

AUTHORS' INDEX

- Aaron, A. H., 323
 Abbe, A., 312
 Aberle, A., 107
 Adam, A., 220
 Adams, J. E., 19
 Adamson, W. A. D., 144, 210
 Adie, G. C., 259
 Åkerlund, Å., 22, 23, 24, 55, 220, 246, 248;
 Figs. 193, 198, 199, 201
 Albrecht, H. U., 24, 69, 230, 232, 248
 Allbutt, T. Clifford, 107
 Allen, F. M., 248
 Altschul, W., 216
 Alvarez, W. C., 3, 56, 58, 63, 109, 110, 141,
 152, 156, 157, 158, 159, 160, 166, 169, 178,
 275, 304
 Anderson, A. G., 141
 Anderson, C. C., 222
 Anderson, W. K., 219
 Andrews, K. S., 229, 231, 232
 Anrep, G. V., 127, 137, 139, 142
 Ansell, P. L., 108
 Arisz, L., 262
 Aschner, P. W., 231
 Baastrup, C. I., 24, 55
 Baensch, W., Fig. 242
 Baillie, Matthew, 107
 Baker, C. P., 275
 Balfour, D. C., 230
 Balthazard, 54
 Bargen, J. A., 314
 Barret, G., 54, 107
 Bárszny, A., 220
 Bartle, H. J., 160
 Bayliss, W., 156
 Beaumont, W., 56
 Beck, E. C., 319, 323
 Béclère, H., 82, 107
 Bedingfield, H., 107, 282
 Bell, G. E., 390, 391
 Bell, J. R., 161
 Benedict, A. L., 53
 Bennecke, 182
 Berg, H. H., 19, 21, 22, 24, 55, 69, 189, 220,
 221, 230, 233, 235, 246, 248, 251; Figs.
 149, 200, 208
 Berglund, N., 248
 Bergmann, G. von, 72
 Bland-Sutton, J., 261
 Boehme, 182
 Boldireff, W., 127
 Bollman, J. L., 336
 Bolton, C., 164
 Bowditch, H. P., 53
 Bragg, W. L., 365, 378
 Brailsford, J. F., 334
 Braithwaite, L. R., 300
 Buchanan's *Anatomy*, 115
 Buckstein, J., 251, 305
 Burch, H. A., 248
 Burgess, A. H., 260, 277
 Butcher, W. Deane, 269
 Buzzard, T., 311
 Cabot, H., 259
 Camp, J. D., Fig. 207
 Campbell, J. M. H., 108
 Candy, T. I., 301
 Cannon, W. B., 53, 152
 Cantieri, C., 199
 Carlson, A. J., 127, 156
 Carman, 19, 109, 160, 216, 248, 249, 250,
 272
 Carslaw, 110
 Carson, 110
 Case, J. T., 54, 111, 168, 169, 172, 174, 175,
 243, 293, 300, 307, 312, 314, 319, 342;
 Figs. 251, 266, 267
 Caylor, H. D., 336
 Cerné, A., 107
 Chamberlain, W. E., 108, 109
 Chaoul, H., 22, 24, 69, 220, 246
 Church, G. T., 231
 Claessen, G., 222
 Cilly, E. I., 18, 34
 Clark, 248
 Clarke, B. W. L., 10
 Clayton-Green, W. H., 219
 Cleland, J., 83
 Coffey, R. C., 282
 Cole, L. G., 72, 149, 151, 168, 169, 246, 319;
 Fig. 62
 Cole, W. H., 63
 Cole Collaborators, 69, 71, 151, 174
 Conran, P. C., 108
 Conybeare, J. J., 108
 Cox, S. F., 33, 35
 Crane, A. W., 54, 306, 307, 309; Fig. 259
 Cruveilhier, J., 312
 Crymble, P. T., 248
 Cunningham's *Anatomy*, 115

406

AUTHORS' INDEX

- Dalton, N., 54
 Davis, K. S., 311
 Davis, 248
 Delaforge, 107
 Diamond, 248
 Dickson, W. D., Fig. 274
 Dietrich, H. A., 249
 Dunhill, T., 216
 Duret, H., 110
 Einhorn, M., 210
 Ellison, R. T., 160
 Emge, 169
 Ettinger, 248
 Eusterman, 252
 Ewing, J., 259
 Faber, K., 108
Fagge's Anatomy, 115
 Feldman, M., 293
 Fell, H. B., 104
 Fenwick, W. S., 261
 Fineman, S., 216
 Finzi, N. S., Figs. 148, 155
 Fischer, A., 11
 Flint, E. R., 110
 Forssell, G., 24, 55, 65, 66, 69, 233, 235; Figs. 56, 58, 178
 Freedlander, B. L., 178
 Friedenwald, J., 293
 Friedl, E., Fig. 242
 Gage, H. Courtney, 26, 102, 252, 260, 295, 325; Figs. 218, 248
 Geiser, J. F., 261
 George, A. W., 169, 246, 312, 319, 325; Figs. 196, 212, 282
 Gerber, I., 246
 Gershon-Cohen, J., 161
 Geyman, 248
 Gianturco, C., 84, 159, 263
 Gibbon, W. H., 293
 Glénard, F., 107, 110
 Glockner, R., 377
 Goldthwait, J. E., 282
 Golob, M., 102
 Goodall, A., 250
 Gottheiner, 130
 Gräberger, G., 337
 Graham, E. A., 319
Gray's Anatomy, 115, 119, 121, 129, 187
 Gray, E. D., 192, 194, 196
 Grier, G. W., 197
 Groedel, F. M., 54, 108, 151, 152; Figs. 135, 136
 Grossman, S., 231
 Hackwood, J. F., 219
 Haën, Antonius de, 106
 Haenisch, F., 54; Figs. 50, 174, 258, 273
 Harris, W., 219
 Hasselwander, 93; Fig. 85
 Hastings, S., 137
 Haudek, M., 6, 54, 232, 239, 246
 Hausmann, T., 110
 Healy, T. R., 216
 Heck, F. J., 275
 Henning, N., 271
 Herrnheiser, G., 97
 Herroun, 322
 Higgins, G. M., 323
 Higgins, J. B., 115
 Hirsch, I. S., 179
 Hjelm, R., 189
 Hodgson, H. K. Graham, 249, 313; Figs. 142, 202, 205, 206, 223
 Hoffman, 182
 Holland, C. Thurstan, 54, 203, 259, 277, 319; Fig. 185
 Holmes, G. W., 271, 272
 Holzknecht, G., 54, 108, 151, 169, 170, 172; Fig. 144
 Hoppe-Seyler, 322
 Horton, B. T., 159, 293
 Hulst, H., 54, 91
 Hunt, T. C., 252
 Hunter, R. H., 102, 168, 219
 Hurst, A. F., 54, 55, 98, 108, 109, 128, 152, 160, 167, 168, 172, 175, 177, 178, 180, 210, 213, 221, 222, 228, 229, 259, 284, 317; Plates XII and XIII
 Jackson, Chevalier, 199
 James, W. W., 137
 Janker, R., 11, 130
 Jarre, H. A., 11, 152
 Jefferson, G., 66, 147, 148, 246, 260, 261; Figs. 54 and 55
 Jollasse, 54
 Jordan, A. C., 143, 172
 Judd, E. S., 275
 Kaestle, K., 54, 108, 149, 151; Figs. 133, 134
 Kantor, J. L., 306, 307, 309; Fig. 262
 Kaupp, E., 377
 Kaye, G. W. C., 32, 378
 Keith, A., 109, 179

Cambridge University Press

978-1-107-49490-9 - The Digestive Tract: A Radiological Study of its Anatomy, Physiology, and Pathology

Alfred E. Barclay

Index

[More information](#)

AUTHORS' INDEX

407

- Kellogg, J. H., 169
 Kerley, P., 89
 Kienböck, R., 309
 Killian, G., 192, 194; Fig. 151
 Kirklin, B. R., 18, 19, 34, 248, 251, 259, 285,
 288, 291, 328, 329, 330; Fig. 288
 Kitchin, D. H., 387
 Klason, T., 252
 Knight, G. C., 144, 210
 Knoepp, L. F., 300
 Knothe, W., 220
 Knox, R., 32, 319
 Knutsson, F., 335
 Köhler, A., 270, 319; Fig. 190
 Konjetzny, G. E., 235
 Kretschmer, E., 81
 Kronecker, H., 58, 126, 139
 Langmead, F. S., 209
 Laurell, H., 126, 127, 134, 193, 194, 195, 196;
 Fig. 152
 Leddy, E. T., 18, 34
 Leonard, R. D., 312, 319, 325
 Leven, G., 54, 107, 279
 Levyn, L., 323
 Lewis, T., 147
 Lexer, E., 143
 Lockhart, R. D., 141
 Lockhart-Mummery, J. P., 313
 Lönnérblad, L., 249
 Luff, A. P., 259
 Lyon, B. B. V., 160
 MacAdam, W., 161
 MacCarty, W. C., 259
 McCrae, T., 252
 M'Crea, E. D'A., 63; Figs. 51, 52, 53
 McGibbon, J. E. G., 205
 McIntyre, J., 11
 MacKee, G. M., 51, 367
 Mackintosh, N. W., 109
 Macmillan, M. S., 126
 McMillan, J. Currie, Figs. 168, 222
 McNee, J. W., 323
 McRoberts, J. W., 275
 M'Swiney, B. A., 63
 Magee, H. E., 270
 Magendie, F., 126
 Mann, F. C., 323
 Marquer, O. A., 312
 Mather, J. H., 205
 Mayneord, W. V., 44
 Mayo, W., 261
 Meckel, J. F., 107, 300
 Meltzer, S., 58, 126, 139
 Melville, S., 32
 Mengis, O., 102
 Meriel, E., 107
 Meulengracht, E., 160
 Miller, R., 295
 Miller, T. G., 229, 231, 232
 Mills, R. W., 108
 Mitchell, S. W., 261
 Mixter, S. J., 109, 212
 Moody, R. O., 101, 108
 Moorhead, J. G., 222
 Morgagni, J. B., 106
 Morison, J. M. Woodburn, 122, 216; Figs.
 166, 167
 Morley, John, 110, 229
 Mosher, H. P., 126, 196
 Mottram, J. C., 49, 375
 Moynihan, Berkeley, 167, 231, 260, 325
 Mueller, S. C., 293
 Muir, J., 312
 Mukherji, M., 128
 Munthe, Axel, 306
 Murray, G. R., 212
 Mutscheller, A., 377
 Myles, R. Boulton, 102
 Newcomb, W. D., 260
 Nuys, R. B. van, 101, 108
 O'Brien, F. W., 216
 Ogle, J. W., 190
 Oka, M., 101
 Olson, P. F., 337
 Orr, J. Boyd, 162
 Orton, G. Harrison, Fig. 140
 Osler, W., 177, 252, 261
 Palugyay, J., 128
 Pancoast, H. K., 135; Fig. 156
 Paré, A., 217
 Park, S. T. S.; Fig. 261
 Parker, C., 311
 Paterson, R. S., 104
 Payne, W. W., 126, 127, 145, 147, 212
 Pedemontium, F. de, 106
 Pembrey, M. S., 263
 Pendergrass, E. P., 229, 231, 232
 Perry, E. C., 210, 260
 Petit, Jean-Louis, 215
 Pfahler, G. E., 54, 319; Fig. 219
 Pirie, A. Howard, 17; Figs. 263, 275

