepatic blood flow, in metastases, 533*
 - chloride, liver and spleen scanning, focal defects, 583*
 - DTPA, brain tumor uptake, radiation dosimetry, in mice, 200
 - DTPA, CSF drainage, in rabbits, 539*
 - DTPA, radiation dosimetry, cisternography, 1177
 - Fe(OH)₃, cardiac shunt determination, 528*
 - left ventricular ejection fraction, cardiac output, portable probe, 289
 - MAA, myocardial perfusion, 851*
 - myocardial scan, left ventricular aneurysm, 1024
 - polyfunctional phosphonates for bone, preparation, distribution, in rabbits, 1080
 - thyroid perfusion, cold nodule, 1187
- Indium-114m**
- DTPA, distribution, kidney uptake, in rabbits, 357
- Infection**
- see also Abscess; Bacteria*
- bubonic plague, ⁶⁷Ga-citrate scan, 1031
 - ⁶⁷Ga-citrate scanning, 2, 580*
 - mucormycosis, kidney transplant, 925
 - pancreatic pseudocyst, ⁶⁷Ga-citrate scan, 1132
 - streptococcus Group A, radiometric identification, 1085
- Inflammation**
- ^{99m}Tc-microsphere-leukocyte uptake, in animals, 527*
 - ^{99m}Tc-S colloid-leukocyte uptake, 566*; in dogs, 527*
- Injection**
- effects in cisternography, 267
 - eye microvasculature studies, 517*
 - intrasplenic, intramesenteric, effect on liver uptake of ^{99m}Tc-S colloid, in rats, 377
 - site, Fe-dextran, ^{99m}Tc-diphosphate uptake, 577*
- Iodine**
- early thyroid kinetics, 517*
 - radio-, iodination level effects on fibrinogen, 534*
- Iodine-123**
- bleomycin, preparation, characterization, 550*
 - bleomycin, radiation dosimetry, 550*
 - bleomycin, tumor imaging, 524*
 - collimator for myocardial imaging, 531*
 - estradiol, radiation dosimetry, 541*
 - fatty acids, characteristics for myocardial imaging, 151
 - fatty acids, preparation, 17
 - fibrin for thrombus, 521*
 - fibrinogen, thrombus detection, 524*
 - Hippuran, renogram, 1212*
 - impurities, 540*
 - radiation dosimetry, MIRD, 857
 - rose bengal, evaluation of jaundice, 567*
 - rose bengal, hepatobiliary imaging, 629
 - rose bengal, preparation, 540*
 - rose bengal, radiation dosimetry, MIRD, 1214
 - streptokinase, preparation, kinetics, in animals, 136
 - thyroid imaging, compared to ^{99m}TcO₄⁻, 512*
 - thyroid imaging, Fresnel zone plate, 183
- Iodine-124**
- radiation dosimetry, MIRD, 857
 - rose bengal, radiation dosimetry, MIRD, 1214
- Iodine-125**
- albumin, CSF formation rate, in monkeys, 1093*
 - albumin, eye humor flow, 517*
 - antitrichinosis, assay, 501*
 - chloroquine, eye tumor, 562*
 - diphenylhydantoin for pancreas, distribution, imaging, 775
 - dopamine analogs for adrenal glands, distribution, in rats, 1147
 - folate, displacement by methotrexate, in dogs, 572*
 - hepatitis B radioimmunoassay, 513*
 - immunoglobulin, vesicle survival, in mice, 483
 - iododeoxyuridine, tumor therapy, in mice, 516*
 - iodomethylnorcholesterol, preparation, distribution, in mice, 666
 - microspheres, blood flow, skin flap, in dogs, 1212*
 - motilin, radioimmunoassay, 1094*
 - photon spectrum, 246
 - plasminogen, distribution, tumor uptake, in mice, 560*
 - quinoline analog, for melanoma, distribution, in mice, 530*
 - radiation dosimetry, MIRD, 857
 - radioassay of small samples, 952
 - source, photon absorptiometry, bone mineral content, 196
 - streptokinase, preparation, kinetics, in animals, 136
 - thyroid uptake, 562*
 - T, radioimmunoassay, 514*
- Iodine-125, fibrinogen**
- autologous, preparation, 393
 - compared to other labels, 542*
 - distribution, tumor uptake, in mice, 560*
 - high specific activity, preparation, characterization, 756
 - single donor, safety, 562*
 - thrombus uptake, in dogs, 370
- Iodine-126**
- radiation dosimetry, MIRD, 857
 - rose bengal, radiation dosimetry, MIRD, 1214
- Iodine-129**
- photon spectrum, 246
- Iodine-130**
- radiation dosimetry, MIRD, 857
 - rose bengal, radiation dosimetry, MIRD, 1214
- Iodine-131**
- acetazolamide, preparation, distribution, in animals, 537*
 - bleomycin, tumor uptake, in animals, 524*
 - bromsulphalein, bile leakage, liver pseudocyst, 825
 - chlorpropamide for pancreas, distribution, in animals, 577*
 - cholesterol, adrenal carcinoma, 566*
 - cholesterol, preparation, purification, 69

- cholesterol, radiation dosimetry, 247, 248
- cholesterol, therapy for adrenal cortical hyperplasia, in dogs, 928
- diphenylhydantoin for pancreas, distribution, imaging, 775
- diphenylhydantoin, kinetics, effects of carrier and estrogen, 305
- fatty acids, characteristics for myocardial imaging, 151
- fatty acids, preparation, 17
- hepatographic patterns in disease, rectal administration, 802*
- iodoantipyrine, distribution, in animals, 561*
- iodoantipyrine, kit, 561*
- iodoethanol, distribution, in animals, 561*
- iodomethylnorcholestenol, preparation, distribution, in animals, 514*, 666, 1038
- iodomethylnorcholestenol, uptake by adrenals, in rats, 542*, 565*
- liver imaging, metastatic thyroid carcinoma, 669, 919
- lysozyme, -ribonuclease, for kidney, distribution, in animals, 357
- oleic, -linoleic acid, myocardial uptake, in animals, 842
- radiation dosimetry, MIRD, 857
- rose bengal, compared to ^{99m}Tc agents, in baboons, 577*
- rose bengal, compared to ^{99m}Tc-mercaptoisobutyric acid, 686, 687
- rose bengal, gallbladder imaging, 543*, 1029
- rose bengal, radiation dosimetry, MIRD, 1214
- streptokinase, preparation, kinetics, in animals, 136
- streptozotocin analogs, tumor uptake, in hamsters, 535*
- tetracycline, preparation, stability, 519*
- tetracycline, tumor uptake, compared to other agents, in rats, 532*
- tetracycline, tumor uptake, in animals, 520*
- thyroid imaging, with ^{99m}TcO₄⁻, 918
- thyroid scan, accessory thyroid, 1135
- thyroid scan, cold nodule, 713
- thyroid therapy, effect on red blood cells, 963, 964
- thyroid therapy, effect on thyroid function, 568*
- thyroid therapy, low dose, 549*, 572*
- thyroid uptake, depression by contrast media, 802*
- thyroid uptake, normal range, 560*
- thyroid uptake suppression test, 538*
- tumor antibody, preparation, distribution, in animals, 544*
- Iodine-131, albumin**
 - bone kinetics, in rats, 40
 - brain tumor uptake, radiation dosimetry, in mice, 200
 - cisternography, 267, 502*; aseptic meningitis, 809
 - MAA, myocardial perfusion during stress, 510*
 - MAA, venography, 579*
 - plasma volume determination, 1207; normal range, 46, 961, 962
 - tumor imaging, 1212*
 - unilateral ventricular reflux, 716
- Iodine-131, fibrinogen**
 - autologous, kidney transplant rejection, 555*
 - autologous, preparation, 393
 - coronary artery thrombus image, 804*
 - high specific activity, preparation, characterization, 756
 - preparation, comparison to other labels, 542*
 - thrombus uptake, in dogs, 370
- Iodine-131, Hippuran**
 - blind-ending ureteral duplication image, 208
 - collecting system evaluation in renal transplant, 557*
 - kidney transplant evaluation, 557*, 1092*, 1115
 - renogram for urinary tract obstruction in pregnancy, 803*
 - renogram in hemangioendotheliomatosis, 915
 - ureteral fistula imaging, 612
 - vesicoureteral reflux imaging, 968*
- Iodine-132**
 - radiation dosimetry, MIRD, 857
- Iothalamate**
 - GFR by x-ray fluorescence, in dogs, 510*
- Iron**
 - total serum binding capacity, 583*
- Iron-52**
 - bone marrow scanning, compared to ¹¹¹In, ^{99m}Tc-S colloid, 66
- Iron-59**
 - RBC, bone kinetics, in rats, 40
- Joints**
 - see also Extremities*
 - knee, ^{99m}Tc-polyphosphate scan in arthritis, 510*
 - ³²P-chromic phosphate synovectomy, 442
 - popliteal cyst, thrombosis differentiation, ^{99m}Tc-HSA, 580*
 - sacro-iliac disease, ^{99m}Tc-pyrophosphate imaging, 545*
 - synovium, ¹⁹⁸Au-therapy, 100
 - ^{99m}TcO₄⁻ imaging in periarteritis nodosa, 804*
- Kidney**
 - autoradiography of uptake, ^{99m}Tc agents, 554*
 - disease, effect on bone uptake of ^{99m}Tc-pyrophosphate, 33
 - disease, effect on ⁵⁷Co-bleomycin tumor imaging, 1058
 - failure, effect on soft-tissue uptake of ^{99m}Tc-phosphates, 1087
 - failure, rhabdomyolysis, muscle uptake of bone agents, 515*
 - function tests, combined with cerebral death studies, ^{99m}Tc-DTPA, 538*
 - GFR, ¹⁸F, ^{99m}Tc-polyphosphate, 688, 689
 - GFR, x-ray fluorescence of iothalamate, in dogs, 510*
 - glomerular filtration, ¹¹¹In-phosphate, in animals, 164
 - ¹²⁵I-acetazolamide distribution, in animals, 537*
 - ¹¹¹In-bleomycin uptake on normal scan, 537*
 - multi-isotope studies, ¹⁹⁷Hg-chloride, ^{99m}Tc-DMSA, 571*
 - phagocytic capability, in animals, 709
 - phantom, blood background and mean transit studies, 576*
 - renogram, deconvolution analysis, scintillation camera, 1212*
 - renogram in hemangioendotheliomatosis, ¹²⁵I-Hippuran, 915
 - renogram, transplant evaluation, ¹²⁵I-Hippuran, 612, 1092*, 1115
 - renogram, urinary tract obstruction in pregnancy, 803*
 - ^{99m}Tc effect on ^{99m}Tc-gluconate distribution, in rats, 478
 - ^{99m}Tc-diphosphonate uptake in Paget's disease, 582*
 - ^{99m}Tc-thiomalic acid, preparation, distribution, in rats, 531*
 - uptake of ^{99m}Tc kidney agents, in rats, 531*
 - uptake on bone scans, 1092*, 1109; ^{99m}Tc-polyphosphate, 454, 602; ¹⁸F and ^{99m}Tc-pyrophosphate, 161
- Kidney, blood flow**
 - carcinoma detection, ^{99m}Tc-MAA, 472
 - ERPF, transplant, ^{99m}Tc-DTPA, 1115
 - hypernephroma, arteriovenous shunting, ^{99m}Tc-microspheres, 569*
 - intra-, camera-computer system, ¹³³Xe in saline, 899
 - pheochromocytoma detection, ^{99m}Tc-DTPA, 234
- Kidney imaging**
 - effect of distended gastric fundus, ^{99m}Tc-DTPA, 947
 - in hemangioendotheliomatosis, ¹⁹⁷Hg-chlormerodrin, 915
 - large-field-of-view scintillation camera, 1158
 - multi-isotope studies, ¹⁹⁷Hg-chloride, ^{99m}Tc-DMSA, 571*
 - radiation dosimetry, ¹⁹⁷Hg-, ²⁰³Hg-chlormerodrin, 1095
 - refocused images, 548*
 - ^{99m}Tc-complexes, 357
 - ^{99m}Tc-DMSA, 28
 - ^{99m}Tc-DTPA imaging in obstructive disease, 525*
 - ¹⁰⁹Tc-phosphate bone scans, 161, 454, 602, 1092*, 1109
 - vesicoureteral reflux, ¹²⁵I-Hippuran, 968*
- Kidney transplant**
 - bone imaging, 538*
 - collecting system evaluation, ^{99m}Tc, ¹²⁵I-Hippuran, 557*
 - ERPF, ^{99m}Tc-DTPA, 1115
 - monitoring, ^{99m}Tc-S colloid, ^{99m}TcO₄⁻, 529
 - mucormycosis infection, head and brain imaging, 925

