

1973 AUTHORS INDEX

Asterisk indicates abstract

- Abe, H.**
see Kata, S.
see Sugitani, Y.
- Abreau, C. M., Azizi, F., Vagenakis, A. G., Ingbar, S. H. and Braverman, L. E.** Indirect indicator of serum-free thyroxine concentration, 159
- Abreau, C. M., Vagenakis, A. G., Azizi, F., Portnay, G. and Braverman, L. E.** Simultaneous measurement of total thyroxine and free thyroxine index, 740
- Ackerholt, R. E., Blau, M., Bakshi, S. and Sondel, J. A.** Comparison of skeletal agents, 375*
- Adams, D. F.** see Holman, B. L.
- Adams, L.** see Hutchinson, F.
- Adams, R. and Zimmerman, D.** Calculating Anger camera system deadtime, 496
- Adelstein, S. J.** see Holman, B. L.
- Adiseshan, N.** 97m Sr lung scans in aspergillosis, 722
- Adiseshan, N.** see Buttfield, I. H.
- Adolph, R. J.** see Sodd, V. J.
- Afifi, P.** see Counsell, R. E.
- Alazraki, N. P., Halpern, S. E., Ashburn, W. L. and Coel, M.** Hyperbaric cisternography in humans, 226
- Alazraki, N. P.** see Halpern, S. E.
- Albers, J. W., Sandeen, R. and Jenkins, D.** Quality control tests for 99m Tc-S colloid, 468*
- Alderson, P. O. and Siegel, B. A.** Adverse reactions following 111 In-DTPA cisternography, 609
- Alderson, P. O.** see Secker-Walker, R. H.
- Alevizaki, C. C., Ikkos, D. G. and Singhelakis, P.** Effect of age on calcium absorption, 760
- Alexander, C.** see Marsden, D. S.
- Alexander, G. W.**
see Saenger, E. L.
see Silberstein, E. B.
- Alexander, J. L.** see Gillespie, P. J.
- Allen, D. R., Nelp, W. B., Cheney, F. W. and Hartnett, D. E.** Lung circulation changes after MAA injection, 375*
- Allen, J. H.** see Patton, D.D.
- Allen, M.** see Cravitz, B.
- Al-Sadir, J.** see Harper, P. V.
- Altman, R.** see Serafini, A.
- Alvarez-Cervera, J.** see Raban, P.
- Anderson, B. G., Beierwaltes, W. H., Harrison, T. S., Ansari, A. N. and Buswink, A. A.** ^{14}C -dopamine concentration in pheochromocytomas, 376*
- Anderson, B. G., Beierwaltes, W. H., Harrison, T. S., Ansari, A. N., Buswink, A. A. and Ice, R. D.** Labeled dopamine concentration in pheochromocytomas, 781
- Anderson, D. P.** see Lilien, D. L.
- Anderson, T. M., Mintzer, R. A., Hoffer, P. B., Lusted, L. B., Smith, V. C. and Pokorny, J.** Transmission of brain images, 376*
- Anderson, T. M.** see Tetelman, M. R.
- Ando, A.** see Hisada, K.
- Anger, H. O.** see Yano, Y.
- Anger, R. T.**
see Carroll, R. G.
see Miller, D. P.
see Wellman, H. N.
- Anno, Y., Sasaki, T. and Iwamoto, M.** Hypothyroidism following ^{131}I therapy for hyperthyroidism, 377*
- Ansari, A. N., Atkins, H. L., Christman, D. R., Finn, R. D., Fowler, J. S., MacGregor, R. R., Wolf, A. P. and Bradley-Moore, P.** Carrier-free dopamine hydrochloride- ^{11}C , 377*
- Ansari, A. N., Atkins, H. L., Christman, D. R., Fowler, J. S., Karlstrom, K. I., MacGregor, R. R., Bradley-Moore, P. R. and Wolf, A. P.** ^{11}C -norepinephrine for myocardial scanning, 619*
- Ansari, A. N.**
see Anderson, B. G.
see Fowler, J. S.
see Lebowitz, E.
- Antar, M. A.** see Spencer, R. P.
- Apau, R.** see Waxman, A. D.
- Ariel, I. M. and Padula, G.** Internal radiation effect on spleen, 619*
- Arnold, J.** see Buttfield, I. H.
- Arseneau, J. C.** see Gelrud, L. G.
- Artis, E. J.** see McKamey, M. R.
- Asard, P. E.** see Nordlander, S.
- Ash, J. M. and Gilday, D. L.** CSF absorption of 111 In-DTPA in hydrocephalic children, 620*
- Ashare, A. B.** see Nishiyama, H.
- Ashburn, W. L.**
see Alazraki, N. P.
see Green, J. P.
see Halpern, S. E.
see Hurwitz, S. R.
see Kellam, R. O.
- Ashkar, F.** Automated T. test, 378*
- Ashton, P.** see Jones, T.
- Askienazy, S., Marty, P., Bok, B., Verel, M. and Richard, L.** Hardware device for anatomical landmarks, 378*
- Atkins, H. L., Klopper, J. F., Hauser, W., Eckelman, W. and Richards, P.** Evaluation of 99m Tc-DTPA, 249
- Atkins, H. L.**
see Ansari, A. N.
see Fowler, J. S.
See Lebowitz, E.
- Au, Y. F.** see Nickles, R. J.
- August, L.** see Nishiyama, H.
- August, L. S.** see Sodd, V. J.
- Azizi, F.** see Abreau, C.
- Azmudeh, A.** see Chen, I.-W.
- Bahr, G. K.** see Berke, R. A.
- Bailey, J. J.** see Gelfand, M. J.
- Bailey, T. B.** see Pinsky, S. M.
- Baker, J.** see Secker-Walker, R. H.
- Bakshi, S.** see Ackerholt, R. E.
- Ball, D.** see Higgins, H. P.
- Baran, D.** see Piepsz, A.
- Barandes, M., Hurley, J. R. and Becker, D. V.** Rapid intrathyroidal iodine turnover for ^{131}I therapy, 379*
- Barker, D. C.** Reduction in scan time with minification, 361
- Bardfeld, P. A. and Rudin, S.** Magnifying collimator use in brain imaging, 834
- Bardfeld, P. A. and Rudin, S.** Comparison of instant 99m Tc from commercial suppliers, 880
- Barnes, B.** see Fish, M. B.
- Barnes, M.** see Henry, C. A.
- Barnes, R. W.** see McDonald, G. B.
- Barrett, H. H.** see De Meester, G.
- Barth, R. F.** see Gillespie, G. Y.
- Bartone, N.** see Yang, C-S.
- Bassingthwaite, J. B.** see Richmond, D. R.
- Bastomsky, C. H., Horton, P. W. and Shimmins, J.** Hepato-biliary excretion of ^{131}I -thyroxine-glucuronide and ^{131}I -rose bengal, 34
- Basugi, N.** see Sasaki, Y.
- Bates, B. B.** see Jones, R. H.
- Bauer, T. J.** see Brookeinan, V. A.
- Bautovich, G.** see Lembares, N.
- Baylink, D.** see Chesnut, C. H.
- Beck, R. N.**
see Harper, P. V.
see Hoffer, P. B.
- Becker, D. V.**
see Barandes, M.
see Cahill, P. T.
- Beckers, C., Cornette, C. and Thalasso, M.** Radioimmunoassay of serum thyroxine, 317
- Beg, K.** see Johnson, P. M.
- Beierwaltes, W. H.**
see Anderson, B. G.
see Kirschner, A.
see Moses, D. C.
see Ryo, U. Y.
see Sturman, M. F.
- Bekerman, C.**
see Harper, P. V.
see Hoffer, P. B.
- Belgrave, E.** see Lebowitz, E.
- Bell, R. L.** see LeBlanc, A. D.
- Benedetto, W. J.** see Weber, D. A.
- Benfield, J. R.** see Morinari, H.
- Bennett, K. R.** see Smith, R. O.
- Bennett, L. R.**
see Bosnjakovic, V. B.

INDEX TO ADVERTISERS

Abbott Laboratories	Hoechst Radiopharmaceuticals	Omnimedical Services, Inc.
North Chicago, Ill. . . IFC, I, XL	Frankfurt, Germany . . . IX	Long Beach, Calif. LII
Amersham/Searle Corp.	Isolab, Inc.	Packard Instrument Co., Inc.
Arlington Heights, Ill. . . XXXIV	Akron, Ohio XV	Downers Grove, Ill. . . LXI, LXIII
Analytical Development Associates Corp.	R. S. Landauer, Jr., & Co.	Princeton Electronic Products, Inc.
Cupertino, Calif. XLVIII, IL	Glenwood, Ill. XLI	North Brunswick, N.J. XXX
Associated Laboratories, Inc.	3M Company	Procter & Gamble
Wichita, Kans. XLIII	St. Paul, Minn. XXIV, XXV	Cincinnati, Ohio . . . XII, XIII, XIV
Atomic Development Corp.	Mallinckrodt/Nuclear	Radx Corp.
Plainview, N.Y. XXXVI	St. Louis, Mo. XX, XXI, LVII	Houston, Texas XXXI, LVIII
Atomic Products Corp.	Matrix Instruments	Raytheon Corp.
Center Moriches, N.Y. LVI	New York, N.Y. LXXII, LXXIII	Waltham, Mass. II, LXXI
Baird-Atomic	Medical Nuclear Corp.	Riverside Bio-Engineering
Bedford, Mass. XI, LXXVI, IBC	Minneapolis, Minn. XXVIII, XXIX	Riverside, Calif. XLI, LV
Biolab, S.A.	Medi-Physics, Inc.	Schwarz/Mann
Brussels, Belgium LXX	Emeryville, Calif. XXXII, XXXIII, LIII, LXXV	Orangeburg, N.Y. XLVI
Bio-Rad Laboratories	New England Nuclear	Searle Analytic, Inc.
Richmond, Calif. X	Boston, Mass. IV, LI, LIV, LX	Des Plaines, Ill. XXXVII
Capintec, Inc.	Nichols Institute	Searle Radiographics, Inc.
Mt. Vernon, N.Y. XXVII	Wilmington, Calif. LXVI	Des Plaines, Ill. XLVII, LXVII, BC
CIS Radiopharmaceuticals, Inc.	Nuclear Associates, Inc.	Serono Laboratories, Inc.
Bedford, Mass. XXII	Westbury, N.Y. XVIII, LIX	Boston, Mass. LIX
Curtis Nuclear Corp.	Nuclear Data, Inc.	SNM Placement
Los Angeles, Calif. XXVI	Palatine, Ill. XLIV, XLV, LXIV, LXV	New York, N.Y. 981, LIV
Dunn Instruments	Ohio-Nuclear, Inc.	Sorin
San Francisco, Calif. XVI, XVII	Solon, Ohio XXIII, XXXV, L, LXVIII, LXIX	Saluggia, Italy XIX
General Electric Medical Systems		Unirad Corp.
Milwaukee, Wis. VI, VII		Denver, Colo. LXII
Hewlett-Packard Co.		Wien Laboratories
Waltham, Mass. XXXVIII, XXXIX		Succasunna, N.J. XXX

STATEMENT OF OWNERSHIP, MANAGEMENT AND CIRCULATION (Act of August 12, 1970: Section 3685. Title 39, United States Code).

1. Title of publication: Journal of Nuclear Medicine.
2. Date of filing: November 1, 1973.
3. Frequency of issue: Monthly.
4. Location of known office of publication (Street, city, county, state, zip code) (not printers): 305 E. 45 St., New York, N.Y. 10017.
5. Location of the headquarters or general business offices of the publishers (not printers): 305 E. 45 St., New York, N.Y. 10017.
6. Names and addresses of publisher, editor, and managing editor: Publisher—The Society of Nuclear Medicine, 305 E. 45 St., New York, N.Y. 10017. Editor—Belton A. Burrows, M.D., 720 Harrison Ave., Boston, Mass. 02118. Managing Editor—Christa Foster, 305 E. 45 St., New York, N.Y. 10017.
7. Owner (if owned by a corporation, its name and address must be stated and also immediately thereunder the names and addresses of stockholders owning or holding 1 percent or more of total amount of stock. If not owned by a corporation, the names and addresses of the individual owners must be given. If owned by a partnership or other unincorporated firm, its name and address; as well as that of each individual must be given.) The Society of Nuclear Medicine, 305 E. 45 St., New York, N.Y. 10017. The Journal of Nuclear Medicine is the official publication of the Society of Nuclear Medicine. The corporation is nonprofit and there are no stockholders.
8. Known bondholders, mortgagees, and other security holders owning or holding 1 percent or more of total amount of bonds, mortgages or other securities: None.
9. Not applicable.
10. For completion by nonprofit organizations authorized to mail at special rates: The purpose, function and nonprofit status of this organization and the exempt status for Federal income tax purposes have not changed during the preceding 12 months.
11. Extent and nature of circulation. (A) total number of copies printed: average during preceding 12 months—9,266; actual number of copies printed in September 1973—9,700. (B) Paid circulation: None. Mail subscriptions: average number—8,896; actual number in September—9,170. (C) Total paid circulation: average number—8,896; actual number in September—9,170. (D) Free distribution: average number—141; actual number in September—141. (E) Total distribution: average number 9,037; actual number in September—9,311. (F) Office use, left-over, unaccounted, spoiled after printing: average number—229; actual number in September—389. (G) Total: average number—9,266; actual number in September—9,700.

AUTHORS INDEX

- see Lilien, D. L.
 see Verma, R. C.
 see Wagner, M. S.
- Benson, C.** see O'Rourke, J.
- Ben Zeev, D., Inbar, D., Klein, Y., Sabbah, B., Suhami, A., Yarom, A. and Zioni, Y.** New concepts for imaging instruments, 379*
- Bergan, J. J.** see Henkin, R. E.
- Berger, H. G.**
 see Krishnamurthy, G. T.
 see Lilien, D. L.
- Berke, R. A., Hoops, E. C., Kereakes, J. C. and Saenger, E. L.** Radiation dose to breast feeding child from ^{99m}Tc -MAA lung scan, 51
- Berke, R. A., Saenger, E. L. and Bahr, G. K.** Decision making in brain imaging, 850
- Berke, R. A.**
 see Carroll, R. G.
 see Nishiyama, H.
- Berman, M.** see Freedman, G.
- Bernstein, J. R., Guiberteau, M. and Hoffer, P. B.** Differentiating calvarial from cerebral lesions, 380*
- Bertran, M.** see Cahill, P. T.
- Bessent, R. G.** see Gray, H. W.
- Billinghurst, M. W.** Quality control of radiopharmaceutical kits, 362
- Billinghurst, M. W.** Chromatographic quality control, 793
- Birdsell, R.** see Neely, H. H.
- Birnbaum, M.** see Busse, W.
- Black, M. B.** Analysis of pancreas scintiphotos, 246
- Black, P. and Cooper, M.** Cisternography demonstration of posterior fossa cyst, 944
- Blahd, W. H.**
 see Krishnamurthy, G. T.
 see Pritchard, J. H.
 see Tubis, M.
 see Winston, M. A.
- Blair, D. C., Carroll, M., Carr, E. A. and Fekety, F. R.** ^{99m}Tc -citrate for scanning staphylococcal abscesses, 99
- Blair, R. J.**
 see Kallfelz, F. A.
 see Subramanian, G.
- Blanchon, P.** see Raynaud, C.
- Blau, L. M., Miller, D., Powell, M. D. and Levine, A.** Matrix inversion technique, 620*
- Blau, M.**
 see Ackerholt, R. E.
 see Lathrop, K. A.
- Blaufox, M. D.** see Chervu, L. R.
- Bloch, P. and Sanders, T.** Effects of scatter on NaI(Tl) imaging system, 67
- Bloch, P. and Sanders, T.** Absorbed dose calculations, 879
- Block, R. E.** see King, A. G.
- Blom, J.** see Pinsky, S. M.
- Bluestone, R.** see Winston, M. A.
- Blum, M., Chandra, R. and Drucker, W. D.** Measuring serum thyroxine by the Tetralute procedure, 279
- Blumin, L. J., Cavalieri, R. R., Kaufman, L. and Perez-Mendez, V.** Pressurized multiwire proportional chamber, 620*
- Bok, B., Perez, R., Panneciere, C. and Di Paola, R.** Comparison of skeletal agents, 380*
- Bok, B.** see Askienazy, S.
- Boller, F., Patten, D. H. and Howes, D.** Brain scan correlation with neuropathological data, 381*
- Bolles, T. F.** see Jacksen, R. A.
- Bonte, F. J., Graham, K. D., Moore, J. G., Parkey, R. W. and Curry, G. C.** ^{99m}Tc -oleic acid complex for myocardial imaging, 381*
- Bonte, F. J.**
 see Curry, G. C.
 see Parkey, R. W.
 see Stokely, E. M.
 see Villarreal, R. L.
- Bonwit, K. S.** see Knowles, L. G.
- Bonwit, S. E.** see Knowles, L. G.
- Borski, A.** see Pinsky, S. M.
- Bosnjakovic, V. B.** Bilateral equally efficient radiocardiography, 621*
- Bosnjakovic, V. B., Bennett, L. R., Greenfield, L. D. and Vincent, W. R.** Dual-isotope diagnosis of intracardiac shunt, 514
- Bostrom, S. E., Corman, J. L. and Brown, D. W.** Liver studies after hepatic homotransplant, 382*
- Boyce, C. L. and Johnston, G. S.** Three methods for whole-body imaging, 469*
- Boyce, C. L., Johnston, G. S. and Milder, M. S.** Autoradiography with ^{67}Ga in melanoma, 468*
- Braamer, S. R.** see Grove, R. B.
- Bradley-Moore, P. R.**
 see Ansari, A. N.
 see Fowler, J. S.
 see Lebowitz, E.
- Branson, B. M., Hoops, R. G. and Grant, R. J.** Personnel exposure in nuclear medicine, 382*
- Braunstein, P., Hernberg, J. G. and Chandra, R.** Reduction in scan time with minification, 362
- Braunstein, P., Kricheff, I., Korein, J. and Corey, K.** Cerebral death, 122
- Braunstein, P.** see Chandra, R.
- Braverman, L. E.** see Abreau, C. M.
- Briedis, D., McIntyre, P. A., Juodis, J. and Wagner, H. N.** Dual isotope method for measuring B_{12} absorption, 135
- Bright, B. W.** see Stevenson, J. S.
- Brill, A. B.**
 see Dyer, N. C.
 see Price, P. R.
- Bronzino, J.** see O'Rourke, J.
- Brookeman, V. A.** Spatial distortions in gamma camera images, 383*
- Brookeman, V. A.** Distribution of serum thyroxine levels, 660
- Brookeman, V. A.** T_4 extraction efficiencies in alcohols, 826
- Brookeman, V. A. and Bauer, T. J.** Collimator performance for scintillation camera systems, 21
- Brookeman, V. A. and Williams, C. M.** Screening tests of thyroid function, 721
- Brookeman, V. A.** see Sunderland, M. L.
- Brown, D. W.** see Bostrom, S. E.
- Brown, T. L.** see Grove, R. B.
- Browne, A.** see Wellman, H. N.
- Brownell, G. L.**
 see Chesler, D. A.
 see Hoop, B.
- Brunhart, G.** see Gray, F. C.
- Bryan, D.** see Waxman, A. D.
- Buckingham, P. D.** see Jones, T.
- Budinger, T. F.** High counting-rate performance of the Anger camera, 383*
- Bulkley, G. B.** see Milder, M. S.
- Burdine, J. A.**
 see Holmquest, D. L.
 see Murphy, P. H.
- Burke, G.**
 see Halko, A.
 see Lin, M. S.
- Burnham, C. A.** see Hoop, B.
- Burrows, B. A.** Editorial, nature of publications, 1
- Burrows, B. A.** Editorial Board, 483
- Burrows, B. A.** Editorial, radioimmunoassay, 549
- Burrows, B. A.** see Genna, S.
- Busse, W., Reed, C., Tyson, I. and Birnbaum, M.** Prolonged retention of ^{131}I in asthma, 837
- Buswink, A. A.** see Anderson, B. G.
- Butler, R. L.** see Fletcher, J. W.
- Buttfield, I. H., Wrench, J. C., Adiseshan, N. and Arnold, J.** Intravenous perchlorate in brain imaging, 543
- Cahill, P. H., Bertran, M., Papoulias, A. and Becker, D. V.** Methods of image restoration, 621*
- Calderon, M.** see Murphy, P. H.
- Callahan, R. J. and Castronovo, F. P.** Spatial distortions produced by the gamma camera, 125
- Callahan, R. J.** see Castronovo, F. P.
- Cameron, J. L.** see Eikman, E. A.
- Cantor, R. E., Kramer, M. and Shapiro, B.** Scoring index for kidney transplant evaluation, 384*
- Cantor, R.** see Shapiro, B.
- Caride, V. J.** Rectal absorption of $^{99m}\text{TcO}_4^-$ in dogs, 600
- Caride, V. J., Witek, J. T., Touloudian, R. J. and Spencer, R. P.** Hemorrhoidal vein injection technique, 384*
- Carlton, W. H., Trueblood, J. H. and Rossomondo, R. M.** Sequential imaging of lacrimal drainage, 89
- Carr, E. A.** see Blair, D.C.
- Carroll, M.** see Blair, D. C.
- Carroll, R. G., Berke, R. A., Anger, R. T., Levine, G., Wellman, H. N. and Saenger, E. L.** Multiple dose ^{133}Xe solution "generator", 935
- Cassen, B.** see Oldendorf, W. H.
- Castellana, F. S., Drago, J. A., Pierson, R. N., Dagan, J.** and

- Lidofsky, L. J.** Mathematical model of the cardiopulmonary circulation, 384*
- Castellana, F. S.** see Pierson, R. N.
- Castronovo, F. P.** pH monitoring of ^{137m}Ba -EDTA infuse, 341
- Castronovo, F. P.** Pharmaceutical toxicity, 719
- Castronovo, F. P. and Callahan, R. J.** Toxicity of ^{99m}Tc -Sn-diphosphate, 774
- Castronovo, F. P., Potsaid, M. S. and Pendergrass, H. P.** Effect of radiation therapy on bone lesions, 604
- Castronovo, F. P. and Wagner, H. N.** Toxicity and pharmacodynamics of indium compounds, 677
- Castronovo, F. P.** see Callahan, R. J.
see Houston, J.
- Cavalieri, P. R.** see Blumin, L. J.
- Chandra, R., Braunstein, P., Streuli, F. and Hirsch, J.** ^{133m}Cs , a new myocardial imaging agent, 243
- Chandra, R., Shamoun, J., Braunstein, P. and DuHov, O. L.** Instant kit for ^{99m}Tc -MAA, 702
- Chandra, R.** see Blum, M.
see Braunstein, P.
- Chandra, S. and Laor, Y. G.** Liver scan in hepatic infarct, 858
- Chang, C. C.** see Spolter, L. S.
- Charakes, N. D., Maier, W., Dugan, M. A., Soulen, R., Escovitz, E. and Dubin, R.** ^{131}I -fibrinogen scans for deep-vein thrombosis, 385*
- Charkes, N. D.** see Dugan, M. A.
- Charleston, D. B.** see Harper, P. V.
- Chaudhuri, Tapan K.** Radiostrontium uptake in lungs, 723
- Chaudhuri, Tapan K., Chaudhuri, Tuhin K. and Christie, J. H.** ^{87m}Sr -strontium-calcium-phosphate complex for combined liver-lung scan, 346
- Chaudhuri, Tapan K., Chaudhuri, Tuvin K. and Christie, J. H.** ^{99m}Tc -DTPA measurement of gastric emptying time, 622*
- Chaudhuri, Tapan K., Chaudhuri, Tuvin K., Go, R. T., Taube, R. R. and Christie, J. H.** ^{87m}Sr uptake by liver metastases, 293
- Chaudhuri, Tuvin K.** see Chaudhuri, Tapan K.
- Chen, I-W., Asmudeh, A., Connell, A. and Saenger, E. L.** ^{14}C -tripalmitin breath test for pancreatic insufficiency, 622*
- Chen, I-W., Park, H. M., King, L. R. and Goldsmith, R. E.** Radioimmunoassay of parathyroid hormone, 385*
- Chen, I-W.** see Park, H. M.
- Chen, M.** see Larson, S.
- Cheney, F. W.** see Allen, D. R.
- Cheng, K. K-S.** see Fish, M. B.
- Chervu, L. R., Lory, M., Liang, T., Lee, H. B., and Blaufox, M. D.** Inhibitor concentration effect on plasma renin activity radioimmunoassay, 873
- Chesler, D. A., Hoop, B. and Brownell, G. L.** Transverse section imaging of myocardium with $^{15}\text{NH}_4^+$, 623*
- Chesnut, C. H., Manske, E., Baylink, D. and Nelp, W. B.** Comparison of total-body Ca and regional bone mass, 386*
- Chiba, K.** see Matsui, K.
see Yamada, H.
- Chiles, J. T., Mintzer, R. A., Hoffer, P. B. and Gottschalk, A.** Spleen size and displacement, 386*
- Chodos, R. B.** Book Review; *Nuclear Medicine*, 187
- Chretien, P. B.** see Oldham, P. K.
- Christie, J. H.** see Chaudhuri, Tapan K.
- Christman, D. R., Finn, R. D., Karlstrom, K. I. and Wolf, A. P.** Carrier-free $H^{11}\text{CN}$ production and radiopharmaceutical synthesis, 864
- Christman, D. R.** see Ansari, A. N.
- Christy, B.** see King, A. G.
- Clarke, L. P.** see Mayer, K.
- Cloutier, R. J., Watson, E. E., Rohrer, R. H. and Smith, E. M.** Calculating the radiation dose to an organ, 53
- Cloutier, R. J., Watson, E. E., Hayes, R. L., Nelson, B. and Smith, E. M.** MIRD dose estimate report no 2; Ga isotopes, 755
- Cloutier, R. J.** see Watson, E. E.
- Coates, G., DeNardo, S. J. and DeNardo, G. L.** Pharmacokinetics of radioiodinated streptokinase, 623*
- Coates, G.** see Gilday, D. L.
- Coble, C.** see Serafini, A.
- Coel, M.** see Alazraki, N. P.
see Halpern, S. E.
- Cohen, M. B.** see Spolter, L. S.
- Cole, C. M.** see Gray, F. C.
- Coleman, R. E.** see Metzger, J. M.
- Coleman, M.** see Eikman, E. A.
see McIntyre, P. A.
- Comar, D.** see Raynaud, C.
- Connell, A.** see Chen, I-W.
- Cooper, J. F. and Harbert, J. C.** Aseptic meningitis following ^{131}I -HSA cisternography, 387*
- Cooper, M., Sorandes, T. and Hagan, P.** Pharmacodynamics of ^{99m}Tc -polyphosphate and $^{99m}\text{TcO}_4^-$, 624*
- Cooper, M.** see Black, P.
see McKusick, K. A.
- Cooper, P. H., Lerner, S. R. and Pircher, F. J.** Deadtime losses in a scanner system, 828
- Corey, K.** see Braunstein, P.
- Corman, J. L.** see Bostrom, D. E.
see Klingensmith, W. C.
- Cornette, C.** see Beckers, C.
- Correll, J. E.** see Hoop, B.
- Coulam, C. M.** see Richmond, D. R.
- Counsell, R. E., Ranade, V. V., Kulkarni, G. and Afsharpoor, P.** Esters of radioiodinated cholesterol, 777
- Cracchiolo, A.** see Winston, M. A.
- Cravitz, B., Allen, M. and Stewart, J.** ^{99m}Tc -polyphosphate bone scanning, 469*
- Creighton, J. M.** see Hopkins, R. M.
- Cumming, G.** see Harding, L. K.
- Cummings, G. R. and Rehfield, S. D.** Preparation of ^{99m}Tc -HSA, 470*
- Curl, F. B.** see Harbert, J. C.
- Curry, G. C., Parkey, R. W., Stokely, E. M. and Bonte, F. J.** Effect of isoproterenol on coronary blood flow, 388*
- Curry, G. C.** see Bonte, F. J.
- Czerniak, P. and Yershova, A.** Differential diagnosis of parenchymal and obstructive jaundice, 388*
- Dagan, J.** see Castellana, F. S.
see Pierson, R. N.
- D'Ambrosia, R.** see Stadalnik, R. C.
- Damm, D. W., Reinke, D. B. and Dunn, B. J.** Data storage and retrieval system, 470*
- Datta, S.** see Murthy, M. S. S.
- Davis, M. A.** see Dewanjee, M. K.
see Holman, B. L.
- Decostre, P.** see Piepsz, A.
- de Graff, M.** see Kappes, R.
- DeGrazia, J. A., Scheibe, P., Lucas, Z., Fair, W. and Vogel, J.** Multi-compartmental model for ^{131}I -Hippuran renography, 389*
- DeLand, F. H.** Biological behavior of ^{166}Yb -DTPA, 93
- DeLand, F. H.** Multiprobe collimator for the scintillation camera, 389*
- DeLand, F. H.** Splenic weight in radionuclide imaging, 390*
- DeLand, F. H., Tilden, R. L., Jackson, J., Enneking, W. F. and McVey, J. T.** Cellular location of ^{99m}Tc -polyphosphate, 390*
- DeLand, F. H. and Tonkin, A.** Serial liver scanning following jejunointestinal bypass surgery, 390*
- DeLand, F. H.** see Tilden, R. L.
- Delwaide, P. A.** Body potassium measurement by whole-body counting, 40
- DeMeester, G., Barrett, H. H. and Wilson, D. T.** Fresnel zone plate imaging of large organs, 391*
- DeNardo, G. L.** see Coates, G.
see Stadalnik, R. C.
- Denney, J. D.** see Marty, R.
- Derenzo, S. E.** see Zaklad, H.
- Dewanjee, M. K., Fliegel, C. P., Holman, B. L. and Davis, M. A.** Distribution of ^{99m}Tc -tetracycline, $^{99m}\text{TcO}_4^-$ and ^{67}Ga citrate in tumors, 624*
- Dewanjee, M. K. and Prince, E. W.** Cellular uptake of ^{99m}Tc -tetracycline and $^{99m}\text{TcO}_4^-$, 391*

