

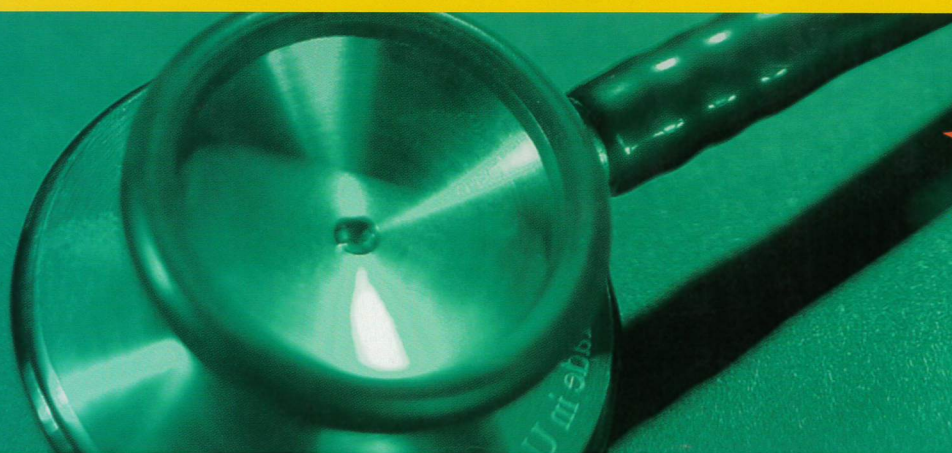
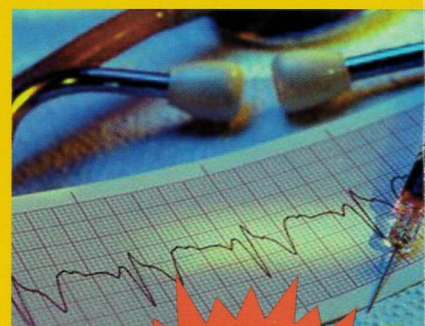
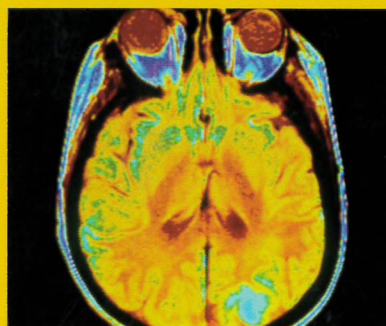
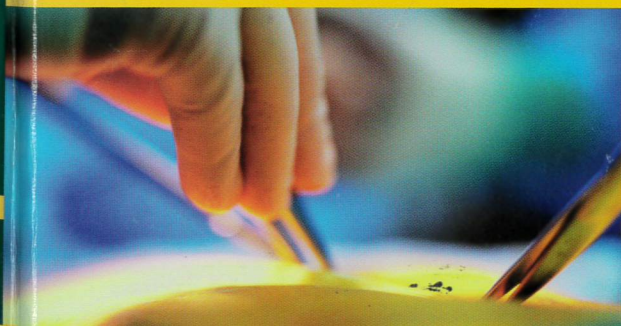
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with distinctive bilobed fan-shaped seeds surrounded by a mass of cells strongly of butyric acid, surviving only in cultivated ginkgo heterosides and terpenes in cerebral and peripheral vas-

of several species of *Panax*. A great medicinal virtue by the "icecutal"; alleged to improve

Asian g.
resumed active component in saponins.

polypeptide; gastric inhibi-

born U.S. surgeon, 1841-

Any structure that has the [TA]. [A.S. *gyrdel*]

around the abdomen.

bony ring, formed by the supports the upper limb, attaching axial skeleton (manubrium), cingulum membri superio-

p bones, joined anteriorly at the humerus posteriorly, by which the lower limbs is attached to the pelvis as a bony ring. SYN cingulum membri inferioris.

for pectoral g.

symmetric arcuate yellow-white often seen in patients over 40

orne Robert, British orthope-

digitalis purpurea containing a glycoside with action and uses similar

use similar to lathyrism, because of the corn cockle, *Agrostis*, goats, cattle, and poultry, a plant, Roman coriander, +

in of aglycon; a cardiotonic

triglycoside composed of xylose; F-gitogenin has one xylose. Both are cardiotonic

the aglycon of gitoxin.

cardiac glycoside from *Digitalis purpurea*, bigitatin, pseu-

ter cell. [Ger. fr. *Gitter*,

3 and the gene for DFNBI.