- rejection, ¹²⁵I-autologous fibrinogen studies, 555*
renograms, 1092*, 1115
ureteral fistula imaging, ^{99m}Tc-DTPA, ¹²⁵I-Hippuran, 612
- Kit**
¹²⁵I-iodoantipyrine, 561*
radioiodinated autologous fibrinogen, 554*
^{99m}Tc-diphosphonate, chromatography, 584*
^{99m}Tc-minimicrospheres, 542*
^{99m}Tc-RBC, 512*, 570*
T, radioimmunoassay, 514*; evaluation, 558*
- Krypton-79**
nuclear parameters, radiation dosimetry, 143
- Krypton-81m**
see also Rubidium-81m
characteristics for myocardial imaging, 151
- Krypton-85**
nuclear parameters, radiation dosimetry, 143
- Krypton-85m**
for lung ventilation, 539*
nuclear parameters, radiation dosimetry, 143
- Lacrimal gland**
drainage, contrast and ^{99m}TcO₄⁻, 605
- LD₅₀** *see Toxicity*
- Lead-203**
-chloride, -acetate, -EDTA, -polyphosphate, -diphosphate, distribution, in mice, 544*
-chloride, for bone, distribution, in rats, 170
-DTPA, radiation dosimetry, cisternography, 1177
-ionophores, for heart imaging, distribution, in mice, 567*
-Tris, melanoma uptake, in hamsters, 556*
tumor uptake and viability, in rats, 532*
- Lesion** *see also Abscess; Inflammation; Tumor*
benign, ^{99m}Tc-bleomycin, ⁶⁷Ga-citrate uptake, 414
- Leukocytes**
¹⁴C-substrate metabolism, continuous measurement, 517*
culture, Fe enhancement of ⁶⁷Ga-citrate uptake, 1183
⁶⁷Ga-, ¹¹¹In-, abscess detection, in rabbits, 583*
leukemic, ^{99m}Tc uptake, 530*
^{99m}Tc labeling, 530*
^{99m}Tc-microsphere-, preparation, abscess, inflammation uptake, in animals, 527*
^{99m}Tc-S colloid labeling, uptake in inflammation, 566*;
in dogs, 527*
- Licensing**
compliance tests and radiation safety procedures, 517*
- Limulus amoebocyte lysate test**
cisternography agents, 809
test sensitivity, 552*
- Line spread function**
determination, scintillation camera, 1200
high-count-rate positron imaging, 653
positron range effects, 649
transaxial positron tomography, 210
- Liquid scintillation counting**
book review, 1091
continuous measurement of ¹⁴C-substrate metabolism, 517*
³H, quench correction, 570*
vial design, 963
- Liver**
⁷⁷Br- and ⁸²Br-dimethoxyphenylisopropylamine, preparation, distribution, 243
¹¹C-aminonitriles, distribution, in dogs, 582*
¹⁴C, albumin synthesis rate, radiation dose, 642
comparison of hepato-biliary agents, in baboons, 577*
disease, radiation dose estimates, MIRD, ¹⁹⁸Au, 173
hepatographic patterns in disease, rectal administration of ¹²⁵I, 802*
¹²⁵I-rose bengal jaundice evaluation, 567*
¹²⁵I-rose bengal, preparation, imaging, 629
lesion, ⁶⁷Ga-citrate uptake, 443
metastases from lung, alpha-fetoprotein levels, 1094*
normal, weight estimation, 314
radiation dose, ¹⁹⁷Hg-, ²⁰³Hg-chlormerodrin, 1095
radiation dosimetry, radioiodides, MIRD, 857
radiation dosimetry, ²⁰¹Tl, 1089, 1090
size estimation, in rats, 381
subtraction from ⁶⁷Ga-citrate scans, 548*
^{99m}Tc-iminodiacetic acid analog, distribution, in animals, 533*
^{99m}Tc-minimicrosphere kit, 542*
^{99m}Tc-S colloid, 108A
^{99m}Tc-S colloid uptake, effect of injection site, in rats, 377
^{99m}Tc-Schiff's bases, preparation, imaging, in animals, 520*
-to-spleen ratio of ^{99m}Tc-S colloid, in cirrhosis, 802*
uptake, ¹²⁵I-diphenylhydantoin, effects of carrier, estrogen, 305
uptake mechanism, ^{99m}Tc-S colloid, ¹⁹⁸Au, in rats, 532*
- Liver, blood flow**
effect of metastases, ^{115m}In-chloride, 533*
effective plasma flow, disease differentiation, 524*
hepatic artery-portal vein fistula, ^{99m}Tc-S colloid, 910
in hypersplenism, ^{99m}Tc-S colloid, 555*
neoplastic tumors, ^{99m}Tc-S colloid, 595
quantitative, ^{99m}Tc-S colloid, in dogs, 572*
^{99m}Tc-S colloid, 71, 626
veno-occlusive disease, ^{99m}TcO₄⁻, 1130
- Liver imaging**
abdominal tumor, ^{99m}Tc-S colloid, 853*
abscess, metastases differentiation, 250
¹¹C-ethanol, in cats, 73
cancer, primary, ⁶⁷Ga-citrate, ^{99m}Tc-S colloid, 949
ectopic gallbladder effects, 1029
effect of splenectomy, ^{99m}Tc-S colloid, 194
focal defects, ^{99m}Tc-S colloid, 831, 896
Fresnel zone plate, ^{99m}Tc-S colloid, 183
¹²⁵I-rose bengal, 629; in rabbits, 540*
in breast cancer, 545*
in hemangioendotheliomatosis, ^{99m}Tc-S colloid, 915
interpretation, 11
kala-azar, ^{99m}Tc-S colloid, 1128
large-field-of-view scintillation camera, 1158
lung uptake of ^{99m}Tc-S colloid, 188, 249, 250, 332, 439, 440, 542*, 1002; mechanism, 22
metastatic thyroid carcinoma, ¹²⁵I, ^{99m}Tc-S colloid, 669
refocused images, 546*, 548*
^{99m}Tc-S colloid, clinical evaluation, 62, 450, 1204
veno-occlusive disease, ^{99m}Tc-S colloid, 626, 1130
- Liver scanning**
benign tumor uptake of ⁶⁷Ga-citrate, 470
focal defects, ⁶⁷Ga-citrate, ^{115m}InCl₂, ¹¹¹In-bleomycin, 583*
focal defects, porta hepatis region, ^{99m}Tc-S colloid, 1007
foramen of Morgagni hernia, ^{99m}Tc-S colloid, 261
hepatic artery traumatic aneurysm, ^{99m}Tc-S colloid, ^{99m}Tc-MAA, 1027
¹²⁵I, thyroid carcinoma metastases, 919
¹¹¹In-bleomycin, normal scan, 537*
in breast carcinoma, 802*
interpretation, Gamut approach, 1121
lung carcinoma staging, 538*
lymphoma, ⁶⁷Ga-citrate, 255
obstructive jaundice, 853*
pseudocyst, bile leakage, ¹²⁵I-bromsulphalein, ¹⁹⁸Au, 825
pseudotumor in acute hepatitis, ^{99m}Tc-S colloid, 799
- LSF** *see Line spread function*
- Lungs**
⁸²Br-dimethoxyphenylisopropylamine, preparation, distribution, 243
¹¹C-aliphatic amines, uptake, in animals, 511*
¹¹C-aminonitriles, distribution, in dogs, 582*
cancer, metastatic to liver, alpha-fetoprotein levels, 1094*
carcinoma staging, ^{99m}Tc, ⁶⁷Ga, 538*
¹⁴C-particle clearance, in dogs, 851*
function in mucopolysaccharidoses, ^{99m}Tc-S colloid, 541*
⁶⁷Ga-citrate uptake, effect of contrast lymphangiography, 375