AUTHORS INDEX

- Dewanjee, M. K. see Holman, B. L.
 Diamanti, C. I. see Goodwin, D. A.
 DiChiro, G. see Jones, A. E.
 Dietz, G. W. see Villarreal, R. L.
 DiGiulio, W. and Siebert, S. T. Thyroxine binding globulin by competitive protein-binding analysis, 392*
- Dilts, C. A. see Valk, P. E.
 Dimich, A. see Greenberg, E.
 Dinwoodie, R.
 see Krizek, H.
 see Lathrop, K. A.
 see Lembaras, N.
 DiPaola, P. see Henry, C. A.
 DiPaola, R. see Bok, B.
 Doby, T. Arteriovenous shunt measurements, 247
 Donati, R. M.
 see Fletcher, J. W.
 see Henry, R. E.
 Dore, E. K. see Gates, G. F.
 Douglas, S. D. see Keusch, G. T.
 Drago, J. A. see Castellans, F. S.
 Drewett, J. Lymph node scanning with ^{106}Au , 471*
 Drucker, W. D. see Blum, M.
 Dubin, R. see Charkes, N. D.
 Dugal, P. see Eikman, E. A.
 Dugan, M. A., Kozar, J. J., Ganse, G. and Charkes, N. D. Deep vein thrombosis localization with radioactive streptokinase, 233
 Dugan, M. A. see Charkes, N. D.
 DuHov, O. L. see Chandra, R.
 Dunn, A. see Marsden, D. S.
 Dunn, B. J. see Damm, D. W.
 Dunson, G. L.
 see Hosain, F.
 see Stevenson, J. S.
 Durrani, J. see O'Rourke, J.
 Dutheil, M. see Raynaud, C.
 Dworkin, H. J. Quality control of radiopharmaceutical kits, 364
 Dwyer, A. see Freedman, G.
 Dyer, N. C., Brill, A. B., Tsiantos, A. K., Sell, E., Victorin, L. H. and Stahlman, M. T. Intracranial bleeding in newborn infants, 807
 Eastham, S. see Higgins, H. P.
 Eber, L. M. see Poe, N. D.
 Eckelman, W.
 see Atkins, H. L.
 see Robinowitz, M.
 Eckelman, W. C. see Grove, R. B.
 Edelstyn, G. A. see Gillespie, P. J.
 Edwards, R. Q. see Kuhl, D. E.
 Ehrhardt, J. C. Selective distribution of caval blood, 870
 Ehrhardt, J. C., Lensink, S. C. and Oberly, L. W. Image formation in a scattering medium, 393*
 Ehrhardt, J. C. see Oberly, L. W.
 Eiff, K. see Meltzer, H.
 Eikman, E. A., Cameron, J. L., Colman, M., Natarajan, T. K., Dugal, P. and Wagner, H. N. Radioactive tracers in acute cholecystitis diagnosis, 393*
 Eikman, E. A. see McIntyre, P. A.
 Eldh, P. see Holman, B. L.
 Emmerson, D. A., O'Mara, R. E.
 and Lilien, D. L. ^{111}In -Bleomycin for tumor imaging, 625*
 Endow, J. S.
 see Krishnamurthy, G. T.
 see Tubis, M.
 see Winston, M. A.
 Enneking, W. F.
 see DeLand, F. H.
 see Tilden, R. L.
 Enenstein, J. see Halko, A.
 Escovitz, E. see Charkes, N. D.
 Esser, P. D. see Johnson, P. M.
 Eyring, E. J. see Wanken, J. J.
 Fair, W. see Degrazia, J. A.
 Fairbanks, V. F. see Wahner-Rodler, D. L.
 Fallat, R. J., Powell, M. R., Kueppers, F. and Lilker, E. ^{133}Xe ventilatory studies in α -antitrypsin deficiency, 5
 Fang, V. see Hoffer, P. B.
 Farmelant, M. H. Improved anatomical definition by a Fresnel zone plate imager, 393*
 Farrer, P. A. and Saha, G. B. ^{111}In -DTPA for renal imaging and CFR measurement, 394*
 Farrer, P. A. and Saha, G. B. Mechanism of ^{67}Ga uptake, 625*
 Farrer, P. A., Saha, G. B. and Katz, M. ^{111}In -transferrin for bone marrow imaging, 394*
 Farrer, P. A.
 see Saha, G. B.
 see Wexler, M. J.
 Fekety, F. R. see Blair, D. C.
 Fennessy, J. J. see McCartney, W. H.
 Fieve, R. see Meltzer, H.
 Finn, R. D.
 see Ansari, A. N.
 see Christman, D. R.
 see Fowler, J. S.
 Fish, M. B., Barnes, B. and Polley, M. Blood flow defects in cerebral vascular disease, 558
 Fish, M. B., Pollycove, M., Wallerstein, R. O., Cheng, K. K-S. and Tono, M. Simultaneous absorption of Bi_{12} and Bi_{12}IF , 568
 Flamm, M. D. see Strauss, H. W.
 Fletcher, J. W., Butler, R. L., Henry, R. E., Solaric-George, E. and Donati, R. M. Bone marrow scanning in Paget's disease, 828
 Fleigel, C. P.
 see Dewanjee, M. K.
 see Holman, B. L.
 Flor, W. J., Stevenson, J. S. and James, A. E. Cisternography, gross pathology and ultrastructural changes in communicating hydrocephalus, 626*
 Fordham, E. W.
 see Rayudu, G. V. S.
 see Shirazi, P. H.
 Forse, G. R. see Jones, T.
 Fortman, D. L. see Robbins, P. J.
 Foster, A. see Patton, D. D.
 Fowler, J. S., Ansari, A. N., Atkins, H. L., Bradley-Moore, P. R., MacGregor, R. R. and Wolf, A. P. ^{111}C -dopamine hydrochloride, 867
 Fowler, G. W. and Williams, J. P. $^{99m}\text{TcO}_4^-$ brain scans in tuberous sclerosis, 215
 Fowler, J. S., Finn, R. D., Lambrecht, R. M. and Wolf, A. P. Synthesis of ^{18}F -5-fluorouracil, 63
 Fowler, J. S. see Ansari, A. N.
 Francis, D. see Wellman, H. N.
 Francis, M. D. see Silberstein, E. B.
 Franco, J. see Kovaleski, B.
 Frankel, R. S.
 see Jones, A. E.
 see Milder, M. S.
 Fratkin, M. J. and Sharpe, A. R. ^{67}Ga localization of nontuberculous psoas abscess, 499
 Freedman, G., Dwyer, A., Berman, M. and Wolberg, J. Time variation in cardiac flow/volume, 395*
 Freedman, G., Schiff, M. and Zager, P. "Non-perfused" renal transplant, 395*
 Freedman, G. see Lee, V. W.
 Freeman, L. M.
 see Koenigsberg, M.
 see Liebeskind, A. L.
 Freeman, L. see Raynaud, C.
 Freeman, M. see Moss, M. L.
 Friedman, A. see Rayudu, G. V. S.
 Gaitan, E. see Gaitan, J. E.
 Gaitan, J. E., Wahner, H. W. and Gaitan, E. T. and T. abnormalities following ^{131}I therapy, 396*
 Ganatra, R. D. see Raikar, U. R.
 Ganse, G. see Dugan, M. A.
 Garnett, E. S. see Weisbaum, S. D.
 Gaston, E. see Staub, R. T.
 Gates, G. F. and Dore, E. K. Streamline flow in the human portal vein, 79
 Gates, G. F. and Dore, E. K. Detection of premature craniosynostosis with ^{18}F , 397*
 Gates, G. F., Gwinn, J. L., Lee, F. A. and Payne, V. C. Increase in extrahepatic $^{99m}\text{Tc-S}$ colloid, 537
 Gates, G. F., Orme, H. W. and Dore, E. K. $^{99m}\text{Tc-MAA}$ evaluation of cardiac surgery in children, 398*
 Gelfand, M. J., Green, M. V., Bailey, J. J. and Johnston, G. S. Handling of computer acquired radionuclide image data, 398*
 Gelrud, L. G., Arseneau, J. C. and Johnston, G. S. ^{67}Ga localization in experimental abscesses, 399*
 Genna, S., Zimmerman, S., Pang, S. C., Teager, H. M., Shore, H. and Burrows, B. A. Four-view dual nuclide brain imaging, 399*
 Chaed, N. see Thrall, J. H.
 Giargiana, F. A. see Siegel, M. E.
 Gibbs, W. D. see Watson, E. E.
 Gilday, D. L., Coates, G. and Goldenberg, D. Diagnosing subdural hematoma with brain scan, 283
 Gilday, D. L. and Kellam, J. ^{111}In -DTPA evaluation of CSF diversionary shunts in children, 399*

- Gilday, D. L. and Kellam, J.** ^{113}In -DTPA evaluation of diversionary shunts, 920
- Gilday, D. L.**
see Ash, J. M.
see Kilburn, E.
- Gillespie, P. J., Alexander, J. L. and Edelstyn, G. A.** Lung uptake during liver studies, 711
- Gillespie, G. Y., Barth, R. F. and Gobuty, A.** $^{99\text{m}}\text{Tc}$ labeling of nucleated mammalian cells, 400*
- Gillespie, G. Y., Barth, R. F. and Gobuty, A.** $^{99\text{m}}\text{Tc}$ labeling of nucleated mammalian cells, 706
- Givelbar, H. M.** see Oldham, R. K.
- Glass, H. I.** see Hegde, U. M.
- Glassman, L. M.** see Park, C. H.
- Glenn, H. J.** see Konikowski, T.
- Gloria, I.**
see Krizek, H.
see Lathrop, K. A.
see Lembares, N.
- Go, R. T. and Ptacek, J. J.** $^{99\text{m}}\text{TcO}_4^-$ uptake in choroid plexus of fourth ventricle, 352
- Go, R. T.** see Chaudhuri, Tapan K.
- Gobuty, A.** see Gillespie, G. Y.
- Goldbarg, A.** see Harper, P. V.
- Goldberg, M. E.**
see Kieffer, S. A.
see Moore, J.
- Goldenberg, D.** see Gilday, D. L.
- Goldsmith, R. E.** see Chen, L.-W.
- Goldsmith, S. J.** Image artifacts in tomographic camera systems, 103
- Goldstein, R. E.** see Kramer, R. J.
- Goldstein, S. E.** see Kramer, R. J.
- Goluboff, L. G.** Arachnoid cyst demonstrated by cisternography, 61
- Goode, R. L.** see Goodwin, D. A.
- Goodenough, D. J.** see Metz, C. E.
- Goodwin, D. A., Lin, M. S., Diamanti, C. I., Goode, R. L. and Meares, C. F.** ^{113}In -Bleomycin for tumor imaging, 401*
- Goodwin, D. A.** see Lin, M. S.
- Goodwin, P. N.** see Rao, D. V.
- Goris, M. L.** ^{123}I -bromsulphalein, 820
- Gottschalk, A.**
see Chiles, J. T.
see Pinsky, S. M.
- Graham, K. D.** see Bonte, F. J.
- Graham, L. S., MacDonald, N. S., Robinson, G. D. and Llacer, J.** Effect of positron energy on spatial resolution, 401*
- Graham, L. S.**
see Poe, N. D.
see Wagner, M. S.
- Grames, G. M. and Jansen, C.** Abnormal bone scan in cerebral infarction, 941
- Grant, R. J.** Separation and purification of $^{133}\text{CsCl}$ from cyclotron target, 471*
- Grant, R. J.** see Branson, B. M.
- Gray, F. C., Cole, C. M., Meaburn, G. M. and Brunhart, G.** Electron linear accelerator production of ^{40}K , 931
- Gray, H. W., Pack, A., Bessent, R. G. and Greig, W. R.** Arterio-venous difference error of early phase thyroid clearance, 238
- Grebe, S. F.** see Winsor, D. W.
- Green, F. A.** see Hays, M. T.
- Green, J. P., Ashburn, W. L., Hurwitz, S. R. and Halpern, S. E.** Sealed $^{99\text{m}}\text{Tc}$ sources for biopsy needle and catheter placement, 743
- Green, J. P.**
see Halpern, S. E.
see Hurwitz, S. R.
- Green, M. V.**
see Gelfand, M. J.
see Swann, S. J.
- Greenberg, E., Zeitz, L., Dimich, A., Myers, W. P. L. and Laughlin, J. S.** Bone mineralization measurements in bone disease, 402*
- Greene, M. W.** see Lebowitz, E.
- Greenfield, L. D.**
see Bosnjakovic, V. B.
see Wagner, M. S.
- Greenfield, M. A.** see Lane, R. G.
- Gregora, V.** see Raban, P.
- Greig, W. R.** see Gray, H. W.
- Greyson, N. D.** see Siegel, M. E.
- Grieco, R. V.** see Yang, C-S.
- Grove, R. B., Eckelman, W. C. and Reba, R. C.** Properties of ^{113}In , ^{67}Ga , and ^{59}Fe -Bleomycin, 627*
- Grove, R. B., Eckelman, W. C. and Reba, R. C.** Labeled Bleomycin distribution in mice, 917
- Grove, R. B., Madewell, J. E., Rapp, G. S., Pinsky, S. M. and Johnson, M. C.** ^{67}Ga citrate for evaluation of liver pathology, 402*
- Grove, R. B., Pinsky, S. M., Brown, T. L., Braamer, S. R. and Johnson, M. C.** ^{67}Ga citrate uptake in subacute thyroiditis, 403*
- Grove, R. B., Lapiano, F., Pinsky, S. M. and Johnson, M. C.** Orbital and retro-orbital lesion detection, 403*
- Grove, R. B.**
see Pinsky, S. M.
see Thrall, J. H.
- Guiberteau, M.** see Bernstein, J. R.
- Guth, P.** see Winston, M. A.
- Gwinn, J. L.** see Gates, G. F.
- Gydesen, F. R.** see Lowes, M.
- Haddad, D.** see Harbert, J. C.
- Hagan, P.** see Cooper, M.
- Hagen, S.** see Leyton, B.
- Halko, A., Burke, G., Sorkin, A. and Enenstein, J.** Renogram computer analysis, 253
- Hall, I. E.** see Shimmins, J. G.
- Halpern, S. E.** Optimizing brain agents, 618
- Halpern, S. E., Alazraki, N. P., Kunsa, J., Coel, M., Littenberg, R., Waltz, T. and Ashburn, W. L.** Hyperbaric cisternography in phantom and monkeys, 223
- Halpern, S. E., Alazraki, N. P., Littenberg, R., Hurwitz, S. R., Green, J. P., Kunsa, J. and Ashburn, W. L.** ^{131}I thyroid uptake, liquid vs. capsule, 507
- Halpern, S. E.**
- see Alazraki, N. P.**
see Green, J. P.
see Hurwitz, S. R.
see Leyton, B.
- Hamamoto, K.**
see Ishii, Y.
see Mori, T.
- Hamburger, J. I. and Meier, D. A.** Nontoxic autonomously functioning thyroid adenoma, 405*
- Hamilton, D. R.** Effect of benzodiazepine drugs on thyroid function studies, 472*
- Hamilton, G. W.** see McDonald, G. B.
- Han, M. H.** see Holman, B. L.
- Hansell, J. R., Hauser, W. and Herrera, N. E.** Quality evaluation program for nuclear medicine, 404*
- Hansen, D. D.** see McKamey, M. R.
- Harbert, J. C., Curl, F. B. and Jones, G. W.** Injection technique in radionuclide cerebral angiograms, 205
- Harbert, J. C., Haddad, D. and McCullough, D. C.** Quantitation of CSF shunt flow, 405*
- Harbert, J. C., McCullough, D. C. and Reed, V. R.** ^{131}I -HSA and ^{103}Yb -DTPA for cisternography, 405*
- Harbert, J. C., Reed, V. R., and McCullough, D. C.** ^{131}I -HSA and ^{103}Yb -DTPA for cisternography, 765
- Harbert, J. C.**
see Cooper, J. F.
see Robinowitz, M.
- Harder, H. C.** see Lange, R. C.
- Harding, L. K., Horsfield, K., Singhal, S. S. and Cumming, G.** Lung vessel blockage by albumin microspheres, 579
- Harper, P. V., Al-Sadir, J., Mayorga, A., Bekerman, C., Goldbarg, A., Lembares, N. and Lathrop, K. A.** Myocardial ischemia in $^{15}\text{NH}_3$ images, 405*
- Harper, P. V., Stupka, J., Yasillo, N., Beck, R. N. and Charleston, D. B.** Collimated coincidence detection system, 627*
- Harper, P. V.**
see Hoffer, P. B.
see Krizek, H.
see Lathrop, K. A.
see Lembares, N.
- Harrison, J. E.** see McNeill, K. G.
- Harrison, K. S.** see Som, P.
- Harrison, T. S.** see Anderson, B. G.
- Hartnett, D. E.** see Allen, D. R.
- Harvey, W. C. and Silva, P.** ^{51}Cr labeling of concentrated phagocytes, 890
- Hatchette, J. B.** Analysis of pancreas scintiphotos, 247
- Hauser, W.**
see Atkins, H. L.
see Hansell, J. R.
- Hayes, R. L.** see Cloutier, R. J.
- Hayes, T. M.** see Lin, M. S.
- Haynie, T. P.** see Konikowski, T.

AUTHORS INDEX

- Hays, M. T.** Pertechnetate absorption and excretion, 331
- Hays, M. T. and Green, F. A.** In vitro studies of $^{99m}\text{TcO}_4^-$ binding, 149
- Hays, M. T. and Katz, L.** Thyroxine absorption in small intestinal disease, 406*
- Hays, M. T. and Wesselossky, B.** Pertechnetate and iodine uptakes, 785
- Hayter, C. J.** see Smith, A. H.
- Heck, L.** see Hoffer, P. B.
- Hegde, U. M., Williams, E. D., Lewis, S. M., Szur, L., Glass, H. I. and Pettit, J. E.** Splenic red cell volume measurement with ^{99m}Tc , 769
- Heimpel, H.** see Lohrmann, H-P.
- Helbig, H. D.** Focal iatrogenic radio-colloid uptake on liver scan, 354
- Hellema, H. K.** see Smith, R. O.
- Henkin, R. E., Yao, J. S., Quinn, J. L. and Bergan, J. J.** Isotope venography in vascular disease, 407*
- Henry, C. A., Larsen, P., Tiffany, M., Barnes, M., Youdath, C., Lewis, C. and DiPaola, P.** Photographic methods for camera image reproduction, 472*
- Henry, R. E., Solaric-George, E. and Donati, R. M.** Effect of granulocytopenia, drugs and infection on marrow reticuloendothelial patterns, 407*
- Henry, R. E.** see Fletcher, J. W.
- Herbig, F. K.** see Leone, C. L.
- Hernberg, J. G.** see Braunstein, P.
- Herrera, N. E.** see Hansell, J. R.
- Herrin, W. F.** see Robinson, R. G.
- Herz, D. A.** see Liebeskind, A. L.
- Higgins, H. P., Ball, D. and Eastham, S.** Twenty minute ^{99m}Tc thyroid uptake, 907
- Hill, R. L.** see Secker-Walker, R. H.
- Hine, G. L.** Book Review; *Nuclear Radiation Physics*, 187
- Hiraki, T.** see Hisada, K.
- Hirsch, J.** see Chandra, R.
- Hirschfeld, J.** see Kramer, R. J.
- Hisada, K. and Ando, A.** Radiolanthanides for tumor scanning, 615
- Hisada, K., Ando, A., Hiraki, T., Takino, H. and Kurata, K.** ^{103}Yb -citrate for tumor scanning, 408*
- Hisada, K., Tonami, N., Hiraki, T. and Ando, A.** Tumor scanning with ^{103}Yb -citrate, 772
- Hodkinson, B. A.** see McIntyre, P. A.
- Hoffer, P. B., Harper, P. V., Beck, R. N., Stark, V., Krizek, H., Heck, L. and Lembares, N.** Improved images with ^{133}Xe , 172
- Hoffer, P. B., Lathrop, K. A., Reffetoff, S., Fang, V. and Bekerman, C.** Radioiodine labeled anti-CEA antibody for tumor scanning, 408*
- Hoffer, P. B.** see Anderson, T. M.
- see Bernstein, J. R.
- see Chiles, J. T.
- see McCartney, W. H.
- see Nijensohn, E.
- see Oldendorf, W. H.
- see Tetelman, M. R.
- Holman, B. L., Dewanjee, M. K., Idoine, J., Fliegel, C. P., Davis, M. A., Treves, S. and Eldh, P.** ^{99m}Tc -tetracycline studies of experimental myocardial infarction, 595
- Holman, B. L., Eldh, P., Adams, D. F., Han, M. H., Poggengburg, J. K. and Adelstein, S. J.** "K for evaluation of myocardial perfusion, 274
- Holman, B. L.** see Dewanjee, M. K.
- Holmes, R. A.** Salivary gland scintigraphy, 409*
- Holmqvist, D. L. and Burdine, J. A.** Caval-portal shunting, 348
- Holmqvist, D.** see Wellisch, M.
- Hook, G.** see McRae, J.
- Hoop, B., Smith, T. W., Burnham, C. A., Correll, J. E., Brownell, G. L. and Sanders, C. A.** Myocardial imaging with $^{15}\text{NH}_4^+$, 181
- Hoop, B.** see Chesler, D. A.
- Hoops, E. C.** see Berke, R. A.
- Hoops, R. G.**
see Branson, B. M.
see Saenger, E. L.
- Hopkins, G. B.** Superior vena caval obstruction and liver scan hot spots, 883
- Hopkins, G. B. and Kristensen, K. A. B.** Sequential scintiphotography in subdural hematoma diagnosis, 288
- Hopkins, G. B. and Kristensen, K. A. B.** Early skull metastasis in bone cancer, 720
- Hopkins, R. M., Creighton, J. M. and Van Derripe, D. R.** Distribution and toxicity of ^{99m}Tc -pyrophosphate, 409*
- Horsfield, K.** see Harding, L. K.
- Hortmann, A. G.** see Straatman, M.
- Horton, P. W.** see Bastomsky, C. H.
- Hosain, F., Hosain, P., Wagner, H. N., Dunson, G. L. and Stevenson, J. S.** Comparison of ^{18}F , ^{87}Sr and ^{99m}Tc -labeled phosphate compounds, 410*
- Hosain, F.** see Som, P.
- Hosain, P.** see Hosain, F.
- Houston, J., Castronovo, F. P. and Potsaid, M. S.** ^{99m}Tc -diphosphonate total-body bone scanning, 546
- Howes, D.** see Boller, F.
- Howlett, L.** see Kilburn, E.
- Hsu, T.** Effective thyroxine ratio evaluation, 472*
- Hsu, T.** see O'Rourke, J.
- Huberty, J.** see Powell, M. R.
- Hughes, J. M. B.** see Jones, T.
- Hupf, H. B.** see King, A. G.
- Hurley, J. R.** see Barandes, M.
- Hurwitz, S. R.** Brain scanning and echoencephalography in chronic subdural hematoma, 410*
- Hurwitz, S. R., Ashburn, W. L., Green, J. P. and Halpern, S. E.** Portable scintillation camera, 585
- Hurwitz, S. R.**
see Green, J. P.
see Halpern, S. E.
- Hutchinson, F., Adams, L., Stewart, W. K. and Soave, A.** Inhibitor concentration effect on plasma renin activity radioimmunoassay, 872
- Huzak, V.** Absorbed dose calculations, 876
- Ice, R. D.**
see Anderson, B. G.
see Kirschner, A.
see Sturman, M. F.
- Idoine, J.** see Holman, B. L.
- Iio, M.**
see Matsui, K.
see Yamada, H.
- Ikeda, I.** see Kato, S.
- Ikkos, D. G.** see Alevizaki, C. C.
- Imaiizumi, M.** see Sugitani, Y.
- Inbar, D.** see Ben Zeev, D.
- Ingbar, S. H.** see Abreau, C. M.
- Inkley, S. R. and MacIntyre, W. J.** ^{133}Xe preoperative assessment in carcinoma, 410*
- Inkley, S. R. and MacIntyre, W. J.** ^{133}Xe measurement in lung, 490
- Inouye, T., Sawada, N., Kashio, E. and Katsurada, M.** Computer method for processing scintillation camera images, 411*
- Ishii, Y., Mukai, T., Nomura, S., Ito, H., Mori, T., Hamamoto, K. and Torizuka, K.** Comparative ventilation and perfusion studies in lungs, 411*
- Ito, H.** see Ishii, Y.
- Ivancevic, D.** see Price, P. R.
- Iwamoto, M.** see Anno, Y.
- Jackson, R. A., Bolles, T. F., Kubiatowicz, D. O. and Krejcarek, G. E.** Technetium-mercaptide complexes for liver studies, 411*
- Jackson, J.**
see DeLand, F. H.
see Tilden, R. L.
- Jacobstein, J. G. and Quinn, J. L.** ^{133}Xe ventilation scanning after the ^{99m}Tc perfusion scan, 412*
- Jacquot, C.** See Raynaud, C.
- Jahns, M. F.** see Konikowski, T.
- James, A. E.** see Flor, W. J.
- Jansen, C.** see Grames, G.M.
- Jasinski, W. K.** see Mikolajkow, A.
- Jaszczak, R. J.** Increasing scintillation camera resolving power, 14
- Jenkins, D.** See Albers, J. W.
- Jhingran, S. G. and Johnson, P. C.** Radionuclide angiography diagnosis of cerebrovascular disease, 265
- Johnson, D. E.** see Morinari, H.
- Johnson, M. C.**
see Grove, R. B.
see Pinsky, S. M.
see Thrall, J. H.
- Johnson, P. C.**
see LeBlanc, A. D.
see Jhingran, S. G.
- Johnson, P. M., Vaughan, E. D., Beg, K., Esser, P. D. and Laragh, J. H.** Dynamic renal imaging in hypertension, 628*