2.

3.

ate.

smooth prominence, most one above the root of the nose, point of the forehead in the forehead ridges. SYN mesophryon.

SEE ALSO antinion. SYN intercillum. [L. *glabellus*, hairless, smooth, dim. of *glaber*]

glabella (glä-bel'ad). Toward the glabella.

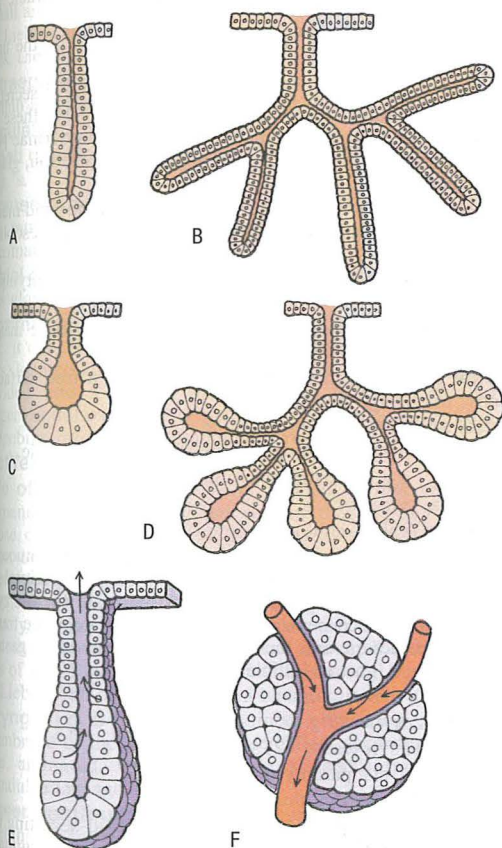
glabrous, gla-brate (glä-brūs, glä-brät). Smooth or hairless; denoting areas of the body where hair does not normally grow, i.e., palms or soles. [L. *glaber*, smooth]

gladi-ate (glä'dē-āt). SYN **xiphoid**. [L. *gladius*, a sword]

gladi-olus (glä-dī'ō-lūs, glä'dē-ō'lūs). Although the correct pronunciation is gladi'olus, the word is often pronounced gladi'us in the U.S. SYN **body of sternum**. [L. dim. of *gladius*, a sword]

GLAND

gland (gland) [TA]. An organized aggregation of cells functioning as a secretory or excretory organ. See this page. SYN **glandula** [TA]. [L. *glans*, acorn]



Types of glands: (A) tubular, (B) compound tubular, (C) acinous, (D) compound acinous, (E) exocrine, (F) endocrine

accessory g., a small mass of glandular structure, detached from but lying near another and larger g., to which it is similar in structure and probably in function.

accessory lacrimal g.'s [TA], small, compound, branched, tubular g.'s located sometimes in the middle part of the lid (Wolfring g.'s, 1872, or Ciaccio g.'s, 1874) or along the superior and inferior fornices of the conjunctival sac (Krause g.'s, 1854). These accessory g.'s are ectopic portions of the lacrimal g. tissue; all produce the same kind of tears, secreting onto the conjunctival surface. Henle and Baumgarten "glands" are in fact not g.'s at all, but mere epithelial invaginations. SYN **glandulae lacrimales accessoriae** [TA].

accessory parathyroid g. [TA], an additional (or detached portion of a) parathyroid g., resulting in at least five but usually many more glandular units. SYN **glandula parathyroidea accessoria** [TA].