- ¹³¹I-acetazolamide distribution, in animals, 537*
 pleural effusion, ^{87m}Sr secretion, 1208
 pleural effusion, uptake of ^{99m}Tc-diphosphonate, 883
^{99m}Tc-S colloid retention, 188, 249, 250, 439, 440; in histiocytosis X, 332; in mucopolysaccharidoses, 542*, 1002; mechanism, 22
¹³⁵Xe, ¹²⁷Xe, ¹²⁵Xe, radiation dosimetry, 780
- Lungs, blood flow**
 arteriovenous fistulas, ^{99m}Tc-microspheres, 328
 arteriovenous malformation, ^{99m}TcO₄⁻, 180
 cardiac shunt determination, ^{99m}Tc-microspheres, -MAA, ^{113m}In-Fe(OH)₃, 528*
 pulmonary sequestration evaluation, 530*
 systemic-pulmonic shunt assessment, ^{99m}Tc-MAA, in children, 528*
- Lung imaging**
 carcinoma, ^{99m}Tc-polyphosphate uptake, 1021
 cost-effectiveness, 550*
 Fresnel zone plate, ^{99m}Tc-MAA, 183
 hemangioendotheliomatosis, ^{99m}Tc-MAA, ¹³⁵Xe gas, 915
 "hot spots", ^{99m}Tc-MAA, 241
 large-field-of-view scintillation camera, 1158
 liver-lung interface, ^{99m}Tc-MAA, 1027
 multi-isotope studies, ^{99m}Tc-microspheres, ⁶⁷Ga, ¹⁹⁷Hg, 571*
 particle dose effects, ^{99m}Tc-MAA, in dogs, 526*
 pulmonary infarct, pneumonitis differentiation, ⁶⁷Ga, 551*
 refocused images, 546*, 548*
 -spleen interface, ^{99m}Tc-S colloid, -microspheres, 822
^{99m}Tc-gluconate for tumor, in children, 552*
^{99m}Tc-microspheres, statistics, 503*
 tumor, ⁶⁷Co-bleomycin, 1058
 ventilation/perfusion *see Lung, ventilation*
 wide mediastinum, ^{99m}Tc-microspheres, 324
 3D image processing system, 386
 3D reconstruction, ⁶⁷Ga-microspheres, in dogs, 80
- Lung scanning**
 combined with radionuclide venograms, 579*
 interpretation, Gamut approach, 1121
 lymphoma, ⁶⁷Ga-citrate, 255
 pulmonary embolism diagnosis, 968*
^{99m}Tc-diphosphonate, metastatic osteosarcoma, 568*
- Lung ventilation**
 cystic fibrosis, ¹³⁵Xe, 548*
 inhalation injury, burn patients, ¹³⁵Xe washout, 547*
^{86m}Kr, 539*
 large-field-of-view scintillation camera, 1158
 obstructive airways disease, aerosol, 546*; aerosol, ¹³⁵Xe, 574*; ^{113m}In-aerosol, ^{99m}Tc-MAA, 574*
 /perfusion, ⁶⁷Ga scanning, hilar tumors, 576*
 /perfusion, pulmonary artery banding, ¹³⁵Xe, 577*
 /perfusion, pulmonary embolism, 533*, 1017
 /perfusion, ^{99m}Tc-microspheres crossover subtraction from ¹³⁵Xe, 533*
 /perfusion, tetralogy of Fallot, 510*
 /perfusion, Xe, diverging collimator, 552*
 pulmonary embolism, 503*
 radiation dose, ¹³⁵Xe, 580*
 regional, in chronic obstructive disease, ¹³⁵Xe, 567*
 tidal breathing, ¹³⁵Xe, 853*
¹³⁵Xe dose dispenser, 1197
¹³⁵Xe spirometer system, 551*
 upper/lower airways relationship, ¹³⁵Xe, 570*
- Lymph nodes**
 lymphoma, ⁶⁷Ga-citrate scanning, 255
 mammary, drainage, ^{99m}Tc-Sb colloid, 526*
- Lymphocytes**
¹⁴C-carbohydrate metabolism, mitogen effects, 576*
⁶⁷Ga-, ¹¹¹In-, ¹⁹⁷Hg-, labeling, 564*
^{99m}Tc-, labeling, distribution, in rabbits, 530*
- Macroaggregated albumin** *see Indium-113m; Iodine-131, albumin; Technetium-99m, macroaggregated albumin*
- Mammography**
 compared to ¹¹¹In-bleomycin breast scanning, 578*
 compared to ^{99m}Tc-polyphosphate imaging, 581*
- Mercury-197**
 -adriamycin, -acetate, tumor uptake, in mice, 560*
 -chloride, dual-isotope kidney studies, with ^{99m}Tc-DMSA, 571*
 -chlormerodrin, brain tumor uptake, radiation dosimetry, in mice, 200
 -chlormerodrin, kidney imaging in hemangioendotheliomatosis, 915
 -chlormerodrin, radiation dosimetry, MIRD, 1095
 -chlormerodrin, tumor imaging, 1212*
 lymphocyte labeling, 564*
 multi-isotope lung studies, ^{99m}Tc-microspheres, ⁶⁷Ga, 571*
- Mercury-203**
 -chlormerodrin, kidney imaging, compared to ^{99m}Tc-complexes, 357
 -chlormerodrin, radiation dosimetry, MIRD, 1095
 -unsaturated fatty acid esters, preparation, distribution, in animals, 572*
- Microspheres**
see also Gallium-68; Iodine-125; Strontium-85; Technetium-99m, microspheres
 radiolabeled, blood flow in skin flaps, in animals, 1212*
- MIRD**
 radiation dose estimates, ¹⁹⁸Au, in liver disease, 173
 radiation dose estimates, ¹⁹⁷Hg-, ²⁰³Hg-chlormerodrin, 1095
 radiation dose estimates, ¹²⁵I-, ¹²⁴I-, ¹²⁵I-, ¹²⁶I-, ¹³⁰I-, ¹³¹I-, ¹³²I-iodides, 857
 radiation dose estimates, ¹²⁵I-, ¹²⁴I-, ¹²⁶I-, ¹³⁰I-, ¹³¹I-rose bengal, 1214
 radiation dose estimates, ^{99m}Tc-S colloid in liver disease, 108A
- Model**
 animal, species differences, 529*
 compartmental, bone tumor uptake, 519*
 compartmental, early thyroid kinetics, 517*
 compartmental, subdural hematoma, ^{99m}TcO₄⁻ uptake, 571*
 dog, adrenal cortical hyperplasia, 928
 dog, myocardial infarct, 156, 569*, 573*, 582*
 dog, thrombus, 521*
 GI tract, radiation dosimetry, 853*
 goat, myocardial infarct, 156
 guinea pig, toad, lung uptake of liver colloid, 22
 monkey, cerebral infarct, 514*
 phantom, kidney blood flow, 576
 rabbit, abscess, 583*
 rabbit, thrombosis, 578*
 rat, myocardial infarct, 523*, 525*
 scintillation camera deadtime, 539*
 tissue culture, mammalian cell, ^{99m}Tc-tetracycline uptake, 315
- Modulation transfer function**
 collimators for myocardial imaging, 531*
 scatter subtraction effects, 102
 scintillation camera, determination, 1200
- Mössbauer**
 spectroscopy, ¹⁵³Sm in tumor, in mice, 528*
- MTF** *see Modulation Transfer Function*
- Muscle**
 blood flow, occlusive disease, ¹³⁵Xe, 1211*
^{99m}Tc-polyphosphate uptake, in polymyositis, 1125
- Neohydrin** *see Mercury-197; Mercury-203*
- Neutron activation analysis**
 partial-body Ca, 116
 total-body Ca by ³⁷Ar excretion, 672
 total-body Ca in osteoporosis, 196
- Nitrogen-13**
 -glutamine, -glutamic acid, -valine, myocardial uptake, species differences, 529*
 positron range, 1174

- Nitrogen-13, ammonia**
 brain imaging, positron camera, 537*
 characteristics for myocardial imaging, 151
 heart imaging, in dogs, 429
 myocardial tomography, 521*
 myocardial uptake, species differences, 529*
 transaxial positron tomography, in dogs, 210
- Nomenclature**
 scans, 964
- Norepinephrine**
¹¹C-, characteristics for myocardial imaging, 151
- Nuclear Medicine Pioneer Citation, George V. Taplin, 504**
- Observer**
 liver image interpretation, 11
 optimum photoscan gray scale, 519*
 scan interpretation, Gamut approach, 1121
- Ovaries**
 ovulation monitoring, estrogen radioimmunoassay, 500*
 radiation dose, ¹⁹⁸Au, 173; ¹⁹⁷Hg-, ²⁰³Hg-chlormerodrin, 1095; radioiodides, 857; radioiodinated rose bengal, 1214; ^{99m}Tc-S colloid, 108A; ¹¹¹In-citrate, 769
- Oxygen-15**
 H₂¹⁵O, transaxial positron tomography, in dogs, 210
 -hemoglobin, myocardial oxygen consumption, in dogs, 551*
 LSF, 649
¹⁵O₂, brain imaging, positron camera, 537*
 positron range, 1174
- Pancreas**
 and liver scanning, obstructive jaundice, 853*
¹¹C-aminocyclopentanecarboxylic acid, preparation, 579*
¹⁴C-, ¹²⁵I-, ¹³¹I-diphenylhydantoin distribution, 775
 function, ⁷⁵Se-pancreozymin, 1093*
³H-putrescine uptake, in rats, 337
¹³¹I-chlorpropamide, distribution, in animals, 577*
 imaging, pseudocyst, ⁷⁵Se-selenomethionine, 326
 infected pseudocyst, ⁶⁷Ga-citrate scanning, 1132
 motilin radioimmunoassay, in dogs, 1094*
 scanning and ultrasound, 563*
 scanning, evaluation, 568*
⁷⁵Se-amino acids, imaging, 933
⁷⁵Se-selenomethionine dynamics in diabetes mellitus, 270
⁷⁵Se-selenomethionine scanning, 1090
^{99m}Tc-sulfonylureas, preparation, distribution, in rats, 561*
 tumor, ⁶⁷Co-bleomycin, ⁷⁵Se-selenomethionine imaging, 533*
- Parasite**
 kala-azar, liver and spleen imaging, 1128
 trichinosis, radioimmunoassay, 501*
- Parathormone see Parathyroid**
- Parathyroid**
 hormone, ³²P therapy for bone tumor, 519*
 hyper-, ^{99m}Tc-pyrophosphate bone imaging and kinetics, 33, 543*
 pseudohyper-, ^{99m}Tc-pyrophosphate bone imaging, 543*
- Pediatrics**
 bone imaging of femoral metaphyseal irregularities, 521*
 bone scanning, disease differentiation, 547*
 brain imaging, dynamic/static, 1210*
 brain imaging, rapid sequence, ^{99m}Tc, 511*
 cardiac shunt evaluation, ^{99m}TcO₄⁻, 511*
 cisternography, ¹³¹I-HSA, 502*
 cisternography in achondroplasia, 969*
 effective thyroxine ratio measurement, 955
⁶⁷Ga-citrate scan, plague, 1031
⁶⁷Ga-citrate tumor scanning, 533*
 hip imaging, pinhole collimator, 512*
¹¹¹In-bleomycin imaging, 554*
 kidney imaging, ^{99m}Tc-DMSA, 28
 liver-spleen imaging in abdominal trauma, 525*
 pulmonary arteriovenous malformation imaging, ^{99m}TcO₄⁻, 180; ^{99m}Tc-microspheres, 328
 pulmonary sequestration evaluation, 530*
 splenogonadal fusion, ^{99m}Tc-S scan, 922
 systemic-pulmonic shunt assessment, ^{99m}Tc-MAA, 528*
^{99m}Tc-HSA ventriculography in hydromelia, 581*
^{99m}Tc-pyrophosphate scans in calcinosis universalis of dermomyositis, 568*
 unilateral, ventricular reflux, ¹³¹I-HSA, 716
 ventilation in cystic fibrosis, ¹³³Xe, 548*
 ventilation, perfusion in pulmonary artery banding, ¹³³Xe, 577*
 ventilation/perfusion in tetralogy of Fallot, 510*
 vesicoureteral reflux, radionuclide cystography, 522*
- Peritoneal cavity**
^{99m}Tc-S colloid distribution before ³²P-chromic phosphate therapy, 319
- Personnel**
 cost, relative weights, 348
- Phagocytes**
^{99m}Tc-S colloid labeling, 5
- Phantom**
 bar, scintillation camera, 441, 531*
 kidney blood flow, 576*
 quality control programs for imaging, 957
- Phosphorus-32**
 bone tumor therapy, with parathormone, 519*
 chromatogram imaging, 553*
 -chromic phosphate, synovectomy, 442
 -diphosphonate for therapy, distribution, in rats, 532*
 eye tumor imaging, Cerenkov effect, 516*
 metabolism, in rats, 1106
 -pyrophosphate, bone uptake mechanisms, 40
 -pyrophosphate, myocardial infarct uptake mechanism, 525*
 radiation dosimetry, 502*
 -RBC, preparation, survival, in gerbils, 682
 red cell volume, normal, 46, 961, 962
 tumor imaging, 1212*
- Photon absorptiometry**
 bone mineral content, 196, 891
- Physician's Desk Reference**
 book review, 499
- Pituitary gland**
¹⁴C-ascorbic acid uptake, in dogs, 551*
- Placenta**
 blood flow distribution, ^{99m}Tc-microspheres, 539*
 blood flow, ¹³³Xe, 968*
⁶⁷Ga-citrate transfer, in animals, 581*
¹¹¹In uptake, in animals, 544*
- Plasma volume see Blood**
- Plasminogen**
¹²⁵I-, tumor uptake, in mice, 560*
- Platinum-195m**
 -bleomycin complexes, tumor uptake, distribution, in mice, 545*
- Polyphosphate see Technetium-99m, polyphosphate**
- Positron**
see also Camera, positron
 range effect on spatial resolution, 649
 ranges, ¹¹C, ¹³N, ¹⁵O, ¹⁸F, ⁶⁸Ga, ⁸²Rb, 1174
- Potassium-43**
 characteristics for myocardial imaging, 151
 collimator for myocardial imaging, 531*
 myocardial blood flow, effect on infarct uptake, in dogs, 558*
 myocardial imaging, in dogs, 553*
 myocardial infarct uptake and CPK levels, in dogs, 559*
 myocardial perfusion, in animals, 851*
 myocardial scanning, coronary artery disease, 575*
 myocardium, coincidence and noncoincidence counting, in dogs, 658
 radiation dosimetry, 527*, 1070
 scanning system parameters, 562*