- Johnson, R. E.** see Oldham, R. K.
Johnston, C. see Wellman, H. N.
Johnston, G. S.
 see Boyce, C. L.
 see Gelfand, M. J.
 see Gelrud, L. G.
 see Jones, A. E.
 see Kramer, R. J.
 see Larson, S. M.
 see Milder, M. S.
 see Swann, S. J.
Johnston, R. E. see Lathrop, K. A.
Jones, A. E., Frankel, R. S., Di-Chiro, G. and Johnston, G. S.
 Brain scintigraphy with $^{99m}\text{TcO}_4^-$, ^{99m}Tc -polyphosphate and ^{67}Ga -citrate, 412*
Jones, A. E. see Swann, S. J.
Jones, G. R. see Kellam, R. O.
Jones, G. W. see Harbert, J. C.
Jones, H. see Jones, T.
Jones, R. H. and Bates, B. B.
 Gamma camera performance for dynamic studies, 413*
Jones, T., Hughes, J. M. B., Buckingham, P. D., Rhodes, C. G., Jones, H., Ashton, P. and Forse, G. R. Measurement of regional extravascular lung water, 414*
Jones, T., Pettit, J. E., Rhodes, C. G. and Waters, S. L. ^{82}Rb - ^{81m}Kr ratio measurement of splenic blood flow, 414*
Judisch, J. see Briedis, D.
Kallfelz, A. see Subramanian, G.
Kallfelz, F. A., Subramanian, G., Blair, R. J. and McAfee, J. G.
 Long-term retention of ^{99m}Tc -labeled polyphosphate, diphosphonate and pertechnetate, 414*
Kaplan, E. see Mayron, L. W.
Kappes, R., de Graff, M. and Solomon, N. Scanning parameters, Karlstrom, K. I.
 see Ansari, A. N.
 see Christman, D. R.
Kashio, E. see Inouye, T.
Kato, S., Kurata, K., Ikeda, I., Sakoh, T. and Abe, H. Electrolytic method for preparation of ^{99m}Tc -labeled compounds, 415*
Katsurada, M. see Inouye, T.
Katz, L. see Hays, M. T.
Katz, M. see Farrer, P. A.
 473*
Kaufman, L. and Wilson, C. J. Extracellular fluid volume by fluorescent excitation analysis, 812
Kaufman, L.
 see Blumin, L. J.
 see Powell, M. R.
 see Price, D. C.
 see Williams, G.
Kay, D. B. see Keyes, J. W.
Kearney, J. J. see Moore, L. V.
Kellam, J. see Gilday, D. L.
Kellam, R. O., Jones, G. R. and Ashburn, W. L. Modification of digital tape recorder for Anger camera, 611
Kelly, G. L. see Robinson, R. G.
Kereiakes, J. C. see Berke, R. A.
Ketcham, A. S. see Milder, M. S.
Keusch, G. T. and Douglas, S. D.
 Screening test for chronic granulomatous disease, 591
Keyes, J. W., Kay, D. B. and Simon, W. Digital reconstruction of 3D images, 628*
Keyes, J. W., Wilson, G. A. and Quinones, J. D. Lung uptake of $^{99m}\text{Tc-S}$ colloid during liver imaging, 415*
Keyes, J. W., Wilson, G. A. and Quinones, J. D. Lung uptake during liver colloid studies, 687
Keyes, J. W.
 see Weber, D. A.
 see Wilson, G. A.
Khentigan, A. see Winstead, M. B.
Kieffer, S. A., Goldberg, M. E., Westreich, G. and Wolff, J. M. $^{99m}\text{Tc-HSA}$ cisternography in progressive dementia, 415*
Kieffer, S. A. see Moore, J.
Kilburn, E., Howlett, L. and Gilday, D. L. $^{99m}\text{Tc-DTPA}$ renal studies in children, 473*
King, A. G., Christy, B., Hupf, H. B. and Block, R. E. Polyphosphates; chain length and bone uptake, 695
King, L. R. see Chen, I.-W.
Kinney, B. J. see Krishnamurthy, G. T.
Kirchner, P. A. see Malmud, L. S.
Kirchner, P. T. and McKusick, K. A. Serendipity in cisternography, 59
Kirchner, P. T. see McKusick, K. A.
Kirschner, A. S., Ice, R. D. and Beierwaltes, W. H. Radiation dosimetry of ^{131}I -19-iodocholesterol, 416*
Kirschner, A. S., Ice, R. D. and Beierwaltes, W. H. Radiation dosimetry of ^{131}I -19-iodocholesterol, 713
Klein, Y. see Ben Zeev, D.
Klingensmith, W. C. and Ryerson, T. W. Lung uptake of ^{99m}Tc -sulfur colloid, 201
Klingensmith, W. C., Ryerson, T. W. and Corman, J. L. Lung uptake of ^{99m}Tc -sulfur colloid in organ transplantation, 757
Klopper, J. F. see Atkins, H. L.
Knapper, W. H. see Mayer, K.
Knowles, L. G., Bonwit, K. S., Bonwit, S. E., Kohlenstein, L. C. and Schulz, A. G. Visual evaluation of count differences in kidney imaging, 416*
Knowlton, A. H. see Spencer, R. P.
Kobayashi, T. see Sasaki, Y.
Koenigsberg, M. and Freeman, L. M. Intrahepatic focal lesion in acute viral hepatitis, 612
Kohlenstein, L. C. see Knowles, L. G.
Kollman, G. see Shapiro, B.
Konikowski, T., Glenn, H. J. and Haynie, T. P. Kinetics of ^{67}Ga compounds, 164
Konikowski, T., Glenn, H. J. and
Haynie, T. P. Optimizing brain agents, 618
Konikowski, T., Glenn, H. J., Haynie, T. P. and Jahns, M. F. Comparison of radiopharmaceutical kinetics in mouse kidney, 417*
Kordela, P. A. see McKusick, K. A.
Korein, J. see Braunstein, P.
Kovaleski, B., Franco, J., Vanage, K. and Scheyer, M. Comparison of countercurrent electrophoresis and radioimmunoassay for hepatitis associated antigen, 417*
Kozar, J. J. and Stern, H. S. ^{99m}Tc -streptokinase preparation, 629*
Kozar, J. J. see Dugan, M. A.
Kramer, M. see Cantor, R. E.
Kramer, R. J., Goldstein, R. E., Hirshfeld, J., Roberts, W. C., Goldstein, S. E. and Johnston, G. S. Myocardial infarct imaging with ^{67}Ga -citrate, 418*
Krause, J. Evaluation of a new multi-crystal, 474*
Krejcarek, G. E. see Jacksen, R. A.
Kricheff, I. see Braunstein, P.
Krishnamurthy, G. T., Endow, J., Tubis, M. and Blahd, W. H. ^{99m}Tc -penicillamine cholescintigraphy, 418*
Krishnamurthy, G. T., Walsh, C. F., Kinney, B. J., Stichler, S., Shoop, L. E., Berger, H. G. and Blahd, W. H. ^{99m}Tc -polyphosphate bone scans and camera images, 419*
Krishnamurthy, G. T., Winston, M. A. and Blahd, W. H. Postoperative ^{131}I therapy in thyroid cancer, 419*
Krishnamurthy, G. T. see Tubis, M.
Kristensen, K. A. B. see Hopkins, G. B.
Krizek, H., Lembares, N., Dinnwoodie, R., Gloria, I., Lathrop, K. A. and Harper, P. V. $^{14}\text{NH}_3$ production, 629*
Krizek, H. see Hoffer, P. B.
Krohn, K. A., Loberg, M. D. and Welch, M. J. Radioiodinated fibrinogen variation with method of preparation, 420*
Krohn, K. see Metzger, J. M.
Kronenberg, R. see Louken, M. K.
Kubiatowicz, D. O. see Jacksen, R. A.
Kueppers, F. see Fallat, R. J.
Kuhl, D. E. Observer performance and data smoothing, 876
Kuhl, D. E., Edwards, R. Q., Ricci, A. R. and Reivich, M. Quantitative section scanning using orthogonal tangent correction, 196
Kulkarni, P. G. see Counsell, R. E.
Kunsa, J. see Halpern, S. E.
Kunz, H. see Secker-Walker, R. H.
Kurata, K.
 see Hisada, K.
 see Kato, S.
Lacourciere, Y. see Lisbona, R.
Lamb, J. F. see Winstead, M. B.
Lambrechts, R. M., Norton, E. and Wolf, A. P. Kit for ^{125}NaI , 269

AUTHORS INDEX

- Lambrecht, R. M. see Fowler, J. S.
 Lamoureux, K. B. see Swann, S. J.
 Lane, R. G. and Greenfield, M. A.
 Absorbed dose calculation, 877
 Lange, R. C., Spencer, R. P. and Harder, H. C. CIS-Pt(NH₂)₂Cl₂: distribution for ^{191m}Pt and ^{196m}Pt, 191
 Langen, J. K. and Wagner, H. N.
 Record keeping system, 588
 Laor, Y. G. see Chandra, S.
 Lapiano, F. see Grove, R. B.
 Laragh, J. H. see Johnson, P. M.
 Larose, J. H. Whole-body immobilizer, 301
 Larsen, P. see Henry, C. A.
 Larsen, S., Chen, M. and Wagner, H. N. Radioassay for antibodies, 420*
 Larson, S. M., Milder, M. S. and Johnston, G. S. Interpretation of the ⁷⁷Ga photoscan, 208
 Larson, S. M.
 see McIntyre, P. A.
 see Milder, M. S.
 see Oldham, R. K.
 see Wiseman, J.
 Lathrop, K. A., Dinwoodie, R., Gloria, I., Rich, B., Lembaras, N. and Harper, P. V. ¹⁵N-glutamate and ⁷⁵Se-selenomethionine for pancreas, 421*
 Lathrop, K. A., Johnston, R. E., Blau, M., Rothschild, E. O. and Smith, E. M. Radiation dose estimates to humans from ⁷⁵Se-selenomethionine, 49
 Lathrop, K. A.
 see Harper, P. V.
 see Hoffer, P. B.
 see Krizek, H.
 see Lembaras, N.
 Laughlin, J. S.
 see Greenberg, E.
 see Mayer, K.
 Lazarevic, B. see Marsden, D. S.
 LeBel, E. see Tran, N.
 LeBlanc, A. D., Bell, R. L. and Johnson, P. C. Measurement of ¹²⁷I concentration by fluorescence, 816
 Lebowitz, E., Greene, M. W., Bradley-Moore, P., Atkins, H. L., Ansari, A. N., Richards, P. and Belgrave, E. ²⁰¹Tl for medical use, 421*
 Lee, F. A. see Gates, G. F.
 Lee, G. see Waxman, A. D.
 Lee, H. B. see Chervu, L. R.
 Lee, J. I. see Lin, M. S.
 Lee, V. W., Sano, R. and Freedman, G. Whole-body gamma camera imaging, 830
 Legler, W. see Robinson, R. G.
 Lehan, P. H. see Smith, R. O.
 Leins, P. A. see Siemsen, J. K.
 Lembaras, N., Dinwoodie, R., Gloria, I., Lathrop, K. A., Bautovich, G. and Harper, P. V. ¹⁵NH₃ and ¹⁵N-glutamate for tumor localization, 630*
 Lembaras, N.
 see Harper, P. V.
 see Hoffer, P. B.
 see Krizek, H.
 see Lathrop, K. A.
 Lensink, S. C.
 see Ehrhardt, J. C.
 see Oberly, L. W.
 Leon, S. see Shapiro, B.
 Leone, C. L., Rosenfeld, S. D. and Herbig, F. K. Effect of focal point on image contrast, 474*
 Leopold, G. see Leyton, B.
 Lerner, S. R. see Cooper, P. H.
 Levenson, N. I. see Sodd, V. J.
 Levine, A. see Blau, L. M.
 Levine, G. see Carroll, R. G.
 Lewis, C. see Henry, C. A.
 Lewis, J. T. see Nishiyama, H.
 Lewis, S. M. see Hegde, U. M.
 Leyton, B., Halpern, S. E., Leopold, G. and Hagen, S. Ultrasound and scintiscan studies of the liver, 27
 Liang, J.-C. see Yeh, S.-H.
 Liang, T. see Chervu, L. R.
 Lifofsky, L. J. see Castellana F. S.
 Liebeskind, A. L., Herz, D. A., Rosenthal, A. D. and Freeman, L. M. ¹³¹I-HSA demonstration of spinal dural leaks, 356
 Lilien, D. L., Berger, H. G., Anderson, D. P. and Bennett, L. R. ¹¹¹In-chloride for bone marrow imaging, 184
 Lilien, D. L. see Emmerson, D. A.
 Lilker, E. see Fallat, R. J.
 Lin, D. H. see Pierson, R. N.
 Lin, M. S. and Burke, G. Transferrin binding of indium, 882
 Lin, M. S., Burke, G. and Lee, J. I. Early urinary excretion of ^{113m}In, 126
 Lin, M. S. and Goodwin, D. A. ^{99m}Tc-Bleomycin preparation and pharmacodynamics, 422*
 Lin, M. S., Hayes, T. M. and Goodwin, D. A. Radioaerosol for inhalation lung studies, 630*
 Lin, M. S. see Goodwin, D. A.
 Lin, T. H. see Winstead, M. B.
 Lisbona, R., Lacourciere, Y. and Rosenthal, L. Aspergillomatous abscesses of the brain and thyroid, 541
 Littenberg, R. see Halpern, S. E.
 Llacer, J. see Graham, L. S.
 Loberg, M. D., Phelps, M. E. and Welch, M. J. Carrier free ¹³³Xe preparation, 733
 Loberg, M. D. see Krohn, K. A.
 Loeser, J. D. see Rudd, T. G.
 Lohrmann, H.-P. and Heimpel, H. ^{99m}Tc-red blood cells, 871
 Loken, M. K., Payne, J. T., Ponto, R. A. and Kronenberg, R. Dual camera studies of lung function, 422*
 Loken, M. K.
 see Payne, J. T.
 see Ponto, R. A.
 Lopez-Majano, V. see Mayron, L. W.
 Lory, M. see Chervu, L. R.
 Lowes, M. and Gydesen, F. R. Evaluation of a ^{99m}Tc-MAA kit, 474*
 Lowey, A. see Park, H. M.
 Lucas, Z. see DeGrazia, J. A.
 Lusted, L. B. see Anderson, T. M.
 MacDonald, N. S.
 see Graham, L. S.
 see Neely, H. H.
 see Poe, N. D.
 see Robinson, G. D.
 see Spalter, L. S.
 MacGregor, R. R.
 see Ansari, A. N.
 see Fowler, J. S.
 MacIntyre, W. J. see Inkley, S. R.
 Madewell, J. E. see Grove, R. B.
 Mahon, D. F., Subramanian, G. and McAfee, J. G. Radioactive agents for placental studies, 651
 Maier, W. see Charles, N. D.
 Mal mud, L. S., McKusick, K. A., Kirchner, P., Williams, G. M., Natarajan, T. K. and Wagner, H. N. Quantitative evaluation of renal transplant function, 423*
 Mal mud, L. S.
 see McKusick, K. A.
 see Merz, T.
 Mangum, J. F. and Powell, M. R. Liver scintigraphy, 484
 Manitasas, G. T. see Park, H. M.
 Manske, E. see Chesnut, C. H.
 Markham, J. see Secker-Walker, R. H.
 Marsden, D. S., Alexander, C., Yeung, P., Dunn, A. and Lazarevic, B. ^{99m}Tc in gastric scintigraphy, 632*
 Martin, N. D. see Strauss, H. W.
 Marty, P. see Askienazy, S.
 Marty, R. and Denney, J. D. Clinical comparison of ^{99m}Tc-diphosphate, ^{87m}Sr and ¹⁸F, 423*
 Maslow, D. E. ⁵¹Cr and ¹⁴C-labeled amino acids uptake by carcinoma cells, 84
 Mason, M. see Mayer, K.
 Mata, J. S. see Park, C. H.
 Mathew, J. see Robinowitz, M.
 Matsui, K., Yamada, H., Chiba, K. and Iio, M. Soft tissue uptake of ^{99m}Tc-phosphorous compounds, 632*
 Maugham, E. see Mayer, K.
 Mayorga, A. see Harper, P. V.
 Mayer, K., Maugham, E., Clarke, L. P., Mason, M., Knapper, W. H., Tilbury, R. S. and Laughlin, J. S. Diagnosis of erythroid metaplasia by assay of splenic ⁵⁵Fe, 424*
 Mayron, L. W., Lopez-Majano, V. and Kaplan, E. Sieving albumin microspheres with sonification, 511
 McAfee, J. G.
 see Kallfelz, F. A.
 see Mahon, D. F.
 see Subramanian, G.
 McCartney, W. H., Fennessy, J. J. and Hoffer, P. B. Carcinoembryonic antigen titer in lung malignancy, 424*
 McCartney, W. see Nijensohn, E.
 McCormack, K. R. see Morita, E. T.
 McCullough, D. C. see Harbert, J. C.

- McDonald, G. B. and Hamilton, G. W.** Segmental pulmonary arteriography, 631*
- McDonald, G. B., Hamilton, G. W., Barnes, R. W., Rudd, T. G., Strandness, D. E. and Nelp, W. B.** Radionuclide venography, 425*
- McDonald, G. B., Hamilton, G. W., Barnes, R. W., Rudd, T. G., Strandness, D. E. and Nelp, W. B.** Radionuclide venography, 528
- McIff, B.** see Siemsen, J. K.
- McIntyre, P. A.** 99m Tc-red blood cells, 871
- McIntyre, P. A., Larson, S. M., Scheffel, U., Hodkinson, B. A., Eikman, E. A., Colman, M. and Wagner, H. N.** Metabolism of iron- and indium-transferrin by erythropoietic marrow, 425*
- McIntyre, P. A.** see Briedis, D.
- McKamey, M. R., Artis, E. J. and Hansen, D. D.** Radiopharmacology of 99m Tc-Sn-P₂O₇, 426*
- McKusick, K. A., Malmud, L. S., Kirchner, P. T. and Wagner, H. N.** Artifact in kidney imaging, 113
- McKusick, K. A., Malmud, L. S. and Wagner, H. N.** Diagnosis of occult CSF rhinorrhea, 631*
- McKusick, K. A., Malmud, L. S., Kordela, P. A. and Wagner, H. N.** Nasal secretion of intrathecally injected 111 In-DTPA, 933
- McKusick, K. A., Soin, J. S., Cooper, M. and Wagner, H. N.** Regional lung function in obstructive disease, 427*
- McKusick, K. A.**
see Kirchner, P. T.
see Malmud, L. S.
see Merz, T.
see Soin, J. S.
- McNeill, K. G. and Harrison, J. E.** Neutron activation analysis in bone disease, 427*
- McNeill, K. G., Thomas, B. J., Sturridge, W. C. and Harrison, J. E.** In vivo activation analysis for Ca, 502
- McRae, J., Sugar, R., Hook, G., Shipley, B. and Yano, Y.** Effect of Sn(II) on 99m TcO₄⁻ metabolism, 428*
- McRae, J.**
see Valk, P. E.
see Yano, Y.
- McVey, J. T.**
see DeLand, F. H.
see Tilden, R. L.
- Meaburn, G. M.** see Gray, F. C.
- Meade, R. C.** see Yeh, E.
- Meares, C. F.** see Goodwin, D. A.
- Mehter, A.** see Subramanian, G.
- Meier, D. A.** see Hamburger, J. I.
- Meindok, H.** see Ter Brugge, K. G.
- Meltzer, H., Fieve, R., Eiff, K. and Pierson, R. N.** Displacement of body K by Rb, 633*
- Merrick, M. V.** Performing 18 F bone scans on the gamma camera, 65
- Merrill, Q.** see Telfer, N.
- Merz, T., McKusick, K. A., Malmud, L. S. and Wagner, H. N.** Phytohemagglutinin stimulation of 67 Ga uptake in lymphocytes, 428*
- Metz, C. E. and Goodenough, D. J.** Observer performance and scan smoothing, 873
- Metzger, J. M., Secker-Walker, R. H., Coleman, R. E., Krohn, K. and Potchen, E. J.** Four methods for radioiodination of fibrinogen, 429*
- Metzger, J. M. and Ter-Pogassian, M. M.** Myocardial blood flow measurement with $H_2^{15}O$, 429*
- Miale, A.** see Serafini, A.
- Mikolajkow, A. and Jasinski, W. K.** Increased focal uptake of radio-colloid by the liver, 175
- Milder, M. S., Frankel, R. S., Bulkley, G. B., Ketcham, A. S. and Johnston, G. S.** 67 Ga scanning in malignant melanoma, 430*
- Milder, M. S., Larson, S. M., Swann, S. J. and Johnston, G. S.** False-positive liver scan due to breast prosthesis, 189
- Milder, M. S.**
see Boyce, C. L.
see Larson, S. M.
- Miller, C.** see O'Rourke, J.
- Miller, D.** see Blau, L. M.
- Miller, D. P., Wellman, H. N. and Anger, R. T.** Administration system for ^{133}Xe for lung ventilation studies, 475*
- Miller, S.** see Williams, G.
- Mincey, E. K., Wilcox, E. and Morrison, R. T.** Determination of serum and red cell folate, 633*
- Mintzer, R. A.**
see Anderson, T. M.
see Chiles, J. T.
- Mitchell, M. L.** Resin uptake of displaced $^{125}I-T_4$, 336
- Mitchell, T. G.** Book Review; *Basic Medical Statistics*, 718
- Monod, O.** see Raynaud, C.
- Moore, J., Goldberg, M. E. and Kieffer, S. A.** Dynamic flow studies in intracranial tumors, 430*
- Moore, J. G.** see Bonte, F. J.
- Moore, L. V. and Kearney, J. J.** Tomocamera lung studies, 475*
- Mori, T., Hamamoto, K. and Torizuka, K.** 99m Tc-Bleomycin for tumor imaging, 431*
- Mori, T.** see Ishii, Y.
- Morinari, H., Shimada, K., Taplin, G. V., Johnson, D. E. and Benfield, J. R.** Bronchial mucous transport after lung autotransplant, 432*
- Morita, E. T., McCormack, K. R. and Weisberg, R. L.** 'Hot spot' in the liver, 606
- Morrison, R. T.** see Mincey, E. K.
- Morton, D. L.** see Verma, R. C.
- Morton, R. J.** see Wagner, M. S.
- Moses, D. C., Beierwaltes, W. H. and Sturman, M. F.** Adrenal imaging with ^{131}I -cholesterol, 634*
- Moses, D. C., Natarajan, T. K., Previosi, T. J., Udvarhelyi, G. B.** and Wagner, H. N. Cerebral circulation studies with 99m TcO₄⁻, 142
- Moss, M. L. and Freeman, M.** Scintigraphic diagnosis of abruptio placenta, 297
- Moyer, R. A.** Comparison of multi-hole converging and pinhole collimators, 432*
- Muehllehner, G. and Wellman, H. N.** Collimator resolution versus sensitivity, 432*
- Mukai, T.** see Ishii, Y.
- Mullins, J.** Three phase cerebral vascular flow study, 476*
- Murao, S.** see Sasaki, Y.
- Murphy, P. H., Burdine, J. A. and Calderon, M.** Experimental converging collimator for the scintillation camera, 433*
- Murthy, M. S. S., Venkataraman, G. and Datta, S.** Revised parameters for Loevinger's beta point source, 846
- Myers, W. G.** ^{39}K for in vivo studies of dynamic processes, 359
- Myers, W. P. L.** see Greenberg, E.
- Nakama, M.** see Sugitani, Y.
- Nardizzi, L. R.** see Stokely, E. M.
- Natarajan, T. K.**
see Eikman, E. A.
see Moses, D. C.
see Malmud, L. S.
see Prokop, E. K.
see Rhodes, B. A.
- Nathanson, N.** see Som, P.
- Neely, H. H., MacDonald, N. S., Takahashi, J., Birdsall, R. and Poe, N. D.** Cyclotron production of ^{43}K , 433*
- Nelp, W. B.**
see Allen, D. R.
see Chesnut, C. H.
see McDonald, G. B.
see Rudd, T. G.
- Nelson, B.** see Cloutier, R. J.
- Nelson, F. R.** see Stevenson, J. S.
- Nickles, R. J. and Au, Y. F.** Oxygen clock, 634*
- Nijensohn, E., McCartney, W. and Hoffer, P. B.** Fluorescent thyroid scan artifact, 179
- Nishiyama, H., Sodd, V. J., Ashare, A. B., Berke, R. A. and Saenger, E. L.** ^{123}I and ^{131}I for thyroid disease, 434*
- Nishiyama, H., Sodd, V. J., August, L. and Lewis, J. T.** Tumor studies with ^{129}CsI , 635*
- Nishiyama, H.** see Sodd, V. J.
- Nomura, S.** see Ishii, Y.
- Nordlander, S., Wiklund, P. E. and Asard, P. E.** Angioscintigraphy in brain death and coma, 856
- Norton, E.** see Lambrecht, R. M.
- Novak, L. P.** Total-body K during the first year of life, 550
- Nukada, T.** see Sugitani, Y.
- Oberly, L. W., Lensink, S. C. and Ehrhardt, J. C.** Radiation scatter in NaI imaging system, 878
- Oberly, L. W.** see Ehrhardt, J. C.
- O'Brien, H. A. and Ogard, A.** Prep-