accessory parotid g. [TA], an occasional islet of parotid tissue separate from the mass of the g., lying anteriorly just above the commencement of the parotid duct. SYN **glandula parotidea accessoria** [TA], **admaxillary g.**, **glandula parotis accessoria**, **socia parotidis**.

accessory suprarenal g.'s [TA], isolated, often minute, masses of suprarenal tissue sometimes found near the main g.'s or in the broad ligament or the epididymis. SYN **glandulae suprarenales accessoriae** [TA].

accessory thyroid g. [TA], an isolated mass, or one of several such masses, of thyroid tissue, sometimes present in the side of the neck, or ranging in position from just superior to the hyoid bone (suprathyroid accessory thyroid g.) to the arch of the aorta inferiorly. SYN **glandula thyroidea accessoria** [TA], **accessory thyroid**, **prethyroid g.**, **suprathyroid g.**, **thyroidea accessoria**, **thyroidea ima**, **Wölfler g.**

acid g., one of the gastric g.'s that secretes the hydrochloric acid of the gastric juice. SYN **oxyntic g.**

acinotubular g., SYN **tubuloacinar g.**

acinous g., a g. in which the secretory unit(s) has a grapelike shape and a very small lumen; e.g., the exocrine part of the pancreas.

admaxillary g., SYN **accessory parotid g.**

adrenal g., SYN **suprarenal g.**

aggregate g.'s, SYN **aggregated lymphoid nodules of the small intestine**, under **nodule**.

agminate g.'s, **agminated g.'s**, SYN **aggregated lymphoid nodules of the small intestine**, under **nodule**.

Albarran g.'s (ahl'bah-rah-n), minute submucosal g.'s or branching tubules in the subcervical region of the prostate g., emptying for the most part into the posterior portion of the urethra. SYN **Albarran y Dominguez tubules**.

albuminous g., a g. that secretes a watery fluid.

alveolar g., a g. in which the secretory unit(s) has a saclike form and an obvious lumen; e.g., the active mammary gland.

anal g., (1) one of a number of large sudoriferous g.'s in the mucous membrane of the anus; (2) an incorrect synonym for anal sac. (3) paired g.'s located at approximately the 4- and 8-o'clock positions when animal's anus is viewed from behind, present in dogs and cats. These small round saccular glands are located in the subcutis and produce an odoriferous oily discharge that likely serves to mark territory. They are connected to the terminal anus by a narrow bore tube; may become infected, impacted, abscessed, or neoplastic. Problems are more common in obese, constipated, or inactive animals.

anterior lingual g., a small mixed g. deeply placed near the apex of the tongue on each side of the frenulum. SYN **apical g.**, **Bauhin g.**, **Blandin g.**, **glandula lingualis anterior**, **Nuhn g.**

apical g., SYN **anterior lingual g.**

apocrine g., a g. with a secretory product that includes an apical portion of the secretory cell (e.g., secretion of lipid droplets in lactation).

apocrine sweat g.'s, sudoriferous g.'s that develop in association with hair follicles and undergo enlargement and secretory development at puberty; they secrete a viscous, odorless sweat that supports bacteria growth leading to production of an acid odor; secretion is by a merocrine, not apocrine, mechanism. SYN **axillary sweat g.'s**.

areolar g.'s [TA], a number of larger sebaceous g.'s forming small rounded projections (i.e., areolar tubercles) from the surface of the areola of the breast; they enlarge during pregnancy and during lactation secrete a substance presumed to provide resistance to chapping. SYN **glandulae areolares** [TA], **Montgomery follicles**, **Montgomery g.'s**.

arteriococcygeal g., SYN **coccygeal body**.

arytenoid g.'s, mucosal g.'s in the region of the arytenoid cartilages of the larynx. SEE **laryngeal g.'s**. SYN **glandula arytenoidea**.