SUBJECT INDEX

- Probe**
 mobile system for left ventricular ejection fraction, 289, 531*
 ultrasound guidance system, 562*
- Prostate**
 cancer, ^{99m}Tc-diphosphonate bone scanning, 579*
³H- and ¹¹C-putrescine distribution, in rats, 337
 steroid structural requirements, 570*
⁶⁷Zn imaging, 495, 496
- Protein**
 binding, ⁷⁶Se, 501*
¹¹C labeling, 425
- Pyrogens**
 Limulus test, cisternography agents, 809
 Limulus test sensitivity, 552*
- Pyrophosphate** *see Phosphorous-32; Technetium-99m, pyrophosphate*
- Quality control**
 chromatographic strip counter, 225
 chromatography of ^{99m}Tc-diphosphonates, 584*
 comparison of ⁶⁷Ga-citrate preparations, 580*
 fibrinogen, single donor, 562*
 Limulus test, cisternography agents, 809
 Limulus test sensitivity, 552*
 programs for imaging, 957
 radioassay of ¹²⁵I, 952
 radiometric sterility assay, 798
 scintillation cameras, 564*; bar phantom, 531*; field flood, 513*
 tests and procedures for medical byproduct material licenses, 517*
¹³⁵Xe clinical laboratory contamination, 804*
 workshops, 550*
- Quinoline**
 -analogs, ¹²⁵I-, distribution, in mice, 530*
- Radiation damage**
^{99m}Tc, mouse fetus, newborn and progeny, 544*
- Radiation dosimetry**
¹⁹⁶Au in liver disease, MIRD, 173
²⁰⁴Bi-, ²⁰⁸Bi-citrate, 515*
 bone agents, 502*
 brain tumor agents, in mice, 200
¹⁴C-albumin synthesis measurement test, 642
⁵⁷Co-bleomycin, 550*, 1058
 DTPA cisternography agents, 101, 570*, 1177
⁶⁷Ga-citrate, 550*
⁶⁷Ga-citrate, placental transfer, in animals, 581*
 gastrointestinal tract model, 853*
¹⁹⁷Hg-, ²⁰³Hg-chlormerodrin, MIRD, 1095
¹²⁵I, ¹²⁴I, ¹²⁵I, ¹²⁹I, ¹³⁰I, ¹³¹I, ¹³²I, as sodium iodide, MIRD, 857
¹²⁵I-, ¹²⁴I-, ¹²⁹I-, ¹³⁰I-, ¹³¹I-rose bengal, MIRD, 1214
¹²⁵I-bleomycin, 550*
¹²⁵I-cholesterol, 247, 248
¹²⁵I-diphenylhydantoin for pancreas, 775
¹¹¹In-bleomycin, 550*, 554*, 854*
¹¹¹In-citrate bone marrow imaging, dose to gonads, 769
 myocardial agents, 151, 527*, 553*, 1070
 normalization of concentration data, 247, 248, 958
⁷⁶Se-selenite, 846
 specific absorbed fraction computation, 492
 specific activity effects, 541*
^{99m}Tc-bleomycin, 414
^{99m}Tc-DMSA kidney imaging, 28, 357
^{99m}Tc kidney agents, 357
^{99m}Tc-S colloid in liver disease, MIRD, 108A
²⁰¹Tl, 151, 527*, 553*, 1070, 1089, 1090
 Xe and Kr radionuclides, 143
¹³⁵Xe inhalation, dose to lungs, 580*
¹³⁵Xe, ¹³⁷Xe, ¹³⁸Xe for lung studies, 780
¹⁶⁹Yb-DTPA, intrathecal, 570*; to brain, 101
- Radiation safety**
 procedures, medical byproduct material licenses, 517*
- Radiation therapy**
 effect on bone uptake of ^{99m}Tc-polyphosphate, 501*
 effect on salivary gland uptake of ⁶⁷Ga-citrate, 514*
 splenic response, ^{99m}Tc-S colloid, 123
- Radioassay**
 human chorionic gonadotrophin, 500*, 501*
¹²⁵I, small samples, 952
 total serum Fe binding capacity, 583*
 TSH, T₃ in pernicious anemia, 549*
 T₃, 514*, 662
 T₃, T₄, TSH following thyroid therapy, 568*
- Radioimmunoassay**
 alpha-fetoprotein, 805*, 1094*
 book review, 498
 carcinoembryonic antigen, 1094*; in ulcerative proctocolitis, 1094*; in metastatic breast carcinoma, 579*
 computer system, 559*
 digoxin, 559*; post mortem, 1212*
 estrogen, 500*
 gastrin, 805*
 gentamicin, 968*
³H-, quench correction, 570*
 hepatitis B, ¹²⁵I, 513*
 human chorionic gonadotrophin, 500*, 501*
 liquid scintillation vial design, 963
 motilin, in dogs, 1094*
 prostaglandins in mouse neuroblastoma, 83
 trichinosis diagnosis, 501*
 vitamin B₁₂, toadfish serum binding, 541*
- Radiometric assay**
¹⁴C-DOPA, blood metabolism, 576*
 equipment, 517*
 lymphocyte metabolism, 576*
 M. lepraemurium metabolism, 518*
 M. tuberculosis metabolism, 518*, 1189
 sterility, 798
 streptococcus Group A, 1085
- Radium-226**
 radiation dosimetry, 502*
- Record keeping**
 computer system, 275, 575*
- Red blood cell**
see also Technetium-99m, red blood cells
⁵¹Cr-, ³²P-, survival, in gerbils, 682
 effect of ¹³¹I thyroid therapy, 963, 964
⁵⁹Fe-, bone kinetics, in rats, 40
¹⁰⁰Ru-ruthenium red for spleen, preparation, distribution, in rats, 795
^{99m}Tc labeling in vivo, 518*, 541*
^{99m}Tc-pyrophosphate labeling, 435
 volume, normal, 46, 961, 962
- Resolution**
see also FWHM; Line spread function; Modulation transfer function
 scintillation cameras, 1206
 semiconductor camera, 53
 spatial, temporal, energy, ring detector transaxial tomograph, 1166
- Rose bengal**
see also Iodine-123; Iodine-131
 myocardial infarct uptake, in rats, 523*
 radioiodinated, radiation dosimetry, MIRD, 1214
- Rubidium-81**
 characteristics for myocardial imaging, 151
 myocardial imaging, in dogs, 553*
 myocardial perfusion during stress, 515*
 myocardial perfusion, in animals, 851*
 myocardium, coincidence and noncoincidence counting, in dogs, 658
 parameters for scanning systems, 562*
 radiation dosimetry, 527*, 1070
- Rubidium-82**
 characteristics for myocardial imaging, 151
 generator, 300, 429