408

AUTHORS' INDEX

- Pirie, G. A., 188
 Plummer, H. S., 212
 Potter, R. P., 276
 Poulton, E. P., 126, 127, 145, 147, 212, 228
 Priestley, J. T., 275
 Purton, T., 210
Quain's Anatomy, 115
- Radt, P., 101
 Rake, 210
 Ratkóczki, N., 296
 Raven, R. W., 194
Rawlings' Surface Markings, 115
 Redding, J. Magnus, 273
 Reid, A. D., 54
 Reynolds, Russell J., 11, 130, 152
 Richards, G. E., Figs. 211, 215
 Rieder, H., 54, 149, 151, 175; Figs. 133, 134
 Roberts, Ff., 381
 Rolleston, H. D., 32, 210, 261, 323
 Rosenthal, J., 54, 149, 151; Figs. 133, 134
 Rosselet, A., 102
 Rotky, H., 97
 Roux, J., 54
 Rovsing, T., 110
 Rowden, L. A., 300, 319, 325, 329, 333, 336;
 Figs. 278, 280, 281, 283, 284, 286
 Russ, S., 32
- Salmond, R. W. A., 164
 Sampson, H. H., 143
 Saralegui, J. A., 330
 Sauerbruch, F., 220
 Saupe, 46
 Schatzki, R., 185, 189, 271, 272
 Schinz, H. R., Fig. 242
 Schlesinger, E., 107
 Schreiber, J., 126, 128
 Schwarz, G., 109
 Scott, S. Gilbert, 19, 251, 295; Fig. 61
 Sear, 293, 294
 Shanks, S. C., 288, 289
 Shaw, L. E., 260
 Shay, H., 161
 Sherrington, C. S., 84
 Smith, M. Brice, 248
 Souter, W. C., 141
 Spriggs, E. I., 293, 312, 314; Fig. 264
 Spurrell, W. R., 109
Starling's Physiology, 128, 322
 Stead, G., 379
 Stewart, M. J., 229, 259, 260, 284; Plates XII
 and XIII
- Stierlin, E., 309
 Stopford, J. S. B., Fig. 49
 Straus, H., 53
 Ström, S., 250
 Stuart, T. P. Anderson, 128, 132
 Stumpf, P., 152
 Sutherland, C. G., 231, 248; Fig. 257
Symington's Atlas, 115
- Taylor, A. E., 141
 Telford, E. D., 67
 Telling, W. H. M., 312
 Todd, T. Wingate, 73, 85, 112, 115, 143, 155
 Tovell, H. M., Figs. 191, 217
 Treves, F., 107
 Twining, E. W., 45, 229, 284, 285, 309;
 Figs. 236, 237, 238
- Uspensky, A. E., 216
- Van der Maele, 11, 152
 Vanzant, F. K., 160
 Vietor, A. C., 109
 Vinson, P. P., 198
 Virchow, R., 312
- Wald, L. T. le, 187, 216, 219, 272, 312; Fig. 220
 Walsh, D., 53
 Walters, Waltman, 231, 337
 Walton, A. J., 230, 232, 260, 261
 Walton, Henry, 216
 Warner, E. C., 109
 Watson, 160
 Waugh, G. E., 102, 110
 Weber, F. Parkes, 169
 Weber, H. M., Fig. 269
 Wesson, H. R., 314
 Westlake, H. J., 109
 Westphal, K., 271
 Wetterstrand, G. A., 46
 White, J. Duncan, 224; Fig. 171
 Wichert, M. O., 216
 Wilbur, D. L., 252, 275
 Wilkie, D. P. D., 250
 Williams, F. H., 53
 Wilson, L. B., 258
 Wolf, G., 189
 Woods, R. R., 205
- Yeo, G. H., 322
- Zenker, F. A., 190, 194, 258, 259
 Zuppinger, 46, 49

GENERAL INDEX

- Abdominal belts, raising blood-pressure, 381
 use of for dropped stomach, 110
- Abdominal wall, weakness of, causing symptoms, 107, 109
- Abscess, abdominal, 224
 of liver, 221
 of oesophagus, 196, 201
 spinal, causing displacement of oesophagus, 187, 190
 sub-hepatic, 214, 222, 297
 sub-phrenic, 214, 221
- Accidents from X rays, 47
- Achalasia, of the cardia, 146, 187, 198, 204, 209, 210, 239
 of the colon, 210, 317
 of the ileo-caecal valve, 167
- Acidity of gastric juice, and gastro-jejunal ulcer, 250
 and opening of pylorus, 147, 160, 162
 in gastritis, 271
 in pyloric ulcer, 245
- Adenoma, colonic, and malignancy, 314
 gastric, and malignancy, 275
- Adhesions, between pharynx and vertebrae, 194
 causing obstruction of ileum, 301
 of appendix, 96, 302, 312
 of caecum, 304
 of colon, 274, 317, 336
 of diaphragm, 118, 214, 221
 of duodenum, 246, 293, 295, 335
 of intestine, 288, 298, 311
 of jejunum, 288
 of stomach, 240, 253, 257, 274
 round sub-phrenic abscess, 221
 simulating cancer of colon, 317
 simulating cancer of stomach, 274
 simulating duodenal ulcer, 246, 293
 sub-hepatic, 293
- Aerophagy, 278
- Age, and achalasia of the cardia, 209
 and cancer of the stomach, 252
 and gall-stones, 324
 and gastritis, 271
 and ulcer, 232, 248
- Air, behind ileo-caecal valve, 285
 in atonic stomach, 264, 281
- Air, in intestine, 222, 282, 307, 335
 in oesophagus, 279
 in peritoneum, 100, 224
 in splenic flexure, 97
 in stomach, 91, 147, 154, 214, 263, 277, 281, *see also Magenblase*
 in swallowing, 135, 139
- Air eating, 277
- Air injection into colon, 11, 100, 314
- Air lock in colon, 317
- Air space in vomiting, 268
- Air-sucking, 279, 280
 and spasm of diaphragm, 224
- Air-swallowing, 212, 278
- Alkalinity of food and opening of pylorus, 160
- Anaemia, ascribed to X rays, 48, 375
 gastric function in, 160
 ulcer associated with, 230
- Anaesthesia, effect of on gastric muscle, 88, 263
 fallacies of study under, 57, 106
 visual, 17
- Anatomy, fallacies in teaching of, 58, 105, 111
 of stomach, 62
 radiological, 1, 106
 see also Normal
- Aneurysm, 184, 187, 190
- Animals, fallacy of observations on, 57
 intragastric pressure in, 84
 pharyngeal pouch in, 194
- Anti-anaemic factor in secretion, 160
- Anti-cathode, radiation from, 43, 369, 370
- Anti-peristalsis, *see Peristalsis, reverse*
- Aperients, *see Purgatives*
- Aperture, 20
- Apparatus, for X-ray department, 19, 32, 33, 353
 inspection of, 35, 37
- Appendicitis, acute, 158, 229, 302
 and aerophagy, 279
 and sub-phrenic abscess, 221
 associated with delayed emptying of ileum, 301
 associated with delayed emptying of stomach, 155, 263, 296

410

GENERAL INDEX

- Appendicitis, chronic, 302
 simulated by duodenal stasis, 296
- Appendix, and sub-phrenic abscess, 221
 effect of posture and respiration on, 96
 examination of, 15, 25, 301
 fixation of, 96, 302, 312
 movements of, 169
 passage of food through, 169
 pathology of, 301
 position of, 96
 transposition of, 102
- Appendix dyspepsia, 8, 90, 168
- Appetite, 15, 296, 300
- Apron, X-ray-proof, 27, 39, 41, 373, 385
 on screen, 42, 45
- Arytenoid cartilage, 135
- Ascites, 98
- Assistants, in X-ray departments, 342
 protection of, 38, 40, 43, 369, 376, 383, 386
- Athletics, influence of on diaphragm, 118, 121, 122
 influence of on viscera, 98, 109, 219
- Atomic weight, fallacy due to salts of high, 56
 of substances used, 10
- Atony, gastric, 67, 80, 87, 88, 92, 98, 107, 108, 109, 110, 147, 155, 181, 228, 242, 243, 264, 266, 281, 288
 and borborygmi, 281
 and emptying, 264
 effect on colon, 98, 283
 of emotional origin, 85
 peristalsis in, 264
 vomiting in, 269
- of colon, 179
- of rectum, 180
- Atropin in examination of oesophagus, 185,
 see also Belladonna
- Auerbach's plexus, function of, 63, 159, 210, 317
- Autonomic nerves and duodenal stasis, 296
- Back pressure dilatation of oesophagus, 209
- Balloons, *see* Tambours
- Barium, in opaque meal, 9, 54
- Barium meal, necessity for quick evacuation of, 9, 14, 26
 purgative effect of, 178
- Barium sulphite, 10
- Beads, experiments with, 56, 178
- Belching, 277, 278
- Belladonna as anti-spasmodic, 197, 227, 243, 244, 252, *see also* Atropin
- Bells in X-ray departments, 355
- Belts, abdominal, 110
- Belts, for air-sucking, 280
- Bezoar, 276
- Bicarbonate of soda, effect of in filling of duodenum, 160
 effect of on stomach, 83
 test for acidity, 245
- Bile, constituents of, 322
 physiology of, 321
- Bile ducts, cancer of, 337
- Bile papilla, cancer in, 261
- Biliary passages, perforated by duodenal ulcer, 249, 337
 simulating diverticulum, 293
- Biloculation, *see* Hour-glass stomach
- Bismuth, early work with, 53, 54, 182
 in opaque meal, 10
- Bismuth pillules, 175
- Blinds, 350
- Blood of X-ray workers, 48, 375
- Blood pressure, effect of posture on, 381
 raised by abdominal belts, 110, 381
- Borborygmi, gastric, 280
- Bougie, objections to the use of, 127, 184, 208
 in treatment of achalasia, 212
 treatment of oesophageal ulcer by, 200
- Bowel-consciousness of public, 176, *see also* Colon
- Bread and milk meal, 54, 227
- Bronchocele causing oesophageal obstruction, 190
- Burns, X-ray, 32, 33, 47, 50
- Buttermilk, effect on peristalsis, 155
- Caeco-colic sphincter, 168, 179, 305
- Caecum, adhesions of, 304
 cancer of, 304
 cesspool, 179
 delay in, 178
 distension of, 315
 effect of posture and respiration on, 96
 examination of, 11, 25, 28, 301
 foreign body in, 276
 irritation of, 304
 migratory, 305
 movements in, 175, 179
 passage of food through, 160, 167, 169, 170, 306
 pathology of, 304