AUTHORS INDEX

- aration of ^{89}Sr , ^{123}I , ^{127}Xe and ^{133}Cs , 635*
- Ogard, A. see O'Brien, H. A.
- Oldendorf, W. H., Phelps, M. E., Hoffer, P. B. and Cassen, B. K absorption edge measurement of tissue iodine, 434*
- Oldham, R. K., Larson, S. M., Givelber, H. M., Chretien, P. B. and Johnson, R. E. ^{51}Cr -labeled platelets for evaluation of splenic sequestration in CLL, 219
- O'Mara, R. E. see Emmerson, D. A.
- Onstad, G. R. see Shafer, R. B.
- Oppenheim, B. E. Non-hepatic to hepatic tissue activity ratio, 636*
- Orme, H. W. see Gates, G. F.
- O'Rourke, J., Durrani, J., Benson, C., Miller, C., Bronzino, J. and Hsu, T. ^{67}Zn concentration in the eye, 435*
- Overton, T. R. see Snyder, R. E.
- Oxley, D. K., Reeves, B. and Schmidt, L. Comparison of ^{89}Sr and ^{99m}Tc -polyphosphate for bone studies, 435*
- Pack, A. see Gray, H. W.
- Padula, G. see Ariel, I. M.
- Palmer, H. E. Total-body calcium by ^{36}Ar measurement, 522
- Pang, S. C. see Genna, S.
- Pannaciore, C. see Bok, B.
- Papoulis, A. see Cahill, P. T.
- Park, C. H., Glassman, L. M., Thompson, N. L. and Mata, J. S. Renal imaging with ^{99m}Tc -polyphosphate, 534
- Park, H. M., Chen, I.-W., Manitasas, G. T., Lowey, A. and Saenger, E. L. Evaluation of radioimmunoassay of digoxin, 531
- Park, H. M., Smith, E. T. and Silberstein, E. B. Right to left shunt diagnosed by radionuclide angiography, 240
- Park, H. M.
see Chen, I. W.
see Silberstein, E. B.
- Parker, J. A. see Secker-Walker, R. H.
- Parkey, R. W. and Bonte, F. J. Scan of abdominal wall collateral venous blood pool, 110
- Parkey, R. W.
see Bonte, F. J.
see Curry, G. C.
see Stokely, E. M.
- Parrot, R. see Raynaud, C.
- Patten, D. H. see Boller, F.
- Patton, D. D., Allen, J. H., Staab, E. V. and Foster, A. 'Temporalis' activity in the brain scan, 436*
- Patton, J. A. see Price, P. R.
- Payne, J. T., Reinke, D. and Loken, M. K. Linear axial tomography, 436*
- Payne, J. T.
see Loken, M. K.
see Ponto, R. A.
- Payne, V. C. see Gates, G. F.
- Peña, H. G. and Watts, R. S. ^{59}Fe -iron hydroxide retention in monkeys' lungs, 437*
- Pendergrass, H. P. see Castronovo, F. P.
- Perez, R. see Bok, B.
- Perez-Mendez, V.
see Blumin, L. J.
see Powell, M. R.
- Perry, R. R. Spatial distortions produced by the gamma camera, 125
- Petit-Clere, Y. Tomographic detector with true depth resolution, 437*
- Pettit, J. E.
see Hegde, U. M.
see Jones, T.
- Pfannenstiel, P. and Pixberg, H. U. Response of ^{131}I -labeled thyroid hormones to thyrotrophin releasing hormone, 437*
- Phelps, M. E.
see Loberg, M. D.
see Oldendorf, W. H.
- Piepsz, A., Decostre, P. and Baran, D. Pulmonary blood flow distribution in cystic fibrosis, 326
- Pierson, R. N., Lin, D. H., Dagan, J. and Castellana, F. S. Quantitative radiocardiography measurement of left ventricular function, 438*
- Pierson, R. N.
see Castellana, F. S.
see Meltzer, H.
see Price, D. C.
- Pinsky, S. M., Bailey, T. B., Blom, J., Grove, R. B., Borski, A. and Johnson, M. C. ^{67}Ga -citrate in testicular malignancies, 439*
- Pinsky, S. M., Gottschalk, A., Que, Y. L. and Johnson, M. C. Lung overlap in liver-lung scanning, 438*
- Pinsky, S. M.
see Grove, R. B.
see Thrall, J. H.
- Pircher, F. J. see Cooper, P. H.
- Pitt, B.
see Prokop, E. K.
see Rigo, P.
see Wiseman, J.
- Pittman, J. P. and Reager, M. H. Technical organization of nuclear medicine laboratories, 476*
- Pixberg, H. U. see Pfannenstiel, P.
- Poe, N. D., Eber, L. M., Graham, L. S. and MacDonald, N. S. ^{43}K and ^{133}Cs for myocardial imaging, 440*
- Poe, N. D., Robinson, G. D. and MacDonald, N. S. Myocardial extraction of labeled fatty acids and carboxylates, 440*
- Poe, N. D. and Selin, C. E. ^{123}Cs studies in experimental myocardial infarction, 439*
- Poe, N. D. see Neely, H. H.
- Poggenburg, J. K. see Holman, B. L.
- Pokorny, J. see Anderson, T. M.
- Pollycove, M. see Fish, M. B.
- Ponto, R. A., Loken, M. K. and Payne, J. T. Dual isotope renal studies, 441*
- Ponto, R. A. see Loken, M. K.
- Porter, V. L. see Rhodes, B. A.
- Portnay, G. see Abreau, C.
- Potchen, E. J.
see Metzger, J. M.
see Secker-Walker, R. H.
- Potsaid, M. S.
see Castronovo, F. P.
see Houston, J.
- Powell, M. see Williams, G.
- Powell, M. D. see Blau, L. M.
- Powell, M. R., Huberty, J., Price, D. C., Kaufman, L. and Perez-Mendez, V. Multi-wire proportional chambers for imaging, 441*
- Powell, M. R.
see Fallat, R. J.
see Mangum, J. F.
- Previosi, T. J. see Moses, D. C.
- Price D. see Williams, G.
- Price, D. C., Wilson, C. J., Kaufman, L. and Pierson, R. N. Extracellular fluid volume determination by fluorescent excitation analysis of Br, 442*
- Price, D. C. see Powell, M. R.
- Price, P. R., Ivancevic, D., Patton, J. A. and Brill, A. B. CAMAC data acquisition system, 636*
- Prince, E. W. see Dewanjee, M. K.
- Pritchard, J. H., Winston, M. A. and Blahd, W. H. Radioisotope and ultrasonic imaging of kidneys, 442*
- Prokop, E. K., Strauss, H. W., Naratarajan, T. K., Pitt, B. and Wagner, H. N. ^{43}K and microsphere methods for myocardial studies, 443*
- Ptacek, J. J. see Go, R. T.
- Que, Y. L. see Pinsky, S. M.
- Quinn, J. L.
see Henkin, R. E.
see Jacobstein, J. G.
- Quinones, J. D. ^{99m}Tc -S colloid localization after RES stimulation, 443*
- Quinones, J. D. see Keyes, J. W.
- Raban, P., Gregora, V., Šindelář, J. and Alvarez-Cervera, J. Preparation of ^{99m}Tc - and ^{111}In -albumin microspheres, 344
- Raikar, U. R. and Ganatra, R. D. Comparison of liver scan agents, 763
- Ranade, V. V. see Counsell, R. E.
- Rao, B. S. N. see Shenolikar, I. S.
- Rao, D. V. and Goodwin, P. N. ^{203}Pb for skeletal imaging, 872
- Rapp, G. S. see Grove, R. B.
- Raynaud, C., Comar, D., Dutheil, M., Blanchon, P., Monod, O., Parrot, R. and Rymer, M. Lung cancer diagnosis with ^{67}Cu , 947
- Raynaud, C., Jacquot, C. and Freedman, L. Renal uptake of $^{197}\text{HgCl}_2$, 444*
- Rayudu, G. V. S., Shirazi, P. H., Friedman, A. and Fordham, E. W. ^{59}Fe (II)-citrate and ^{111}In -chloride for hemopoietic marrow scanning, 397*
- Rayudu, G. V. see Shirazi, P. H.
- Razzak, M. A. Selective distribution of caval blood, 870
- Reager, M. H., Sopko, E. P. and

- Pittman, J. P.** 99m Tc-polyphosphate whole-body imaging, 476*
- Reager, M. H.** see Pittman, J. P.
- Reba, R. C.** see Grove, R. B.
- Reddington, B.** see Thrall, J. H.
- Reed, C.** see Busse, W.
- Reed, V. R.** see Harbert, J. C.
- Reeves, B.** see Oxley, D. K.
- Refetoff, S.** see Hoffer, P. B.
- Rehfeld, S. D.** see Cummings, G. R.
- Reinke, D. B.**
see Damm, D. W.
see Payne, J. T.
- Reivich, M.** see Kuhl, D. E.
- Resnick, L.** see Secker-Walker, R. H.
- Rhodes, B. A.** Arteriovenous shunt measurements, 248
- Rhodes, B. A., Porter, V. L.** and Natarajan, T. K. Distribution of arteriovenous anastomoses, 444*
- Rhodes, B. A.** see Siegel, M. E.
- Rhodes, C. G.** see Jones, T.
- Ricci, A. R.** see Kuhl, D. E.
- Rich, B.** see Lathrop, K. A.
- Richard, L.** see Askienazy, S.
- Richards, A. G.** Transferrin binding of indium, 881
- Richards, P.** see Atkins, H. L.
- Richards, P.** see Lebowitz, E.
- Richmond, D. R., Yipintsoi, T., Coulam, C. M., Titus, J. L.** and Bassingthwaite, J. B. MAA studies of dog coronary circulation, 129
- Riggins, R. S.** see Stadalnik, R. C.
- Rigo, P., Strauss, H. W.** and Pitt, B. Left ventricular function in acute myocardial infarction, 445*
- Rigo, P.** see Wiseman, J.
- Riley, R. C.** see Robinson, R. G.
- Robb, J.** see Wellman, H. N.
- Robbins, P. J., Silberstein, E. B.** and Fortman, D. L. Comparison of 111 In-Bleomycin and 111 InCl₃, 637*
- Roberts, W. C.** see Kramer, R. J.
- Robinowitz, M., Mathew, J., Eckelman, W.** and Harbert, J. C. Fatal reactions following 99m Tc-Fe hydroxide lung scans, 445*
- Robinson, G. D.** 18 F-fluoroaliphatic analog synthesis, 446*
- Robinson, G. D. and MacDonald, N. S.** 18 F and 113 C-labeled carboxylates and alcohols, 446*
- Robinson, R. G., Herrin, W. F., Legler, W., Youngberg, I. E., Riley, R. C.** and Kelly, G. L. Computerization of the nuclear medicine laboratory, 447*
- Robinson, G. D.**
see Graham, L. S.
see Poe, N. D.
- Rogers, W. L.** and Ryo, U. Y. Sensitivity of 133 Xe ventilation studies, 447*
- Rohrer, R. H.** see Cloutier, R. J.
- Romhilt, D. W.** see Sodd, V. J.
- Rosenthal, A. D.** see Liebeskind, A. L.
- Rosenthal, L.** see Lisbona, R.
- Rosenfeld, S. D.** see Leone, C. L.
- Rossomondo, R. M.** see Carlton, W. H.
- Rothschild, E. O.** see Lathrop, K. A.
- Rudd, T. G., Shurtleff, D. B., Loeffer, J. D.** and Nelp, W. B. CSF shunt function in children, 683
- Rudd, T. G.** see McDonald, G. B.
- Rudin, S.** see Bardfeld, P. A.
- Ruetz, P. P.** see Yeh, E.
- Ryan, W. G.** see Shirazi, P. H.
- Ryerson, T. W.** see Klingensmith, W. C.
- Rymer, M.** see Raynaud, C.
- Ryo, U. Y.** and Beierwaltes, W. H. 14 C-isoxazole distribution, 321
- Ryo, U. Y.**
see Rogers, W. L.
see Sturman, M. F.
- Sabbah, B.** see BenZeev, D.
- Saenger, E. L., Hoops, R. G.** and Alexander, G. W. Data handling in the nuclear medicine laboratory, 448*
- Saenger, E. L.**
see Berke, R. A.
see Carroll, R. G.
see Chen, I.-W.
see Nishiyama, H.
see Park, H. M.
see Silberstein, E. B.
- Saha, G. B.** and Farrer, P. A. Evaluation of 99m Tc-DTPA, 248
- Saha, G. B.** see Farrer, P. A.
- Saito, I.** see Sasaki, Y.
- Sakoh, T.** see Kato, S.
- Samuels, L. D.** see Wanken, J. J.
- Sandeen, R.** see Albers, J. W.
- Sanders, A. P.** 131 I-triolein absorption test, 300
- Sanders, C. A.** see Hoop, B.
- Sanders, T.** see Bloch, P.
- Sankey, R.** see Serafini, A.
- Sano, K.** see Sasaki, Y.
- Sano, R.** see Lee, V. W.
- Sargent, N.** see Winsor, D. W.
- Sasaki, T.** see Anno, Y.
- Sasaki, Y., Murao, S., Basugi, N., Saito, I., Sano, K., Kobayashi, T.** and Sugita, T. Regional cerebral blood flow measured by a semiconductor beta detector, 448*
- Sawada, N.** see Inouye, T.
- Scheffel, U.** see McIntyre, P. A.
- Scheibe, P.** see DeGrazia, J. A.
- Scheyer, M.** see Kovaleski, B.
- Schiff, M.** see Freedman, G.
- Schmidt, L.** see Oxley, D. K.
- Schneider, P. B.** Electrolytic preparation of 99m Tc(Sn)-citrate, 843
- Schulz, A. G.** see Knowles, L. G.
- Secker-Walker, R. H., Hill, R. L., Markham, J., Baker, J., Wilhelmi, J., Alderson, P. O.** and Potchen, E. J. Regional ventilation measurement, 725
- Secker-Walker, R. H., Resnick, L., Kunz, H., Parker, J. A., Hill, R. L.** and Potchen, E. J. Measurement of left ventricular ejection fraction, 798
- Secker-Walker, R. H.** see Metzger, J. M.
- Selin, C. E.** see Poe, N. D.
- Sell, E.** see Dyer, N. C.
- Serafini, A., Altman, R., Sankey, R., Coble, C.** and Miale, A. Evaluation of response to chemotherapy in Paget's disease, 449*
- Shafer, R. B.** and Onstad, G. R. 131 I-triolein absorption test marker, 449*
- Shamoun, J.** see Chandra, R.
- Shapiro, B., Kollman, G., Leon, S.** and Cantor, R. Anti-DNA antibody test for systemic lupus erythematosus, 450*
- Shapiro, B.**
see Cantor, R. E.
see Stahl, T. J.
- Sharpe, A. R.** see Fratkin, M. J.
- Shenolikar, I. S.** and Rao, B. S. N. Salt iodization with calcium iodate, 2
- Shibata, K.** see Yamada, H.
- Shih, W.-J.** see Yeh, S.-H.
- Shimada, K.** see Morinari, H.
- Shimmins, J. G., Sumner, D. J.** and Hall, I. E. Profile scanning optimization, 895
- Shimmins, J.** see Bastomsky, C. H.
- Shipley, B.** see McRae, J.
- Shirazi, P. H., Rayudu, G. V. S.** and Fordham, E. W. 18 F scan of extraskeletal osteogenic sarcoma, 295
- Shirazi, P. H., Rayudu, G. V. S., Ryan, W. G.** and Fordham, E. W. Bone scanning in Paget's disease, 450*
- Shirazi, P. H., Stern, A. J., Sidell, M. S., Rayudu, G. V. S.** and Fordham, E. W. Bone scanning in bronchogenic carcinoma, 451*
- Shirazi, P. H.** see Rayudu, G. V. S.
- Shoop, L. E.** see Krishnamurthy, G. T.
- Shore, H.** see Genna, S.
- Shtasel, P.** Screening procedure for renal artery hypertension, 451*
- Shurtleff, D. B.** see Rudd, T. G.
- Sidell, M. S.** see Shirazi, P. H.
- Siebert, S. T.** see DiGiulio, W.
- Siegel, B. A.** see Alderson, P. O.
- Siegel, M. E., Giargiana, F. A., Rhodes, B. A., Greyson, N. D., White, R. I.** and Wagner, H. N. Peripheral vascular perfusion scanning, 452*
- Siemsen, J. K.** Post-operative hepatic regeneration, 453*
- Siemsen, J. K.** Blood flow study terminology, 870
- Siemsen, J. K.** and Telfer, N. Regional ventilation studies at varying lung volumes, 453*
- Siemsen, J. K., Waxman, A. D., Leins, P. A.** and McIff, B. Differentiation of focal hepatic disease, 452*
- Siemsen, J. K.**
see Waxman, A. D.
see Winsor, D. W.
- Silberstein, E. B.** Urine collection in the Schilling test, 692
- Silberstein, E. B., Francis, M. D., Tofe, A.** and Saenger, E. L.

AUTHORS INDEX

- ^{99m}Tc-diphosphonate distribution, 637*
- Silberstein, E. B.**, Saenger, E. L., Tofe, A. J., Alexander, G. W. and Park, H. M. Bone studies with ^{99m}Tc-Sn-EHDP, ¹⁸F and x-rays, 454*
- Silberstein, E. B.**
see Park, H. M.
see Robbins, P. J.
- Silva, P.** see Harvey, W. C.
- Simon, W.** see Keyes, J. W.
- Šindelář, J.** See Raban, P.
- Singhal, S. S.** see Harding, L. K.
- Singhelakis, P.** see Alevizaki, C. C.
- Smith, A. H. and Hayter, C. J.** ¹³¹I-triolein absorption test, 299
- Smith, E. M.**
see Cloutier, R. J.
see Lathrop, K. A.
- Smith, E. T.** see Park, H. M.
- Smith, R. O., Bennett, K. R., Lehman, P. H. and Hellem, H. K.** ⁴³K studies following myocardial resection, 638*
- Smith, R. O., Bennett, K. R., Suzuki, A., Lehman, P. H. and Hellem, H. K.** ⁴³K serial imaging of coronary bypass grafts, 454*
- Smith, T. W.** see Hoop, B.
- Smith, V. C.** see Anderson, T. M.
- Smits, R. G.** see Zakkad, H.
- Snyder, R. E. and Overton, T. R.** System for handling and dispensing ¹³³Xe, 56
- Soave, A.** see Hutchinson, F.
- Sodd, V. J., Romhilt, D. W., Adolph, R. J., Levenson, N. I., August, L. S. and Nishiyama, H.** Myocardial infarction studies with ¹³²Cs, 455*
- Sodd, V. J.** see Nishiyama, H.
- Soin, J. S., McKusick, K. A. and Wagner, H. U.** Regional lung function in narcotic addicts, 455*
- Soin, J. S.** see McKusick, K. A.
- Solaric-George, E.**
see Fletcher, J. W.
see Henry, R. E.
- Solomon, N.** see Kappes, R.
- Som, P., Tenorio, L. E., Hosain, F., Harrison, K. S., Wagner, H. N. and Nathanson, N.** CSF clearance of ¹¹¹In- and ¹⁰⁰Yb-DTPA in disease, 638*
- Sondel, J. A.** see Ackerman, R. E.
- Sopko, E. P.** see Reager, M. H.
- Sorandes, T.** see Cooper, M.
- Sorkin, A.** see Halko, A.
- Soulen, R.** see Charkes, N. D.
- Spencer, R. P.** Hepatic flow studies, 250
- Spencer, R. P., Antar, M. A. and Toulioukian, R. J.** Liver size increase following splenectomy, 854
- Spencer, R. P., Antar, M. A., Toulioukian, R. J. and Knowlton, A. H.** Splenomegaly relief following liver irradiation, 939
- Spencer, R. P.**
see Caride, V. J.
see Lange, R. C.
- Spolter, L. S., Cohen, M. B., Mac-**
- Donald, N. S., Troulman, B. and Chang, C. C.** Tumor uptake of ¹⁵N-NH₃, -L-glutamine and -L-glutamic acid, 456*
- Staab, E. V.** see Patton, D. D.
- Stadnik, R. C., Riggins, R. S., D'Ambrosia, R. and DeNardo, G. L.** Femoral head circulation, 639*
- Stahl, T. J. and Shapiro, B.** Human thyrotropin radioimmunoassay in thyroid carcinoma, 900
- Stahlman, M. T.** see Dyer, N. C.
- Stark, V.** see Hoffer, P. B.
- Staub, R. T. and Gaston, E.** ¹¹¹In-chloride kinetics in hematologic disease, 456*
- Stein, R. A.** see Tubis, M.
- Stelling, C. B.** see Tetelman, M. R.
- Stern, A. J.** see Shirazi, P. H.
- Stern, H. S.** see Kozar, J. J.
- Stevenson, J. S., Bright, R. W., Dunson, G. L. and Nelson, F. R.** ^{99m}Tc-polyphosphate in bone healing, 457*
- Stevenson, J. S. and Dunson, G. L.** Cardiac changes with ^{99m}Tc-Sn-phosphates, 774
- Stevenson, J. S.**
see Flor, W. J.
see Hosain, F.
- Stewart, J.** see Cravitz, B.
- Stewart, W. K.** see Hutchinson, F.
- Stichler, S.** see Krishnamurthy, G. T.
- Stokely, E. M., Nardizzi, L. R., Parkey, R. W. and Bonte, F. J.** Regional myocardial perfusion data, 699
- Stokely, E. M., Parkey, R. W., Nardizzi, L. R. and Bonte, F. J.** Regional blood flow in the myocardium, 639*
- Stokely, E. M.** see Curry, G. C.
- Straatman, M., Hortmann, A. G. and Welch, M. J.** ¹¹C-acetoacetic acid preparation, 457*
- Strandness, D. E.** see McDonald, G. B.
- Strauss, H. W., Zaret, B. L., Martin, N. D., Wells, H. P. and Flamm, M. D.** ⁴³K evaluation of regional myocardial perfusion, 458*
- Strauss, H. W.**
see Prokop, E. K.
see Rigo, P.
see Wiseman, J.
- Streuli, F.** see Chandra, R.
- Stupka, J.** see Harper, P. V.
- Sturman, M. F., Beierwaltes, W. H., Ryo, U. and Ice, R. D.** Imaging functional nodules of the adrenal glands, 458*
- Sturman, M. F.** see Moses, D. C.
- Sturridge, W. C.** see McNeill, K. G.
- Subramanian, G., Blair, R. J., Kallfelz, E. A., Thomas, F. D. and McAfee, J. G.** ^{99m}Tc-methylene diphosphonate for bone studies, 640*
- Subramanian, G., McAfee, J. G. and Blair, R. J.** Pharmaceutical toxicity, 719
- Subramanian, G., McAfee, J. G.,**
- Mehter, A., Blair, R. J. and Thomas, F. D.** ^{99m}Tc-Sn-phytate for RES imaging, 459*
- Subramanian, G.**
see Kallfelz, F. A.
see Mahon, D. F.
- Sugar, R.** see McRae, J.
- Sugita, T.** see Sasaki, Y.
- Sugitani, Y., Nakama, M., Yamachi, Y., Imaizumi, M., Nukada, T. and Abe, H.** Neovascularization and ^{99m}Tc-uptake in cerebral hematoma, 912
- Suhami, A.** see Ben Zeev, D.
- Sumner, D. J.** see Shimmins, J. G.
- Sunderland, M. L. and Brookeman, V. A.** Preparation of bolus ^{99m}Tc-S colloid, 230
- Sunderland, M. L. and Brookeman, V. A.** Preparation of bolus ^{99m}Tc-S colloid, 477*
- Swanik, R.** see Tubis, M.
- Suzuki, A.** see Smith, R. O.
- Swann, S. J., Johnston, G. S. and Green, M. V.** Computer analysis to improve imaging, 477*
- Swann, S. J., Jones, A. E., Johnston, G. S. and Lamoureux, K. B.** Assessment of superior vena cava obstruction, 477*
- Swann, S. J.** see Milder, M. S.
- Szur, L.** see Hegde, U. M.
- Takahashi, J.** see Neely, H. H.
- Takino, H.** see Hisada, K.
- Taplin, G. V.** see Morinari, H.
- Taube, R. R.** see Chaudhuri, Tapan K.
- Teager, H. M.** see Genna, S.
- Telfer, N., Weiner, J. M. and Merrill, Q.** K exchange and Na distribution in chronic obstructive pulmonary disease, 459*
- Telfer, N.**
see Siemsen, J. K.
see Waxman, A. D.
- Tenorio, L. E.** see Som, P.
- Teraro, Y.** see Yamada, H.
- Ter Brugge, K. G. and Meindok, H.** Rim sign in brain imaging, 709
- Ter-Pogossian, M. M.** see Metzger, J. M.
- Tetelman, M. R., Hoffer, P. B., Stelling, C. B. and Anderson, T. M.** Efficacy of emergency lung scans, 460*
- Thalasso, M.** see Beckers, C.
- Thomas, B. J.** see McNeill, K. G.
- Thomas, F. D.** see Subramanian, G.
- Thompson, N. L.** see Park, C. H.
- Thrall, J. H., Ghaed, N., Pinsky, S. M., Grove, R. B. and Johnson, M. C.** ^{99m}Tc-polyphosphate bone scanning, 460*
- Thrall, J. H., Reddington, B., Johnson, M. C. and Pinsky, S. M.** Lymphatic dynamics with ^{99m}Tc-S colloid, 640*
- Tiffany, M.** see Henry, C. A.
- Tilbury, R. S.** see Mayer, K.
- Tilden, R. L., Jackson, J., Enneking, W. F., DeLand, F. H. and McVey, J. T.** ^{99m}Tc-polyphosphate histologic localization, 576

- Tilden, R. L.** see DeLand, F. H.
Titus, J. L. see Richmond, D. R.
Tofe, A. J.
 see Silberstein, E. B.
 see Wellman, H. N.
Tonami, N. see Hisada, K.
Tonkin, A. see DeLand, F. H.
Tono, M. see Fish, M. B.
Torizuka, K.
 see Ishii, Y.
 see Mori, T.
Touloukian, R. J.
 see Caride, V. J.
 see Spencer, R. P.
Touya, J. J. see Verma, R. C.
Tran, N. and LeBel, E. Continuous flow ionization chamber for DOPA decarboxylase assay, 924
Treves, S. see Holman, B. L.
Troulman, B. see Spolter, L. S.
Trueblood, J. H. see Carlton, W. H.
Tsiantos, A. K. see Dyer, N. C.
Tubis, M., Blahd, W. H., Endow, J. S., Krishnamurthy, G. T., Stein, R. A. and Suwanik, R. ^{131}I - and ^{99m}Tc -metronidazoles for amebic hepatic abscess imaging, 461*
Tubis, M. see Krishnamurthy, G. T.
Tyson, I. see Busse, W.
Udvarhelyi, G. B. see Moses, D. C.
Vagenakis, A. G. see Abreau, C. M.
Valk, P. E., Dilts, C. A. and McRae, J. Possible artifact in gel chromatography of some ^{99m}Tc -chelates, 235
Vanags, K. see Kovaleski, B.
Van Deripe, D. R. see Hopkins, R. M.
Van Dyke, D. C. see Yano, Y.
Vaughan, E. D. see Johnson, P. M.
Venkataraman, G. see Murthy, M. S.
Verel, M. see Askienazy, S.
Verma, R. C., Bennett, L. R., Touya, J. J., Morton, D. L. and Witt, E. ^{113}In -Bleomycin for tumor studies, 641*
Victery, W. see Webber, M. M.
Victorin, L. H. see Dyer, N. C.
Villarreal, R. L., Dietz, G. W. and Bonte, F. J. Experimental pertechnetate mammography, 641*
Vincent, W. R. see Bosnjakovic, V. B.
Vogel, J. see DeGrazia, J. A.
Wagner, H. N.
 see Briedis, D.
 see Castronovo, F. P.
 see Eikman, E. A.
 see Hosain, F.
 see Langen, J. K.
 see Larson, S.
 see Malmud, L. S.
 see McIntyre, P. A.
 see McKusick, K. A.
 see Merz, T.
 see Moses, D. C.
 see Prokop, E. K.
 see Siegel, M. E.
 see Soin, J. S.
 see Som, P.
 see Wiseman, J.
Wagner, M. S., Morton, R. J., Gra-
ham, L. S., Greenfield, L. D. and Bennett, L. R. Quantitative cisternography with ^{113}In -DTPA, 462*
Wahner, H. W. see Gaitan, J. E.
Wahner-Roedler, D. L. and Fairbanks, V. F. Cobalt excretion test, 462*
Wallerstein, R. O. see Fish, M. B.
Walsh, C. F. see Krishnamurthy, G. T.
Walton, P. W. Aperture imaging system with decoding and tomographic abilities, 861
Waltz, T. see Halpern, S. E.
Wanken, J. J., Eyring, E. J. and Samuels, L. D. Diagnosis of pediatric bone lesions, 803
Waters, S. L. see Jones, T.
Watson, E. E., Cloutier, R. J. and Gibbs, W. D. Whole-body retention of ^{67}Ga -citrate, 840
Watson, E. E. see Cloutier, R. J.
Watts, R. S. see Peña, H. G.
Waxman, A. D., Apau, R. and Siemsen, J. K. Hepatic flow studies, 250
Waxman, A. D., Bryan, D. and Siemsen, J. K. Bone scanning in the drug abuse patient, 647
Waxman, A. D., Lee, G. and Siemsen, J. K. ^{67}Ga in differential diagnosis of brain tumors, 463*
Waxman, A. D., Lee, G., Wolfstein, R. and Siemsen, J. K. Differential diagnosis of brain lesions, 903
Waxman, A. D., Telfer, N. and Siemsen, J. K. Dynamic imaging of the spleen, 463*
Waxman, A. D., Telfer, N. and Siemsen, J. K. Dynamic imaging of the spleen, 582
Waxman, A. D. see Siemsen, J. K.
Webber, M. M. and Victery, W. Electrophoretic mobility and charge of MAA, 463*
Weber, D. A., Keyes, J. W., Benedetto, W. J. and Wilson, G. A. $^{99m}\text{Tc-Sn}$ pyrophosphate kinetics, 642*
Weber, D. A. see Wilson, G. A.
Weiner, J. M. see Telfer, N.
Weisbaum, S. D. and Garnett, E. S. Brain scan in Schilder's disease, 291
Weisberg, R. L. see Morita, E. T.
Welch, M. J.
 see Krohn, K. A.
 see Loberg, M. D.
 see Straatman, M.
Wellisch, M. and Holmquest, D. Diagnosis of pancreatic pseudocyst, 107
Wellman, H. N., Anger, R. T., Browne, A., Tofe, A. J., Francis, D., Khairi, R. and Johnston, C. Bone studies with $^{99m}\text{Tc-Sn}$ -EHDP and Na^{18}F , 464*
Wellman, H. N., Robb, J., Khairi, R. and Johnston, C. Bone scan and x-ray in Paget's disease, 464*
Wellman, H. N.
 see Carroll, R. G.
 see Miller, D. P.
 see Muehllehner, G.
Wells, H. P. see Strauss, H. W.
Wesselossky, B. see Hays, M. T.
Westreich, G. see Kieffer, S. A.
Wexler, M. J. and Farrer, P. A. ^{131}I -rose bengal metabolism in liver transplants, 465*
White, R. I. see Siegel, M. E.
Wiklund, P. E. see Nordlander, S.
Wilcox, E. see Mincey, E. K.
Wilhelm, J. see Secker-Walker, R. H.
Williams, C. M. see Brookeman, V. A.
Williams, E. D. see Hegde, U. M.
Williams, G., Kaufman, L., Powell, M., Miller, S. and Price, D. Image storage system for the scintillation camera, 465*
Williams, G. M. see Malmud, L. S.
Williams, J. O. Inadvertent intraarterial injection of MAA particles, 249
Williams, J. P. see Fowler, G. W.
Wilson, C. J.
 see Kaufman, L.
 see Price, D. C.
Wilson, D. T. see DeMeester, G.
Wilson, G. A., Keyes, J. W. and Weber, D. A. Evaluation of camera system deadtime, 642*
Wilson, G. A.
 see Keyes, J. W.
 see Weber, D. A.
Winchell, H. S. see Winstead, M. B.
Winsor, D. W., Grebe, S. F., Sargent, N. and Siemsen, J. K. Pulmonary concentration of ^{67}Ga in pneumoconiosis, 466*
Winstead, M. B., Lamb, J. F. and Winchell, H. S. ^{113}C -carboxylates preparation and distribution, 747
Winstead, M. B., Lin, T. H., Khetigan, A., Lamb, J. F. and Winchell, H. S. ^{13}C -labeled nitriles and hydantoins, 643*
Winston, M. A., Bluestone, R., Cracchiolo, A. and Blahd, W. H. Radioisotope synevectomy with ^{32}P -chromic phosphate, 886
Winston, M. A., Guth, P., Blahd, W. H. and Endow, J. S. Urecholine and pancreozymin enhancement of pancreas studies, 643*
Winston, M. A.
 see Krishnamurthy, G. T.
 see Pritchard, J. H.
Wiseman, J., Straus, H. W., Pitt, B., Rigo, P., Larson, S. M. and Wagner, H. N. ^{67}Ga -citrate heart studies in bacterial endocarditis, 644*
Witek, J. T. see Caride, V. J.
Witt, E. see Verma, R. C.
Wolberg, J. see Freedman, G.
Wolf, A. P.
 see Ansari, A. N.
 see Christman, D. R.
 see Fowler, J. S.
 see Lambrecht, R. M.
Wolff, J. M. see Kieffer, S. A.
Wolfstein, R. see Waxman, A. D.
Wrench, J. C. see Buttfield, I. H.