- heart imaging, in dogs, 429
positron range, 1174
- Ruthenium-103**
-ruthenium-red-RBC for spleen, preparation, distribution, in rats, 795
- Salivary glands**
⁶⁷Ga-citrate, after radiation therapy, 514*
- Samarium-153**
tumor uptake, in mice, 528*
- Scalp**
tumor, on cerebral flow study, 462
- Scanner, fluorescent**, 530*
- Scanner, rectilinear**
comparison of ⁴²K and ⁸¹Rb for heart studies, 562*
computer image correction, 523*
isocount scanning and multilevel analysis, 938
modification, ⁶⁷Ga scans, 1192
optimum gray scale, 519*
whole-body, moving bed, 570*
4 × 5-in. film, 560*
- Scanning**
see also specific organ
interpretation, Gamut approach, 1121
omnidirectional, image processing, 685
- Scatter**
computer image correction, 523*
dual-window ^{99m}Tc imaging, 513*
fraction measurement, ^{99m}Tc, camera, 535*
Fresnel zone plate imaging, 183
subtraction, effect on image contrast, 102
- Schilling test**
consecutive day, 495
- Selenium-75**
-pancreozymin, pancreas function test, 1093*
plasma protein binding, 501*
-selenite, brain scanning, 331
-selenite, radiation dosimetry, 846
-selenocholesterol, adrenal gland uptake, in animals, 565*
-selenocysteine derivatives, pancreas imaging, 933
- Selenium-75, selenomethionine**
-D-, pancreas imaging, 933
pancreas dynamics in diabetes mellitus, 270
pancreas imaging, pseudocyst, 326; tumor, 533*
pancreas scanning, 1090
tumor imaging, 1212*
tumor uptake and viability, in rats, 532*
- Skin**
flap, blood flow, radiolabeled microspheres, in dogs, 1212*
- Skull**
Paget's disease, ^{99m}TcO₄⁻ and -polyphosphate imaging, 619
- Sodium-22**
radiation dosimetry, 502*
- Species**
differences, effect of iodination level of fibrinogen, 534*
differences, myocardial uptake, 529*
- Spleen**
delayed rupture, ^{99m}Tc-S colloid imaging, 912
encasement by tumor, ^{99m}Tc-S colloid image, 718
imaging, anatomic variant artifact, 99, 100
imaging in hemangioendotheliomatosis, 915
¹¹³In uptake, 1204, 1205
kala-azar, ^{99m}Tc-S colloid, ⁶⁷Ga-citrate imaging, 1128
-lung interface, ^{99m}Tc-S colloid, -microspheres, imaging, 822
perfusion, in hypersplenism, ^{99m}Tc-S colloid, 555*
response to radiation therapy, ^{99m}Tc-S colloid, 123
¹⁰⁸Ru-ruthenium red-RBC, preparation, distribution, in rats, 795
scan, splenogonadal fusion, ^{99m}Tc-S colloid, 922
scanning, focal defects, ⁶⁷Ga-citrate, ^{113m}InCl₃, ¹¹¹In-bleomycin, 583*
scanning, Hodgkin's disease, ^{99m}Tc-S colloid, 457, 1212*
small, etiology, pathogenesis, 571*
splenectomy, effect of ^{99m}Tc-S colloid image, 194
^{99m}Tc-S colloid uptake in mucopolysaccharidoses, 542*, 1002
-to-liver ratio, ^{99m}Tc-S colloid uptake, in cirrhosis, 802*
^{99m}Tc-RBC imaging, 512*
- Sterility** *see Quality Control*
- Stomach** *see Gastrointestinal tract*
- Streptokinase** *see Iodine-123; Iodine-125; Iodine-131; Technetium-99m*
- Strontium-82**
-⁸⁶Rb generator, 300, 429
- Strontium-85**
bone imaging, 503*
bone scanning in malignancy, 559*
LSF, 649
-microspheres, bone blood flow, in rats, 40
-microspheres, myocardial perfusion, in animals, 851*
-nitrate, scan in dermatomyositis, 467
- Strontium-87m**
bone imaging, chemotherapy response monitoring, 191
bone scanning in Hodgkin's disease, 852*
-citrate, secretion into serous fluids, 1208
- Strontium-89**
in ^{99m}TcO₄⁻ eluate, 571*
- Strontium-90**
in ^{99m}TcO₄⁻ eluate, 571*
radiation dosimetry, 502*
- Sulfur-35**
-cyclamate metabolism, in rats, 970*
-dopamine analog for adrenal glands, distribution, in rats, 1147
- Synovium** *see Joint*
- Technetium-99**
carrier, ^{99m}Tc-gluconate and -diphosphonate distribution, in rats, 478
in ^{99m}TcO₄⁻ generator eluate, 570*, 639
- Technetium-99m**
-bleomycin, benign process uptake, 414
-bleomycin, ^{99m}Tc-pyrophosphate labeling, 435
-bleomycin, tumor imaging, 414, 503*, 551*
-bleomycin, tumor uptake, compared to ³H- and ⁶⁴Cu-bleomycin, in rats, 127
bone agents, current literature, 502*
-calcein blue, distribution, kidney uptake, in rabbits, 357
-caseidin, distribution, kidney uptake, in rabbits, 357
-citrate, brain imaging, 526*
-citrate, tumor uptake, in mice, 534*
collecting system evaluation in renal transplants, 557*
collimator for myocardial imaging, 531*
-colloid aerosol, imaging obstructive pulmonary disease, 546*
-Cu-HEDSPA for bone, preparation, distribution, in animals, 520*
detection efficiency, single and annihilation photon systems, 210
-dihydrothioctic acid, myocardial infarct uptake, in rats, 523*
-diphosphonate, *see Technetium-99m, diphosphonate*
-DMSA, *see Technetium-99m, dimercaptosuccinic acid*
-DTPA *see Technetium-99m, DTPA*
-Fe ascorbate, kidney imaging, 357
-Fe-ascorbic acid and -DTPA complex, brain tumor uptake, radiation dosimetry, in mice, 200
-Fe-ascorbic acid, kidney autoradiography, in rabbits, 554*
-Fe hydroxide, perfusion in pulmonary embolism, 503*
fibrin, for thrombus, 521*
-fibrinogen, electrolytic preparation, chemistry, 343, 534*
-glucoheptonate, *see Technetium-99m, glucoheptonate*
-gluconate, distribution, kidney uptake, in rabbits, 357
-gluconate, effect of ⁹⁹Tc on distribution, in rats, 478
-gluconate, tumor imaging, in children, 552*
-hepatobiliary agents, comparison, in baboons, 577*

SUBJECT INDEX

- HSA, *see Technetium-99m, albumin*
- image intensifier camera response, 541*
- imidodiphosphate, bone imaging, 1137
- imidodiphosphate for bone, distribution, in animals, 574*
- iminodiacetic acid analog for hepatobiliary imaging, distribution, in animals, 533*
- iminodiacetic acid complexes, preparation, distribution, in animals, 546*
- inulin, distribution, kidney uptake, in rabbits, 357
- lactobionate, distribution, kidney uptake, in rabbits, 357
- leukocytes, labeling, 530*
- leukocytes, abscess and inflammation uptake, in dogs, 527*
- lymphocytes, preparation, distribution, in rabbits, 530*
- MAA, *see Technetium-99m, macroaggregated albumin*
- mannitol, distribution, kidney uptake, in rabbits, 357
- mercaptoisobutyric acid, compared to ¹³¹I-rose bengal, 686, 687
- mercaptoisobutyric acid, myocardial infarct uptake, in rats, 523*
- multidentate phosphates for bone, distribution, in animals, 540*
- penicillamine, kidney uptake, in rats, 531*
- penicillamine, myocardial infarct uptake, in rats, 523*
- pertechnetate, *see Technetium-99m, pertechnetate*
- phosphate compounds, *see also Technetium-99m, diphosphate; Technetium-99m, polyphosphate; Technetium-99m, pyrophosphate*
- phosphate compounds, bone scanning in lymphoma, 555*; in breast cancer, 532*
- phosphate compounds, distribution comparisons, in animals, 1137
- phosphate compounds, soft-tissue tumor imaging, 551*, 1087
- photopeak plus backscatter imaging, 513*
- polyamino acid-vesicle survival, in mice, 483
- polyphosphate, *see Technetium-99m, polyphosphate*
- polystyrene-TETA complex, gastric emptying, 575*
- pyridoxylidene-glutamate, gallbladder imaging, 543*, 728
- pyridoxylidene-glutamate, preparation, gallbladder imaging, in animals, 720
- pyrophosphate, *see Technetium-99m, pyrophosphate*
- radiation damage, mouse and progeny, 544*
- RBC, *see Technetium-99m, red blood cells*
- resolution indices, scintillation camera images, 228
- Sb colloid, mammary lymph node drainage, 526*
- scatter fraction measurement, 535*
- Schiff's bases, preparation, hepatobiliary imaging, in animals, 520*
- Sn(II) reduced, effect on ^{99m}TcO₄⁻ distribution, 518, 541*, 579*
- Sn(II) reduced, valence state, 555*
- specific absorbed fraction, computation, 492
- streptokinase, preparation, testing, 474, 557*
- sulfonyleureas, preparation, distribution, in rats, 561*
- sulfur colloid, *see Technetium-99m, sulfur colloid*
- tetracycline, *see Technetium-99m, tetracycline*
- thio-glycerol, myocardial infarct uptake, in rats, 523*
- thiomalic acid for kidney, preparation, distribution, in rats, 531*
- thymocytes, distribution, in mice, 633
- transferrin, tumor uptake and distribution, in mice, 560*
- trifluoroacetylacetate, distribution, in animals, 561*
- trimetaphosphate for bone, distribution, in animals, 1043
- vesicles, preparation, distribution, in animals, 488
- Technetium-99m, albumin**
- arthroscintigraphy, popliteal cyst, 580*
- cisternography, aseptic meningitis, 809
- distribution, kidney uptake, in rabbits, 357
- ECG gated heart imaging, 95, 368, 865
- electrolytic preparation, chemistry, 534*
- labeling, role of sulfhydryl group, 573*
- left ventricular ejection fraction, 527*
- left ventricular function, 386
- pericardial effusion imaging, 969*
- tumor uptake and distribution, in mice, 560*
- ventriculography, hydromelia, 581*
- Technetium-99m, dimercaptosuccinic acid**
- dual-isotope kidney studies, with ¹⁹⁷HgCl₂, 571*
- kidney autoradiography, in rabbits, 554*
- kidney imaging, 28, 357
- kidney uptake compared to other agents, in rats, 531*
- myocardial infarct imaging, in dogs, 582*
- myocardial infarct uptake, in rats, 523*
- Technetium-99m, diphosphonate**
- amyloid uptake, 238
- bone graft and soft-tissue imaging, in dogs, 563*
- bone imaging, compared to other agents, 744, 803*
- bone imaging, kinetics, 744
- bone imaging, metastatic tumor, 986
- bone imaging, renal transplant, 538*
- bone imaging rhinocerebral mucormycosis, 925
- bone scanning, avascular necrosis, joint disease, 574*
- bone scanning in breast carcinoma, 529*
- bone scanning in malignant melanoma and prostate cancer, 579*
- bone scanning in osteosarcoma, 423
- bone scanning in Paget's disease, 569*
- bone scanning, after total hip replacement, 522*
- bone scanning, solitary lesion, 522*
- brain imaging, 526*, 705
- chromatographic evaluation, 584*, 1087, 1088
- compared to other bone agents, in animals, 1137
- jaw lesion imaging, 511*
- kidney activity in Paget's disease, 582*
- kidney images on bone study, 1109
- kinetics, in man, 744, 886
- methylene-, compared to other agents for bone imaging, 744
- methylene-, distribution, in animals, 1137
- myocardial infarct, tomography, 581*
- myocardial infarct uptake, in animals, 132, 523*, 975
- pleural effusion uptake, 883
- soft-tissue tumor uptake, 536*, 568*
- soft-tissue uptake in Fe-dextran injection sites, 577*
- soft-tissue uptake, in rats, 58
- soft-tissue uptake in renal failure, 515*
- ^{99m}Tc effect on distribution, in rats, 478
- toxicity, 444
- tumor detection, image subtraction, ⁶⁷Ga-citrate, 523*
- uptake mechanism, enzymatic, 352
- Technetium-99m, DTPA**
- brain imaging, 320, 536*, 564*, 868
- brain tumor uptake, radiation dosimetry, in mice, 200
- cisternography, spinal fluid leak, 616
- combined cerebral death and kidney function, 538*
- CSF drainage, in rabbits, 539*
- kidney imaging, 234, 357, 525*, 947, 1158
- kidney transplant, ERPF, 1115
- kidney uptake, in animals, 531*, 554*
- radiation dosimetry, cisternography, 1177
- ureteral fistula imaging, 612
- Technetium-99m, glucoheptonate**
- brain imaging, 580*
- kidney autoradiography, in rabbits, 554*
- kidney imaging, 357
- kidney uptake, in rats, 531*
- myocardial infarct imaging, 563*, 975; in dogs, 582*
- myocardial infarct tomography, 581*
- myocardial infarct uptake, in animals, 875, 975
- tumor uptake and viability, in rats, 532*
- Technetium-99m, macroaggregated albumin**
- cardiac shunt determination, 528*
- liver-lung interface, 1027
- lung, Fresnel zone plate imaging, 183
- lung image "hot spots", 241
- lung image in hemangioendotheliomatosis, 915