GENERAL INDEX

411

- Caecum, position of, 102, 104, 108, 110, 112
 relation to sigmoid, 98
 sloppy, 97, 179
 stagnation in, 178
 time at which meal reaches, 177
 tuberculosis of, 158, 304, 305, 317
 undescended, 102, 106
- Calcification, of hydatid cyst, 222
 of thyroid cartilage, 205
- Calcium in gall-stones, 322, 324, 332
- Calculi, in gall-bladder, *see* Gall-stones
 pancreatic, 333
 renal, 324, 332
- Camera, intragastric, 24, 271
- Canalisation of stomach, 147, 233
- Cancer, associated with oesophageal diverticula, 186
 associated with polyps, 275, 314
 bicarbonate test for, 160, 245
 causing oesophageal obstruction, 190
 rapid emptying, 263
 incidence of, 252, 258
 in pancreatic tissue, 261, 297
 in post-operative stomach, 288
 near flexure associated with duodenal obstruction, 269, 296
 of bile ducts, 337
 of bile papilla, 261
 of caecum, 304, 305
 of colon, 257, 297, 304, **314**, 317
 invading stomach, 257, 317
 of duodenum, 260
 of gall-bladder, 336
 of hepatic and splenic flexures, 317
 of ileum, 261
 of jejunum, 260, 269, 298
 of larynx, neck and stomach, causing oesophageal obstruction, 204, 239
 of liver, 297
 of mediastinum, 199
 of oesophagus, 196, **198**, 201
 of pancreatic tissue, 261, 297
 of pylorus, 252, 266, 269
 of rectum, 8, 314
 of spleen, 297
 of stomach, 54, 239, **252**, 258, 272, 273, 277, 285
 relation to ulcer, 232, **258**
 simulated by adhesions, 274
- outside gastro-intestinal tract, 297
 simulated by diverticulitis, 314
 by hair-ball, 297
- Cancer, simulated by polyp, 275
 by spasm of oesophagus, 197, 208
 by tuberculosis of colon, 317
 X-ray, 33
see also Sarcoma
- Carbon dioxide inflation, as a method of examination, 224, 276
- Cardia, achalasia of, 146, 187, 198, 204, 209, 210, 239
 effect of respiration on, 77, 144
 in rabbits, 145
 obstruction of, 204
 passage of food through, 143, 145, 212
 position of, 91, 102, 107
 sphincter of, 144, 145, 210
- Cardiospasm, *see* Achalasia
- Cascade stomach, 82
- Celluloid coated pills, passage through intestine, 175
- Champagne-glass stomach, 82
- Charcoal biscuits, 56
- Chest, routine examination of, 14, 16, 29
- Children, form of stomach in, 83
- Choking in pharyngeal pouch, 190
- Cholangiography, 330
- Cholecystitis, indicated by delayed emptying, 263
 indicated by hour-glass stomach, 243
- Cholecystography, history of, 319
 technique for, 327, **333**
- Cholelithiasis simulated by duodenal stasis, 296
- Cholesterol in bile, 322, 323
- Churning, in colon, 174
 in duodenum, 295
 in stomach, 152
- Cicatrisation in the diagnosis of ulcer, 226, 228, 243
 of oesophagus, 196
 of small intestine, 298
- Cinematography, need for in radiography, 164, 165
 of haustra, 174
 of small intestine, 166
 of swallowing, 130
 X-ray, 11, 112, 151, 166, 174
- Cinex camera, 11
- Clinical medicine, need for knowledge of, 1, 4, 29
- Coin catcher, 202
- Coin in oesophagus, 29, 136, 201, *see also* Foreign body

- Cold, effect on peristalsis, 155
 Colic, 298, 300, 305, 309
 Colitis, 173, 300, 305, 309, 314
 and small intestine, 298
 mass movement in, 298
 synonyms of, 306
 Colon, achalasia of, 210, 317
 adhesions of, 274, 317, 336
 associated with gastric spasm, 90, 160
 atony of, 179
 cancer of, 257, 297, 314, 317
 cinematography of, 11, 174
 congenital non-rotation of, 102
 dilatation of, idiopathic, 210, 317
 diverticula of, 185
 effect of gastric atony on, 98, 283
 effect of posture and respiration on, 97, 170
 examination of, 11, 25, 28, 77, 81, 110, 112
 hernia of, 219
 in diaphragmatic hernia, 216
 inertia of, 178
 in gastroparesis, 98, 283
 irritable, 312
 mass movement in, 97, 170, 298, 309
 mental influences on, 307, 313
 mobility of, 97, 104
 mucosa of, 308, 315
 obstruction in, 158, 298, 316
 passage of food through, 169, 170, 306
 pathology of, 298, 305
 peristalsis in, 170, 173, 175, 298
 physiology of, 97, 170
 polyp of, 231, 314
 tuberculosis, chronic hyperplastic, 158, 305, 317
 ulceration of, 309
 “Coloptosis”, 98, 106, 283
 Colostomy, 288, 317
 Compensation, oesophageal, failure of, 207
 Composite pictures, technique of, 74
 Compression devices, 22, 99, 246
 Compton effect, 379
 Concertina action in the stomach, 92, 281
 Concertina appearance in diverticulitis, 312
 Congenital pyloric stenosis, 285
 Constipation, 112, 176, 306, 307, 308, 323
 and pylorus, 161
 due to opaque meal, 57
 in migratory caecum, 305
 spastic, 309
 Constrictor muscles, function of, 195
 in swallowing, 126, 134, 141
 Contract of radiologist, 387
 Contraction of stomach, 90
 Contrast meal, *see* Opaque meal
 Coolidge tube, dangers of, 43
 Costo-phrenic angle, 116, 214, 221, 222
 Cotton-wool pledges, 203
 Couch, examination on, 22, 27, 39, 40, 45
 Cough in pharyngeal pouch, 190
Coupe à champagne stomach, 82
 Crane's string sign, 307, 308
 Crater, ulcer, detection of, 226, 246
 in cancer, 252
 in gastro-jejunal ulcer, 250
 in pyloric ulcer, 243
 see also Niche
 Crenation of greater curvature, 257, 270, 274
 Crohn's disease, 301
 Cud-chewing, 270
 Cup-and-spill stomach, 66, 82
 Current, for cholecystography, 330
 strength of, 16, 32, 39
 Cyst, hydatid, 222, 297
 mesenteric, 297
 Cystic duct, obstruction of, 334
 Dangers, 32, 35
 from general conditions, 48
 from shock, 46
 from X rays, 12, 363
 secondary radiations, 27, 36, 37, 40, 379
 of fluoroscopy, 12, 38, 40, 371, 384
 of palpation, 14, 20, 38
 of pre-judgment, 7, 29
 of radiography, 45
 to patient, 49
 with upright screening stand, 44
 Dark room, arrangement of, 49, 351, 383
 dangers of, 33, 49, 376
 safety lighting for, 352
 Decoration of X-ray room, 351, 383
 Defaecation, 173, 175
 in the hen, 176
 in the horse, resembling swallowing, 145
 Deglutition, *see* Swallowing
 Dehydration in colon, 175
 Delay, in intestines, *see* Stasis
 in stomach, *see* Emptying
 Density of film, 390
 Dentures, *see* Foreign Body; Teeth
 Department, planning of, 1, 12, 49, 340
 Depression, *see* Mental influences
 Dermatitis, X-ray, 33, 38