- Wyburn, J. R.** Human breast milk excretion of radionuclides, 115
- Yamada, H., Chiba, K., Iio, M., Shibata, K. and Terao, Y.** New radioimmunoassay method, 466*
- Yamada, H.** see Matsui, K.
- Yamauchi, Y.** see Sugitani, Y.
- Yang, C.-S., Grieco, R. V. and Bartone, N.** "Clear plate" anatomic orientation technique, 644*
- Yano, Y., McRae, J., Van Dyke, D. C. and Anger, H. O.** ^{99m}Tc -Sn-EHDP for bone scanning, 73
- Yano, Y.** see McRae, J.
- Yao, J. S.** see Henkin, R. E.
- Yarom, A.** see Ben Zeev, D.
- Yasillo, N.** see Harper, P. V.
- Yeh, E.** ^{67}Ga window in Ohio-Nuclear scanner, 361
- Yeh, E. and Meade, R. C.** Quantitative analysis of brain scans, 176
- Yeh, E., Meade, R. C. and Ruetz, P. P.** Radionuclide study of struma ovarii, 118
- Yeh, S.-H., Shih, W.-J. and Liang, J.-C.** Delayed $^{99m}\text{TcO}_4^-$ brain scanning in chronic subdural hematoma, 467*
- Yeh, S.-H., Shih, W.-J. and Liang, J.-C.** Intravenous radionuclide hepatography, 565
- Yershova, A.** see Czerniak, P.
- Yeung, P.** see Marsden, D. S.
- Youdath, C.** see Henry, C. A.
- Youngberg, I. E.** see Robinson, R. G.
- Yipintsoi, T.** see Richmond, D. R.
- Zager, P.** see Freedman, G.
- Zaklad, H., Derenzo, S. E. and Smits, R. G.** Liquid xenon gamma camera, 645*
- Zaret, B. L.** see Strauss, H. W.
- Zeitz, L.** see Greenberg, E.
- Zimmerman, D.** see Adams, R.
- Zimmerman, S.** see Genna, S.
- Zioni, Y.** see Ben Zeev, D.

1973 SUBJECT INDEX

Asterisk indicates abstract

- Abscess**
 aspergillomatous, brain and thyroid, $^{99m}\text{TcO}_4^-$, 541
 ^{67}Ga -citrate uptake, in monkeys, 399*
 liver, extrahepatic ^{99m}Tc -S colloid uptake, 537
 liver, ^{131}I - and ^{99m}Tc -metronidazole imaging, 461*
 nontuberculous psoriasis, ^{67}Ga scan, 499
 staphylococcal, ^{67}Ga -citrate scans, in rats, 99
- Abdomen**
 abnormal structures in liver flow studies, 250
 injury, pancreatic pseudocyst diagnosis, 107
 wall, venous blood pool in cirrhosis, 110
- Acetylsalicylic acid**
 effect on $^{99m}\text{TcO}_4^-$ serum binding, in vitro, 149
- Adrenal glands**
 ^{113}C -dopamine hydrochloride, preparation, distribution, in animals, 377*, 867
 ^{113}C -dopamine uptake in pheochromocytoma, 376*, 781
 ^{113}C -isoxazole distribution in carcinoma, 321
 effect of disease on total-body K, 40
 ^{131}I -iodocholesterol esters, preparation, distribution, in rats, 777
 ^{131}I -19-iodocholesterol, dosimetry, 416*, 713
 ^{131}I -19-iodocholesterol imaging, 458*; in children, 634*
- Adverse reactions**
 ^{131}I -IHSAs, intrathecal injection, 387*
 ^{111}In -DTPA, intrathecal injection, 609
 ^{99m}Tc -Fe hydroxide, 445*
see also Indium-113m; Iodine-125; Iodine-131, albumin; Technetium-99m, albumin
 MAA, effect on pulmonary circulation, in dogs, 375*
 MAA, electrophoretic mobility and thrombosis affinity, 463*
- Alcohol**
 T₁ extraction efficiencies, 826
- Aliphatics**
 ^{18}F -fluoroaliphatic analog synthesis, 446*
- Americium-241**
 source for fluorescent excitation analysis, 179, 816
- Amino acids**
 ^{14}C - and ^{55}Cr -labeled, uptake by carcinoma, 84
- Antibiotic**
 ^{131}I - and ^{99m}Tc -metronidazole preparation hepatic abscess imaging, 461*
- Antibody**
 -anti-CEA, ^{131}I - and ^{131}I , tumor scanning, in animals, 408*
- anti-DNA-, test for systemic lupus erythematosus, 450*
- α_1
- antitrypsin deficiency, 5
-
- ^{133}Xe
- lung ventilation, 5
- Arm**
see Extremities
- Argon**
 liquid target, ^{40}K cyclotron production, 433*
- Argon-37**
 total-body Ca, neutron activation analysis, in animals, 522
- Artifact**
 fluorescent scan, extrathyroidal iodine, 179
 gastric secretion of $^{99m}\text{TcO}_4^-$ from ^{99m}Tc -DTPA, 113
 image, tomography, 103
 scintillation camera, filter plate, 14
 transverse section scanning, 196
- Autoradiography**
 ^{99m}Tc -polyphosphate, in bone, 390*, 576
 ^{67}Ga , excised melanoma, 468*
 ^{67}Ga , myocardial infarct, in dogs, 418*
 ^{99m}Tc , gastric mucosa, in dogs, 632*
- Background**
 tissue, regional lung ventilation, ^{133}Xe , 725
 to-liver ratio, 636*
- Bacteria**
 ^{67}Ga -citrate uptake, 399*
 infection, effect on bone marrow scans, 407*
 staphylococcal abscess, ^{67}Ga scans, in rats, 99
 viral meningitis, CSF clearance of ^{111}In and ^{166}Yb -DTPA, 638*
- Barium-131**
-SO₄, marker for ^{131}I -triolein absorption test, 449*
- Barium-137m**
-EDTA, pH monitor for infusion system, 341
- Beta**
 point source distribution function, 843
- Bile**
see Gallbladder
- Bleomycin**
 ^{111}In -, ^{67}Co -, ^{67}Ga -, ^{59}Fe -, tumor imaging, 627*
 ^{111}In -, preparation, tumor uptake, 401*
 ^{111}In -, tumor imaging, 625*
 ^{99m}Tc -, electrolytic preparation, 415*
 ^{99m}Tc -, preparation, tumor imaging, 422*
 ^{99m}Tc -, tumor imaging, compared to ^{67}Ga , 431*

Blood

see also Red Blood Cell
anemia, Vitamin B₁₂ absorption, 135
clot, MAA affinity, 463*
clot, portal vein, effect of splenectomy on liver size, 854
clot, radioiodinated streptokinase distribution, in animals, 623*
clot, ^{99m}Tc-streptokinase, preparation, 629*
⁵¹Cr-phagocytes, preparation, 890
¹¹¹In-bleomycin uptake, in mice, 401*
kinetics of ⁶⁷Ga-compounds, in mice, 164
leukemia, ⁵¹Cr-platelet sequestration, 219
leukemia, ⁶⁷Ga-citrate scans, 208
leukocyte metabolism of ¹⁴C-glucose in chronic granulomatous disease, 591
radiation dose, ⁷⁵Selenomethionine, 49
reticulocyte uptake of ¹¹¹In and ⁵⁵Fe, 184
^{99m}Tc-bleomycin distribution, in mice, 422*
transferrin binding of ¹¹³In, 882

Blood flow

see also specific organ, Vascular system
abdominal wall venous pool in cirrhosis, 110
caval-portal shunting, ^{99m}Tc-S colloid liver image, 348, 883
femoral head, ¹⁹F, tetracycline fluorescence, in dogs, 639*
¹¹¹In-chloride kinetics in hematologic disease, 456*
MAA, electrophoretic mobility and thrombosis affinity, 463*
oxygen clock, 634*
streamline, portal vein, 79
superior vena cava obstruction, ^{99m}TcO₄⁻, 477*
terminology, 870

Blood vessels

see specific organ, Vascular system

Bone

comparisons of ¹⁸F and ^{99m}Tc-labeled phosphorous compounds, imaging, 375*, 380*, 454*, 464*
comparison of ^{99m}Tc-diphosphonate, ¹⁹F and ^{87m}Sr, 423*
comparison of ^{99m}Tc-polyphosphate and ⁸⁵Sr, lesion detection, 435*
dose estimates, Ga isotopes, MIRD, 755
¹⁹F, ⁴⁵Ca, ⁸⁵Sr and ^{99m}Tc-polyphosphate, in rabbits, 426*
¹⁹F imaging, 500 cases, 65
¹⁹F scan in drug abuse cases, 647
¹⁹F studies in bronchogenic carcinoma, 451*
¹⁹F, premature craniosynostosis detection, 397*
⁶⁷Ga-citrate scans, in cancer, 208
healing, ^{99m}Tc-polyphosphate imaging, in dogs, 457*
imaging, Fresnel zone plate, 391*
¹¹¹In-bleomycin uptake, in mice, 401*
lesion, differential diagnosis, in children, ^{87m}Sr, 803
mass, by photon absorption and neutron activation analysis, 386*
mineralization in disease, ⁴⁵Ca, photon absorptiometry, 402*
necrosis, ¹⁹F and tetracycline fluorescence, in dogs, 639*
Paget's disease evaluation, ^{99m}Tc-S colloid, ¹⁹F, ^{99m}Tc-polyphosphate, 928
Paget's disease, scan experience, 450*, 464*
²¹⁰Pb imaging, in rabbits, 872
quantitative pharmacodynamics, ^{99m}Tc phosphate compounds, 624*
radiation therapy effects, ^{99m}Tc-diphosphonate, 604
skull metastasis in breast cancer, 720
^{87m}Sr response to chemotherapy imaging, 449*
^{99m}Tc-polyphosphate, diphosphonate and pertechnetate retention, in dogs, 414*
^{99m}Tc-bleomycin distribution, in mice, 422*
^{99m}Tc-diphosphonate, cartilage uptake, in rats, 637*
^{99m}Tc-diphosphonate, preparation, distribution, in animals, 73
^{99m}Tc-methylene diphosphonate distribution, 640*
^{99m}Tc-polyphosphate, cellular deposition, 390*, 576

^{99m}Tc-polyphosphate, electrolytic preparation, 415*
^{99m}Tc-polyphosphate, incidental kidney scan, 534
^{99m}Tc-polyphosphate, scan and image comparison, 419*
^{99m}Tc-polyphosphate, scanning, 460*, 469*
^{99m}Tc-pyrophosphate, distribution, toxicity, in animals, 409*

^{99m}Tc-pyrophosphate kinetics, 642*
total-body scanning, ^{99m}Tc-diphosphonate, 546
total-body studies, ^{99m}Tc-polyphosphate, 469*, 476*, 830
uptake and chain length of ^{99m}Tc-polyphosphates, in rats, 695
whole-body Ca, ³²Ar method, NAA, in animals, 522
whole-body Ca, NAA, 427*, 502

Bone marrow

dose estimates, Ga isotopes, MIRD, 755
⁶⁷Ga uptake mechanism, in animals, 625*
¹¹¹InCl₃, ⁶⁷Fe(II)-citrate scanning, in animals, 397*
¹¹¹In-chloride imaging, 184
¹¹¹In-chloride kinetics in hematologic disease, 456*
¹¹¹In-, ¹¹³In-, ¹¹⁴In-, ⁵⁵Fe-transferrin metabolism, in animals, 425*
¹¹¹In-transferrin scanning, 394*
Paget's disease imaging, ^{99m}Tc-S colloid, 928
scanning, effects of granulocytopenia, chemotherapy, and infection, 407*
^{99m}Tc-S colloid uptake during liver scan, 537
^{99m}Tc-Sn-phytate, preparation, distribution, in animals, 459*
transplant, lung uptake of ^{99m}Tc-S colloid, 201

Book review

Basic Medical Statistics, 718
Nuclear Medicine, 187
Nuclear Radiation Physics, 187

Brain

agent optimization, 618
aspergillomatous abscess, 541
autopsy correlation to scan, 381*
cerebral infarct, uptake of ¹⁸F and ^{99m}Tc-polyphosphate, 941
¹¹C-nitriles and -hydantoins, preparation, distribution, in dogs, 643*
collimator comparison, scintillation camera, 432*
collimator, magnifying, 834
decarboxylation of DOPA-carboxyl-¹⁴C, in vitro, 924
delayed scanning, ^{99m}TcO₄⁻, 380*, 467*
dual-nuclide imaging, ^{99m}Tc-DTPA, ¹¹¹In-chloride, 399*
effect of perchlorate blocking dose on imaging, 543
Fresnel zone plate imaging, 393*
hematoma, experimental, ^{99m}TcO₄⁻ uptake, in rats, 912
image interpretation, 850
image transmission by telephone, 376*
¹¹¹In-bleomycin uptake, in mice, 401*
intracranial bleeding in newborns, ⁵⁷Co-RBC, 807
lesion differentiation, ⁶⁷Ga and ^{99m}TcO₄⁻, 463*, 903
metabolism agent, ¹¹C-acetoacetic acid, preparation, 457*
orbital and retro-orbital lesions, imaging, ^{99m}TcO₄⁻, 403*
portable camera imaging, 585
posterior fossa cyst, ^{99m}TcO₄⁻ image, 944
rim sign in epidural hematoma, ^{99m}TcO₄⁻, 709
sarcoma uptake, ⁶⁷Ga-compounds, in mice, 164
scanning and echoencephalography in chronic subdural hematomas, 410*
scanning, quantitative analysis, 176
Schilder's disease scan, ^{99m}TcO₄⁻, 291
subdural hematoma scanning, ^{99m}TcO₄⁻, 283
^{99m}Tc-bleomycin distribution, in mice, 422*
^{99m}TcO₄⁻ binding, in vitro, 149
^{99m}TcO₄⁻, ^{99m}Tc-polyphosphate, ⁶⁷Ga-citrate scans, 412*
^{99m}TcO₄⁻ uptake in choroid plexus, 352
temporalis activity, 426*
tomography, image artifacts, 103
tomography, scintillation camera, 436*

SUBJECT INDEX

- transverse section scanning, orthogonal tangent correction, 196
- tuberous sclerosis imaging, $^{99m}\text{TcO}_4^-$, 215
- tumor differentiation, ^{75}Ga and $^{99m}\text{TcO}_4^-$, 463*
- tumor uptake of ^{99m}Tc -diphosphonate, 632*
- Brain, blood flow**
- cerebral death diagnosis, $^{99m}\text{TcO}_4^-$, 122
 - differential diagnosis of brain death and coma, 856
 - effect of injection technique, 205
 - quantitative $^{99m}\text{TcO}_4^-$ studies, 142
 - semiconductor detector, ^{85}Kr , in dogs, 448*
 - $^{99m}\text{TcO}_4^-$, 265, 288, 430*, 558
 - three-phase flow study, 476*
 - ^{127}Xe studies, 172
- Breast**
- carcinoma, ^{11}C -isoxazole distribution, 321
 - lactation, radioisotope excretion, 51, 115
 - tumor, ^{99m}Tc mammography, 641*
- Bromine**
- extracellular fluid volume by fluorescent excitation analysis, 442*, 812
- Bromine-82**
- extracellular fluid volume, fluorescent excitation analysis, 442*
 - extracellular water, isotope exchange, 459*
- Cadmium-109**
- source, fluorescent excitation analysis, 442*, 812
- Calcium**
- EDTA effects on parathyroid hormone levels, radioimmunoassay, 385*
 - iodate, iodization of salt, 2
 - plasma, effect on parathyroid hormone production, radioimmunoassay, 386*
 - total body, neutron activation analysis, 386*, 427*, 502
 - total body, neutron activation analysis, ^{37}Ar gas method, in animals, 522
- Calcium-45**
- absorption test, 449*
 - and ^{45}Ca , absorption, effect of age, 760
 - and ^{45}Ca , absorption, effect of age, 760
 - beta point source distribution function, 847
 - distribution, compared to other bone agent, in rabbits, 426*
- Calcium-47**
- kinetics in diseased bone, 402*
- Calcium-48**
- in vivo neutron activation analysis, 502
- Camera, Fresnel zone plate**
- large organ imaging, 391*
- Camera, positron**
- collimator, 627*
 - myocardial imaging, $^{15}\text{NH}_4^+$, in dogs, 181
 - transverse section heart imaging, $^{15}\text{NH}_4^+$, in dogs, 623*
- Camera, scintillation**
- annular aperture imaging, 861
 - cerebral angiography, $^{99m}\text{TcO}_4^-$, 265, 288
 - characteristics, dynamic quantitative studies, 413*
 - collimator, converging, 433*
 - collimator, effects, 21
 - collimator, magnifying, brain imaging, 834
 - collimator, multiprobe, 389*
 - collimator, pinhole and multihole converging, 432*
 - compared to scanner, ^{99m}Tc -polyphosphate bone studies, 419*
 - computer, cardiac flow/volume, $^{99m}\text{TcO}_4^-$, 395*
 - computer, heart left ventricular ejection fraction measurement, 798
 - computer, intracardiac shunt diagnosis, 514
 - computer, multi-machine, 447*
 - computer, quantitative cerebral circulation, 142
 - computer, quantitative renal function, 423*
 - computer, regional gas exchange in lung, 490
 - computer, regional lung ventilation, ^{133}Xe , 725
 - computer, regional myocardial perfusion, ^{133}Xe , in dogs, 669
 - computer, system utility, 477*
 - crystal, uncoated, 379*
 - deadtime, 496, 642*
 - digital tape recorder modification, 699
 - dual, computer, ^{133}Xe lung studies, 422*
 - high counting-rate performance, 383*
 - image storage system, 465*
 - imaging rats, ^{131}I -T-t-glucuronide and -rose bengal metabolism, 34
 - kidney angiography, ^{99m}Tc , 451*
 - lacrimal drainage imaging, $^{99m}\text{TcO}_4^-$, 89
 - liquid xenon, 645*
 - liver correlation with ultrasound, 27
 - lung studies, ^{127}Xe , 172
 - lung ventilation, ^{133}Xe , 447*
 - motion correction, hardware, 378*
 - multicrystal, evaluation, 474*
 - orbital and retro-orbital brain lesions, $^{99m}\text{TcO}_4^-$, 403*
 - photographic film comparisons, 472*
 - photomultiplier, external electric field, 379*
 - portable, 585
 - renogram, statistical analysis, 253
 - resolution, effect of signal processing and filter plate, 14
 - spatial distortion, 125, 383*
 - spleen studies, effect of patient position, ^{99m}Tc -S colloid, 386*
 - thyroid uptake $^{99m}\text{TcO}_4^-$, "split field" method, 907
 - tomography, 436*
 - whole-body bone imaging, ^{99m}Tc -polyphosphate, 830
- Carbon-11**
- acetate, distribution, in animals, 448*
 - acetate, myocardial extraction, in dogs, 440*
 - acetoacetic acid, preparation, 457*
 - carboxylates, myocardial extraction, in dogs, 440*
 - carboxylates, preparation, distribution, in dogs, 747
 - ^{11}Co -red cells, extravascular water, in vitro, in dogs, 414*
 - dopamine hydrochloride, preparation, distribution, in animals, 377*, 867
 - ethanol, distribution, in animals, 446*
 - ^{11}CN , carrier-free, cyclotron production, 864
 - methanol, -ethanol, myocardial extraction, in dogs, 440*
 - nitriles and -hydantoins, preparation, distribution in dogs, 643*
 - norepinephrine distribution, in animals, 619*
 - octanoate, distribution, in animals, 446*
 - oleic acid, myocardial extraction, in dogs, 440*
 - palmitate, distribution, in animals, 446*
 - positron energy effect on spatial resolution, 401*
- Carbon-14**
- amino acids, uptake by carcinoma cells, 84
 - beta point source distribution function, 847
 - DNA, anti-DNA antibody test for systemic lupus erythematosus, 450*
 - DOPA carboxylase, chamber method assay, 924
 - dopamine, uptake in pheochromocytomas, 376*, 781
 - glucose, antigen and antibody assay, 420*
 - glucose metabolism in chronic granulomatous disease, 591
 - isoxazole, distribution in carcinoma, 321
 - tripalmitin, "breath test" for pancreas insufficiency, 622*
- Cardiac**
- see Heart*
- Carotene**
- absorption test, 449*
- Cartilage**
- uptake of ^{99m}Tc -EHDP, 637*
- Cerebral**
- see Brain*
- Cerebral spinal fluid**
- see Cisternography*
- Cesium-129**

- chloride, tumor scanning, 635*
- cyclotron production, purification, 471*
- myocardial imaging, 440*
- myocardial infarction detection, 455*
- myocardial infarction uptake, in dogs, 439*
- physical properties, 243
- production, LAMPF, 635*
- radiation exposure of personnel, 382
- Cesium-131**
 - chloride, multi-wire proportional chamber imaging, in animals, 441*
 - physical properties, 243
- Cesium-134m**
 - myocardial imaging, in dogs, 243
- Cesium-141**
 - citrate, tumor uptake, in rats, 615
 - hydroxy-citrate, multi-wire proportional chamber imaging, in animals, 441*
 - tumor uptake, in rats, 408*
- Chelates**
 - see also Indium-111, DTPA; Indium-113m; Technetium-99m, DTPA; Ytterbium-169*
 - DTPA, ^{67}Ga -, kinetics, in mice, 164
 - EDTA, ^{99m}Ba , pH monitor for infusion system, 341
 - EDTA, effect on plasma Ca and parathyroid hormone levels, 385*, 386*
 - ^{99m}Tc -Sn-gluconate, gel chromatography, 235
- Chemotherapy**
 - effect on bone marrow scans, 407*
 - Paget's disease, 449*, 450*
 - Prednisone, aspergillomatous abscess of brain and thyroid, 541
- Cholesterol**
 - esters, ^{125}I -iodo-, preparation, distribution, in rats, 777
 - ^{131}I -19-iodo-, adrenal gland imaging, 458*, 634*
 - ^{131}I -, radiation dosimetry, 416*, 713
- Cholecystokinin**
 - pretreatment for gallbladder imaging, 393*
- Chromatography**
 - ^{67}Co -, ^{67}Ga -, ^{113}In -bleomycin, 917
 - gel, ^{99m}Tc -Sn-gluconate, 235
 - quality control for kits, on site, 362, 364
 - quality control of ^{99m}Tc compounds, 793
- Chromium-51**
 - amino acids, uptake by carcinoma cells, 84
 - chloride, distribution in pregnancy, in animals, 651
 - phagocytes, preparation, 890
 - platelets, splenic sequestration in lymphocytic leukemia, 219
- Cisternography**
 - adverse reaction, ^{131}I -IHSA, 387*
 - adverse reaction, ^{113}In -DTPA, 609
 - CSF shunt evaluation, ^{113}In -DTPA, in children, 399*, 920
 - CSF shunt evaluation, $^{99m}\text{TcO}_4^-$, 405*, 683
 - hyperbaric, ^{131}I , ^{99m}Tc -HSA, ^{113}In -DTPA, 226
 - hyperbaric, ^{99m}Tc -Tc-albumin, in monkeys, 223
 - ^{131}I -IHSA and ^{100}Yb -DTPA comparison, 405*, 765
 - ^{131}I -IHSA, arachnoid cyst, 61
 - ^{113}In - and ^{100}Yb -DTPA, viral meningitis, in dogs, 638*
 - ^{113}In -DTPA, hydrocephalic children, 620*
 - ^{113}In -DTPA, rhinorrhea, 631*, 933
 - primate model, communicating hydrocephalus, 626*
 - progressive dementia, ^{99m}Tc -HSA, 415*
 - quantitative, ^{113}In -DTPA and -EDTA, 462*
 - spinal dural leaks, ^{131}I -IHSA, 356
 - ^{100}Yb -Ca-DTPA, abnormal kidney, 59
 - ^{100}Yb -DTPA, biological behavior, in dogs, 93
 - ^{100}Yb -DTPA, posterior fossa cyst, 944
- Clinical evaluation**
 - anti-DNA-antibody test for systemic lupus erythematosis, 124 cases, 450*
 - Baird Atomic Multi-crystal scanning gamma camera, 456 cases, 474*
- $^{131}\text{BaSO}_4$ marker, ^{131}I -triolein absorption test, 120 cases, 449*
- blood flow in cerebral vascular disease, $^{99m}\text{TcO}_4^-$, 84 cases, 558
- bone, ^{18}F , scintillation camera, over 500 cases, 65
- bone scanning, comparison of ^{18}F , ^{87m}Sr , ^{99m}Tc -phosphate complexes, 300 cases, 410*; 69 cases, 423*
- bone studies in Paget's disease, 80 cases, 450*
- brain image interpretation, $^{99m}\text{TcO}_4^-$, 67 cases, 850
- brain lesion differentiation, ^{67}Ga , $^{99m}\text{TcO}_4^-$, 77 cases, 903
- brain neoplasm, dynamic flow studies, 59 cases, 430*
- brain scan, autopsy correlation, 238 cases, 381*
- brain scan, subdural hematoma, 98 cases, 283
- brain, $^{99m}\text{TcO}_4^-$ angiography, 356 cases, 265
- Ca absorption, dual-isotope technique, 52 cases, 760
- cisternography in progressive dementia, ^{99m}Tc -HSA, 85 cases, 415*
- ^{60}Co -RBC, intracranial bleeding, in newborns, 69 cases, 807
- digoxin radioimmunoassay, 129 cases, 531
- dynamic spleen imaging, ^{99m}Tc -S colloid, 46 cases, 463*, 582
- emergency lung imaging, 224 cases, 460*
- ^{18}F bone studies in bronchogenic carcinoma, 206 cases, 451*
- ^{67}Ga -citrate scans in melanoma, 32 cases, 430*
- ^{67}Ga -citrate whole-body scans, 488 cases, 208
- hyperbaric cisternography, 30 cases, 226
- hypothyroidism after ^{131}I therapy, 1119 cases, 377*
- ^{131}I thyroid therapy, effect on T_3 and T_4 , 68 cases, 396*
- ^{131}I therapy in thyroid cancer, 54 cases, 419*
- ^{113}In -bleomycin tumor studies, 101 cases, 641*
- ^{43}K and ^{129}Cs myocardial imaging, 50 cases, 440*
- ^{43}K myocardial scan, 49 cases, 458*
- kidney, quantitative dynamic imaging, $^{99m}\text{TcO}_4^-$, 80 cases, 628*
- kidney transplant, $^{99m}\text{TcO}_4^-$, ^{131}I -Hippuran, 24 cases, 384*
- left ventricular function in acute myocardial infarct, 30 cases, 445*
- liver, correlation of imaging and ultrasound, 137 cases, 27
- liver focal disease differentiation, ^{67}Ga , 79 cases, 452*
- liver imaging, ^{99m}Tc -S colloid, biopsy correlation, 173 cases, 484
- liver, jaundice type differentiation, radio-toluidine blue, 178 cases, 388*
- liver pathology evaluation, ^{67}Ga -citrate, ^{99m}Tc -S colloid, 55 cases, 402*
- liver perfusion, ^{113m}In , 95 cases, 565
- lung perfusion in cystic fibrosis, 73 cases, 326
- lung ventilation, ^{133}Xe , α_1 -antitrypsin deficiency, 50 cases, 5
- myocardial infarction detection, ^{129}Cs , 50 cases, 455*
- myocardial ischemia imaging, $^{13}\text{NH}_3$, 36 cases, 405*
- nontoxic autonomously functioning thyroid adenoma, 138 cases, 404*
- observer performance, 416*
- peripheral vascular perfusion scanning, ^{99m}Tc - and ^{113m}In -microspheres, 100 studies, 452*
- quantitative analysis of normal brain scan, 38 cases, 176
- quantitative cerebral circulation, $^{99m}\text{TcO}_4^-$, 83 cases, 142
- quantitative renal transplant function studies, 63 cases, 423*
- regional lung function, ^{133}Xe , ^{99m}Tc -microspheres, 30 cases, 427*
- spleen size, ^{99m}Tc -S colloid images, 223 cases, 390*
- ^{99m}Tc -DTPA renal studies, in children, 100 cases, 473*
- ^{99m}Tc -MAA kit, 100 cases, 474*; 45 cases, 702
- ^{99m}Tc -methylene diphosphonate bone studies, 60 cases, 640*
- $^{99m}\text{TcO}_4^-$ thyroid uptake, 152 cases, 907
- $^{99m}\text{TcO}_4^-$ venography, 77 cases, 528
- ^{99m}Tc -polyphosphate bone scanning, 150 cases, 460*