- lung perfusion in obstructive airways disease, 574*
- lung perfusion in tetralogy of Fallot, 510*
- myocardial infarct imaging, Fresnel zone plate, in dogs, 183
- myocardial perfusion, 851*
- particle dose effects, in dogs, 526*
- pericardial perfusion imaging, 969*
- systemic-pulmonic shunt assessment, in children, 528*
- tumor detection, bloodflow study, 472
- venography, in dogs, 563*
- Technetium-99m, microspheres**
- anaphylactoid reaction, 236
- arteriovenous shunting in a hypernephroma, 569*
- blood flow, hip, pseudoarthrosis, 167
- cardiac shunt determination, 528*
- CSF drainage, in rabbits, 539*
- leukocytes, preparation, inflammation uptake, in animals, 527*
- lung image, lung-spleen interface, 822
- lung image, wide mediastinum, 324
- lung imaging, arteriovenous fistulas, 328
- lung imaging, statistics, 503*
- lung perfusion, in pulmonary embolism, 533*, 1017
- mini-, kit, 542*
- multi-isotope lung studies, ^{199}Hg , ^{67}Ga , 571*
- myocardial perfusion during stress, 510*
- myocardial tomography, in dogs, 568*
- placental blood flow distribution, 539*
- tumor detection, image subtraction, ^{67}Ga -citrate, 523*
- venography, 579*, 993
- Technetium-99m, pertechnetate**
- angiocardigram, dual-channel technique, 789
- angiocardigram, persistent left superior vena cava, 469
- bone uptake mechanisms, in rats, 40
- brain imaging, compared to other agents, 526*, 564*, 705
- brain imaging, computer correction, 523*
- brain imaging, "doughnut" sign, 432
- brain imaging, glycopyrrolate blocking dose, 819
- brain imaging, in disease, 573*, 619, 833, 915
- brain imaging, rapid sequence, in children, 511*
- brain perfusion, anomalous venous return, 573*, 622
- brain perfusion, cerebral vessel displacement, 86
- brain perfusion, hemorrhage, 459
- brain perfusion, quantitative, 525*
- brain perfusion, scalp flow elimination, 679
- brain scan, blood level effects, 553*, 676
- brain scanning, cerebral infarct, 1210*
- brain scanning in infection, 580*
- brain scanning, tumor therapy response, 1210*
- brain, subdural hematoma uptake, compartmental model, 571*
- brain tumor, CVD differentiation, 549*, 854*
- brain tumor uptake, radiation dosimetry, in mice, 200
- breast imaging, 293
- cardiac shunt evaluation, in children, 511*
- cisternography artifact, 434
- CSF drainage, in rabbits, 539*
- effect of previously administered Sn(II), 541*, 579*, 690
- gastric mucosa secretion, in dogs, 535*
- generator eluate, ^{90}Sr , ^{90}Sr contamination, 571*
- joint imaging in periarteritis nodosa, 804*
- kidney transplant monitoring, 529*
- lacrimal drainage, 605
- liver blood flow, veno-occlusive disease, 1130
- Meckel's diverticulum diagnosis, 515*
- pulmonary arteriovenous malformation imaging, 180
- secretion into isolated bowel loops, in rats, 574*
- secretion site, in stomach, 1204
- sinusitis concentration, 89
- Sn(II) reduction, valence state, 555*
- ^{99}Tc carrier, 543*, 570*, 639
- thyroid, early kinetics, 517*
- thyroid imaging, 512*, 563*, 918
- tumor uptake and viability, in rats, 532*
- Technetium-99m, polyphosphate**
- bone imaging, compared to other agents, 744, 803*
- bone imaging, Fresnel zone plate, 183
- bone imaging, kinetics, 744
- bone imaging, simultaneous kidney images, 1109
- bone scanning, cold lesions, 1013
- bone scanning in arthritis, 510*; Hodgkin's disease, 852*;
osteosarcoma, 423
- bone scanning, metastases, 1211*
- bone scanning, solitary lesion, 522*
- bone uptake, radiation therapy effect, 501*
- bone uptake, resorbing, in rats, 528*
- breast mass imaging, 581*
- compared to other bone agents, distribution, in animals, 1137
- femoral scanning in cup arthroplasty, 565*
- jaw lesion imaging, 511*
- kidney sign on bone scan, 454, 602
- kinetics, compared to ^{18}F , 688, 689
- kinetics, whole-body, 109, 958
- lung tumor uptake, 1021
- muscle uptake in polymyositis, 1125
- myocardial infarct imaging, 518*, 851*
- myocardial infarct uptake, in dogs, 132
- secretion into serous fluids, 1208
- soft-tissue scans, carcinosis universalis of dermatomyositis, 568*
- soft-tissue uptake in renal failure, 515*
- tumor uptake and viability, in rats, 532*
- Technetium-99m, pyrophosphate**
- bleomycin and red blood cell labeling, 435
- bone imaging, compared to other agents, 744, 803*
- bone imaging, in metabolic disease, 33, 543*
- bone imaging, in sacro-iliac disease, 545*
- bone scan, optimal time of study, 879
- bone scanning, in malignancy, 559*, 1211*
- bone scanning, in trauma, 538*
- bone tumor imaging, 503*
- bone uptake mechanisms, in rats, 40
- bone uptake parameters, 520*
- brain tumor, CVD differentiation, 549*
- breast lesion uptake, 536*
- compared to other bone agents, distribution, in animals, 1137
- interference with $^{99\text{m}}\text{TcO}_4^-$ brain imaging, 518*
- kidney images on bone study, 161, 1109
- myocardial infarct imaging, 518*, 521*, 556*; in dogs, 582*
- myocardial infarct quantitation, in animals, 573*, 568*
- myocardial infarct tomography, 581*
- myocardial infarct uptake and CPK levels, in dogs, 559*
- myocardial infarct uptake, effect of blood flow, in dogs, 558*
- myocardial infarct uptake, in animals, 132, 523*, 548*
- myocardial infarct uptake, mechanism, 525*
- myocardial infarct uptake rate, 512*
- myocardial uptake, 944
- soft-tissue uptake, in dermatomyositis, 467
- soft-tissue uptake, in renal failure, 515*
- tumor uptake and viability, in rats, 532*
- whole-body kinetics, 109
- Technetium-99m, red blood cells**
- blood level effect on brain scans, 676
- clinical use evaluation, 512*
- ECG gated left ventricular blood flow, 865
- electrolytic preparation, 533*
- in vivo labeling, 518*, 541*
- kit, 570*
- local cerebral blood volume, 1092*
- preparation, in vivo stability, 564*
- radiometric sterility testing, 798
- Technetium-99m, sulfur colloid**
- bone marrow scanning, avascular necrosis, joint disease,

