

- Neisseria gonorrhoeae* (Cont.):
laboratory identification of, 150e-2t, 150e-6, 1007-1008
lipooligosaccharide of, 1004
microbiology of, 1003
outer-membrane proteins of, 1003-1004
tissue tropisms of, 145e-8-9
- Neisseria meningitidis*. See also Meningococcal infections
antibiotic resistance in, 933
asymptomatic carriage of, 998
colonization by, 998
host response to, 998
laboratory identification of, 150e-2t
outer-membrane vesicles, 1002, 1002f
structure of, 995-996, 995f, 995t, 996f
tissue tropisms of, 145e-8-9
- Neisseria meningitidis* vaccine. See Meningococcal vaccine
- Nelarabine, 103e-11t
- NELF gene mutations, 2364t
- Nelfinavir, 246e-4t, 1276f, 1280f
- Nelson's syndrome, 360, 2273
- Nemaline myopathy, 462e-12
- Nematodes/nematode infections, 255e-1
- filarial
 Brugia spp., 245e-3t, 1417, 1418t. See also Lymphatic filariasis
 Dracunculus medinensis. See *Dracunculus medinensis* (guinea worm)/dracunculiasis
 Loa loa. See *Loa loa* (African eye worm)/loiasis
 Mansonella spp., 245e-6t, 1418t, 1422
 Onchocerca volvulus. See *Onchocerca volvulus*/onchocerciasis
 tropical pulmonary eosinophilia, 422, 1420
 Wuchereria bancrofti, 245e-3t, 765t, 1417, 1418t. See also Lymphatic filariasis
 zoonotic, 1423
- intestinal, 1404t, **1413**
 anisakiasis, 1416-1417
 Ascaris lumbricoides. See *Ascaris lumbricoides*/ascariasis
 Capillaria philippinensis/capillariasis, 245e-3t, 765t, 1417
 Enterobius vermicularis/enterobiasis (pinworm), 245e-3t, 245e-5t, 1414t, 1416
 hookworm. See Hookworm infections
 Strongyloides stercoralis. See *Strongyloides stercoralis*/strongyloidiasis
 trichostrongyliasis, 1416
 Trichuris trichiura. See *Trichuris trichiura*/trichuriasis (whipworm)
- tissue, **1410**
 Ancylostoma braziliense, 245e-3t, 1415
 Ancylostoma caninum, 1415
 Angiostrongylus. See *Angiostrongylus* spp. infections
 Gnathostoma. See *Gnathostoma spinigerum*/gnathostomiasis
 larva migrans syndromes. See also Larva migrans
 Ancylostoma braziliense, 245e-3t, 1412
 Baylisascaris procyonis. See *Baylisascaris procyonis* infections
 Toxocara canis, 245e-3t, 765t, 1411
 Toxocara cati, 245e-3, 765t, 1411
 Trichinella. See *Trichinella*/trichinellosis
- NEMO (NF- κ B essential modulator)
in cellular signaling pathway, 145e-6f
deficiency of, 420t, 421, 2106, 2111
in nontuberculous mycobacterial infections, 1129, 1129f
- Neoadjuvant therapy, 103e-3
- Neobladder, orthotopic, 577
- Neocarzinostatin, 550
- Neomycin
action of, 942
adverse effects of, 269, 381, 644t, 942
for hepatic encephalopathy, 2066
for irritable bowel syndrome, 1969
for otitis externa, 228
prophylactic, 945t
vitamin A absorption and, 96e-6
- Neonatal-onset multisystem inflammatory disease (NOMID), 2213t, 2215
- Neonate(s)
diabetes in, 2406
infections in
 C. perfringens, 991
 C. trachomatis, 1169, 1170t, 1171
 Candida, 441e-8f
 CMV, 50, 1191, 1191t
 enterococcal, 974
 enterovirus (generalized disease of the newborn), 1291, 1291t
 gonococcal, 1006, 1009t
 group B *Streptococcus*, 970
 herpesvirus, 50
 HIV, 1226
 HSV, 215e-3t, 1180
 L. monocytogenes, 983
 rubella. See Rubella, congenital
 syphilis. See Syphilis, congenital
 T. gondii, 1398, 1399-1400, 1402, 1404
 tetanus, 984
 varicella, 1184
jaundice in, 653, 654, 2001
seizures in, 2545, 2546t
vitamin K deficiency in, 96e-8
- Neorickettsia*, 1159
- Neostigmine
for anticholinesterase testing, 2702
for intestinal pseudoobstruction, 1985
overdosage/poisoning with, 473e-10t
for snakebite treatment, 2737, 2737t
- Nephrectomy, 578-579
- Nephritis. See Acute interstitial nephritis (AIN); Acute kidney injury (AKI); Glomerulonephritis; Lupus nephritis; Pyelonephritis
- Nephrocalcinosis, 1862
- Nephrogenic fibrosing dermatopathy, 1819