GENERAL INDEX

413

- Diagnosis, X-ray, 2, 29
 Diaphragm, the, 214
 absence of left half of, 219
 adhesions of, 118, 214, 221
 congenital elevation of, 215
 effect of movement of on viscera, 73, 109
 of posture on, 118
 of respiration on level of, 118, 215
 on cardiac orifice, 144, 145, 146
 elevation of, 214
 hernia of, 187, 214, 216
 in air-sucking, 224, 280
 in sub-phrenic abscess, 221
 in swallowing, 144
 in vomiting, 268
 independent control of the two sides, 122
 innervation of, 215
 paralysis of, 48, 185
 pathology, 214
 position of, 115, 214
 relation of stomach to, 92
 relation to colonic flexures, 97
 spasm of, 68, 222
 technique of investigation of, 123
 tonic control of, 116, 121
 unilateral elevation of, 214
 Diaphragm opening, size of, 19, 22, 37, 39
 Potter-Bucky, 16, 325
 Diaphragmatic hernia, *see* Hernia
 Diarrhoea, 156, 306, 307, 309, 314, 334
 and colic, 298
 and gastric spasm, 90
 and pylorus, 161
 due to opaque meal, 57, 101
 due to X rays, 48
 in migratory caecum, 305
 with vomiting, 157
 Diathesis, 114
 Dilatation, back-pressure, 209
 of caecum, 305
 of colon, 317
 of duodenum, 250, 296
 of oesophagus, 144, 145, 146, 207, 210, 272
 of rectum, 316
 of stomach, 87, 107, 250, 266, 295
 of ureter, 317
 Diploma of Medical Radiology, 1, 341
 Direct beam, *see* Primary beam
 Displacements, of oesophagus, 185, 187
 of stomach, 147, 218, 222
 visceral, causing symptoms, 109
 Distension, due to duodenal diverticula, 293
 due to duodenal ileus, 295, 296
 due to spasm of diaphragm, 222
 of caecum, 315
 of intestine, 298
 of rectum, 175, 180, 316
 Diverticula, of colon, 185
 of duodenum, 185, 293
 of intestine, 185
 of jejunum, 185, 300
 of oesophagus, 185
 of pharynx, 190, *see also* Pharyngeal pouch
 of stomach, 185, 283
 Diverticulitis, 28, 309, 311, 317
 Diverticulosis, 311
 "Do" and "Don't" in examination of patient, 31
 Dog, gastric movements in, 156
 swallowing in, 139
 Doors of X-ray room, 350
 Double contrast enema, 11, 26
 Drain-trap stomach, 82
 Dropped stomach, *see* Gastrophtosis
 Drying of films, 352
 Dumb-bell deformity of stomach in syphilis, 273
 Dunce cap deformity of duodenum, 336
 Duodenitis, 24, 289
 Duodeno-jejunal flexure, cancer of, 261, 269
 obstruction at, 163, 296
 vomiting in, 269
 Duodenum, abnormal position of cap of, 102
 adhesions of, 246, 293, 295, 335
 and pylorus, 161
 cancer of, 260
 deformity of, 246, 285, 288, 289, 293, 335
 dilatation of, 250
 displacement of, 297
 diverticula of, 293
 examination of, 19, 22, 24, 91
 filling of cap of, 24, 159, 163, 246
 ileus of, 295
 innervation of, 159
 intermittent stenosis of, 296
 irritation of, 168, 289, 335
 kinked, 295
 lesions of, cup-and-spill stomach associated with, 82
 looped, 294
 movements of, 164
 mucosa of, 72, 285
 obstruction of, 287, 295

414

GENERAL INDEX

- Duodenum, pain over, 168
 papilla, absence of activity of, 102
 papilloma of, 260
 passage of food through, 163, 296
 peristalsis of, 296
 position of, 91
 post-operative, 288
 sarcoma of, 261
 stasis in, 295, 296
 ulcer of, 69, 221, 225, 229, 245, 261, 290,
 293, 335
 and gastritis, 231
 and gastrophtosis, 283
 frequency of, 230
 ulcer of indicated by hour-glass stomach,
 243
 ulcer of, perforating biliary passages, 249,
 337
 ulcer of, simulated by a pin, 276
 simulated by adhesions and diverticula,
 293
 simulated by duodenal stasis, 296
 Dye-test of gall-bladder, 319
 Dyschezia, 180
 Dyspepsia, analysis of cases, 230
 appendicular, 8, 90, 168
 in diagnosis of ulcer, 225
 in duodenal diverticulum, 293
 in gall bladder disease, 335
 in gastric atony, 264
 in jejunal diverticulum, 300
 in pyloric stenosis, 284
 Dysphagia, 184, 189, 190, 193, 197, 200, 204,
 206
 calcification of thyroid cartilage in, 205
 vallecular, 205
- Earth wires, *see* Wiring
 Electrical experiments on gastric musculature, 67, 243
 Electrical shock, dangers from, 35
 Emotion, *see* Mental
 Emptying, delayed, 6, 25, 54, 155, 226, 263,
 264, 273, 282, 296, 301, 335
 Emptying-time, 263
 accelerated, 15, 155, 289, 295, 299
 after fundusectomy, 263
 after gastro-enterostomy, 159, 288
 and ileo-caecal valve, 160, 168
 in atonic stomach, 264
 in cancer of stomach, 252
 in duodenal irritation, 24, 289
 Emptying-time, in duodenal ulcer, 265
 in gastro-jejunal ulcer, 250
 in gastrophtosis, 282
 in hunger, 159, 161, 300
 in pyloric obstruction, 265
 in pyloric ulcer, 244
 in syphilis, 273
 Enema, after examination, 11, 14, 26, 40
 and anti-peristalsis, 174
 and ileo-caecal valve, 168
 before examination, 14
 coffee, 169
 double contrast, 11, 26
 opaque, in diagnosis, 297, 308, 311, 313,
 315, 318
 recipe for, 11, 54
 technique, 26
 work, secondary X rays in, 38
 Enteroptosis, *see* Visceroptosis
 Epiglottis, action of in swallowing, 128, 134,
 135, 205
 Epithelioma, *see* Cancer
 Equipment, inspection of, 35, 37
 Eructation, 277, 278
 Eventratio diaphragmatica, 214, 215
 Examination, first, 14, 21
 second, 14, 25
 Exercise, effect of on stomach, 263
 Exposure, estimation of, 390
 Eyes, preparation of, 16
 Fainting, 85
 Fallacies in observation, 55, 166
 of composite pictures, 76
 of surface markings, 81
 Fat and the gall-bladder, 328, 330
 Fear, influence of on viscera, 73, 85, 161
 Fever, 101
 Fibroid cancer of stomach, 257, 273
 Fibroid conditions, affecting diaphragm, 214
 causing diverticulum, 187, 314
 of gall-bladder, 322, 325
 Filing, 356, 357
 Filling defect, 102, 253, 256, 272, 274, 275,
 276, 285, 300, 304, 311, 316, 317
 Films, drying of, 351
 legal ownership of, 387
 library of, 361
 Filtration, 50
 Fingertip eyes, 19
 Fishhook stomach, 79, 108
 Fixation operations, 106, 110

GENERAL INDEX

415

- Flatulence, 278, 280
- Flexure, hepatic, 97, 112, 317
obstruction of, 315
point d'appui in, 173
- splenic, cancer of, 317
hernia of in diaphragmatic hernia, 216, 218
position of, 77, 97, 113
time at which meal reaches, 177, 306
visualisation of, 28
see also Duodeno-jejunal
- Floors of X-ray room, 348, 370, 383, 385
- "Fluid" anatomy, 111
- Fluid displacing oesophagus, 187
- Fluid level, in diaphragmatic hernia, 216
in gastric ulcer, 245
in intestine, 299
in stomach, 263
in sub-phrenic abscess, 221
- Fluoroscopy, *see* Screen examination
- Food, effect of, on oesophageal obstruction, 189, 196, 207
on peristalsis, 155
on pylorus, 158, 263
on swallowing, 130, 137
influence of on intragastric pressure, 84, 85
opaque, *see* Opaque meal
passage of, *see* Passage of food
relation of, to pain in ulcer, 225, 228
weight and bulk of, influence of on viscera, 73, 109, 143, 154
- Food ball, 276
- Foreign body, in appendix, 302
in caecum, 276
in eye, 340
in oesophagus, 29, 136, 143, 201
in stomach, 275
simulating gall-stones, 333
- Fragmentation of food in intestine, 163, 299
- Fundus, ulceration of, 226, 238
- Fundusectomy, 263
- Fungoid type of gastric cancer, 254
- Gall-bladder, adhesions, 246, 293, 335
anatomy of, 319, 334
and pylorus, 161
cancer of, 336
causing delay in emptying, 263
causing gastric spasm, 90
fibrosis of, 322, 325
in pregnancy, 323
papilloma of, 330, 336
- Gall-bladder, pathology of, 322
penetration of, by opaque food, 249
physiology of, 319
position of, 101, 334
study of excised specimens of, 325–327
- Gall-stones, 320, 323
aetiology of, 323
diagnosis of, 332
incidence of, 322
- Gas, in bowel, 98, 107, 147, 298, 307, 318
in peritoneal cavity, 224
in stomach, 83, 160
in sub-phrenic abscess, 221
see also Air
- Gastrectomy, partial, 231
- Gastric ulcer, *see* Ulcer
- Gastritis, 69, 231, 257, 270, 291
and duodenal ulcer, 231
mucous membrane pattern in, 270
- Gastro-colic reflex, 172
- Gastro-enterostomy, 159, 228, 231, 242, 250, 265, 287, 295
and post-operative ulcer, 249
in diaphragmatic hernia, 218
statistics of, 289
- Gastro-ileac reflex, 167, 172
- Gastro-intestinal symptoms due to X rays, 48
- Gastro-jejunal ulcer, 230, 249
- Gastropexy, 110
- Gastropostisis, 54, 67, 78, 80, 81, 85, 98, 107, 108, 109, 110, 265, 282, 295, 296
and stomach musculature, 67, 81, 109
associated with duodenal obstruction, 296
associated with duodenal ulcer, 249
- Gastroscopy, 271
- Geographical incidence, of gastric syphilis, 272
of ulcer, 231, 287
- Glands, calcareous, simulating gall-stones, 333
cervical, operation on, causing phrenic paralysis, 215
enlarged, displacing oesophagus, 185, 187, 190
simulated by oesophageal abscess, 201
simulated by oesophageal cancer, 199
- Glass, lead, protective value of, 41
safety, for dark room, 352
- Glénard's disease, 100, 107, 381
- Globus hystericus, 205
- Glosso-pharyngeal nerve, 65
- Gloves, for palpation, 18, 34, 38, 385