- usually follows a caudally directed course during development (e.g., testis) to descend or to follow the normal course.
- mal-di-ges-tion** (mal'dī-jēs'chūn). Imperfect digestion.
- mal-do-na-do-San Jo-se stain** (mahl-dō-nah'dō san hō-sā'). See under stain.
- male** (māl). 1. In zoology, denoting the sex to which those belong that produce sperms; a person of that sex. 2. SYN **masculine**. [L. *masculus*, fr. *mas*, male]
- genetic human m.**, (1) an individual with a karyotype containing a Y chromosome; (2) an individual whose cell nuclei do not contain Barr sex chromatin bodies, which are normally present in females. Patients with ambiguous sexual development and those with Turner syndrome are classed as genetic m.'s or genetic females according to the absence or presence of Barr bodies even though their sex chromosome complement may suggest otherwise.
- XX m.**, a clear male phenotype in the presence of a 46,XX karyotype; presumably the vital parts of the Y chromosome are located elsewhere in the genome as a result of translocation at least in some affected persons.
- XXY m.**, SEE *Klinefelter syndrome*.
- XXY m.**, SEE *XXX syndrome*.
- Mal-e-cot** (mal-ē-kō'), Achille-Etienne, 19th-century French surgeon. SEE *Malecot catheter*.
- ma-le-ic ac-id** (mā-lē'ik as'id). Butenedioic acid; used for preparing maleate salts. SYN *toxic acid*.
- mal-e-mis-sion** (mal-'ē-mish'ūn). Failure to eject semen from the penis at orgasm. [mal- + L. *e-mitto*, pp. *missus*, to send out]
- mal-e-rup-tion** (mal-ē-rūp'shūn). Faulty eruption of teeth.
- mal-e-yl-ac-e-to-ac-e-tate** (mal-ē-il-as'ē-tō-as'ē-tāt). An intermediate in L-phenylalanine and L-tyrosine catabolism; accumulates in certain inherited disorders of tyrosine metabolism.
- m. cis-trans-isomerase**, an enzyme that catalyzes the reversible conversion of m. to 4-fumarylacetoacetate; an enzyme that participates in L-tyrosine catabolism; a deficiency of this enzyme is associated with tyrosinemia type IB.
- mal-for-ma-tion** (mal'fōr-mā'shūn). Failure of proper or normal development; more specifically, a primary structural defect that results from a localized error of morphogenesis; e.g., cleft lip. Most m.'s are considered to be a defect of a morphogenetic or developmental field that responds as a coordinated unit to embryonic interaction. Cf. *deformation*.
- Arnold-Chiari m.** (ar'nöld kē-ah'rē) [MIM*207950], malformed posterior fossa structures associated with caudal traction and displacement of the rhombencephalon as caused by tethering of the spinal cord; may be accompanied in some cases by spina bifida and associated anomalies such as meningocele; usually multifactorial in inheritance. SYN *Arnold-Chiari deformity*, *Arnold-Chiari syndrome*, *cerebellomedullary malformation syndrome*.
- arteriovenous m.'s (AVM)**, (1) vessels through which blood is shunted from arterioles to venules without passing through the capillaries. The term "arteriovenous anastomosis" is widely used, but not preferred, because the connection is between arterioles and venules rather than arteries and veins. (2) any improper or abnormal development related to arteries or veins. SYN *arteriole-venular anastomoses* [TA].
- cystic adenomatoid m.**, a rare developmental lung-bud abnormality that results in stillbirth, acute progressive respiratory disease of newborns, or protracted childhood pneumonias; combines features of a hamartoma, dysplastic growth, and tumorous growth. Three types have been described, based chiefly on cyst diameters: Type I: up to 10 cm; Type II: less than 1.2 cm; and Type III: less than 0.5 cm.
- dancer's foot m.**, SYN *ballerina-foot pattern*.
- ductal plate m.**, M. consisting of congenital hepatic fibrosis with probable autosomal recessive inheritance. SEE ALSO *dysencephalia splanchnocystica*.
- mermaid m.**, SYN *sirenomelia*.