SUBJECT INDEX

- ^{99m}Tc renal angiography screening for hypertension, 96**
studies, 451*
- ^{99m}Tc-Sn-EHDP bone imaging, 55 cases, 464***
- thyroxine, combined method for total and free, 150 cases, 740**
- tomography, image artifacts, 100 cases, 103**
- total-body K by whole-body counting, 750 cases, 40**
- total-body K, in infants, 64 cases, 550**
- T_c absorption in intestinal disease, 56 cases, 406***
- T_c, indirect indicator test, 116 cases, 159**
- tumor imaging, ^{99m}Tc-bleomycin compared to ⁶⁷Ga, 142 cases, 431***
- venography, ^{99m}TcO₄⁻, 77 cases, 425***
- Vitamin B₁₂ absorption, dual isotope technique, 111 cases, 135**
- ¹³³Xe regional ventilation at different lung volumes, 117 cases, 453***
- Cobalt-50**
-RBC, intracranial bleeding in newborns, 807
- Cobalt-57**
-Bleomycin, tumor, imaging, 627*
- Bleomycin, distribution, Ehrlich's carcinoma, in mice, 917
- B₁₂(IF), ⁶⁵Co-B₁₂, simultaneous absorption, 568
- B₁₂, distribution in pregnancy, in animals, 651
- B₁₂, Schilling test, 692
- excretion test, 462*
- Cobalt-58**
-B₁₂(IF), ⁵⁷Co-B₁₂, simultaneous absorption, 568
- excretion test, 462*
- B₁₂, absorption, 135
- Cobalt-60**
-microspheres, B₁₂ absorption marker, 568
- Collimator**
see also Fresnel zone plate
bilateral equally efficient radiocardiography, 621*
- camera, high-resolution, -sensitivity, ^{99m}Tc, 419*
- coincidence detection system, 627*
- comparison for brain and liver imaging, 432*
- comparisons, ¹²³I thyroid imaging, 434*
- converging, scintillation camera, 433*
- effects, scintillation acmera, 21
- MTF, effect of scattering medium, 393*
- magnifying, brain imaging, 834
- multiprobe, scintillation camera, 389*
- parameters of scan quality, 473*
- pinhole and multi-hole converging for scintillation camera, 432*
- pinhole, high resolution, whole-body bone scans, ^{99m}Tc-polyphosphate, 469*
- pinhole, scintillation camera, orbital lesions, ^{99m}TcO₄⁻, 403*
- profile scanner, 895
- scanner, volume distributions of activity, 474*
- scintillation camera, spatial distortion, 383*
- scintillation camera, 'split field' ^{99m}TcO₄⁻ thyroid uptake, 907
- Colorimetry**
monitor for ^{137m}Ba-EDTA infusion system, 341
- Compton scatter**
reduction of effect, NaI(Tl) detector, 67, 878, 879
- Computer**
-camera, cardiac flow/volume, ^{99m}TcO₄⁻, 395*
- camera, intracardiac shunt diagnosis, 514
- camera, left ventricular ejection fraction, 798
- camera, myocardial studies, ¹³³Xe, in dogs, 669
- camera, quantitative cerebral blood flow, ^{99m}TcO₄⁻, 142
- camera, quantitative renal function, ^{99m}Tc-DTPA, 423*
- camera, regional lung area gas exchange, 490
- camera, regional lung ventilation, ¹³³Xe, 725
- camera, system utility, 477*
- cardiopulmonary circulation, mathematical model, 385*
- clinical data storage and retrieval system, 470*
- Compton scatter correction, 67, 878, 879
- data acquisition system, multiprobe, 636*
- dual camera system, ¹³³Xe lung studies, 422*
- image improvement techniques, 621*
- image storage system, scintillation camera, 465
- liver-to-background ratio, 636*
- matrix inversion technique, 620*
- MIPED II, multi-machine data handling, 447*
- model, myocardial blood flow, 639*
- nonlinear filtering method for image processing, 411*
- orthogonal tangent correction, transverse section scanning, 196
- record keeping and handling, 448*
- renogram, multicompartmental model, ¹³¹I-Hippuran, 389*
- renogram, statistical analysis, 253
- spatial distortion in scintillation camera, 383*
- utility program for data handling, 398*
- 3-D images, 628*
- Copper-64**
beta point source distribution, 847
- Copper-67**
lung tumor imaging, 947
- Counterelectrophoresis**
hepatitis associated antigen, 417*
- Count rate**
effect on scan quality, 473*
- saturation, scintillation cameras, 413*
- spatial distortion, scintillation camera, 383*
- Cows**
see Generator
- Crystal**
CsI, scintillation camera, 379*
- NaI(Tl), Compton scatter effect reduction, 67, 878, 879
- NaI(Tl), positron camera, myocardial imaging, in dogs, 181
- Si(Li), fluorescent excitation analysis, 442*
- Cyclotron**
¹²⁹Cs production, purification, 471*
- ⁵⁹Fe production, 397*
- H¹¹CN, carrier free, production, 864
- ⁴³K production, 433*
- ¹⁵NH₃ production, 629*
- ¹²⁹Xe production, 733
- Data handling, storage, retrieval**
see Record keeping
- Data processing**
see also Computer
comparison of image restoration techniques, 621*
- Compton scatter effect reduction, 67, 878, 879
- matrix inversion technique, 620*
- orthogonal tangent correction, transverse section scanning, 196
- scan smoothing and observer performance, 873, 876
- scintillation camera, filter plate, 14
- Deadtime**
rectilinear scanner system, 828
- scintillation camera, 383*, 413*, 496, 642*
- Detector**
see also Collimator; Crystal
annular aperture imaging, 861
- multiprobe, data acquisition system, 636*
- efficiency, multi-wire proportional chamber, 441*
- positron camera, myocardial imaging, in dogs, 181
- Diabetes**
effect on total-body K, 40
- Digital computer**
see Computer
- Digoxin**
radioimmunoassay, 531
- Dihydrothioetic acid**
^{99m}Tc-, preparation, distribution, in dogs, 412*

- Diphosphonate**
see Technetium-95m; Technetium-99m
- DNA**
 ^{125}I -, anti-DNA-antibody test for systemic lupus erythematosis, 450*
- DOPA**
-carboxyl- ^{14}C , decarboxylation assay, chamber method, 924
- Dopamine**
 ^{11}C -, -hydrochloride, preparation, distribution, in animals, 867
 ^{11}C , in pheochromocytoma, 376*, 781
-hydrochloride, ^{11}C -, preparation, distribution, in dogs, 377*
- Dosimetry**
see Radiation dose
- Drug addiction**
 ^{18}F bone scan, 647
lung function, ^{133}Xe , $^{99\text{m}}\text{Tc}$ microspheres, 455*
- Dysprosium-159**
-gluconate, distribution in pregnancy, in animals, 651
-HEDTA and -polyphosphate, multi-wire proportional chamber imaging, in animals, 441*
- Echoencephalography**
compared to scan, chronic subdural hematoma, 410*
- Editorial**
nature of publications, 1
Board, 483
- Electrometer**
vibrating reed, assay of decarboxylation of DOPA- carboxyl- ^{14}C , 924
- Energy**
see specific isotope; specific particle
- Enzyme**
inhibitor, ^{14}C -isoxazole distribution in carcinoma, 321
- Erbium-167m**
parameters, 341
- Erythrocyte**
see Red Blood Cell
- Extracellular fluid**
volume, fluorescent excitation analysis, 442*, 812
water, isotope exchange method, 459*
- Extremities**
left brachial artery injection, $^{99\text{m}}\text{Tc}$ -MAA, 249
legs, arteriovenous shunt imaging, $^{99\text{m}}\text{Tc}$ -microspheres, in dogs, 444*
legs, $^{99\text{m}}\text{Tc}$ -microsphere venography, 407*
legs, $^{99\text{m}}\text{TcO}_4^-$ venography, 528
 ^{32}P -chromic phosphate therapy in arthritis, 885
vascular perfusion scanning, $^{99\text{m}}\text{Tc}$ - and ^{111}In -microspheres, 452*
- Eye**
lacrimal drainage imaging, $^{99\text{m}}\text{TcO}_4^-$, 89
orbital and retro-orbital lesion imaging, $^{99\text{m}}\text{TcO}_4^-$, 403*
 ^{65}Zn concentration, 435*
- False negative**
rate, brain scans, 381*
rate, subdural hematoma, $^{99\text{m}}\text{TcO}_4^-$ scan, 283
- False positive**
focal uptake by liver, $^{99\text{m}}\text{Tc}$ -S colloid, 175, 348, 354, 606, 612, 883
 ^{67}Ga -citrate tumor scans, 430*
liver image, $^{99\text{m}}\text{Tc}$, extrinsic object, 189
rate, brain scan, 381*
rate, subdural hematoma, $^{99\text{m}}\text{TcO}_4^-$ scan, 283
rate, cerebral angiogram, $^{99\text{m}}\text{TcO}_4^-$, 265, 288
 $^{99\text{m}}\text{TcO}_4^-$ uptake in choroid plexus, 352
- Fetus**
abruptio placentae, $^{99\text{m}}\text{TcO}_4^-$ image, 297
distribution in pregnancy of 15 radiopharmaceuticals, in animals, 651
- Fibrinogen**
 ^{131}I -, deep vein thrombosis scanning, 385*
- ^{131}I - and ^{125}I -, comparison of four preparations, 429*
radio-iodinated, comparison of preparation methods, 420*
- Film**
35 mm, record keeping, 588
35 mm, 75 mm, Polaroid, camera images, 472*
- Filter**
digital convergent, image improvement technique, 621*
Millipore, transfer and sterilization device, 126
plate, scintillation camera, 14
profile scanner, 895
shield for camera, $^{99\text{m}}\text{TcO}_4^-$ thyroid uptake, 907
- Fluorescence**
excitation analysis, extracellular fluid volume, 442*, 812
excitation analysis, iodine in lymph nodes, 179
excitation analysis of iodine in thyroid, 434*, 816
tetracycline, femoral head circulation, in dogs, 639*
- Fluorine-18**
-acetate, distribution, in animals, 446*; synthesis, 446*
bone imaging experience, 65
bone imaging in Paget's disease, 928
bone scan, in drug abuse cases, 647
bone scan, Paget's disease, 464*
bone studies, in bronchogenic carcinoma, 451*
-carboxylates, distribution, in animals, 446*; preparation, 446*
-carboxylates, myocardial extraction, in dogs, 440*
compared to ^{45}Ca , ^{85}Sr and $^{99\text{m}}\text{Tc}$ -phosphorous compounds, distribution, 426*
compared to $^{87\text{m}}\text{Sr}$ and $^{99\text{m}}\text{Tc}$ -phosphate complexes, bone scan, 410*
compared to $^{99\text{m}}\text{Tc}$ -diphosphate and $^{87\text{m}}\text{Sr}$, bone scan, 423*
compared to $^{99\text{m}}\text{Tc}$ -labeled phosphorous bone agents, 375*, 380*
compared to $^{99\text{m}}\text{Tc}$ -polyphosphate, images and scans, 419*
compared to $^{99\text{m}}\text{Tc}$ -Sn-EHDP, bone image, 464*
compared to $^{99\text{m}}\text{Tc}$ -Sn-EHDP, x-ray, 454*
extraosseous osteogenic sarcoma, 295
femoral head circulation, in dogs, 639*
-fluoroaliphatic analogs, synthesis, 446*
-fluoroethanol, distribution, in animals, 446*
-5-fluorouracil synthesis, 63
-hexanoate, distribution, in animals, 446*
positron energy effect on spatial resolution, 401*
premature craniosynostosis, 397*
-tetradecanoate, preparation, 446*; distribution, in animals, 446*
uptake in cerebral infarction, 941
- Fluorouracil**
 ^{18}F -, synthesis, 63
- Folate**
radioimmunoassay, 633*
- Fourier**
convolution, image improvement techniques, 621*
transforms, 3-D images, 628*
- Fresnel zone plate**
imaging, compared to scanning, thyroid, liver, brain, 393*
large organ imaging, 391*
- Full Width at Half Maximum**
magnifying collimator for scintillation camera, 834
scintillation camera, collimator effect, 21
- Furfuryl mercaptan**
 $^{99\text{m}}\text{Tc}$ -, preparation, distribution, in dogs, 412*
- Gadolinium-153**
-citrate, tumor uptake, in rats, 408*, 615
- Gallbladder**
 ^{123}I -bromsulphalein, preparation, imaging, in animals, 820
 ^{131}I -T₄-glucuronide and -rose bengal metabolism, in rat, 34
imaging, $^{99\text{m}}\text{Tc}$ -penicillamine, 418*
imaging, ^{131}I -rose bengal, $^{99\text{m}}\text{Tc}$ -dihydrothiocetic acid, 393*

- Gallium-66**
 -citrate, dose estimates, MIRD, 755
- Gallium-67**
 autoradiography in excised melanomas, 468*
 -Bleomycin, distribution, Ehrlich carcinoma, in mice, 917
 -Bleomycin, tumor imaging, 627*
 brain lesion differentiation, with $^{99m}\text{TcO}_4^-$, 463*, 903
 -chloride, -citrate, -lactate, -Fe-DTPA, distribution and excretion, in mice, 164
 citrate, compared to ^{109}Yb -citrate, for tumor, 408*
 -citrate, distribution in pregnancy, in animals, 651
 -citrate, dose estimates, MIRD, 755
 -citrate, head lesion differentiation, 412*
 -citrate, imaging in bacterial endocarditis, 644*
 -citrate, liver pathology evaluation, 402*
 -citrate, myocardial infarct imaging, in dogs, 418*
 -citrate, scans in testicular malignancy, 439*
 -citrate, staphylococcal abscess scanning, in rats, 99
 -citrate, subacute thyroiditis, 403*
 -citrate, tumor distribution, in animals, 624*
 -citrate, tumor imaging, compared to ^{111}In -Bleomycin, 641*
 citrate, tumor imaging compared to ^{99m}Tc -Bleomycin, 431*
 -citrate, tumor scans, 430*
 -citrate, uptake in experimental abscesses, in monkeys, 399*
 -citrate, whole-body retention, 840
 hepatic focal disease differentiation, 452*
 liver perfusion, 565
 lymphocyte uptake, phytohemagglutinin effect, 428*
 mechanism of cellular uptake, in animals, 625*
 psoas abscess *v.* an. 499
 scanner window, 361
 uptake in pneumocytosis, 467*
 whole-body scans, 488 cases, 208
- Gallium-68**
 -citrate, dose estimates, MIRD, 755
- Gallium-72**
 dose estimates, MIRD, 755
- Gastrointestinal tract**
 Ca absorption, effect of age, 760
 ^{57}Co -vitamin B₁₂ absorption, 692
 ^{58}Co -B₁₂ and ^{57}Co -B₁₂(IF), simultaneous absorption, 135, 568
 dose estimates, Ga isotopes, MIRD, 755
 extraosseous osteogenic sarcoma, ^{18}F scan, 295
 ^{131}I liquid vs capsule thyroid uptake, 507
 ^{131}I -triolein absorption test, 299, 300
 imaging, aid in pancreas studies, 246
 liver function studies following jejunulo-ileal bypass surgery, 390*
 ^{99m}Tc -Bleomycin distribution, in animals, 422*
 ^{99m}Tc -DTPA, gastric emptying time, 622*
 $^{99m}\text{TcO}_4^-$ absorption and secretion, 331
 $^{99m}\text{TcO}_4^-$, rectal absorption, in dogs, 600
 $^{99m}\text{TcO}_4^-$ uptake, effect of Sn(II), in rats, 428*
 $^{99m}\text{TcO}_4^-$ uptake studies, 632*
 T_4 absorption in disease, 406*
- Generator**
 ^{137}Cs - ^{137m}Ba , 341
 ^{99m}Mo - ^{99m}Tc , shield for exposure reduction, 382*
- Glomerular filtration rate**
see Kidney
- Gold-198**
 beta point source distribution function, 847
 colloid, RES blockade, in rats, 443*
 distribution in pregnancy, in animals, 651
 lymph node scanning, 471*
 portal vein, streamline flow, 79
- Half-life**
 ^{67}Ga , whole-body retention, 840
- Hand**
see Extremities
- Heart**
 blood pool distribution of $^{99m}\text{Tc-S}$ colloid, in lymphoma, 201
 ^{113m}In excretion, 126, 882
 ^{113m}In -MAA, prolonged lung retention in asthma, 837
 ^{134m}Cs , myocardial imaging, in dogs, 243
 ^{129}Cs , myocardial infarction uptake, in dogs, 439*
 ^{129}Cs , myocardial infarction detection, 455*
 disease, effect on total-body K, 40
 ^{17}Ga -citrate imaging in bacterial endocarditis, 644*
 ^{17}Ga imaging, myocardial infarct, in dogs, 418*
 ^{39}K for myocardial studies, 359
 ^{43}K and ^{129}Cs for myocardial imaging, 440*
 ^{43}K , myocardial resection evaluation, 638*
 ^{43}K scan, myocardial ischemia, 458*
 ^{43}K , ^{99m}Tc , and ^{85}Sr -microspheres, myocardial studies, in dogs, 443*
 myocardial extraction of fatty acids and carboxylates, in dogs, 440*
 $^{13}\text{NH}_3$, myocardial ischemia imaging, 405*
 positron camera, myocardial imaging, $^{13}\text{NH}_3^+$, in dogs, 181
 ^{99m}Tc -oleic acid complex, myocardial imaging, in dogs, 381*
 ^{99m}Tc -tetracycline, myocardial infarct imaging, in dogs, 595
 ^{201}Tl preparation, 421*
 toxicity of ^{99m}Tc -Sn-phosphate complexes, 774
 transverse section imaging, $^{13}\text{NH}_3^+$, in dogs, 623*
- Heart, blood flow**
 bilateral equally efficient radiocardiography, 621*
 cardiac flow/volume, $^{99m}\text{TcO}_4^-$, 395*
 cardiopulmonary circulation, mathematical model, 385*
 coronary bypass graft, serial imaging, ^{43}K , 454*
 distribution of caval blood, ^{131}I -MAA, 870
 ^{131}I -MAA, in dogs, 129
 isoproterenol effect, ^{133}Xe , 388*
 left ventricular function in acute myocardial infarct, 445*
 left ventricular ejection fraction, $^{99m}\text{Tc-HSA}$, 798
 left ventricular function, serial measurement, 438*
 myocardial, H_2^{18}O , ^{133}Xe , *in situ*, in dogs, 429*
 myocardial, intracoronary injection, ^{43}K , in dogs, 274
 myocardial, regional, mathematical model, 639*
 myocardial, regional, ^{133}Xe , in dogs, 669
 portable camera, 585
 scintillation camera, limits of ^{99m}Tc activity, 383*
 shunt, arteriovenous, measurement, 247, 248
 shunt evaluation, ^{99m}Tc -MAA, in children, 398*
 shunt, intracardiac, diagnosis, ^{133}Xe , $^{99m}\text{Tc-S}$ colloid, 514
 shunt, right to left, in adult, 240
- Hepatic function**
see Liver
- Hippuran**
see Iodine-131, Hippuran
- Hormone**
 ^{131}I -thyroid, effect of thyrotrophin releasing hormone, 437*
 parathyroid, radioimmunoassay, effects of EDTA, 385*
- Human serum albumin**
see Indium-113m; Iodine-125; Iodine-131, albumin; Technetium-99m, albumin
- Hydrogen-3**
 -folic acid, absorption test, 449*
 -pteroylglutamic acid, folate radioimmunoassay, 633*
 total-body water, 459*
- Imaging**
see Camera, Fresnel zone plate; Camera, positron; Camera, scintillation; specific organs
- Immunoassay**

- see Radioimmunoassay*
 carinoembryonic antigen, lung malignancy, 424*
- Indium**
 -chloride and hydrated oxide, toxicity, in mice, 677
- Indium-111**
 -Bleomycin, distribution, Ehrlich's carcinoma, in mice, 917
 -Bleomycin, preparation, tumor uptake, 401*
 -Bleomycin, tumor imaging, 625*, 627*, 641*
 -Bleomycin, tumor uptake, in mice, 637*
 -chloride and ^{99m}Tc (II)-citrate, bone marrow scans, in animals, 397*
 -chloride, bone marrow imaging, 184
 -chloride, kidney kinetics, in mice, 417*
 -chloride, kinetics in hematologic disease, 456*
 -chloride, mechanism of bone marrow uptake, 394*
 -PO₄, aerosol lung studies, 630*
 -transferrin, bone marrow scanning, 393*
 -transferrin, erythropoietic marrow metabolism, in animals, 425*
 -transferrin, tumor uptake, 641*
- Indium-111, DTPA**
 adverse reaction following cisternography, 609
 and -EDTA, quantitative cisternography, 462*
 cisternography in rhinorrhea, 631*
 cisternography in viral meningitis, in dogs, 638*
 CSF absorption in hydrocephalic children, 620*
 CSF leaks in rhinorrhea, 631*, 933
 CSF shunt evaluation, in children, 399*, 920
 hyperbaric cisternography, 226
 renal imaging, GFR, in animals, 394*
- Indium, 113m**
 albumin microspheres, preparation, 344
 brain imaging, dual nuclide, with ^{99m}Tc -DTPA, 399*
 -chloride, liver perfusion, 565
 -colloid, detection efficiency, 763
 distribution in pregnancy, in animals, 651
 -DTPA, kidney kinetics, in mice, 417*
 -lutetium carrier, distribution in pregnancy, in animals, 651
 -macroaggregates, lung perfusion in cystic fibrosis, 326
 -microspheres, peripheral vascular perfusion scanning, 452*
 -PO₄, aerosol, lung studies, 630*
 transferrin binding, 881, 882
 -transferrin, erythropoietic marrow metabolism, in animals, 425*
 urinary excretion, 126, 881, 882
- Indium-114m**
 -chloride and hydrated oxide, toxicity, in animals, 677
 distribution in pregnancy, in animals, 651
 -transferrin, erythropoietic marrow metabolism, in animals, 425*
- Indium-115**
 -chloride and hydrated oxide, toxicity, in mice, 677
- Injection**
 bolus ^{99m}Tc -S colloid, preparation, 230
 compared to oral administration, ^{123}I -iodocholesterol esters, in rats, 777
 hemorrhoidal vein, in dogs, 384*
 hepatic vein, ^{99m}Tc -S colloid, 354
 intracoronary, myocardial perfusion, in dogs, 274
 left brachial artery, ^{99m}Tc -MAA, 249
 synovial, ^{32}P -chromic phosphate therapy for arthritis, 885
 techniques, absorption and secretion, $^{99m}\text{TcO}_4^-$ and ^{131}I , 331
 technique, effect on cerebral angiogram, 205
- Iodine**
 extrathyroidal, lymph node, fluorescent scan, 179
- Iodine-123**
 -bromsulphalein, preparation, liver and gallbladder imaging, in animals, 820
 production, LAMPF, 635*
- streptokinase, distribution, in animals, 623*
 thyroid imaging, collimator comparisons, 434*
- Iodine-125**
 -albumin, distribution in pregnancy, in animals, 651
 alpha-fetoprotein, radioimmunoassay, 466*
 anti-CEA antibody, tumor scans, in animals, 408*
 dose calibration, inter-laboratory comparison, 404*
 -DNA, anti-DNA-antibody test, systemic lupus erythematosus, 450*
 -fibrinogen, comparison of preparation methods, 420*, 429*
 hepatitis associated antigen radioimmunoassay, 417*
 -iodocholesterol esters, preparation, distribution, in rats, 777
 -iodothalamate as GFR standard, 394*, 441*
 photon absorption, in osteoporosis, 386*
 pressurized multi-wire proportional chamber, 620*
 serum thyroxine level distribution, 660
 -streptokinase, distribution, in animals, 623*
 3-o-succinyl digoxigenin tyrosine, digoxin radioimmunoassay, 531
 thyroid imaging, multi-wire proportional chamber, 441*
 -thyroxine, absorption in intestinal disease, 406*
 -thyroxine, thyroxine binding globulin test, 392*
 -thyroxine, denatured serum, 336
 -thyroxine, radioimmunoassay, 317
 -thyroxine, total and free, measurement, 740
- Iodine-127**
 thyroid concentration, fluorescent excitation analysis, in vitro, 816
- Iodine-131**
 absorption and secretion, compared to $^{99m}\text{TcO}_4^-$, 331
 -anti-CEA antibody, tumor scans, in animals, 408*
 beta point source distribution function, 847
 bilateral equally efficient radiocardiography, 621*
 Ca-iodate for salt iodization, 2
 -cholesterol, adrenal imaging, in children, 634*
 distribution in pregnancy, in animals, 651
 dose calibration, inter-laboratory comparison, 404*
 -fibrinogen, comparison of four preparations, 429*
 -fibrinogen, deep vein thrombosis scanning, 385*
 -iodo-cholesterol, adrenal gland imaging, 458*
 -iodocholesterol, radiation dosimetry, 416*, 713
 -metronidazole, preparation, amebic hepatic abscess imaging, 461*
 -parathyroid hormone, radioimmunoassay, 385*, 386*
 residual, effect on T_s test, 279
 -rose bengal, detection efficiency, liver phantom scans, 763
 -rose bengal, gallbladder imaging, 393*
 -rose bengal, compared to ^{99m}Tc S colloid liver imaging, 175
 -rose bengal, liver transplant evaluation, 382*
 -rose bengal, liver transplant metabolism, in dogs, 465*
 -streptokinase, distribution, in animals, 623*
 struma ovarii scan, 118
 therapy, effect on T_s and T_t, 396*
 thyroid binding, simultaneous trapping, $^{99m}\text{TcO}_4^-$, 785
 thyroid clearance, early phase, 238
 -thyroid hormones, effect of thyrotrophin releasing hormone, 437*
 thyroid imaging, compared to ^{123}I , 434*
 thyroid phantom, image improvement techniques, 621*
 thyroid therapy, 419*, 900
 thyroid therapy, effect of rapid I turnover, 379*
 thyroid therapy, resultant hypothyroidism, 377*
 thyroid uptake, comparison of liquid and capsule, 507
 thyroid uptake compared to ^{127}I by fluorescent excitation analysis, 816
 -triolein absorption test, 299, 300, 449*
 -thyroxine, absorption in intestinal disease, 406*
 -thyroxine-glucuronide and -rose bengal metabolism, in rats, 34