- Goat, rumination in, 270
 Goggles, use of, 16, 43
 Gradient theory of peristalsis, 157, 304, 309
 Graham test, 319, *see also* Cholecystography
 Gravity, action of in swallowing, 128
 effect of on blood supply to abdomen, 381
 on oesophagus, 143
 on pylorus, 158
 on viscera, 73, 108
 in diagnosis of ulcers of fundus, 238
 in passage of food through stomach, 148
 Growth, *see* Cancer
 Gullet, *see* Oesophagus
- Haematemesis, 15, 200
 Haemopoietin, 160
 Haemorrhage, gastric, 240
 in oesophageal varix, 188
 in diagnosis of ulcer, 225, 228
 Hair-ball in stomach, 257, 276, 297
 Halogen excretion, 321
 Haudek niche, 6, 23, 232
 Haustral segmentations, 97, 170, 174, 307, 318
 cinematography of, 174
 in colitis, 307, 308
 Headache, and constipation, 307
 and pylorus, 161
 associated with delayed emptying of stomach, 263
 associated with reduced peristalsis, 156
 in duodenal stasis, 296
 Heart, symptoms due to, 8
 Heat, effect on peristalsis, 155
 Heister, valves of, 320
 Hens, defaecation in, 176
 swallowing in, 139
 Hernia, diaphragmatic, 187, 216
 hiatus, 220
 oesophageal orifice, 219
 paroesophageal, 220
 Higginson syringe, 28
 High tension leads, 46
 Hilum phthisis, 310
 Hirschsprung's disease, 210, 317
 History, clinical, 15
 of cholecystography, 319
 of opaque meal, 12, 53
 of radiology, 46, 48, 181, 346, 352, 366
 of ulcer, 225
 of X-ray cinematography, 11, 32
 Holidays of assistants, 376, 383
 Horse, air-sucking in, 280
 Horse, defaecation in, 145
 swallowing in, 126
 Hospital radiographic department, 340
 Hospital routine, 8
 Hour-glass stomach, 8, 13, 54, 69, 83, 89, 182, 209, 226, 227, 232, 239, 240, 242, 243, 265, 275
 associated with dilatation of oesophagus, 209
 associated with duodenal ulcer, 69, 243
 caused by electrical stimulation, 69, 243
 caused by gastric spasm, 89, 182
 caused by foreign body, 275
 in cup-and-spill stomach, 83
 in diagnosis of ulcer, 226, 227, 239, 240
 simulated by angle of stomach, 242
 simulating oesophageal obstruction, 209
 vomiting from, 269
 with delay in lower sac, 265
 Hunger, and ileo-caecal valve, 167
 and opening of pylorus, 159, 161, 300
 Hunger movements, 156
 Hydatid cyst, *see* Cyst
 Hyoid, movement of in swallowing, 134, 141
 Hyperergic irritable stomach, 271
 Hypersthenic stomach, 108
 Hypertonic stomach, 80, 81, 88, 109, 181, 250
 Hypertrophic pyloric stenosis, 284
 Hysteria and spasm of diaphragm, 224
 Hysterical obstruction of oesophagus, 204
 Idiopathic dilatation, of colon, *see* Hirschsprung's disease
 of oesophagus, *see* Achalasia
 of ureter compared with achalasia, 210
 Idiosyncrasy to X rays, 51, 367
 Ileo-caecal region, tuberculosis of, 305
 Ileo-caecal sphincter, 179
 Ileo-caecal valve, 160, 167, 168, 179, 285, 300
 delay behind, 160, 263, 302
 Ileo-gastric reflex, 161, 167
 Ileo-pyloric reflex, 160
 Ileum, cancer of, 261
 mucosa of, 167
 passage of food through, 163, 166, 306
 pathology of, 8, 298, 301
 stasis of, 155, 169, 301, 307, 312
 Ileus, duodenal, 295
 Incisura, produced electrically, 68, 69, *see also* Niche
 Indexing, 356, 357

GENERAL INDEX

417

- Infants, form of stomach in, 83
 Influenza, effect of on diaphragm, 116
 Innervation, of cardia, 144
 - of diaphragm, 215
 - of duodenum, 159
 - of gall-bladder, 321
 - of oesophagus, 136, 206, 210
 - of pylorus, 149
 - of stomach, 63, 83, 159
 Intensity of radiation for screening, 16
 Intestine, *see* Colon, Duodenum, Jejunum, Ileum
 Intragastric photography, 24, 271
 Intussusception, 288, 300, 311
 Iodine, as an opaque substance, 321
 - increasing skin sensitivity, 50
 Ionisation, for colitis, 308
 - of oesophageal ulcer, 200
 Iontoquantimeter, 36, 364, 368
 Iron, a bad protective material, 43
 - as an opaque substance, 53
 "itis", definition of, 311
 Jackson's membrane, 111
 Jaundice, in clinical history, 16
 Jejunum, cancer of, 260, 269, 298
 - diverticula of, 300
 - passage of food through, 163
 - pathology of, 8, 298
 - segmentation of, 166
 - ulcer of, 225, 249, 287, 288
 - vomiting from, 269, 298
 Jews, oesophageal cancer among, 198
 J-shaped stomach, 79, 108, 155
 Juice, gastric, *see* Secretion
 Kidney, causing gastric spasm, 90
 - dislocated, 106
 - effect of posture and respiration on, 99
 - infection round, causing sub-phrenic abscess, 221
 - movable, 107
 - ptosis of, associated with duodenal ulcer, 249
 - stones in, simulating gall-stones, 324, 332
 - visualisation of, 53
 Kinking, 98, 109, 112, 283, 295, 317, 318
 - of duodenum, 295
 Kymography in stomach, 152
 Ladder effect in intestinal obstruction, 299
 Lane's kink, 168
- Lantern slide library, 361
 Larynx, cancer and inflammation of, causing oesophageal obstruction, 204
 - movement of in swallowing, 128, 131, 134
 Laughter, effect of on viscera, 104
 Lead, opacity of, 349
 Lead glass, protective value of, 41, 369, 372, 374, 377, 384
 Lead poisoning, 300
 Leads, *see* Wiring
 Leather-bottle stomach, 257, 301
 Legal ownership of films, 387
 Lienography, 101
 Ligamentous action of muscle, 69, 83
 Lighting, of dark room, 352
 - of X-ray room, 350, 355
 Linitis plastica, 252, 257, 273, 301
 Lipoma of ileum, 300
 Liver, abscess of, causing sub-phrenic abscess, 221
 - cancer of, 297
 - displacement of by sub-phrenic and sub-hepatic abscess, 221, 222
 - effect of posture and respiration on, 100
 - enlargement of in cancer, 257
 - function of, 321, 333
 - hydatid cyst of, 222
 - perforated by duodenal ulcer, 249
 - visualisation of, 53
 Looping of duodenum, 294
 Lordosis associated with duodenal obstruction, 296
 Lung disease associated with delayed emptying, 265
 Lungs, displacing oesophagus, 187, 190
 - hydatid cyst of, 222
 - massive collapse of, 119
 - perforation of, by hydatid cyst, 222
 - by oesophageal abscess, 200, 201
 - secondary deposits of cancer in, 257
 - vital capacity of, 116
 Lymphosarcoma, *see* Sarcoma
 Lymphoblastoma, 271
 McBurney's point, relation of appendix to, 96
 "Magenblase", 83, 91, 147, 214, 263, 268, 277, 281
 Magnesium sulphate in examination, 15, 169
 Malignancy, *see* Cancer
 Manipulation, effect of on pylorus, 78, 159
 - effect of on stomach, 89, 155

- Manipulation of appendix, 96, 169
value of, 13, 20, 21, 23, 28, 55, 104, 245,
246, 251, 253, 256, 265
- Marmalade in opaque meal, 10
- Masks, 43
- Mass movement, 97, 170, 298, 309
absence of, 178
- Meal, opaque, *see* Opaque
- Meckel's diverticulum, 300
- Megasigmoid, 317
- Menstruation and gastric acidity, 161
- Mental attitude of patient, 15, 57
- Mental disorder and intestinal disease, 177
- Mental influences, on colon, 307, 313
on peristalsis, 156
on stomach, 88, 155, 161, 211, 267
on viscera, 73, 77, 85, 106, 107, 110, 112,
147, 167, 176, 224, 263, 278, 296, 300,
302, 309
- Mercury bougies in achalasia, 212
- Mercycism, 270
- Mesentery, effect of on colon, 98
elongation of, associated with duodenal
obstruction, 296
causing migratory caecum, 305
causing mobility, 109
congenital malformation of, 102
growths of, 297
- Metalix tube, 38, 43
- Milk, effect on peristalsis, 155
- Mind wandering while screening, 17
- Mobility of viscera, 78, 97, 103, 105
- Models of stomach, 93, 111
- Mucosa and Auerbach's plexus, 63
gastric, 69, 148, 154, 158, 270, 274,
285
heaping-up of over ulcer crater, 235,
238, 244, 246, 253
in cancer, 253, 256, 258
in duodenitis, 291
in gastritis, 270
in polyposis, 314
inflammation of, associated with ulcer,
231, 235
jejunal, in ulcer, 251
movements of, 69, 71, 97, 238, 291
oesophageal, 69, 136, 143, 189
oesophageal, in varix, 188
of colon, 308, 315
of duodenum, 163, 291
of gall-bladder, 320, 333, 336
of ileum, 167
- Mucosa of small intestine, 165
pharyngeal, in swallowing, 135, 136
pyloric, 71
study of, 10, 20, 21, 23, 55, 69, 226
- Muscularis mucosae, 69, 71, 97, 238, 291
in cancer, 260
in gastritis, 270
of bile ducts, 320
of duodenum, 165, 293
of gall-bladder, 319
of oesophagus, 136
- Musculature, of duodenum, 159, 165
of ileum, 167
of oesophagus, 65, 136
of pharynx, 192
of pylorus, 71, 159
of stomach, 63, 65, 72, 85, 89, 147, 154,
158, 240, 288
of stomach in gastroparesis, 67, 81, 109
of swallowing, 126, 128, 136, 141
rôle of in spasm, 68
- Museum films, 361
- Nature's mechanics, 3, 113
in swallowing, 141
- Nausea, 15, 73, 90, 268, 300, 329
- Neck, cancer or inflammation of, causing
oesophageal obstruction, 204
- Negative pressure, in abdomen, 121
in air-sucking, 279, 280
in biliary passages, 249
in colon, 170
in mouth, 137
in pharyngeal pouch, 195
in small intestine, 166
in swallowing, 58, 126 *et seq.*, 131, 137,
141
proof of, 137
- Neoplasm, *see* Cancer
- Nephropexy, in duodenal ulcer, 249
- Nerve supply, *see* Innervation
- Nervous lesions causing oesophageal ob-
struction, 204
- Neurotic obstruction of oesophagus, 200,
204
- New growth, *see* Cancer
- Niche, Haudek, 6, 23, 232, 336
in cancer of the stomach, 252
in duodenal ulcer, 246
in jejunal ulcer, 250, 288
- Nitrite poisoning, 54, 182
- Non-rotation, congenital, of colon, 102