- 574*; in malignancy, 559*; nonhematologic disease, 535*
- bone marrow scanning, compared to ^{111}In and ^{59}Fe , 66
- bone marrow scanning, effect of cellularity, 535*
- chromatography, paper strip counter, 225
- CSF drainage, in rabbits, 539*
- gastroesophageal reflux quantitation, 547*
- image subtraction, ^{67}Ga -citrate tumor detection, 523*, 548*
- kidney transplant monitoring, 529*
- kidney uptake mechanism, 709
- leukocytes, inflammation uptake, 566*
- leukocytes, labeling, inflammation uptake, in dogs, 527*
- liver and spleen imaging, 525*, 915, 1128
- liver and spleen perfusion in hypersplenism, 555*
- liver blood flow, 71, 595, 626, 910
- liver blood flow, quantitative, in dogs, 572*
- liver-heart imaging, 896
- liver imaging, accuracy, 62, 450, 1204
- liver imaging, benign disease, 831, 1029, 1130
- liver imaging, Fresnel zone plate, 183
- liver imaging, malignant disease, 669, 853*, 949
- liver imaging, splenectomy effect, 194
- liver scanning, focal defects, 1007; foramen of Morgagni hernia, 261; hepatic artery aneurysm, 1027; pseudo-tumor, 799
- liver size estimation, in rats, 380
- liver uptake, effect of injection site, in rats, 377
- liver uptake, mechanism, in rats, 532*
- lung retention, 188, 249, 250, 439, 440
- lung scan, histiocytosis X, 332
- peritoneal cavity distribution, pre- ^{32}P -chromic phosphate therapy, 318
- phagocyte labeling, 5
- RES function in mucopolysaccharidoses, 542*, 1002
- sizing, 251
- spleen imaging, hemangioendotheliomatosis, 915; Hodgkin's disease, 457; tumor encasement, 718
- spleen imaging, radiotherapy effects, 123
- spleen/liver ratio in cirrhosis, 802*
- spleen-lung interface evaluation, 822
- splenogonadal fusion, 922
- vertebral compression fracture uptake, 93
- Technetium-99m, tetracycline**
- mammalian cell autoradiography, effect of viability, 315
- myocardial infarct imaging, in dogs, 582*
- myocardial infarct uptake, in animals, 523*, 975, 1144; bloodflow effect, 558*
- myocardial uptake mechanism, 525*
- tumor uptake, viability, in rats, 532*
- Telephone**
- image transmission, 523*, 542*, 549*
- Testes**
- radiation dose, ^{198}Au colloid, 173; ^{111}In -citrate, 769; ^{197}Hg - ^{203}Hg -chlormerodrin, 1095; $^{99\text{m}}\text{Tc}$ -S colloid, 108A; radioiodides, 857; radioiodinated rose bengal, 1214
- splenogonadal fusion, $^{99\text{m}}\text{Tc}$ -S scan, 922
- Testosterone**
- analogs for prostate, in rats, 570*
- Tetracycline**
- see also *Iodine-131; Technetium-99m, tetracycline*
- ^3H -, myocardial infarct uptake mechanism, 525*
- Thallium-199**
- characteristics for myocardial imaging, 151
- Thallium-201**
- collimator for myocardial imaging, 531*
- distribution, in animals, 156
- distribution, myocardial imaging, 513*, 565*
- intestinal concentration, 545*
- ionophores, for heart imaging, distribution, in mice, 567*
- myocardial imaging, in dogs, 539*, 553*
- myocardial perfusion, in animals, 851*
- preparation, nuclear parameters, 151
- radiation dosimetry, 527*, 1070, 1089, 1090
- Therapy**
- see also *Chemotherapy; Radiation therapy*
- ^{198}Au , synovium, 100
- ^{125}I -iododeoxyuridine for tumor, in mice, 516*
- ^{131}I , effect on thyroid function, 568*
- ^{131}I -thyroid, effect on RBC, 963, 964
- ^{131}I , thyroid, low dose, 549*, 572*
- Na-EHDP, Paget's disease, 569*
- ^{32}P -chromic phosphate synovectomy, 442
- ^{32}P -chromic phosphate, $^{99\text{m}}\text{Tc}$ -S loculation, 318
- ^{32}P -diphosphonate distribution, in rats, 532*
- ^{32}P , parathormone, bone tumors, 519*
- Thermography**
- cold thyroid nodules, 536*
- venous thrombosis, 438, 439, 566*
- Thorax**
- ^{111}In -bleomycin tumor imaging, 854*
- Thrombus**
- and cyst differentiation, $^{99\text{m}}\text{Tc}$ -HSA arthroscintigraphy, 580*
- animal model, 578*
- coronary artery, ^{125}I -fibrinogen image, 804*
- ^{125}I -fibrinogen imaging, 524*
- ^{125}I -, ^{125}I -, ^{131}I -streptokinase kinetics, in animals, 136
- ^{125}I -fibrinogen, single donor, safety, 562*
- ^{125}I -, ^{131}I -, ^{77}Br -fibrinogens, uptake, in animals, 542*
- ^{125}I -, ^{131}I -fibrinogen uptake, in animals, 370, 756
- radioiodofibrin uptake, in dogs, 521*
- $^{99\text{m}}\text{Tc}$ -autologous fibrinogen, electrolytic preparation, 343
- $^{99\text{m}}\text{Tc}$ -MAA venography, in dogs, 563*
- $^{99\text{m}}\text{Tc}$ -streptokinase preparation, 474, 557*
- thermography, 438, 439, 566*
- venograms combined with lung scanning, ^{131}I -MAA, $^{99\text{m}}\text{Tc}$ -microspheres, 579*
- Thymocytes**
- $^{99\text{m}}\text{Tc}$ -, ^{51}Cr -, distribution, in mice, 633
- Thymus**
- $^{99\text{m}}\text{Tc}$ -, ^{51}Cr -thymocytes, distribution, in mice, 633
- Thyroid**
- accessory, ^{131}I scan, 1135
- autonomously functioning lesions, 1092*
- carcinoma, metastatic, liver imaging, 669, 919
- cold nodule imaging, ^{131}I , $^{99\text{m}}\text{TcO}_4^-$, 918; ^{67}Ga -citrate, 793
- cold nodule, $^{113\text{m}}\text{In}$ perfusion study, 1187
- cold nodule scan, oblique projection, 713
- cold nodule, thermography, 536*
- ^{132}Cs scan and gray-scale echography, 522*
- early kinetics of I and $^{99\text{m}}\text{TcO}_4^-$, 517*
- effective thyroxine ratio, in pediatrics, 955
- fluorescent scanning, 530*, 557*
- function in pernicious anemia, 549*
- ^{131}I therapy, effect on RBC, 963, 964
- ^{131}I therapy, low dose, 549*, 572*
- ^{131}I therapy, post-therapy function, 568*
- imaging, Fresnel zone plate, ^{125}I , 183
- imaging, refocused images, 548*
- imaging, ^{125}I and $^{99\text{m}}\text{TcO}_4^-$, 512*; $^{99\text{m}}\text{TcO}_4^-$, 512*, 563*
- phantom for quality control program, 957
- phantom imaging, dual window, 513*; high count rate positron, 653
- radiation dosimetry, radioiodides, MIRD, 857
- serum TSH response to TRH, 538*
- thyrotoxicosis due to "silent thyroiditis", 803*
- thyroxine-binding globulin capacity, 1076
- tomography, coded-aperture, scintillation camera, 402
- T₁ radioassay, 514*, 558*, 662
- uptake, ^{125}I , 562*
- uptake, ^{131}I , depression by contrast media, 802*
- uptake, ^{131}I , normal range, 560*
- Thyroid stimulating hormone**
- response to TRH, 538*
- serum levels, in pernicious anemia, 549*
- thyroid function post ^{131}I therapy, 568*

- Thyroxine**
 -binding globulin capacity, 1076
 -binding globulin, ^{125}I -diphenylhydantoin kinetics, 305
 effective thyroxine ratio, in pediatrics, 955
 levels in pernicious anemia, 549*
 serum, TSH response to TRH in disease, 539*
 thyroid function post ^{131}I -therapy, 568*
- Tin**
 (II), previously administered, effect on $^{99\text{m}}\text{TcO}_4^-$ distribution, 518*, 541*, 579*
 (II), reduced Tc valence state, 555*
- Tomography**
 axial, computerized, 1093*, 1210*
 brain, Mark IV system, 543*
 carcinoma of the hilum, 576*
 coded aperture, camera, 402
 internal absorption corrections, 540*
 multiwire proportional chamber positron camera, 546*
 myocardial infarct, $^{99\text{m}}\text{Tc}$ -diphosphonate, -pyrophosphate, -gluconate, ^{18}F , 581*
 myocardial, $^{99\text{m}}\text{Tc}$ -microspheres, in dogs, 568*
 transaxial, editorial, 179
 transaxial, positron, 210, 521*, 558*
 transaxial reconstruction by iterative techniques, 555*
 transaxial, ring detector system, 1166
 unfocused plane subtraction, 517*
 3D image reconstruction, 80
- Toxicity**
 anaphylactoid reaction to $^{99\text{m}}\text{Tc}$ -microspheres, 236
 Bleomycin, 414
 digoxin, radioimmunoassay, post mortem, 1212*
 diphosphonate, 444, 744; methylene-, 744
 ^{125}I -iodocholesterol, 928
 imidodiphosphate, 1137
 pyridoxylidene-glutamate, 720
 stannous glucoheptonate, 875, 877
 trimetaphosphate for bone, 1043
- Transferrin** *see Technetium-99m*
- Transmission**
 bone mineral content, photon absorption, 891
 imaging, 3D Fourier convolution reconstruction, noise, 529
- Transplant** *see Kidney, transplant*
- Trauma**
 abdominal, liver and spleen imaging, in children, 525*
 bone scanning, 538*
 hepatic artery aneurysm, $^{99\text{m}}\text{Tc}$ -S colloid, $^{99\text{m}}\text{Tc}$ -MAA, 1027
 to head, ^{135}Xe in saline, cerebral blood flow, 803*
 to spleen, delayed rupture, $^{99\text{m}}\text{Tc}$ -S colloid image, 912
- Triiodothyronine** *see T₃*
- Tritium** *see Hydrogen-3*
- Tuberculosis**
 CNS, ^{67}Ga -citrate, $^{99\text{m}}\text{TcO}_4^-$ scanning, 580*
 mycobacterium, radiometric assay, 518*, 1189
- Tumor**
 adrenal carcinoma, ^{125}I -iodocholesterol uptake, 566*
 alpha-fetoprotein levels, liver disease, 949, 1094*
 antibody, ^{125}I -, preparation, distribution, in animals, 544*
 bleomycin fractions, properties, 526*, 1033
 bone, comparison of agents, 803*
 bone, imaging, 503*
 bone, $^{99\text{m}}\text{Tc}$ -diphosphonate kinetics, 886
 brain, chemotherapy response, $^{99\text{m}}\text{TcO}_4^-$ scans, 1210*
 brain, comparison of 16 agents, in mice, 200
 brain, medulloblastoma, 520*
 brain, metastatic, steroid medication effect, 320
 brain, metastatic, $^{99\text{m}}\text{TcO}_4^-$ scanning, 960, 961
 brain, scan, blood activity contribution, 553*
 brain, $^{99\text{m}}\text{Tc}$ -glucoheptonate imaging, 580*
 breast, imaging, ^{67}Ga -citrate, 293, 996; ^{111}In -bleomycin, 578; $^{99\text{m}}\text{TcO}_4^-$, 293; $^{99\text{m}}\text{Tc}$ -polyphosphate, 581*
 breast, malignant, benign differentiation, 578*
 breast, metastatic, CEA radioimmunoassay, 579*; ^{67}Ga -citrate scanning, 560*; liver scanning, 802*; $^{99\text{m}}\text{Tc}$ -pyrophosphate bone imaging, 1158
 bronchogenic carcinoma staging, 538*
 ^{11}C -diphenylhydantoin, -hydroxydiphenylhydantoin scanning, 575*
 ^{11}C -tryptophan, preparation, 579*
 ^{14}C -fluorouracil uptake, in mice, 582*
 CEA radioimmunoassay, 550*, 579*, 1094*
 chemodectoma, $^{99\text{m}}\text{Tc}$ -MAA flow study, 472
 ^{67}Co -bleomycin fractions, distribution, in rats, 1033; melanoma uptake, in rats, 556*
 ^{67}Co -bleomycin scanning, 839, 1058
 eye, ^{32}P imaging, Cerenkov effect, 516*
 ^{67}Ga -citrate imaging, 414, 523*, 547*, 558*, 560*, 949; in children, 533*; in lymphoma, 255
 ^{67}Ga -citrate, $^{99\text{m}}\text{Tc}$ -S colloid subtraction technique, 523*
 ^{67}Ga -citrate uptake, benign tumor, 470
 ^{67}Ga -, ^{197}Hg -adriamycin, ^{67}Ga -chloride, ^{197}Hg -acetate uptake, in mice, 560*
 ^3H -prostaglandin E, A and arachidonic acid distribution, in mice, 83
 ^3H -, $^{99\text{m}}\text{Tc}$ -, ^{64}Cu -bleomycin uptake, in rats, 127
 hemangi endotheliomatosis, RES, kidney, brain imaging, 915
 hilum carcinoma, ^{67}Ga scans, 576*
 ^{125}I -bleomycin imaging, 524*
 ^{125}I -serum protein uptake, in mice, 560*
 ^{131}I -streptozotacin analog uptake, in hamsters, 535*
 ^{131}I -tetracycline uptake, in animals, 520*
 imaging agents, comparison, 1212*
 imaging, book review, 498
 ^{111}In -bleomycin and -chloride kinetics, in mice, 738
 ^{111}In -bleomycin imaging, 537*, 558*, 854*; in children, 554*
 ^{111}In -bleomycin uptake, 578*
 jaw, bone imaging, 511*
 kidney bloodflow study, $^{99\text{m}}\text{Tc}$ -MAA, 472
 kidney metastases, uptake of $^{99\text{m}}\text{Tc}$ -polyphosphate, 602
 liver primary, ^{67}Ga -citrate imaging, 949
 liver scintiangiography, ^{111}In -chloride, 533*; $^{99\text{m}}\text{Tc}$ -S colloid, 595
 lymphoma, bone scanning, 555*
 lymphoma, ^{67}Ga -citrate staging, 255
 melanoma, ^{125}I -quinoline analogs, distribution, in mice, 530*
 melanoma, ^{111}In -bleomycin scanning, 537*
 melanoma, ^{203}Pb -Tris, ^{67}Co -bleomycin, in hamsters, 556*
 meningioma, extracranial, $^{99\text{m}}\text{TcO}_4^-$ brain studies, 833
 metastatic to bone, ^{32}P , parathormone therapy, 519*; chemotherapy response, ^{87}Sr imaging, 191; $^{99\text{m}}\text{Tc}$ -compound imaging, 532*, 579*, 986, 1158, 1211*
 multiple myeloma, $^{99\text{m}}\text{Tc}$ -diphosphonate bone scanning, 579*
 neuroblastoma, prostaglandin radioimmunoassay, in mice, 83
 osteosarcoma, $^{99\text{m}}\text{Tc}$ -polyphosphate, -diphosphonate bone scans, 423, 1211*
 pancreas, ^{14}C -, ^{125}I -diphenylhydantoin imaging, 775
 pancreas, ^{67}Co -bleomycin, ^{76}Se -selenomethionine imaging, 533*
 pancreas, scanning evaluation, 568*
 pheochromocytoma, $^{99\text{m}}\text{Tc}$ -DTPA kidney angiography, 234
 posterior fossa, scanning, 556*
 prostate, ^{65}Zn imaging, 495, 496
 $^{196\text{m}}\text{Pt}$ -bleomycin complexes, uptake, in mice, 545*
 sarcoma, spleen encasement, $^{99\text{m}}\text{Tc}$ -S colloid image, 718
 scalp, uptake on cerebral flow study, 462
 size, semiconductor camera detection, 53
 ^{152}Sm uptake, in mice, 528*
 soft-tissue, $^{99\text{m}}\text{Tc}$ -polyphosphate uptake, 568*, 581*, 602, 1021
 $^{99\text{m}}\text{Tc}$ -bleomycin imaging, 414, 551*
 $^{99\text{m}}\text{Tc}$ -gluconate imaging, in children, 552*