- Michel m.** (mē-shel'), hypoplasia of the petrous pyramid and aplasia of the inner ear.
- venous m.**, (rarely used). SYN *venous angioma*.
- mal-func-tion** (mal-fūnk'shūn). Disordered, inadequate, or abnormal function.
- Mal-gai-gne** (mahl-gān'), Joseph F., French surgeon, 1806–1865. SEE *Malgaigne amputation*; *Malgaigne fossa*; *M. hernia*; *Malgaigne luxation*; *Malgaigne triangle*.
- Mal-her-be** (mahl-ārb'ē), Albert, 1845–1915. SEE *Malherbe calcifying epithelioma*.
- mal-ic ac-id** (mal'ik as'id). Hydroxysuccinic acid; found in apples and various other tart fruits; an intermediate in the tricarboxylic acid cycle, and the glyoxylate cycle, and in the malate-aspartate shuttle system. SYN *monohydroxysuccinic acid*.
- mal-ic ac-id de-hy-dro-gen-ase** (mal'ik as'id dē'hī-drō'jen-ās). SYN *malate dehydrogenase*.
- mal-ic de-hy-dro-gen-ase** (mal'ik dē'hī-drō'jen-ās). SYN *malate dehydrogenase*.
- ma-lig-nan-cy** (mā-lig'nant-sē). The property or condition of being malignant.
- ma-lig-nant** (mā-lig'nānt). 1. Resistant to treatment; occurring in severe form, and frequently fatal; tending to become worse and leading to an ingravescence course. 2. In reference to a neoplasm, having the property of locally invasive and destructive growth and metastasis. [L. *maligno*, pres. p. *-ans* (*ant-*), to do anything maliciously]
- ma-lin-ger** (mā-ling'gēr). To engage in malingering.
- ma-lin-ger-er** (mā-ling'gēr-ēr). One who engages in malingering.
- ma-lin-ger-ing** (mā-ling'gēr-ing). Feigning illness or disability to escape work, excite sympathy, or gain compensation. [Fr. *mal-ingre*, poor, weakly]
- mal-in-ter-dig-i-ta-tion** (mal'in-tēr-dij'i-tā'shūn). Faulty intercuspsation of teeth.
- Mall** (mahl), Franklin Paine, U.S. anatomist and embryologist, 1862–1917. SEE *M. formula*, *ridges*, under *ridge*; *periportal space* of M.
- mal-le-a-ble** (mal'ē-ā-būl). Capable of being shaped by being beaten or subjected to pressure; a property of certain metals such as gold and silver. [L. *malleus*, a hammer]
- mal-le-brin** (mal'ē-brin).
- mal-le-o-in-cu-dal** (mal'ē-ō-ing'kū-dāl). Relating to the malleus and the incus in the tympanum.
- mal-le-o-lar** (mā-lē-ō-lār). Relating to one or both malleoli.
- mal-le-o-lus**, pl. **mal-le-o-li** (ma-lē-ō-lūs, -lī) [TA]. Avoid the mispronunciation *malleo-lus*. A rounded bony prominence such as those on either side of the ankle joint. [L. dim. of *malleus*, hammer]
- external m.**, SYN *lateral m.*
- inner m.**, SYN *medial m.*
- internal m.**, SYN *medial m.*
- lateral m.** [TA], the process at the lateral side of the lower end of the fibula, forming the projection of the lateral part of the ankle; the lateral malleolus extends farther inferiorly than the medial m. SYN *m. lateralis* [TA], *external m.*, *extramalleolus*, *outer m.*
- m. lateralis** [TA], SYN *lateral m.*
- medial m.** [TA], the process at the medial side of the lower end of the tibia, forming the projection of the medial side of the ankle; the medial m. lies superior to the level of the lateral m. SYN *m. medialis* [TA], *inner m.*, *internal m.*
- m. medialis** [TA], SYN *medial m.*
- outer m.**, SYN *lateral m.*
- mal-le-ot-o-my** (mal'ē-ot'ō-mē). Division of the malleus. [malleus + G. *tomē*, incision]
- mal-le-us**, gen. and pl. **mal-lei** (mal'ē-ūs, mal'ē-ī) [TA]. The largest of the three auditory ossicles, resembling a club rather than a hammer; it is regarded as having a head, below which is the

the acuity of distant vision; the letters vary in size in such a way that each one subtends a visual angle of 5' at a particular distance.