GENERAL INDEX

419

- Normal, importance of recognising variations of, 2, 24, 55, 98, 106, 111, 127, 176, 271
- Nurses, *see* Assistants
- Obesity and gall-stones, 334
- Oblique band, function of, 147
producing cup-and-spill stomach, 66, 83
- Obsessions in constipation, 176
- Obstruction, duodenal, 163, 287, 295, 296
ileo-caecal, 301
intestinal, 288, 298
oesophageal, 127, 144, 184, 189, 239
of colon, 158, 298, 316, 317
of cystic duct, 334
pyloric, 218, 265, 273, 287
see also Ileus, Stenosis
- Oesophageal aerophagy, 279
- Oesophageal orifice hernia, 219
- Oesophageal stomach, 187
- Oesophagectasia, *see* Achalasia
- Oesophagoscope, 184
- Oesophagus, 184
abscess of, 196, 201
air in, 278, 279
anatomy of, 187
and swallowing, 135, 136
artificial, 143
back pressure dilatation of, 143, 209
bougie for, 184
cancer of, 196, 198, 201
cicatrisation of, 196
compression of, 190
dilatation of, 144, 145, 146, 189, 207, 210
idiopathic, *see* Achalasia
in gastric syphilis, 272
displacements of, 185, 187
diverticula of, 185
examination of, 184
foreign bodies in, 136, 143, 201
innervation of, 136, 206
mucosa of, 69, 136, 143, 189
muscle of, 65
negative pressure in, 141
obstruction of, 127, 144, 184, 189, 239
see also Obstruction
- paralysis of, 141, 205
passage of food through, 143
pathology of, 184
peristalsis of, 143, 145, 189, 207
see also Peristalsis
- pouches of, 185
- Oesophagus, spasm of, 141, 144, 189, 197, 202, 210
syphilis of, 196
tuberculosis of, 196
ulceration of, 188, 196, 199
- varix of, 188
- Office work, 356
- Opaque enema, *see* Enema
- Opaque meal, 6, 9, 74, 92
action on intestine, 182
as cause of spasm, 182
barium in, 26
causing death, 182
examination, fallacies of, 227
first, 9
history of, 53
indication for in gall-bladder cases, 334, 335
persistence in intestine, 14, 26
preparation of patient for, 14
psychic effect of, 57
purgative effect of, 57, 178
recipe for, 54
second, 10
service in hospital, 8
single, disadvantages, 5
use of first mouthful of, 9, 21
- Operating theatre, stomach in, 88, 148
- Optimism, and disease above the diaphragm, 177
- Out-patients, opaque meal service for, 8
- Ownership of films, 387
- Oxychloride of bismuth as an opaque substance, 54
- Oxygen injection, 224
- Pain, diagnostic value of in ulcer, 225, 226, 240
due to tension, 228
in appendicitis, 8, 90, 168, 229, 302
in clinical history, 15
in duodenal diverticulum, 293
in duodenal stasis, 296
in gastric ulcer, 156, 225, 228
in oesophageal ulcer, 200
in swallowing, with oesophageal obstruction, 145, 207
time relation of in ulcer, 225, 229
visceral, cause of, 225
- Palpation, dangers of, 14, 20
gloves for, 18, 38, 385
in diagnosis of adhesions, 244, 246, 293
in diagnosis of duodenal ulcer, 246
in diagnosis of gastric cancer, 253, 256

27-2

420

GENERAL INDEX

- Palpation, in diagnosis of intussusception, 311
 in enema work, 28
 in gastric syphilis, 272
 of appendicular region, 301, 302
 pressure sense in, 20, 256
 radiological, 13, 18
 to detect ulcer, 226, 233
- Pancreas, and duodenal diverticula, 293, 295
 effect of posture and respiration on, 98
 lesions of, 8
 stones in, simulating gall-stones, 333
 ulcers penetrating to, 98, 239, 240
- Pancreatic calculi, 333
- Pancreatic tissue, cancer in, 261, 297
- Papilla, duodenal, failure of activity of, 102
- Papilla of Vater, *see* Bile papilla
- Papilloma, cutaneous, 333
 of duodenum, 260
 of gall-bladder, 330, 336
- Paradoxical movement of diaphragm, 215
- Paralysis, of the diaphragm, 48, 185
 of the oesophagus, 141, 205
 of the phrenic nerve, 185, 199, 215
- Parasites, intestinal, 231, 314, *see also* Hydatid
- Paroesophageal hernia, 220
- Passage of food, through alimentary tract, 56
 through appendix, 169
 through caecum, 160, 167, 169, **170**, 306
 through cardia, 143, 145, 212
 through colon, 169, **170**, 306
 through duodenum, 295
 through ileo-caecal valve, 167
 through ileum, 166, 306
 through jejunum, 163
 through mouth, 126
 through oesophagus, 126, 143
 through pharynx, 126
 through pylorus, 147
 through rectum, 175
 through sigmoid, 172
 through stomach, 147, 242, 263, 264
- Patient, risks to, 49
- Pelvic brim, time at which meal reaches, 177
- Pendulum movements in colon, 175
- Peppermint, effect on peristalsis, 155
- Perinephric infection, 221
- Peristalsis, abnormal, 266
 and borborygmi, 282
 and pseudodiverticulum of the duodenum, 294
- Peristalsis, and pyloric sphincter, 24, 152, 158, 159
 control of, 156
 effect of purgative on, 15
 factors affecting, 88, 155
 gastric, 69, 89, 109, **149**
 gradient theory of, 157, 309
 in achalasia, 211
 in atonic stomach, 264, 267
 in caecum, 179
 in cancer of the duodeno-jejunal flexure, 262
 in cancer of the stomach, 253, 256, 258
 in colon, 170, 173, 175, 298
 in delayed emptying, 264
 in duodenitis, 289
 in duodenum, 163, 295, 296
 in gastro-jejunal ulcer, 250
 in headache, 156
 in hypertrophic stenosis, 284
 in ileum, 166
 in intestinal obstruction, 288, 298
 in oesophageal obstruction, 144, 189, 207
 in oesophagus, 126, 143, 145
 in pharyngeal pouch, 127, 196
 in pyloric obstruction, 265
 in pyloric stenosis, 284
 in pyloric ulcer, 245
 in pylorus, 154, 158
 in small intestine, 163, 165, 166, 298
 in swallowing, 126, 136
 in visualisation of duodenal cap, 24, 158, 159
 in vomiting, 268
 origin of, 63, 69
- Pendulum movement, 56
 reverse, 267, 295, 296
 and enema, 174
 in caecum, 179
 in colon, 172, 174
 in duodenum, 164, 296
 in oesophagus, 144
 in small intestine, 164
 in stomach, 154
 stimulated by laughter, 104
- under anaesthesia, 57, 88
 visible, 57, 175
see also Mass movement
- Peritoneum, gas and air in, 100, 224
 pain and, 229
 relation of sub-phrenic abscess to, 221
- Peritonitis, 299

GENERAL INDEX

421

- Pessimism, and constipation, 177
 Petit's congenital elevation of the dia-phragm, 215
 Pharyngeal pouch, 186, 190
 aetiology of, 194
 anatomy of, 192
 spasm in, 194
 swallowing in, 127, 190
 Pharynx, in swallowing, 132, 134
 mucosa of, 135
 vestigial remains in, 187
 Photographic method of estimating exposure, 390
 Photography, intragastric, 24, 271
 Phrenic paralysis, 185, 215
 in oesophageal cancer, 199
 Phthisis, hilum, 310
 Physiology, fallacies in teaching of, 2, 24,
 56, 58, 105, *see also* Normal
 Phytobezoar, 257, 276
 Pillules, passage through intestine, 175
 Pin, *see* Foreign body
 Pledged method for investigating foreign bodies, 203
 Pleural cavity, fluid in, 118, 214
 in sub-phrenic abscess, 221
 Pleural cavity, perforation of in peptic ulcer
 of oesophagus, 200, 201
 perforation by foreign body, 202
 perforation by hydatid cyst, 222
 Plexus, Auerbach's, 63, 159
 Plugs, 355
 Plumbism, *see* Lead poisoning
 Pneumoperitoneum, 100
 Pneumothorax simulated by diaphragmatic hernia, 218
Point d'appui, 173, 179, 309
 Poisoning from bismuth, 54
 Polyp, gastric, 256, 257, 274
 of colon, 231, 314
 of intestine, 311
 Posture, definition of, 84
 effect of, on blood supply to abdomen, 381
 on diaphragm, 118
 on kidney, 99
 on liver, 100
 on spleen, 101
 on stomach, 84, 91, 155, 278
 on viscera, 73, 77, 81, 96
 importance of in diagnosis of gastric cancer, 256, 274
 in cholecystography, 331
 Posture in diagnosis, of adhesions, 274, 311
 of appendicular disorder, 169
 of oesophageal hernia, 221
 of ulcers of the duodenum, 246
 of ulcers of the stomach, 238
 in duodenal stenosis, 296
 in examination, 21, 22, 23, 28, 184, 301
 in swallowing, 128, 131
 see also Tone
 Potter-Bucky diaphragm, 16, 325, 368
 in cholecystography, 331, 332
 see also Diaphragm
 Pouch, oesophageal, 185
 pharyngeal, 186, 190
 see Diverticula, Pharyngeal pouch
 Power supply to X-ray departments, 354
 Precautions against undue exposure, 36
 Precepts in examination, 31
 Pregnancy and gall-stones, 323
 Prejudgment, 7, 29
 Pressure, abdominal in defaecation, 176
 causing oesophageal obstruction, 190
 influence of, on viscera, 73
 intragastric, effect of tone on, 84, 109
 effect of on cardiac orifice, 144
 effect of on pylorus, 158
 negative, in air-sucking, 279, 280
 in biliary passages, 249
 in colon, 170
 in mouth, 137
 in pharyngeal pouch, 195
 in small intestine, 166
 in swallowing, 58, 126 *et seq.*
 Pressure sense, 20
 Primary beam, danger of, 18, 36, 37, 38, 43,
 44, 45
 Protection, in walls, 33, 349
 International Recommendations for, 383
 measures for, 32, 38, 43, 369, 376, 386
 of patient, 49
 Pseudo-diverticulum of the duodenum, 293
 Pseudo-polyp, 314
 Pseudo-tympanites in spasm of diaphragm, 222
 Psychic, *see* Mental
 Psychosis, and the small intestine, 300
 in constipation, 177
 Ptosis, *see* Coloptosis, Gastrophtosis, Viscerophtosis
 Pulsion, producing pharyngeal pouch, 194
 Purgative, accelerating emptying of stomach, 15, 155