SUBJECT INDEX

- ^{99m}Tc-Sn-citrate uptake, in mice, 534*
- ^{99m}Tc-sulfonylureas, preparation, distribution, in rats, 561*
- therapy, ¹²⁵I-iododeoxyuridine, in mice, 516*
- thyroid carcinoma, metastatic, liver imaging, 669, 919
- uptake, comparison of labeled bleomycins and ⁶⁷Ga-citrate, 524*
- uptake of ¹³¹I-tetracycline, ⁶⁷Ga and ^{99m}Tc-compounds, in rats, 532*
- viability, uptake of ²¹⁰Pb and ⁷⁵Se-selenomethionine, in rats, 532*
- viability, uptake of six agents, 532*
- T₃**
- kit, 514*, 558*
- levels in pernicious anemia, 549*
- radioassay, resin-strip, 662
- thyroid function post ¹³¹I therapy, 568*
- thyroxine-binding globulin capacity, 1076
- TSH response to TRH in thyroid disease, 538*
- Ultrasound**
- cold thyroid nodule studies, 713
- gamma-ray probe guidance, 562*
- gray-scale echography, thyroid, 522*
- left ventricular ejection fraction, 565*
- pancreatic disease, 563*
- Urinary tract**
- blind-ending ureteral duplication, ¹³¹I-Hippuran image, 208
- evaluation in renal transplants, ^{99m}Tc, ¹³¹I-Hippuran, 557*
- obstruction, in pregnancy, renogram, 803*
- radionuclide cystography, in children, 522*
- ureteral fistula, ^{99m}Tc-DTPA, ¹³¹I-Hippuran, 612
- vesicoureteral reflux, ¹³¹I-Hippuran, scintillation camera studies, 968*
- vesicoureteral reflux, radionuclide cystography, in children, 522*
- Vascular system**
- see also Thrombus*
- chemodectoma, ^{99m}Tc-MAA flow study, 472
- hemangioendotheliomatosis, 915
- obstructed mediastinal venous return, effect on brain bloodflow studies, 622
- peripheral, blood flow in occlusive disease, ¹³³Xe, 1211*
- peripheral, perfusion imaging, ^{99m}Tc-RBC, 512*
- peripheral perfusion, ischemic ulcer, ^{99m}Tc-microspheres, 993
- tetralogy of Fallot, ventilation/perfusion studies, 510*
- Ventriculography** *see Cerebrospinal fluid*
- Vesicles**
- polyamino acid and antibody interactions, survival, in mice, 483
- ^{99m}Tc-, preparation, distribution, in animals, 488
- Vitamin B₁₂**
- consecutive day Schilling tests, 495
- deficiency, ¹⁴C-formaldehyde, -propionate metabolism, in rats, 553*
- oyster toad fish serum binding, 541*
- serum, chicken serum binding assay, 551*
- White blood cells** *see Leukocytes; Lymphocytes*
- Whole body**
- Ca, neutron activation analysis, 196, 672
- imaging, scintillation camera, 582*
- scanner, unidirectional, 516*
- Xenon-122**
- radiation dosimetry, 143
- Xenon-123**
- radiation dosimetry, nuclear parameters, 143
- Xenon-125**
- radiation dosimetry, lung studies, 780
- preparation, characteristics, 143
- Xenon-127**
- nuclear parameters, 143
- radiation dosimetry, 143, 780
- Xenon-129m**
- nuclear parameters, radiation dosimetry, 143
- Xenon-131m**
- nuclear parameters, radiation dosimetry, 143
- Xenon-133**
- contamination in a clinical laboratory, 804*
- dose rate, 539*
- nuclear parameters, 143
- radiation dosimetry, 143, 780
- trioxide, Na xenate, Ba xenate, distribution, 545*
- Xenon-133, gas**
- calibrated dose dispenser, 1197
- lung ventilation in cystic fibrosis, 548*
- lung ventilation in hemangioendotheliomatosis, 915
- lung ventilation in obstructive disease, 567*, 574*
- lung ventilation in pulmonary artery banding, 577*
- lung ventilation in pulmonary embolism, 503*, 553*, 1017
- lung ventilation in tetralogy of Fallot, 510*
- lung ventilation, tidal breathing, 853*
- radiation dose to lungs, 580*
- regional cerebral blood flow, 1093*
- spirometer system, 551*
- upper and lower airways relationship, 570*
- Xenon-133, in saline**
- cerebral blood flow, infarct effect, 853*; in monkeys, 514*
- cerebral blood flow, regional, 264, 577*, 803*; data processing system, 386
- cerebral infarct imaging, in baboons, 852*
- eye blood flow, 517*
- inhalation injury in burn patients, 547*
- intrarenal blood flow, 899
- lung perfusion in pulmonary artery banding, 577*
- muscle blood flow, occlusive disease, 1211*
- placental blood flow, 968*
- regional myocardial blood flow, 536*, 567*
- Xenon-135**
- nuclear parameters, radiation dosimetry, 143
- X-ray**
- fluorescence, GFR, iothalamate, in dogs, 510*
- therapy, long-range effects, 512*
- Ytterbium-169**
- DTPA, brain tumor uptake, radiation dosimetry, in mice, 200
- DTPA, intrathecal retention, 570*
- DTPA, radiation dosimetry, cisternography, 101, 1177
- Yttrium-90**
- radiation dosimetry, 502*
- Zinc-69m**
- prostate imaging, 495, 496

INDEX TO ADVERTISERS

Analytical Development Associates Corp. Cupertino, Calif.	60A	Medi-Ray, Inc. Tuckahoe, N.Y.	46A
Atomic Energy of Canada Ottawa, Canada	26A	Micromedic Systems Horsham, Penn.	56A, 57A
Atomic Products Corp. Center Moriches, N.Y.	30A	C. V. Mosby Co. St. Louis, Mo.	18A
Baird-Atomic Bedford, Mass.	14A, 24A, 25A	New England Nuclear Boston, Mass.	8A, 16A, 17A, 68A, 69A, 72A
Brattle Instrument Corp. Cambridge, Mass.	IBC	Nise, Inc. Cerritos, Calif.	80A
Capintec, Inc. Mt. Vernon, N.Y.	1259	Nuclear Associates, Inc. Westbury, N.Y.	39A
CIS Radiopharmaceuticals Bedford, Mass.	14A, 15A	Nuclear Endocrine Labs. Cleveland, Ohio	73A
Cleon Corp. Needham, Mass.	32A, 33A	Ohio-Nuclear, Inc. Solon, Ohio	52A, 53A, 55A
Clinical Assays, Inc. Cambridge, Mass.	40A	Omnimedical Services, Inc. Paramount, Calif.	54A, 76A
Diagnostic Biochemistry San Diego, Calif.	43A	Oxford Labs. Foster City, Calif.	27A
Diagnostic Isotopes, Inc. Upper Saddle River, N.J.	2A	Picker Corp. Cleveland, Ohio	49A, 50A, 72B, 72C
Diagnostic Products Corp. Los Angeles, Calif.	22A	Procter & Gamble Cincinnati, Ohio	61A, 62A, 63A, 64A
Digital Equipment Corp. Maynard, Mass.	41A	Professional Education Assoc. Des Plaines, Ill.	51A
Dunn Instruments San Francisco, Calif.	3A	Radiochemical Centre Amersham, England	19A, 48A, 77A
Elscint, Inc. Palisades Park, N.J.	20A, 21A	Radx Corp. Houston, Texas	74A, 75A
G. E. Medical Systems Milwaukee, Wis.	36A, 37A	Raytheon Co. Burlington, Mass.	6A
Hoechst AG Frankfurt, Germany	5A	RCA/Photo Tubes Lancaster, Pa.	47A
Isolab, Inc. Akron, Ohio	38A	Schwarz/Mann Orangeburg, N.Y.	35A
Jasins & Sayles Associates Wellesley, Mass.	42A	Searle Radiographics, Inc. Des Plaines, Ill.	58A, 59A, BC
Kevox Corp. Burlingame, Calif.	44A	SNM Placement New York, N.Y.	65A, 66A, 67A
Mallinckrodt, Inc. St. Louis, Mo.	31A	E. R. Squibb & Sons, Inc. Princeton, N.J.	10A, 11A, 70A, 71A
Matrix Instruments Closter, N.J.	23A, 79A	Technical Associates Canoga Park, Calif.	34A
Medical Data Systems Ann Arbor, Mich.	28A, 29A	Tennelec, Inc. Oak Ridge, Tenn.	67A
Medi-Physics, Inc. Emeryville, Calif.	IFC, 1A	Varian Associates Walton-on-Thames, England	12A, 13A
		Williams & Wilkins Baltimore, Md.	45A