tetan-. SEE tetano-.

te-tan-ic (te-tan'ik). Avoid the mispronunciation tet'anic. Relating to or marked by a sustained muscular contraction, as in tetanus. [G. *tetanikos*]

te-tan-i-form (te-tan'i-fōrm). SYN **tetanoid** (1).

tet-a-nig-e-nous (tet'ā-nij'ē-nūs). Causing tetanus or tetaniform spasms. [tetanus + G. *-gen*, producing]

tet-a-nism (tet'ā-nizm). SYN **neonatal tetany**.

tet-a-ni-za-tion (tet'ā-ni-zā'shūn). 1. The act of tetanizing the muscles. 2. A condition of tetaniform spasm.

tet-a-nize (tet'ā-nīz). To stimulate a muscle by a rapid series of stimuli so that the individual muscular responses (contractions) are fused into a sustained contraction; to cause tetanus (q.v. [2]) in a muscle.

tetano-, tetan-. Combining forms denoting tetanus, tetany. [G. *tetanos*, convulsive tension]

tet-a-noid (tet'ā-noyd). 1. Resembling or of the nature of tetanus. SYN **tetaniform**. 2. Resembling tetany. [tetano- + G. *eidos*, resemblance]

tet-a-nol-y-sin (tet'ā-nol'i-sin). A hemolytic principle, elaborated by *Clostridium tetani*, which seems to have no role in the etiology of tetanus.

tet-a-nom-e-ter (tet'ā-nom'ē-tēr). An instrument for measuring the force of tonic muscular spasms. [tetano- + G. *metron*, measure]

tet-a-no-mo-tor (tet'ā-nō-mō'tōr). An instrument by means of which tonic spasms are produced by the mechanical irritation of a hammer striking the motor nerve of the muscle affected. [tetano- + L. *motor*, a mover]

tet-a-no-spas-min (tet'ā-nō-spaz'min). The neurotoxin of *Clostridium tetani*, which causes the characteristic signs and symptoms of tetanus; chief action is on the anterior horn cells, and the spasms seem to be due to action at inhibitory synapses.

tet-a-no-toxin (tet'ā-nō-tok'sin). SYN **tetanus toxin**. [tetano- + G. *toxikon*, poison]

tet-a-nus (tet'ā-nūs). Avoid the misspelling/mispronunciation tetnus. Do not confuse this word with tetany. 1. A disease marked by painful tonic muscular contractions, caused by the neurotropic toxin (tetanospasmin) of *Clostridium tetani* acting on the central nervous system. Cf. lockjaw, trismus. 2. A sustained muscular contraction caused by a series of nerve stimuli repeated so rapidly that individual muscular responses are fused, producing a sustained tetanic contraction. SEE **emprostotonos**, **opisthotonos**. See page C9. [L. fr. G. *tetanos*, convulsive tension]

acoustic t., experimental t. induced by a faradic current, the speed of which is estimated by the pitch of the vibrations.

cephalic t., a type of local tetanus that follows wounds to the face and head; after a brief incubation (1-2 days) the facial and ocular muscles become paretic yet undergo repeated tetanic spasms. The throat and tongue muscles may also be affected. SYN **cerebral t.**

cerebral t., SYN **cephalic t.**

complete t., t. in which stimuli to a particular muscle are repeated so rapidly that decrease of tension between stimuli cannot be detected.

drug t., tonic spasms caused by strychnine or other tetanic agent. SYN **toxic t.**

generalized t., the most common type of t., often with trismus as its initial manifestation; the muscles of the head, neck, trunk, and limbs become persistently contracted, and then painful paroxysmal tonic contractions (tetanic seizures) are superimposed; the high mortality rate (50%) is due to asphyxia or cardiac failure.