- Nephrogenic systemic fibrosis, 270e-9, 440e-5
- Nephrolithiasis, **1866**
abdominal pain in, 106t
approach to the patient, **1868**
back pain in, 118
clinical features of, 289t, 1868
conditions associated with, 1866
diagnosis of, 289t, 1868-1870, 1868f, 1869f
differential diagnosis of, 1868
epidemiology of, 1866
genetic considerations in, 1867-1868
history in, 1869
in hyperparathyroidism, 2472
hyperuricemia and, 431e-4f
inherited, 332e-7t
pathogenesis of, 1866-1867
prevention of, 1869, 1870
risk factors for, 1867
treatment of, 431e-4-5, 1870-1871
in Wilson's disease, 2519
- Nephron(s)
embryologic development of, 332e-1-2, 332e-1f, 333e-1
functions of, **332e-3**
 cellular transport, 332e-3
 in collecting duct, 332e-5f, 332e-6f, 332e-8-9
 in distal convoluted tubule, 332e-4f, 332e-8
 epithelial solute transport, 332e-3
 in loop of Henle, 332e-4f, 332e-8
 membrane transport, 332e-6
 in proximal tubule, 332e-3f, 332e-6-8
inherited disorders involving, 332e-7t
reduced number of, 333e-1-2, 333e-1t
- Nephronophthisis, 1850t, 1851f, 1855
- Nephropathia epidemica, 1321
- Nephropathy
analgesic, 1861, 1861f
aristolochic acid, 577, 1804, 1856t, 1861
atherosclerotic, 1835t, 1847
calcineurin-inhibitor, 1829, 1862
contrast-induced, 440e-2, 1461, 1803, 1806t, 1820
diabetic. See Diabetic nephropathy
heavy metal, 1862
HIV-associated, 62e-1f, 1258-1259, 1849
hypercalcemic, 1862
hypokalemic, 1862
IgA. See IgA nephropathy
light chain cast. See Light chain deposition disease/nephropathy
lithium-associated, 1861-1862
membranous. See Membranous glomerulonephritis
phosphate, 62e-11f, 1859
quartan malarial, 1375
radiation-induced, 1864
reflux, 1859-1860, 1860f
sickle cell, 1835t, 1848, 1860, 1865-1866
urate, 431e-4, 1858
uric acid. See Uric acid nephropathy
- Nephrosclerosis, hypertensive, 62e-9f, 1617, 1630, 1835t, 1847-1848
- Nephrosis, urate, 431e-4
- Nephrotic syndromes, **1841**
clinical features of, 289t, 1835t, 1836, 1841
acid-base disorders, 317
ascites, 287
edema, 252, 252t
hypoalbuminemia, 294
hyponatremia, 299
diabetic nephropathy. See Diabetic nephropathy
diagnosis of, 289t
in Fabry's disease. See Fabry's disease
focal segmental glomerulosclerosis. See Focal segmental glomerulosclerosis
glomerular deposition diseases, 1845
fibrillary-immunotactoid glomerulopathy, 1835t, 1845
light chain deposition disease. See Light chain deposition disease
renal amyloidosis, 62e-6f, 1835t, 1845
lipoprotein disorders in, 2438-2439
membranous glomerulonephritis. See Membranous glomerulonephritis
minimal change disease. See Minimal change disease
treatment of, 1841
- Nephroureterectomy, 577
- Nepuyo virus, 1309t
- Nerve abscess, in leprosy, 1126
- Nerve agents, **262e-4**
action of, 262e-4, 262e-4f, 473e-10t
clinical features of exposure to, 262e-4-5, 473e-10t
treatment of exposure to, 262e-5-7, 262e-5t, 262e-6f, 473e-10t
- Nerve biopsy, indications for, 2677
- Nerve conduction studies
in back pain, 114
in peripheral neuropathy, 2676-2677, 2677t
principles of, 442e-4-5, 442e-5f
- Nerve growth factor (NGF), 444e-7t
- Nesidioblastosis, 570, 572, 2434
- Nesiritide, 1509, 1510t, 1763
- Netilmicin, 930
- NETs. See Neuroendocrine tumors (NETs)
- NETs (neutrophil extracellular traps), 1753
- Networks
disease, 87e-3-4, 87e-5f, 87e-6f
gene, 87e-3, 87e-6f, 87e-7f
neural, 177
organization of, 87e-2, 87e-2f
- Neural foraminal narrowing with radiculopathy, 116, 116f
- Neuralgia(s)
glossopharyngeal, 237, 2649
migrainous, 237
trigeminal. See Trigeminal neuralgia
- Neurally adjusted ventilatory assist ventilation, 1743
- Neural network, 177
- Neural stem cells, 90e-3, 453t
- Neural tube defects, 29t, 47, 642-643
- Neuraminidase, 214e-5, 947, 947f
- Neurasthenia, 2703