- Iodine-131, albumin**
 cisternography, arachnoid cyst, 61
 cisternography, compared to ^{100}Yb -DTPA, 405*, 765
 cisternography, pyrogen reactions, 387*
 cisternography, spinal dural leaks, 356
 hyperbaric cisternography, 226
 liver perfusion, 565
 MAA, breast milk secretion of ^{131}I , 115
 MAA, caval blood distribution, 870
 MAA, coronary circulation, in dogs, 129
 MAA, emergency lung imaging, efficacy, 460*
 MAA, hemorrhoidal vein injection, in dogs, 384*
 MAA, lung studies in α_1 -antitrypsin deficiency, 5
 MAA, prolonged lung retention in asthma, 837
 MAA, segmental lung arteriography, 631*
 microaggregated, distribution in pregnancy, in animals, 651
- Iodine-131, Hippuran**
 dual isotope renal studies, with ^{99m}Tc -DTPA, 441*
 kidney mass evaluation, 442*
 kidney studies in liver transplant evaluation, 382*
 kidney transplant evaluation, 384*
 renography, multicompartmental model, 389*
 statistical analysis of camera renogram, 253
- Iodine-132**
 beta point source distribution function, 847
- Iridium-191m**
 parameters, 341
- Iron**
 absorption, total body stores, cobalt excretion test, 462*
Iron-52
 -citrate and ^{111}In -Cl₃, bone marrow scans, in animals, 397*
 splenic red cell production, quantitative, 424*
Iron-59
 beta point source distribution function, 847
 -Bleomycin, tumor imaging, 627*
 -citrate, distribution in pregnancy, in animals, 651
 -iron hydroxide, lung retention, in monkeys, 437*
 reticulocyte uptake, 184
 -transferrin, erythropoietic marrow metabolism, in animals, 425*
- Isoproterenol**
 effect on coronary blood flow, ^{133}Xe , 388*
- Joints**
see Extremities
- Kidney**
 arteriovenous anastomoses, microsphere studies, 247, 248
 comparison of seven agents, in mice, 417*
 decarboxylation of DOPA-carboxyl- ^{14}C , in vitro, 924
 dose estimates, Ga isotopes, MIRD, 755
 dynamic studies, $^{197}\text{HgCl}_2$, 444*
 effect of disease on total-body K, 40
 ^{67}Ga labeled compounds, kinetics, in mice, 164
 GFR, ERPF, dual isotope studies, 441*
 imaging, GFR, ^{111}In -DTPA, in animals, 394*
 imaging, portable camera, 585
 ^{113m}In -Bleomycin uptake, in mice, 401*
 ^{113m}In excretion, 126, 882
 masses, ^{99m}Tc -DTPA, ^{131}I -Hippuran and ultrasonic imaging, 442*
 obstruction effects on cisternogram, 59
 phantom, observer performance, 416*
 quantitative dynamic imaging, $^{99m}\text{TcO}_4^-$, 628
 radiation dose, ^{75}Se -selenomethionine, 49
 radioimmunoassay of plasma renin activity, 872, 873
 scanning during ^{99m}Tc -polyphosphate bone scan, 534
 ^{99m}Tc -Sn-citrate, preparation, distribution, in dogs, 843
 studies in liver transplant evaluation, 382*
 ^{99m}Tc angiography screening for hypertension, 451*
 ^{99m}Tc -Bleomycin distribution, in animals, 422*
 ^{99m}Tc -DTPA imaging, free $^{99m}\text{TcO}_4^-$ artifact, 113
 ^{99m}Tc -DTPA studies, in children, 473*
- ^{99m}Tc -Fe- and ^{99m}Tc -Sn-DTPA biological behavior, 248, 249
 $^{99m}\text{TcO}_4^-$ binding, in vitro, 149
 $^{99m}\text{TcO}_4^-$ distribution, effect of Sn(II), in rats, 428*
 tomography, image artifacts, 103
 transplant, effect on lung uptake of ^{99m}Tc -S colloid, 757
 transplant evaluation, $^{99m}\text{TcO}_4^-$, ^{131}I -Hippuran, 384*
 transplant, non-perfused, ^{99m}Tc -DTPA, 395*
 transplant, quantitative function studies, camera, ^{99m}Tc -DTPA, 423*
 uptake, ^{99m}Tc -labeled phosphorous bone agents, 375*
- Kidney renography**
 kidney transplant evaluation, 384*
 liver transplant evaluation, 382*
 mass evaluation, ^{99m}Tc -DTPA, ^{131}I -Hippuran and ultrasonic imaging, 442*
 multicompartmental, ^{131}I -Hippuran, computer, 389*
 statistical analysis, 253
- Kit**
 digoxin radioimmunoassay, 531
 preparation of ^{99m}Tc -S colloid for bolus injection, 230
 quality control, 362, 364
 radioimmunoassay of plasma renin activity, 872, 873
 ^{99m}Tc -MAA, evaluation, 474*, 702
 ^{99m}Tc -DTPA, free $^{99m}\text{TcO}_4^-$, 113
 ^{99m}Tc -polyphosphate, chromatographic quality control, 793
 T₁, effect of ^{131}I and ^{99m}Tc administration, 279
- Krypton-81m**
 parameters, 341
 ^{85}Rb ratio, splenic blood flow, 414*
- Krypton-85**
 cerebral blood flow, semiconductor detector, in dogs, 448*
- LAMPF**
 production of ^{90}S , ^{123}I , ^{127}Xe , ^{129}Cs , 635*
- Lanthanum**
 transmission scanning, thyroid, 434*
- Lanthanum-140**
 -chloride, tumor uptake, in rats, 408*, 615
- Lead-203**
 bone imaging, in rabbit, 872
- Leg**
see extremities
- Limulus amoebocyte lysate test**
 ^{131}I -HSA for intrathecal injection, 387*
- Linear accelerator**
 ^{40}K production, 931
 ^{193m}Pt production, 191
- Line Spread Function**
 scanner, ^{131}I , ^{99m}Tc , ^{113m}In , 763
 scanner, ^{99m}Tc , effect of whole-body immobilizer, 301
 scintillation camera, collimator effect, 21
 scintillation camera, positron emitters, 401*
- Liver**
 abdominal wall venous blood pool in cirrhosis, 110
 abscess imaging, ^{131}I - and ^{99m}Tc -metronidazole preparation, 461*
 carcinoma metastasis, ^{87m}Sr uptake, 293
 collimator comparison, 432*
 decarboxylation of DOPA-carboxyl- ^{14}C , in vitro, 924
 differential diagnosis of jaundice, toluidine blue, 388*
 differential diagnosis of lesion, ^{67}Ga -citrate, ^{99m}Tc -S colloid, 402*
 disease, effect on total-body K, 40
 dose estimates, Ga isotopes, MIRD, 755
 extraosseous osteogenic sarcoma, ^{18}F scan, 295
 false-positive scan, ^{99m}Tc , extrinsic object, 189
 focal disease differentiation, ^{67}Ga , 452*
 focal uptake, ^{99m}Tc -S colloid, 175, 348, 354, 606, 612, 883
 Fresnel zone plate imaging, 393*
 function studies after jejunio-ileal bypass surgery, 390*

- "Ga-labeled compounds, kinetics, in mice, 164**
homotransplant evaluation, 99m Tc-S colloid, 131 I rose bengal, 382*
- 123 I-bromsulphalein, preparation, imaging, in animals, 820**
- 131 I-T.₄-glucuronide and -rose bengal metabolism, in rats, 34**
- image, caval-portal shunting effect, 99m Tc-S colloid, 348**
- imaging, correlation with biopsy, 484**
- image, correlation with ultrasound, 27**
- image, hepatic infarct, 99m Tc-S colloid, 858**
- imaging, portable camera, 585**
- 113 In-Bleomycin uptake, in mice, 401***
- lung scan, lung overlap sign, 438***
- phantom, detection efficiency of scan agents, 763**
- radiation dose, 75 Se-selenomethionine, 49**
- radiation therapy, effect on spleen size, 939**
- radioimmunoassay for hepatitis associated antigen, 417***
- radioiodinated streptokinase distribution, in animals, 623***
- regeneration following hepatectomy, 454***
- size, effect of splenectomy, 854**
- size, 99m Tc-S colloid, 390***
- spleen scan, pancreatic pseudocyst diagnosis, 107**
- 87m Sr-Ca-phosphate complex, imaging, in dogs, 346**
- 99m Tc-Bleomycin distribution, in mice, 422***
- 99m Tc-mercaptides, distribution, in animals, 411***
- 99m TcO₄⁻ binding, in vitro, 149**
- 99m TcO₄⁻ distribution, effect of Sn(II), in rats, 428***
- 99m Tc-S colloid, extrahepatic uptake, 201, 415*, 537, 687, 711, 757**
- 99m Tc-S colloid lung uptake, in rats, 443**
- 99m Tc-Sn-phylate, preparation, distribution, in animals, 459***
- 99m Tc-tetracycline binding, in vitro, 391***
- to background ratio, 636***
- tomography, image artifacts, 103**
- transplant, 131 I-rose bengal metabolism, in dogs, 465***
- transplant, lung uptake of 99m Tc-S colloid, 757**
- Liver, blood flow**
- bolus 99m Tc-S colloid, preparation, 230, 477***
- differential diagnosis of lesions, 67 Ga, 452***
- 113m In, 565**
- hemorrhoidal vein injection, in dogs, 384***
- portal vein, streamline flow, 79**
- 99m Tc-S colloid, 250**
- LSF**
see Line spread function
- Lung**
- aerosols, small particle, 630***
- albumin, MAA effect on circulation, in dogs, 375***
- angiography and scan, 99m Tc- and 131 I-MAA, 631***
- blockage, microspheres, phantom, 579**
- bronchial mucous transport following autotransplant, in dogs, 432***
- carcinoma, bone metastases, 18 F, 451***
- carcinoma, 67 Ga-citrate scans, 208**
- carcinoma, superior vena cava obstruction, 99m TcO₄⁻, 477***
- cardiopulmonary circulation, mathematical model, 385***
- caval blood distribution, 131 I-MAA, 870**
- caval-portal shunting, 348, 883**
- emergency imaging, efficiency, 460***
- extravascular water, $H_2^{18}O$ - and ^{11}CO -red cells, $^{13}N_2$, in vitro, dog, 414***
- 59 Fe-iron hydroxide retention, 437***
- function in narcotics addicts, 131 Xe, 99m Tc-microspheres, 455***
- 131 I-MAA retention in asthma, 837**
- imaging, portable camera, 585**
- 113 In-Bleomycin uptake, in mice, 401***
- K exchange and Na distribution, in disease, 459***
- malignancy, carcinembryonic antigen titer, 424***
- overlap sign in liver-lung scan, 438***
- perfusion in cystic fibrosis, 326**
- pneumoconiosis, 67 Ga uptake, 466***
- regional area gas exchange, 133 Xe, 490**
- 87m Sr uptake in occult aspergillosis, 722, 723**
- 87m Sr-Ca-phosphate complex, imaging, in dogs, 346**
- 99m Tc-Bleomycin distribution, in mice, 422***
- 99m Tc-Fe-hydroxide, toxicity, 445***
- 99m Tc-MAA kit evaluation, 474*, 702**
- 99m Tc-MAA scan, activity in breast milk, 51**
- 99m Tc-S colloid, effect of RES stimulation, in rats, 443***
- 99m Tc-S colloid uptake during liver imaging, 201, 415*, 537, 687, 711, 757**
- tomography, 99m Tc-lung aggregates, 475***
- tumor imaging, 67 Cu, 947**
- tumor uptake of 99m Tc-phosphate compounds, 632***
- ventilation and perfusion, 133 Xe, 99m Tc-microspheres, 412*, 427***
- ventilation and perfusion, 133 Xe, 411***
- ventilation and perfusion, 133 Xe, in bronchogenic carcinoma, 410***
- ventilation in α_1 -antitrypsin deficiency, 133 Xe, 5**
- ventilation, regional, 133 Xe, 453*, 725; anesthesia circuit administration, 475*; sensitivity, 447***
- ventilation, 127 Xe, 172**
- 133 Xe in saline, dual camera technique, 422***
- 133 Xe in saline, preparation, 477***
- 133 Xe gas, handling and dispensing system, 56**
- Lutetium-177**
- citrate, tumor uptake, in rats, 408*, 615**
- Lymph node**
- 199 Au scanning and imaging, 471***
- dynamics, 99m Tc-S colloid, in monkeys, 640***
- 67 Ga-citrate scans, 208**
- iodine content, fluorescent scan, 179**
- Lymphocyte**
- 67 Ga uptake, effect of phytohemagglutinin, 428***
- 99m Tc labeling, 400***
- 4-mercapto butanol**
- 99m Tc-, preparation, distribution, in dogs, 412***
- 4-mercapto 2-methyl butanol**
- 99m Tc-, preparation, distribution, in dogs, 412***
- Mercury-197**
- chloride, kidney dynamics, 444***
- kidney studies, liver transplant evaluation, 382***
- chlormerodrin, kidney kinetics, compared to other agents, in mice, 417***
- Mercury-203**
- beta point source distribution function, 847**
- chlormerodrin, kidney position, 253**
- Methyl 3-mercapto propionate**
- 99m Tc-, for liver, preparation, distribution, in dogs, 412***
- Microspheres**
- see also Technetium-99m, microspheres; Strontium-85*
- albumin, labeling with 99m Tc and 113m In, 344**
- albumin, lung blockage, 579**
- albumin, sieving with sonification, 511**
- arteriovenous shunt measurement, 247, 248**
- MIRD**
- absorbed dose calculation, 876, 877**
- dose estimates of 67 Ga-, 67 Ga-, 68 Ga- and 72 Ga-citrate, 755**
- radiation dose calculation method, 53**
- 75 Se-selenomethionine, radiation dose estimates, 49**
- Model**
- mathematical, myocardial perfusion, 639***
- 3-D, lung regional area gas exchange, 490**
- Modulation transfer function**
- Compton scatter subtraction, 67**
- converging collimator for scintillation camera, 433***
- magnifying collimator for scintillation camera, 834**
- rectilinear scanner, 99m Tc, 131 I, 113m In, 763**
- scattering medium, 393***
- scintillation camera, collimator effects, 21**
- scintillation camera, positron emitters, 401***

- Molybdenum-99**
content in "instant" 99m Tc, 880
- Multichannel analyzer**
-scanner system, deadtime, 828
- Multi-wire proportional chamber**
see Proportional chamber
- Muscle**
 67 Ga-labeled compounds, distribution, in mice, 164
 67 Ga, nontuberculous psoas abscess scan, 499
 111 In-Bleomycin distribution, in mice, 401*
 99m Tc-Bleomycin distribution, in mice, 433*
 99m TcO₄⁻ binding, in vitro, 149
- Myocardium**
see Heart
- Narcotics**
see Drug addiction
- Neohydrin**
see Mercury-197; Mercury-203
- Neutron activation analysis**
total-body Ca, 37 Ar method, in animals, 522
total-body Ca in bone disease, 427*
total-body Ca, in osteoporosis, 386*
total-body Ca, in vivo, 502
- Nitrogen-13**
gas, extravascular lung water, in vitro, in dogs, 414*
-glutamate, compared to 75 Se-selenomethionine distribution, in animals, 421*
-L-glutamine, -L-glutamic acid, tumor uptake, in mice, 456*
-NH₃ and -glutamate, tumor uptake, in rats, 630*
-NH₃, cyclotron production, 629*
-NH₃, myocardial extraction, in dogs, 440*
-NH₃, myocardial ischemia imaging, 405*
 15 NH₄⁺, myocardial imaging, positron camera, in dogs, 181
-NH₃, tumor uptake, in mice, 456*
-NH₃, transverse section heart imaging, in dogs, 623*
positron energy effect on spatial resolution, 401*
- Nomenclature**
see terminology
- Norepinephrine**
 14 C-, in pheochromocytomas, 781
- Nuclear medicine**
quality evaluation program results, 404*
- Nuclear reactor**
 196m Pt production, 191
- Nucleated mammalian cells**
 99m Tc labeling, 400*, 706
- Observer performance**
brain images transmitted by telephone, 376*
brain image interpretation, 850
kidney phantom, 416*
scan smoothing, 873, 874
- Oleic acid**
 99m Tc complex, preparation, myocardial imaging, in dogs, 381*
- Organization**
technical, nuclear medicine laboratories, 476*
- Orthiodohippurate**
see Iodine-131, Hippuran
- ortho (3-mercaptopropyl) phenol**
 99m Tc-, preparation, distribution, in dogs, 412*
- Ovary**
 14 C-isoxazole distribution, in carcinoma, 321
cancer, 67 Ga-citrate scans, 208
dose estimates, Ga isotopes, MIRD, 755
radiation dose, 75 Se-selenomethionine, 49
struma ovarii, 118
- Oxygen-15**
and 16 O, physiological transport, 634*
-water, extravascular lung water, in vitro, in dogs, 414*
-water, myocardial blood flow, in situ, in dogs, 429*
- Oxygen-19**
and 16 O, physiological transport, 634*
- Pancreas**
cancer, 67 Ga-citrate scans, 208
 11 C-tripalmitin "breath test", 622*
 125 I-iodcholesterol esters, preparation, distribution, in rats, 777
imaging, 75 Se-selenomethionine, stimulatory regimen, 643*
 15 N-glutamate and 75 Se-selenomethionine uptake, in animals, 421*
pseudocyst diagnosis from liver-spleen scan, 107
radiation dose, 75 Se-selenomethionine, 49
tumor imaging, GI tract series, 246
- Parathyroid**
hormone, EDTA effect, radioimmunoassay, 385*
hormone production, plasma Ca effect, radioimmunoassay, 386*
- Patient position**
"clear plate" orientation technique, 644*
effect on spleen size and configuration, 99m Tc-S colloid, 386*
motion correction device, 378*
moving table for whole-body imaging, 830
pulmonary arteriography, 631*
quantitative effect on normal brain scan, 176
whole-body immobilizer, 301
- Pediatrics**
adrenal imaging, 131 I-cholesterol, 634*
bone lesion differential diagnosis, 87m Sr, 803
brain scan in Schilder's disease, 99m TcO₄⁻, 291
breast milk excretion of 131 I and 99m Tc, 51, 115
 14 C-dopamine uptake in pheochromocytomas, 376*, 781
cardiac shunt evaluation, 99m Tc-MAA, 398*
CSF shunt evaluation, 111 In-DTPA, 399*, 920
CSF shunt evaluation, 99m TcO₄⁻, 683
 111 In-DTPA cisternography, adverse reactions, 609
 111 In-DTPA cisternography in hydrocephalus, 620*
 111 In-DTPA cisternography in rhinorrhea, 631*
intracranial bleeding in newborns, 60 Co-RBC, 807
lung perfusion in cystic fibrosis, 326
premature craniosynostosis detection, 18 F, 397*
radiation therapy, Wilm's tumor, 939
 99m Tc-DTPA renal studies, 473*
whole-body K, 550
- Perchlorate**
K-, and 99m TcO₄⁻, salivary gland scanning, 409*
 99m TcO₄⁻ serum binding block, in vitro, 149
- Phantom**
bar, scintillation camera with filter plate, 14
collimator sensitivity, scanner, 474*
hyperbaric cisternography, 99m Tc-albumin, 223
lung, microsphere blockage, 579
scanning parameters, 473*
scintillation camera, collimator effect, 21
thyroid, multi-wire proportional chamber imaging, 125 I, 441*
tomography, image artifacts, 103
whole-body Ca, neutron activation analysis, 502
- Phosphorous-32**
beta point source distribution function, 847
-chromic phosphate therapy in arthritis, 885
- Photomultiplier**
bi-alkali, scintillation camera, 21
external electric field, 379*
- Photon**
absorptiometry, bone disease, 386*, 402*
- Placenta**
abruptio placentae, 99m TcO₄⁻ image, 297
distribution of fifteen agents, in animals, 651
- Platinum-193m**
cis-Pt(NH₃)₂Cl₂, distribution, dosimetry, 191

- Platinum-195m**
cis-Pt(NH₃)₂Cl₂, distribution, dosimetry, 191
- Polyphosphate**
see Technetium-95m; Technetium-99m, polyphosphate
- Positron**
 energy, effect on spatial resolution, 401*
- Potassium**
 and Ca iodate, iodization of salt, 2
 replacement by Rb in depression therapy, 633*
 total-body, effect of disease, 40
 total-body, in infants, 550
- Potassium-38**
 properties for dynamic studies, 359
- Potassium-40**
 body K replacement by Rb in depression therapy, 633*
 whole-body, in infants, 550
- Potassium-42**
 beta point source distribution function, 847
 K exchange and Na distribution in lung disease, 459*
 myocardial perfusion, intracoronary injection, in dogs, 274
 whole-body, 40
- Potassium-43**
 coronary bypass graft, serial imaging, 454*
 cyclotron production, 433*
 heart studies following myocardial resection, 638*
 myocardial imaging, 440*
 myocardial imaging, in dogs, 274
 myocardial ischemia and infarction, in dogs, 443*
 myocardial scan in schema, 458*
 physical properties, 243
 production, linear accelerator, 931
- Potassium-iodide**
^{99m}TcO₄⁻ serum binding, in vitro, 149
- Praseodymium-144**
 beta point source distribution function, 847
- Prednisone**
^{99m}TcO₄⁻ serum binding, in vitro, 149
- Proportional chamber**
 pressurized multiwire, 620*
 multi-wire, 441*
- Propylthiouracil**
^{99m}TcO₄⁻ serum binding, in vitro, 149
- Protein**
 α_1 -antitrypsin deficiency, lung studies, 5
 binding of ^{99m}TcO₄⁻, 149
- Pyrogen**
¹³¹I-HSA, intrathecal injection, 387*
 limulus amoebocyte lysate test, 387*
 radiopharmaceutical sterilization device, 126
- Pyrophosphate**
see Technetium-99m
- Quality control**
 chromatography of ^{99m}Tc compounds, 793
 radiopharmaceutical kits, 362, 364
^{99m}TcO₄⁻, "instant", ^{99m}Mo content, 880
^{99m}Tc-S colloid, 468*
- Radiation damage**
 spleen, ⁹⁰Yt therapy for lymphoma, 619*
- Radiation dose**
 calculation, 53, 876, 877
cis-Pt(NH₃)₂Cl₂, ^{195m}Pt-, ^{196m}Pt-, 191
 estimates, ⁶⁷Ga-, ⁶⁸Ga-, ⁶⁸Ga-, and ⁷⁵Ga-citrate, MIRD, 755
⁶⁷Ga, whole-body retention, 840
 handling ¹³⁰Cs targets, 471*
 hyperthyroidism after ¹³¹I therapy, 377*
¹³¹I-MAA, prolonged lung retention in asthma, 837
¹³¹I thyroid therapy, effect of rapid I turnover, 379*
¹³¹I-19-iodocholesterol, 416*, 713
 kidney agents, 417*
 myocardial agents, 243
²⁰⁸Pb for bone imaging, 872
- personnel, 382*
⁷⁵Se-selenomethionine, MIRD, 49
^{99m}Tc-MAA, 702
^{99m}Tc-MAA lung scan, breast milk activity, 51
^{99m}Tc-polyphosphate, 469*
^{99m}Tc-Sn-EHDP, 73, 464*
¹³²Xe lung studies, 172
- Radiobioassay**
 antigen and antibody in leukocytes, 420*
- Radioimmunoassay**
see also Immunoassay
 alpha-fetoprotein, 466*
 digoxin, clinical evaluation, 531
 Editorial, 549
 hepatitis associated antigen, compared to counterelectrophoresis, 417*
 parathyroid hormone production, effect of plasma Ca level, 386*
 parathyroid hormone level, effect of EDTA, 385*
 plasma renin activity, effect of inhibitor concentration, 872, 873
 serum and red cell folate, 633*
 serum thyroxine, 317
 thyrotropin, management of thyroid carcinoma, 900
- Radiopharmaceutical**
see specific radionuclide; Quality Control
 sterilization device, 126
- Record keeping**
 computer data manipulation program, 398*
 computer, multi-machine, 447*
 computer system, 448*, 470*
 digital tape recorder, scintillation camera, 699
 image storage system, scintillation camera, 465*
 photographic film comparisons, 472*
 Picturephone® transmission of brain images, 376*
 35 mm film system, 588
- Red blood cell**
⁵⁹Co-, timing intracranial bleeding in newborns, 807
⁵¹Cr-, and ⁵¹Ca-platelet survival in lymphocytic leukemia, 219
¹H₂¹⁸O- and ¹¹³Co-, extravascular lung water, in vitro, in dogs, 414*
 production in spleen, quantitative measurement, ⁵⁵Fe, 424*
⁸¹Rb-, splenic blood flow, 414*
^{99m}Tc-, distribution in pregnancy, in animals, 651
^{99m}Tc-, for red cell volume, 871
^{99m}Tc-, spleen red cell volume and scan, 769
^{99m}TcO₄⁻ binding, in vitro, 149
^{99m}TcO₄⁻ distribution, effect of Sn(II), in rats, 428*
- Resolution**
 camera, uncoated crystal, 379*
 collimator comparison, 432*
 depth, multiprobe collimator, scintillation camera, 389*
 magnifying collimator for scintillation camera, 834
 nonuniform field, deadtime evaluation, camera, 642*
 parameters of scan quality, 473*
 pinhole and multihole converging collimators, 432*
 scintillation camera, collimator effects, 21
 scintillation camera, filter plate, 14
 spatial distortion in scintillation camera, 383*, 413*
 spatial, effect of positron energy, 401*
 spatial, liquid Xe scintillation camera, 645*
 spatial, multi-wire proportional chamber, 441*
 whole-body bone imaging, ^{99m}Tc-polyphosphate, 830
¹³²Xe regional myocardial perfusion, in dogs, 669
- Rhodium-106**
 beta point source distribution function, 847
- Rose bengal**
¹³¹I-, metabolism, in rat, 34
¹³¹I-, metabolism, liver transplant, in dogs, 465*
 radio-, jaundice type differentiation, 388*