- Purgative, after opaque meal, 14, 26
 and cholecystography, 328
 and intestinal obstruction, 299
 before examination, 14
 causing colitis, 308
 effect of barium meal, 178
 Purgatives, habit of taking, 176
 "Pyknic" type of Kretschmer, 81
 Pyloroplasty, 231
 Pylorus, cancer of, 252, 266, 269
 causing symptoms in diaphragmatic hernia, 218
 control of, 161
 effect of posture and respiration on, 91, 92
 in *limitis plastica*, 258
 innervation of, 149
 mechanism of, 158 *et seq.*
 mucosa of, 71, 154, 285
 muscle of, 149, 159
 obstruction of, 218, 265, 273, 287
 mistaken for oesophageal, 208
 opening of, 158 *et seq.*
 passage of food through, 145, 147, 154, 263
 position of, 78, 108, 282
 reflex closure of, 168
 spasm of, 90, 228, 243, 312
 secretory function of, 160
 sphincter of, 71, 158
 stenosis of, 273, 284
 thickening of, 63
 traction on, causing symptoms of diaphragmatic hernia, 218
 ulcer of, 226, 243
 indirect signs of, 245
 peristalsis in, 24, 152, 158, 159
 visualisation of, 24
 "r" unit, 33 *et seq.*
 Rabbits, cardia in, 145
 Radio-diagnosis, 1
 Radiographers, function of, 341
 Society of, 341
 Radiography, dangers of, 45
 Radiologist, function of, 7
 need for special training of, 2, 4, 340
 Radium, protection from, 385
 Radium workers, anaemia in, 48, 375
 Rectum, air lock in, 317
 atony of, 180
 carcinoma of, 8, 314
 distension of, 175, 180, 316
 passage of food through, 175
 Rectum, reflexes from, causing gastric changes, 90, 160
 stagnation in, 178, 180
 Reflex, gastro-ileac, 167, 172
 ileo-gastric, 167
 Registration of cases, 359
 Regurgitation of food, 197, 208
 Relief study, *see* Mucosa
 Reports, 29, 345, 356
 of screen examination, 12
 Requisition card, 358
 Respiration, and borborygmi, 281
 effect of, on cardia, 77, 144
 on colon, 170
 on diaphragm, 118, 215
 on diaphragmatic hernia, 216
 on kidney, 100
 on liver, 100
 on pancreas, 98
 on pylorus, 91, 92
 on spleen, 101
 on stomach, 92
 on surface markings, 75
 on viscera, 77, 96
 in cholecystography, 331
 in diagnosis of adhesions, 274
 in diagnosis of cancer of stomach, 256
 in diagnosis of gastric diverticula, 283
 Retching, 68, 90, 154, 268
 Retention, *see* Emptying
 Reticulo-endothelial system, visualisation of, 101
 Retinometer, Howard Pirie's, 17
 Rib cartilages, calcified, simulating gallstones, 324, 331, 332
 Ribbon sign, 308
 Ribs, level of, 75
 Rigidity, 229, 301, 307
 Ringworm, idiosyncrasy in, 51
 Risks, *see* Dangers
 Rooms, X-ray, 344
 Rotating anode tube, 16
 Roughage in constipation, 177
 Routine, hospital, 8
 importance of, 5, 31, 330
 scheme for, 14, 357
 Rugae, gastric, 23, 24, 69, 148, 233, 238, 239, 251
 in adhesions, 274
 in cancer, 253, 256
 in duodenum, 165
 in gastritis, 270, 271

GENERAL INDEX

423

- Rugae, ileal, 167
 of gall-bladder, 336
 see also Mucosa
- Rumbling, *see* Borborygmi
- Rumination, 147, 270
- Safety limit of X-ray dosage, 34, 363, **367**, 368, 376
- Salivation, and gastric spasm, 90
- Sarcoma, of duodenum, 261
 of intestine, 311
 of stomach, 252
- Scattered X-rays, *see* Secondary radiations
- Scattering of rays by patient, 20, 38, 40
- Schonander's screen, 16
- Scirrhous cancer of stomach, 257, 273
- Screen examination, 19, 29
 current required for, 16, 32
 dangers of, 12, 38, 40, 371, 384
 history of, 12
 of gall-bladder, 328, 332
 palpation in, 12
 radiography during, 13, 22, 43
 technique of, 12
- Screen, fluorescent, 12, 371
 Schonander, 16
- Screening couch, 27, 39, 40, 41, 45
- Screening stand, upright, 13, 22, **41**
 dangers of, 44
- Secondary radiations, 27, 36, **37**, 40, 379
 effects of, 364
 measurements of, 369, 372, 374
- Secretion, excessive in pyloric ulcer, 243, 245
 after operation, 288
 and opening of pylorus, 147, 160, 162
 in stomach, 87, 147, 154, 160, 263
 in vomiting, 268
- Seeds, opaque, passage through colon, 174
- Segmentation, colonic, 312
 duodenal, 164, 295
 hastral, 97, 170, 174, 307, 308, 318
 ileal, 167
 jejunal, 166
- Sensation, *see* Mental
- Sensitivity, *see* Idiosyncrasy, Skin, and Tolerance
- Sepsis, dental, 90, 263, 265, 300
 associated with delayed emptying, 161
- Serial films, 132, 149, 170
 apparatus for making, 14, 25
- Serial plates, early use of, 13
- Sex variations, of gall-bladder, 334
 of gall-stones, 323, 324
 of ulcer, 232, 248, 249
- Shock, dangers from, 35, 46, 340
 fatal case of, 47
- Sigmoid, cancer of, 314
 diverticula in, 313
 examination of, 26, 28, 97
 passage of food through, 172
 redundant, 110, 317
 relation to caecum, 98
 see also Colon, Flexure
- Sigmoidoscope, 316
- Silicosis, 116
- Silver, recovery of, 353
- Sinus infection, 48, 161
- Skin, damage to, 33, 39
 Skin markings, errors of, 81, 120
- Smock, X-ray proof, 39, 42, 373, 385
- Soda, effect on peristalsis, 155
- Sodium bicarbonate, *see* Bicarbonate
- Spark gap, size of, 16
- Spasm, and pseudo-duodenal diverticulum, 294
 causing difficulties in diagnosis, 182
 due to foreign body, 276
 gastric, 63, 83, 89, 155, 265
 produced electrically, 67, 243
- in cancer of stomach, 252
- in duodenal ulcer, 243, 246
- in intestine, 298
- in pharyngeal pouch, 194
- in ulcer, 182, 226, 227, 240, 242, 243
- in vomiting, 268
- masked by modern opaque meal, 182
- of cardia, *see* Achalasia
- of colon, 304, 309, 317
- of diaphragm, 222
- of duodenum, 291
- of oesophageal ulcer, 200
- of oesophagus, 189, 196, 198, 202, 208
- of pylorus, 90, 228, 243, 312
- "Spastic constipation", 309
- Sphincter, at cardiac orifice, 144, 145, 210
 at site of gastro-jejunostomy, 288
- caecal, 97, 168, 179, 305
- in mass movement, 173, 179
- of Oddi, 321
 pyloric, 71, 158
- Spinal accessory nerve, 65
- Spine, abscess of, 187, 190
- Spleen, cancer of, 297

424

GENERAL INDEX

- Spleen, effect of posture and respiration on, 101
Spastic flexure, see Flexure
Spondylitis and pharyngeal pouch, 195
Spoon, wooden, for palpation, 18, 169, 173
Staff, see Assistants
Stagnation, in caecum, 178
 in gall-bladder, 323
 in rectum, 178, 180
Stasis, caecal, 178, 305
 colonic, 111, 306
 duodenal, 296
 ileal, 102, 155, 168, 169, 301, 307, 312
 oesophageal, 207
Steerhorn stomach, 108
Stenosis, in gastric syphilis, 273
 of colon due to chronic hyperplastic tuberculosis, 305
 of duodenum, intermittent, 296
 of pylorus, 284
Stereoscope, Wheatstone, 93
Stomach, adhesions round, 240, 253, 257, 274
 adenoma of, 275
 air in, 91, 147, 154, 214, 263, 277, 281
 anatomy of, 3
 anti-anaemic function of, 160
 asthenic, 108
 atonic, 67, 80, 87, 88, 92, 98, 107, 108, 109, 110, 147, 155, 181, 228, 242, 243, 264, 266, 281
 bezoar in, 276
 borborygmi in, 280
 canalisation of, 147, 233
 cancer of, 54, 252, 258, 272, 273, 277, 285
 causing oesophageal obstruction, 204, 239
 cascade, 82
 concertina action in, 92, 281
 congenital abnormality of, 102, 109
 contraction of, 90
 cup-and-spill, 66, 82
 diastole in, 151
 dilatation of, 87, 107, 250, 266, 295
 diverticula of, 185, 283
 displacement of, 147, 218, 222
 by hydatid cyst, 222
 dome of, in diaphragmatic hernia, 216, 219
 drain-trap, 82
 dropped, *see Gastrophtosis*
 early work on, 54
 effect of posture on, 91
 effect of respiration on, 79, 92
 emptying-time, 25, 54, 155, 160, 161, 168, 226, 252, 263, 264, 273, 282, 289, 295, 296, 299, 301
 en coupe à champagne, 82
 failure of rotation, 102
 fibrosis of, 257, 273
 fish-hook, 79, 108
 foreign bodies in, 275
 hair-ball in, 257, 276, 297
 hernia of, through diaphragm, 216
 hour-glass, *see Hour-glass*
 hunger movements in, 156
 hyperergic, 271
 hypersthenic, 108
 hypertonic, 78, 80, 81, 88, 109, 181, 250
 in infants and children, 83
 innervation of, 63, 83, 159
 in operating theatre, 88, 148
 invasion of by cancer of colon, 257, 317
 J-shaped, 79, 108, 155
 kymography in, 152
 leather-bottle, 257, 301
 long, 55, 67, 78, 80, 81, 85, 107, 108, 109, 110, 265, 282
 long, and ulcer, 249
 in normal subjects, 81
 models of, 93, 111
 mucosa of, 69, 148, 154, 158, 270
 muscle of, 63, 65, 72, 85, 89, 154, 159, 240
 electrical experiments on, 67
 normal, 62
 models of, 93, 111
 oesophageal, 187
 “operation”, 88, 148
 passage of food through, 144, 147, 242
 perforation of, by growth of colon, 317
 peristalsis in, 149, 155
 phytobezoar in, 276
 polyp of, 256, 257, 274
 position of, 104, 106, 108
 post-operative, 287
 pressure in, 84, 109, 144
 ptotic, 54
 pyknic, 81
 relation of diaphragm to, 92
 reverse peristalsis in, 154
 sarcoma of, 252
 shape of, at rest, 79