SUBJECT INDEX

- Rubidium**
replacement of K in depression therapy, 633*
- Rubidium-81**
 ^{81m}K ratio, spleen blood flow, 414*
- Rubidium-82**
parameters, 341
- Rubidium-86**
myocardial perfusion, in dogs, 274
- Salivary glands**
absorption and excretion of $^{99m}\text{TcO}_4^-$, 331
scanning, $^{99m}\text{TcO}_4^-$, 409*
- Salt**
 NaCl , iodization, 2
- Samarium-153**
tumor uptake, in rats, 408*, 615
- Scanner, profile**
optimization, ^{99m}Tc , 895
- Scanner, rectilinear**
collimator sensitivity, 474*
compared to camera for ^{99m}Tc -polyphosphate bone studies, 419*
comparison of liver agents, 763
-computer, multi-machine, 447*
deadtime losses, 828
 ^{67}Ga window, 361
quantitative analysis of brain scans, 176
scan image improvement techniques, 621*
- Scanning**
“clear plate” orientation technique, 644*
parameters, 473*
scan minification, 361, 362
transverse section, orthogonal tangent correction, 196
- Scatter**
Compton, effect reduction, 67, 878, 879
medium, MTF, 393*
- Selenium-75**
nuclear parameters, 49
- Selenium-75, selenomethionine**
distribution compared to ^{15}N -glutamate, in animals, 421*
intrahepatic focal lesion in hepatitis, 612
liver lesion differentiation, 565
pancreas imaging, 246, 247
pancreas imaging, stimulatory regimen, 643*
radiation dose, MIRD, 49
- Selenium-77m**
parameters, 341
- Semiconductor detector**
cerebral blood flow, ^{85}Kr , in dogs, 448*
- Sensitivity**
collimated coincidence detection system, 627*
collimator, comparison, 432*
pinhole and multihole collimators, 432*
scintillation camera, collimator effect, 21
spatial distortion, scintillation camera, 125
- Silver-109m**
parameters, 341
- Skin**
 ^{67}Ga -labeled compounds, distribution, in mice, 164
 ^{99m}Tc -Bleomycin distribution, in mice, 422*
 $^{99m}\text{TcO}_4^-$ binding, in vitro, 149
 $^{99m}\text{TcO}_4^-$ uptake, effect of Sn(II), in rats, 428*
- Sodium-22**
Na distribution and K exchange in lung disease, 459*
- Sodium-24**
beta point source distribution function, 847
- Sodium salicylate**
serum binding $^{99m}\text{TcO}_4^-$, in vitro, 149
- Sonifier**
albumin microsphere sieving, 511
- Spleen**
blood flow, ^{85}Rb - ^{85}Kr ratio, 414*
 ^{99m}Cr -platelet sequestration in lymphocytic leukemia, 219
damage from ^{90}Yt internal radiation, 619*
- dose estimates, Ga isotopes, MIRD, 755
imaging, dynamic, $^{99m}\text{Tc-S}$ colloid, 463*, 582
 ^{111}In -Bleomycin uptake, in mice, 401*
 ^{111}In -chloride kinetics in hematologic disease, 456*
liver flow studies, 250
-liver scan, pancreatic pseudocyst diagnosis, 107
radiation dose, ^{75}Se -selenomethionine, 49
red cell production, ^{59}Fe , 424*
red cell volume and scan, $^{99m}\text{Tc-RBC}$, 769
size, displacement, effects of patient position, 386*
size, effect of radiation therapy to liver, 939
size, $^{99m}\text{Tc-S}$ colloid imaging, 390*
splenectomy effect on liver size, 854
 ^{99m}Tc -Bleomycin distribution, in mice, 422*
 $^{99m}\text{Tc-S}$ colloid uptake, during liver scan, 537
 ^{99m}Tc -Sn-phytate preparation, distribution, in animals, 459*
transplant, lung uptake of $^{99m}\text{Tc-S}$ colloid, 201
- Streptokinase**
 ^{123}I , ^{125}I , ^{131}I , distribution, in animals, 623*
 ^{99m}Tc , deep vein thrombosis scan, in dogs, 233
 ^{99m}Tc , preparation, 629*
- Srontium-85**
compared to ^{99m}Tc -polyphosphate for bone studies, 435*
compared to other bone agents, in rabbits, 426*
-microspheres, myocardial ischemia and infarction, in dogs, 443*
spatial resolution, scintillation camera, 401*
- Srontium-87m**
bone lesion, differential diagnosis, in children, 803
compared to other agents for bone studies, 410*, 423*
-Ca-phosphate complex, lung-liver imaging, in dogs, 346
lung uptake, occult aspergillosis, 722, 723
Paget's disease evaluation, 449*
uptake in liver metastasis, 293
- Srontium-89**
beta point source distribution function, 847
production, LAMPF, 635*
- Srontium-90**
beta point source distribution function, 847
- Sulfur-35**
beta point source distribution function, 847
- Sulfur colloid**
see *Technetium-99m, sulfur colloid*
- Synovium**
 ^{33}P -chromic phosphate therapy for arthritis, 885
 $^{99m}\text{TcO}_4^-$ binding, in vitro, 149
- Technetium-95m**
-polyphosphate, -diphosphonate, -pertechnetate, retention, in dogs, 414*
- Technetium-99m**
aid to placement of biopsy needles and catheters, 743
-Bleomycin, electrolytic preparation, 415*
-Bleomycin, preparation, tumor imaging, 422*
-Bleomycin, tumor imaging, compared to ^{67}Ga , 431*
-colloid, imaging with multi-wire proportional chamber, in animals, 441*
Compton scatter effect reduction, 67, 878, 879
converging collimator, 433*
deadtime evaluation, scintillation camera, 642*
diphosphonate, compared to ^{18}F and ^{87}Sr , 423*
-dihydrothioc acid, gallbladder imaging, 393*
-EDTA, electrolytic preparation, 415*
-EDTA, ferrous hydroxide, pertechnetate breast milk excretion, 115
-Fe-ascorbic acid complex, kidney kinetics, in mice, 417*
-Fe-hydroxide, fatalities following lung scans, 445*
generator shield, 383*
kidney angiography screening for hypertension, 451*
kidney blood flow, liver transplant evaluation, 382*
kits, quality control, 362, 364
mammalian nucleated cells, labeling, 400*, 706

- mercaptides, for liver studies, distribution, in animals, 411*
- methylene-diphosphonate, distribution, 640*
- metronidazole, preparation, amebic hepatic abscess imaging, 461*
- oleic acid complex, preparation, myocardial imaging, in dogs, 381*
- penicillamine, gallbladder imaging, 418*
- pressurized multiwire proportional chamber, 620*
- profile scanner optimization, 895
- pyrophosphate, compared to other agents for bone studies, 375*, 380*, 410*
- pyrophosphate, distribution, toxicity, in animals, 409*
- pyrophosphate, kinetics in bone studies, 642*
- pyrophosphate, soft tissue tumor uptake, 632*
- radiation exposure of personnel, 382*
- RBC, distribution in pregnancy, in animals, 651
- RBC for red cell volume, 871
- RBC, spleen red cell volume and scanning, 769
- residual, effect on T₁ test, 279
- scintillation, collimator effects, 21
- scintillation camera resolution, filter plate, 14
- skull metastasis in breast cancer, 720
- Sn-citrate, electrolytic preparation, distribution, in dogs, 843
- Sn-gluconate, gel chromatography, 235
- Sn-phosphates, toxicity, 774
- Sn-phytate, preparation, RES distribution, in animals, 459*
- streptokinase, deep vein thrombosis scans, in dogs, 233
- streptokinase, preparation, 629*
- tetracycline, myocardial infarct studies, in dogs, 595
- tetracycline, necrotic tissue uptake, 391*
- tetracycline, tumor distribution, in animals, 624*
- tomography, image artifacts, 103
- transverse section scanning, orthogonal tangent correction, 196
- Technetium-99m, albumin**
 - bronchial mucous transport following transplant, in dogs, 432*
 - chromatographic quality control, 793
 - cisternography, hyperbaric, 223, 226
 - cisternography in progressive dementia, 415*
 - electrolytic preparation, 415*, 470*
 - heart, left ventricular ejection fraction, 798
 - heart, serial quantitative radiocardiography, 438*
 - MAA, cardiac shunt evaluation, in children, 398*
 - MAA kit evaluation, 474*, 702
 - MAA, left brachial artery injection, 249
 - MAA lung scan, breast milk activity, 51
 - MAA, right-to-left cardiac shunt, in adult, 240
 - MAA, segmental lung arteriography, 631*
 - MAA, streamline blood flow, portal vein, 79
- Technetium-99m, diphosphonate**
 - biodegradability and toxicity, 719
 - bone, effect of radiation therapy, 604
 - bone imaging, 464*
 - bone metastases imaging, compared to ¹⁸F and x-ray, 454*
 - bone studies, in animals, 73
 - cartilage uptake, in rats, 637*
 - compared to other agents for bone studies, 375*, 410*, 454*
 - quantitative pharmacodynamics, 624*
 - soft tissue tumor uptake, 632*
 - toxicity, 719, 774
 - whole-body bone scan, 546
- Technetium-99m, DTPA**
 - chromatographic quality control, 793
 - dual nuclide brain image with ¹¹³In-chloride, 399*
 - free pertechnetate in kidney scan, 113
 - gastric emptying time, 622*
 - GFR, 441*
- kidney mass evaluation, 442*
- kidney transplant evaluation, 395
- quantitative renal function, 423*
- renal studies, in children, 473*
- Sn and -Fe- ascorbic acid preparations, kidney kinetics, in mice, 417*
- Sn- and -Fe- preparations, biological behavior, 248, 249
- Technetium-99m, microspheres**
 - arteriovenous shunt imaging, in dogs, 444*
 - electrolytic preparation, 415*
 - lung, emergency imaging, efficacy, 460*
 - lung function in narcotics addicts, 455*
 - lung perfusion in cystic fibrosis, 326
 - lung, regional perfusion, 427*
 - lung scan combined with ¹³³Xe ventilation, 412*
 - myocardial ischemia and infarction, in dogs, 443*
 - preparation, 344, 415*
 - vascular perfusion studies, 407*, 452*
- Technetium-99m, pertechnetate**
 - abruptio placentae image, 297
 - abscesses of the brain and thyroid, 541
 - administration method comparison, 331
 - binding in serum and tissue, in vitro, 149
 - brain, delayed scan time, 380*, 467*
 - brain image interpretation, 850
 - brain image, posterior fossa cyst, 944
 - brain imaging, in tuberous sclerosis, 215
 - brain imaging, perchlorate blocking dose, 543
 - brain imaging, rim sign, 790
 - brain lesion differentiation with ⁶⁷Ga, 463*, 903
 - brain scan and echoencephalography, 410*
 - brain scan, Schilder's disease, 291
 - brain scan, subdural hematoma, 283, 467*
 - breast milk excretion, 115
 - cardiac flow/volume, 395*
 - cerebral circulation, 142, 205, 265, 288, 558, 856
 - cerebral death diagnosis, 122, 856
 - cerebral hematoma uptake, in rats, 912
 - choroid plexus uptake, 352
 - CSF shunt evaluation, 405*, 683
 - distribution, effect of Sn(II), in rats, 428*
 - distribution in pregnancy, in animals, 651
 - free, from ^{99m}Tc-DTPA kit preparation, 113
 - GI tract absorption, 632*
 - GI tract series for pancreas imaging, 246
 - head lesion, differentiation, 412*
 - injection technique effect on cerebral angiogram, 205
 - instant, comparison of supply sources, 880
 - kidney, quantitative dynamic imaging, 628*
 - kidney transplant evaluation, 384*
 - lacrimal drainage apparatus imaging, 89
 - liver tissue culture, necrotic cell uptake, 391*
 - mammography, 641*
 - portal blood flow, in dogs, 384*
 - rectal absorption, in dogs, 600
 - salivary gland excretion, 331; scanning, 409*
 - struma ovarii uptake, 118
 - superior vena cava obstruction assessment, 477*
 - thyroid, simultaneous studies with ¹³¹I, 785
 - thyroid uptake at 20 min, 907
 - tumor, intracellular distribution, in animals, 624*
 - venography, 425*, 528
- Technetium-99m, polyphosphate**
 - bone imaging and scanning, whole-body, 469*, 476*
 - bone imaging, whole-body, 830
 - bone imaging in healing, in dogs, 457*
 - bone imaging in Paget's disease, 928
 - bone scan and image comparison, 419*
 - bone scanning, 460*, 469*
 - cerebral infarction uptake, 941
 - chain length and bone uptake, in rats, 695
 - chromatographic quality control, 793
 - combined kidney-bone scan, 534

SUBJECT INDEX

- compared to other bone agents, 375*, 380*, 410*, 435*
distribution in pregnancy, in animals, 651
electrolytic preparation, 415*
head lesion differentiation, 412*
histological localization, 390*, 576
preparation, distribution, in rabbits, 426*
quantitative pharmacodynamics, 624*
soft tissue uptake, 632*
- Technetium-99m, sulfur colloid**
abdominal venous blood pool in cirrhosis, 110
aerosol, lung studies, 630*
bolus injection preparation, 230, 477*
bone marrow imaging, Paget's disease, 928
detection efficiency, phantom scans, 763
distribution in pregnancy, in animals, 651
extrahepatic uptake, in abscess, 537
hepatic infarct imaging, 858
intracardiac shunt diagnosis, with ¹³³Xe, 514
liver image, false positive, extrinsic object, 189
liver lesion differentiation, ^{113m}In, 565
liver lesion differentiation, ⁹⁷Ga-citrate, 402*
liver flow studies, 250
liver focal lesion uptake, 175, 348, 606, 612, 883
liver imaging, correlation with biopsy, 484
liver imaging, correlation with ultrasound, 27
liver size, effect of splenectomy, 854
liver transplant evaluation, 382*, 757
lung uptake during liver studies, 201, 415*, 687, 711, 757
lung uptake RES, stimulation, in rats, 443*
lymphatic dynamics, in monkeys, 640*
pancreas studies, 107, 247, 248
quality control, filter method, 468*
spleen, dynamic imaging, 463*, 582
spleen size, 390*
spleen size and configuration, effect of patient position, 386*
- Telephone**
brain image transmission, 376*
- Tellurium-201**
physical properties, 243
- Terbium-160**
tumor uptake, in rats, 408*, 615
- Terminology**
blood flow studies, 870
- Testes**
dose estimates, Ga isotopes, MIRD, 755
⁹⁷Ga-citrate scans of malignancy, 439*
radiation dose, ⁹⁵Se-selenomethionine, 49
- Thallium-201**
preparation, 421*
- Therapy**
see also Thyroid
chemotherapy effects, bone marrow scan, 407*
for depression, replacement of body K by Rb, 633*
³²P chromic phosphate, in arthritis, 885
radiation, effect on bone lesions, 604
radiation, to liver, effect on spleen size, 939
⁹⁰Yt for lymphoma, spleen damage, 619*
- Thiopropylacetamide**
^{99m}Tc-, preparation, distribution, in dogs, 412*
- 3-D**
images, 628*
- Thrombosis**
see Blood, Vascular system
- Thulium-170**
-citrate, tumor uptake, in rats, 615
- Thyroid**
aspergillosis abscess, 541
benzodiazepine drug effect on function studies, 472*
Ca iodate for iodization of salt, 2
effect of disease on total-body K, 40
effective thyroid ratio kit evaluation, 472*
fluorescent excitation analysis of I, 434*, 816
- Fresnel zone plate imaging, ^{99m}TcO₄⁻, 393*
⁹⁷Ga citrate scans, 403*
hormones, ¹³¹I-labeled, effect of thyrotrophin releasing hormone, 437*
¹³¹I clearance, early phase, 238
imaging, collimator comparisons ¹²³I and ¹³¹I, 434*
imaging, multi-wire proportional chamber, 441*, 620*
nontoxic autonomously functioning adenoma, 404*
phantom, ¹³¹I, scan improvement techniques, 621*
radiation dose, ⁷⁵Se-selenomethionine, 49
studies in struma ovarii, 118
^{99m}TcO₄⁻ and ¹³¹I, simultaneous studies, 785
^{99m}TcO₄⁻ binding, in vitro, 149
^{99m}Tc from ^{99m}Tc-EHDP, in rats, 637*
therapy, ¹³¹I, effect of rapid iodine turnover, 379*
therapy, ¹³¹I, effect on T₃ and T₄, 396*
therapy, ¹³¹I, in cancer, 419*, 900
therapy, ¹³¹I, resultant hypothyroidism, 377*
thyroxine binding globulin test, 392*
thyroxine, distribution of serum levels, 660
total and free thyroxine measurement, 740
T₄ screening, cost analysis, 721
T₄ test, automated, 378*
T₄ test, effect of ¹³¹I and ^{99m}Tc administration, 279
T₄, denatured serum, 336
T₄, indirect indicator test, 159
T₄, radioimmunoassay, 317
uptake, ¹³¹I, comparison of liquid and capsule, 507
uptake, ^{99m}TcO₄⁻, 907
- Thyroxine**
absorption in intestinal disease, 406*
automated T₄ test, 378*
binding globulin test, 392*
effective thyroid ratio kit evaluation, 472*
effect of benzodiazepine drugs on T₄ test, 472*
extraction efficiencies in alcohols, 826
-glucuronide, ¹³¹I-, metabolism, in rat, 34
¹²³I, serum thyroxine, denatured serum, 336
indirect indicator T₄ test, 159
serum level distribution, 660
serum, radioimmunoassay, 317
serum, screening test, cost analysis, 721
serum, test, effect of ¹³¹I and ^{99m}Tc administration, 279
test in management of thyroid carcinoma, 900
test, ¹³¹I therapy for hyperthyroidism, 396*
test, struma ovarii, 118
total and free, simultaneous measurement, 740
- Tin**
(II), effect on ^{99m}TcO₄⁻ metabolism, in rats, 428*
- Toluidine blue**
radio-labeled, jaundice type differentiation, 388*
- Tomography**
see also Scanning, transverse section
annular aperture imaging, 861
camera, ^{99m}Tc lung aggregate, 475*
¹¹C-carboxylates, preparation, distribution, in dogs, 747
image artifacts, 103
linear axial, scintillation camera, 436*
true depth resolution, 437*
- Total body**
see Whole body
- Toxicity**
and biodegradability, ^{99m}Tc-diphosphonate, 719
drug, differential diagnosis of brain death and coma, 856
effect of chemotherapy and infection on bone marrow scans, 407*
fatalities following ^{99m}Tc-Fe hydroxide lung scans, 445*
⁹⁷Ga-labeled compounds, in mice, 164
¹³¹I-metronidazole, in animals, 461*
In chloride and hydrated In oxide, in mice, 677
MAA, in dogs, 375*
^{99m}Tc-pyrophosphate, in animals, 409*
^{99m}Tc-Sn-phosphate complexes, in animals, 774

- ^{99m}Tc-Sn-phytate, in animals, 459*
- ¹⁰³Yb-DTPA, intrathecal injection, in dogs, 93
- Transferrin**
see also Indium-111; Indium-113m
- ⁶⁷Ga uptake by tumor cells, in animals, 625*
- ¹¹¹In- and ⁵⁹Fe-bound, 184
- Transmission**
- imaging, catheter placement, ^{99m}Tc, 743
 - liver-lung scan, lung overlap sign, 438*
 - photon absorption, in bone disease, 386*, 402*
 - scanning, thyroid, La x-rays, 434*
- Transplant**
- bone graft, ^{99m}Tc-polyphosphate imaging, in dogs, 457*
 - kidney and liver, effect on lung uptake of ^{99m}Tc-S colloid, 757
 - kidney, evaluation ^{99m}TcO₄⁻, ¹³¹I-Hippuran, 384*
 - kidney, non-perfused, ^{99m}Tc-DTPA, 395*
 - liver evaluation, ^{99m}Tc-S colloid, ¹³¹I-rose bengal, 382*
 - liver, ¹³¹I-rose bengal metabolism, in dogs, 465*
 - lung, bronchial mucous transport, in dogs, 432*
- Triolein**
¹³¹I-, absorption test, 299, 300, 449*
- Tritium**
see Hydrogen-3
- Tumor**
- agent, cis-Pt(NH₃)₂Cl₂, distribution, dosimetry, 191
 - astrocytoma, in tuberous sclerosis, 215
 - biopsy needle placement, ^{99m}Tc aid, 743
 - bone, differential diagnosis, ^{87m}Sr, in children, 803
 - brain, differential diagnosis, ⁶⁷Ga, ^{99m}TcO₄⁻, 463*, 903
 - brain, dual nuclide imaging, ^{99m}Tc-DTPA, ¹¹³In-chloride, 399*
 - brain, image interpretation, 850
 - brain sarcoma, ⁶⁷Ga-labeled compounds, in mice, 164
 - breast, ^{99m}Tc mammography, 641*
 - bronchogenic carcinoma, bone metastases, 451*
 - bronchogenic carcinoma, superior vena cava obstruction, ^{99m}TcO₄⁻, 477*
 - bronchogenic carcinoma, ¹³³Xe studies, 410*
 - cancer, lung, ⁶⁷Cu imaging, 947
 - carcinoma, breast, ¹⁴C-isoxazole distribution, 321
 - carcinoma, ⁶⁷Co-, ⁶⁷Ga-, ¹¹³In-Bleomycin distribution, in mice, 917
 - carcinoma cells, uptake of ¹⁴C and ⁵¹Cr-labeled amino acids, 84
 - carcinoma, ^{99m}Tc-Bleomycin imaging, 422*
 - carcinoma, metastatic to liver, ^{87m}Sr uptake, 293
 - carcinoma, thyroid, ¹³¹I therapy management, 900
 - ¹¹C-dopamine hydrochloride, preparation, distribution in dogs, 377*
 - ¹³³CsCl scanning, 635*
 - depth, parameters of scanning, 473*
 - distribution of ^{99m}Tc-tetracycline, ^{99m}TcO₄⁻, ⁶⁷Ga-citrate, in animals, 624*
 - extraosseous osteogenic sarcoma, ¹⁸F scan, 295
 - ⁶⁷Ga-citrate, whole-body scan, 840
 - ⁶⁷Ga scans, 208
 - ⁶⁷Ga uptake mechanism, in animals, 625*
 - head lesion differentiation, 412*
 - ¹¹¹In-Bleomycin studies, 625*, 627*, 641*
 - ¹¹¹In-Bleomycin, preparation, distribution, 401*
 - ¹¹¹Incl. and ¹¹¹In-Bleomycin uptake, in mice, 637*
 - intracranial neoplasms, dynamic studies, ^{99m}TcO₄⁻, 430*
 - liver, ⁶⁷Ga-citrate, ^{99m}Tc-S colloid, 402*
 - liver, ^{99m}Tc-S colloid, ^{113m}In, 565
 - lung, carcinoembryonic antigen radioimmunoassay, 424*
 - lymphoma, lung uptake of ^{99m}Tc-S colloid, 201
 - melanoma, autoradiography, ⁶⁷Ga, 468*
 - melanoma, ⁶⁷Ga scans, 430*
 - ¹⁵NH₃, ¹⁵N-L-glutamine, ¹⁵N-L-glutamic acid uptake, in animals, 456*, 630*
 - nucleated mammalian cell labeling with ^{99m}Tc, 400*, 706
 - orbital and retro-orbital lesions, ^{99m}TcO₄⁻ imaging, 403*
 - ovarian, in liver flow study, 250
 - pheochromocytoma, ¹¹³C-dopamine uptake, 376*, 781
 - sarcoma, radiolanthanide uptake, in rats, 615
 - scan agents, lanthanides, 408*
 - scanning, ¹²⁵I- and ¹³¹I-anti-CEA antibody, in animals, 408*
 - skull metastasis in breast cancer, 720
 - struma ovarii, 118
 - ^{99m}Tc-Bleomycin imaging, 431*
 - ^{99m}Tc-Bleomycin preparation, 415*
 - testicular, ⁶⁷Ga-citrate scans, 439*
 - thyroid, ⁶⁷Ga-citrate scan, 403*
 - uptake of ^{99m}Tc-polyphosphate, -pyrophosphate and diphosphonate, 632*
 - uptake ratios, 618
 - Wilms', radiation therapy effects, 939
 - ¹⁰³Yb-citrate, imaging, 772
- Tungsten-183m**
parameters, 341
- T₃**
- effect of benzodiazepine drugs, 472*
 - hyperthyroidism, post ¹³¹I therapy, 396*
 - quality evaluation program, inter-laboratory, 404*
 - studies in struma ovarii, 118
 - test in management of thyroid carcinoma, 900
- T₄**
see Thyroxine
- Ultrasonics**
- correlation with liver imaging, 27
 - imaging, renal masses, 442*
 - vascular disease of the legs, 407*
- Vascular system**
- arteriovenous shunt imaging, ^{99m}Tc-microspheres, in dogs, 444*
 - deep vein thrombosis scanning, ¹³¹I-fibrinogen, 385*
 - deep vein thrombosis scanning, ^{99m}Tc-streptokinase, in dogs, 233
 - ¹²³I- and ¹³¹I-fibrinogen, preparation methods, 429*
 - ¹²³I-, ¹²⁵I-, ¹³¹I-streptokinase distribution, in animals, 623*
 - MAA, electrophoretic mobility and thrombosis affinity, 463*
 - peripheral perfusion scanning, ^{99m}Tc- and ^{113m}In-microspheres, 452*
 - ^{99m}Tc-microsphere venography, in legs, 407*
 - ^{99m}Tc-streptokinase, preparation, 629*
 - ^{99m}TcO₄⁻ venography, 425*, 528
- Vitamin B₁₂**
- ⁵⁷Co-, distribution in pregnancy, in animals, 651
 - ⁵⁷Co-, Schilling test, urine collection, 692
 - ⁵⁷Co-, ⁵⁷Co-, absorption technique, 135
 - ⁵⁸Co-, ⁵⁷Co-B₁₂(IF), simultaneous absorption, 568
 - quality evaluation program, inter-laboratory, 404*
- Whole body**
- bone imaging and scanning, ^{99m}Tc-polyphosphate, 469*
 - bone scan, ^{99m}Tc-diphosphonate, 546
 - Ca, neutron activation analysis, ³⁶Ar method, in animals, 522
 - Ca, neutron activation analysis, 386*, 427*, 502
 - counting for total-body K, 40
 - immobilizer, 301
 - K, infants, 550
- Xenon**
- liquid, scintillation camera, 645*
 - pressurized multiwire proportional chamber, 620*
- Xenon-123**
cyclotron production, 733
- Xenon-127**
lung and brain imaging, 172
- Xenon-133**
production, LAMPF, 635*
- anesthesia circuit administration technique, 475*
- and ¹²⁷Xe, lung and brain imaging, 172

SUBJECT INDEX

gas handling and dispensing system, 56
in saline, hemorrhoidal vein injection, in dogs, 384*
in saline, coronary blood flow, effect of isoproterenol, 388*
in saline, dual camera lung studies, 422*
in saline, intracardiac shunt diagnosis, with ^{99m}TcS colloid, 514
in saline, multiple dose "generator", 935
in saline, multi-wire proportional chamber imaging, in animals, 141*
in saline, preparation, 477*
in saline, regional area gas exchange in lung, 490
lung perfusion and ventilation in bronchogenic carcinoma, 410*
lung ventilation and perfusion, 411*
lung ventilation, compared to radioaerosols, 630*
lung ventilation following $^{99m}\text{Tc-HSA}$ microsphere scan, 412*
lung ventilation in α_1 -antitrypsin deficiency, 5
lung ventilation in narcotics addicts, 455*
lung ventilation, regional, 427*, 725
lung ventilation, regional, at different lung volumes, 453*
lung ventilation studies, sensitivity, 447*
myocardial blood flow, in dogs, 429*
regional myocardial blood flow model, 639*
washout, regional myocardial perfusion, in dogs, 669

X-ray
bone lesion, differential diagnosis with ^{97m}Sr , 803
bone metastases, compared to imaging with ^{18}F and $^{99m}\text{Tc-Sn-EHDP}$, 454*
fluorescent excitation analysis of Br for extracellular fluid volume, 812
fluorescent excitation analysis, I in thyroid, 434*, 816
Paget's disease, ^{18}F scan comparison, 464*
Ytterbium-169
-Ca-DTPA, cisternography, 59
-chloride, tumor uptake, in rats, 615
-citrate, tumor imaging, 772
-citrate, tumor scanning, 408*
-DTPA, cisternography compared to $^{131}\text{I-HSA}$, 405*, 765
-DTPA, cisternography in viral meningitis, in dogs, 638*
-DTPA, cisternography, posterior fossa cyst, 944
-DTPA, intrathecal injection, biological behavior, in dogs, 93
-DTPA, kidney kinetics, in mice, 417*
Yttrium-90
beta point source distribution function, 847
lymphoma therapy, spleen damage, 619*
Zinc-169
concentration in eye, 435*