GENERAL INDEX

425

- Stomach, short, 81
 small, 90, 155, 289
 spasm of, 83, 89, 155
see also Spasm
 steerhorn, 79, 108
 sthenic, 108
 syphilis of, 257, 272
 systoles in, 151, 156
 thoracic, 187, 219, 221
 tone in, 3, 63, 67, 69, 81, 83 *et seq.*, 92, 108, 147, 158, 161
see also Atony
 trichobezoar in, 276
 tube, misleading in oesophageal obstruction, 208
 tuberculosis of, 274
 ulcer of, 225, 229, 238
see also Ulcer, gastric
 visualisation of, 53
 wall, thickness of, 63, 288
- Stricture, *see* Obstruction
 String sign, Crane's, 307, 308
 Sub-hepatic abscess, *see* Abscess
 Succussion sign, 264
 Suction, *see* Negative pressure
 Suicide, and constipation, 177
 and dentures, 202
 Surface markings, effect of posture and respiration on, 74
 fallacy of, 81, 120
 Susceptibility to X-rays, *see* Idiosyncrasy, Tolerance
 Swallowing, 58, 126, 166
 diaphragmatic, 144
 difficulty of, *see* Dysphagia
 effect of gravity in, 128
 noisy in pharyngeal pouch, 190
 pain after, 145, 207
 pharynx in, 132, 195
 subjective study of, 130
- Sympathetic nervous system, 63
 action, on bile passages, 321
 on cardia, 144, 210
 in duodenum, 159
- Syphilis, of oesophagus, 196
 of stomach, 257, 272
- Systoles in stomach, 151, 156
- Tabes dorsalis, gastric crises, 300
- Tactile sense, in palpation, 20
- Tambours, objections to use of, 58, 127, 147, 166
- Tartaric acid, affecting opening of pylorus, 160
 affecting shape of stomach, 83
- Taste buds in swallowing, 136
- Teaching films, 361
- Teeth, reflexes from, causing gastric spasm, 90, 263, 265
 swallowed, 143, 275
- Telephones in X-ray department, 355
- Tenderness, appendicular, 301
 in colitis, 307
 in diverticulitis, 313
 in polyp, 314
 in ulceration, 229, 245
- Tension, causing visceral pain, 145, 228
- Tetany, gastric, in hunger, 156
- Tetrabromophenolphthalein, 321
- Tetraiodophenolphthalein, 321
- Therapy, deep, 345
 X-ray, 340, 345
- Thoracic stomach, 187
- Thorium dioxide, 10, 101
- Thorotrust, in cholangiography, 330
- Thymus, persistent, 187
- Thyroid cartilage, action of in swallowing, 134, 141
 calcification of, associated with dysphagia, 205
 substernal, 187
- Tight lacing, effect on stomach, 147
- Toast crumbs, in diagnosis, 189, 227
 of oesophageal cancer, 199, 200
- Tolerance to X rays, 33, 38, 363, 365, 376
- Tone, and diaphragm, 116, 121
 augmented by vagus, 63
 causing pain, 229
 effect of, on pylorus, 158
 effect of emotion on, 85
 gastric, 3, 63, 67, 69, 81, 83 *et seq.*, 92, 108, 109, 147, 148, 158, 161
 in delayed emptying, 263
 loss of before vomiting, 268
- in achalasia, 210
 in defaecation, 180
 in gasteroptosis, 67, 81, 109
 of colon, 173, 175, 178, 309
 of ileum, 167
- Tongue in swallowing, 126, 128, 131, 134
- Tooth plate, *see* Foreign body
- Tordiol, 101
- Toxic absorption in constipation, 177
- Traction, causing oesophageal diverticula, 178

- Traction, producing pharyngeal pouch, 194
 Transposition of viscera, 102
 Transversalis muscle, rôle in maintaining visceral position, 109
 Triangulation, 333
 Trichobezoar, 276
 Trocar for barium enema, 27
 Tube box, 43
 Tube, shock-proof, 340
 Tube, X-ray, 32, 33, 38, 50, 368, 384
 rotating anode, 16
 Tuberculosis, and gastric disorder, 8
 chronic hyperplastic, 158, 305
 in dark-room workers, 49
 of caecum, 158, 304, 317
 of colon, 305, 317
 of oesophagus, 196
 of stomach, 274
 prevention of, in X-ray workers, 49
 Tuberculous peritonitis, 299
 Tumour, benign, and ulcer, 259
 in pyloric stenosis, 284
 outside gastro-intestinal tract, 297
 pressing on oesophagus, 187
 see also Cancer
 Typhoid ulceration, 301

 Ulcer, and age, 232, 248
 and sex, 232, 248
 causing spasm, 182, 224 *et seq.*
 direct evidence of, 232, 243, 246
 distribution of, 230, 248
 duodenal, 221, 225, 229, 243, **245**, 283
 and duodenitis, 290
 and gall-bladder, 334
 and gastritis, 231
 cancer in, 261
 causing sub-phrenic abscess, 221
 hour-glass contraction in, 69
 niche of, 23, 226, **232**, 246
 perforating biliary passages, 249, 337
 perforation of, 335
 simulated by adhesions, 246, 293
 simulated by diverticulum, 293
 simulated by duodenal stasis, 296
 simulated by foreign body, 276
 simulated by looped duodenum, 294
 frequency of, 230
 gastric, 30, 221, 225, 270
 and gall-bladder, 334
 and hypersthenic constitution, 108
 and right iliac fossa, 167
 Ulcer, gastric, associated with cup-and-spill stomach, 28
 bicarbonate test for, 245
 cancer in, 232, 252, **258**
 causing oesophageal obstruction, 204
 causing sub-phrenic abscess, 221
 eroding pancreas, 98
 inflammation about, 270
 mucous membrane in, 231, 235
 pain of, 156, 229
 post-operative, 249
 simulated by appendicitis, 167
 healing of, 226, 236
 history of, 225
 incidence of, 230
 indirect signs of, 226, 245
 intestinal, 298
 jejunal, 225, 249, 287
 malignant, 232, 252, 258, 261
 of body, 239
 of cardia causing obstruction, 204
 of colon, 309
 of fundus, 226, 238
 of pylorus, 226, **243**
 pain in, 228
 penetrating, 235, 239, 244, 283
 peptic, of oesophagus, 184, 189, 196, **199**
 post-operative, 230, 249
 simulated by syphilis, 273
 typhoid, 301
 visualisation of, 232
 Ulcer crater, *see* Niche
 Umbilicus, level of, 74
 Umbrathor, for demonstrating gastric mucosa, 10
 intestine, 11
 spleen, 101
 Unit skin dose, 33, 363, 364
 Upright screening stand, *see* Screening stand
 Ureter, idiopathic dilatation of, 210, 317
 Urinary tract, examination of, 11

 Vagus, action of, on bile passages, 321
 on cardia, 144, 145, 210
 rôle of, 63
 Vallecular dysphagia, 205
 Valve, ileo-caecal, operation for repair of, 169
 see also Ileo-caecal valve
 Valves of Heister, 320
 Varix, oesophageal, 188

GENERAL INDEX

427

- Vaso-motor system, and compensation for posture, 381
- Venous circulation, 381
- Ventilation of X-ray department, 48, 340, 348, **349**, **350**, 351, 376, 383
- Vestigial remains in pharynx, 187
- Viewing box, 30
- Viscera, effects of posture and respiration on, 96
mental influences on, 73, 77, 85, 106, 107, 110, 112, 224, 263, 300, 302, 309
mobility of, 78, 79, **103**, **105**
transposition of, 102
- Viscerotopsis, 80, 107, 282
simulated by duodenal stasis, 296
see also Coloptosis, Gastrophtosis
- Visual anaesthesia, 17
- Vital capacity, 116
- Voltage, high, *see* High tension
- Vomiting, 90, 267
and diarrhoea, theory of, 157
due to X rays, 48
in cancer of duodeno-jejunal flexure, 262, 269
in cancer of jejunum, 269
in cholecystography, 328, 329, 334
in clinical history, 15
in duodenal diverticulum, 293
in duodenal stasis, 296
in intestinal disease, 298
in jejunal diverticula, 300
in peptic ulcer of oesophagus, 200
in pharyngeal pouch, 208
- Vomiting, of enema, 169
with hair-ball, 276
- Walls, protection in, 349, 370, 374
- Warts, X-ray, 33
- Wasting, in achalasia, 211
in oesophageal obstruction, 207
- Water, effect on peristalsis, 155
- Waterbrash, 250
- Weight, loss of, 15
in duodenal stasis, 296
- Weight of food, effect in stomach, 92
effect on viscera, 73, 77, 143
- Windows of X-ray rooms, 349
- Wires, earth, 355
- Wiring of X-ray department, 47, 354, 355, 385
- Work, effect of on stomach, 263
- X-ray and Radium Protection Committee, 32
International Recommendations, 383
- X-ray burn, 32, 33, 47, 50
- X-ray cinematography, 11, 112, 151, 156, 164, 165, 166, 174
- X-ray department organisation, 1, 12, 49, 340 *et seq.*
- X-ray film, legal ownership of, 387
- X-ray sickness, 48
- X rays, danger from exposure to, 12, 35
- Zenker pouch, 190
- Zinc ionisation, for colitis, 308
for oesophageal ulcer, 200