incomplete t., t. (2) in which each stimulus causes a contraction to be initiated when the muscle has only partly relaxed from the previous contraction.

local t., the most benign type of t.; the muscles in close proximity to an infected wound develop persistent involuntary contrac-

tions, often with transient, intense superimposed spasms triggered by various stimuli. The more distal upper extremity muscles are most often affected; gradual but complete recovery is typical.

neonatal t., SYN **t. neonatorum**.

t. neonatorum, t. occurring in newborn infants, usually due to infection of umbilical area with *Clostridium tetani*, often a result of ritualistic practices; has high fatality rate (about 60%). SYN **neonatal t.**

postpartum t., SYN **puerperal t.**

puerperal t., t. occurring during the puerperium from infection of the obstetric wound. SYN **postpartum t.**, **uterine t.**

Ritter opening t. (rit'ēr), the tetanic contraction that occasionally occurs when a strong current, passing through a long stretch of nerve, is suddenly interrupted.

toxic t., SYN **drug t.**

traumatic t., t. after infection of a wound.

uterine t., SYN **puerperal t.**

tet-a-ny (tet'ā-nē). Do not confuse this word with tetanus. A clinical neurologic syndrome characterized by muscle twitches, cramps, and carpopedal spasm, and when severe, laryngospasm and seizures; these findings reflect irritability of the central and peripheral nervous systems, usually resulting from low serum levels of ionized calcium or, less commonly, magnesium. Causes include hyperventilation, hypoparathyroidism, rickets, and uremia. [G. *tetanos*, tetanus]

t. of alkalosis, t. due to a loss of acid from the body or an increase in alkali, resulting in a reduction of ionized calcium in plasma and body fluids, e.g., hyperventilation t. (loss of CO₂), gastric t. (loss of HCl by vomiting), or injection or ingestion of excessive amounts of sodium bicarbonate.

gastric t., t. associated with a gastric disorder, especially with loss of HCl by vomiting.

grass t., SYN **grass staggers**.

hyperventilation t., t. caused by forced overbreathing, due to a reduction in CO₂ in the blood.

hypoparathyroid t., SYN **parathyroid t.**

infantile t., t. of infants occurring usually in association with rickets, due to dietary deficiency of vitamin D.

manifest t., t. from any cause in which neuromuscular hyperexcitability is clearly evident, as opposed to latent t. SYN **symptomatic t.**

neonatal t., hypocalcemic t. occurring in neonates or young infants, due to transient functional hypoparathyroidism in consumption of cow's milk (high phosphorus content). SYN **myotonia neonatorum**, **tetanism**.

parathyroid t., t. due to lack of parathyroid function, spontaneous or following excision of the parathyroid glands. SYN **hypoparathyroid t.**, **parathyroprival t.**

parathyroprival t., SYN **parathyroid t.**

phosphate t., t. due to the ingestion of an excess of alkaline phosphates (Na₂HPO₄ or K₂HPO₄); most commonly produced experimentally in animals by the injection of alkaline phosphate, which reduces the ionized calcium of the blood.

postoperative t., parathyroid t. caused by injury to or excision of the parathyroids during procedures in the neck.

symptomatic t., SYN **manifest t.**

tetra-. Four. [G. *tetra-*, four]

tet-ra-a-me-li-a (tet'ra-ā-mē'lē-ā). Absence of upper and lower limbs. [tetra- + G. *a-* priv. + *melos*, limb]

tet-ra-ba-sic (tet'ra-bā'sik). Denoting an acid having four acid groups and thereby being able to neutralize 4 Eq of base.

tet-ra-bor-ic ac-id (tet'ra-bōr'ik as'id). Perboric or pyroboric acid. SYN **pyroboric acid**.

tet-ra-bra-chi-us (tet'ra-brā'kē-ūs). A person with four upper limbs. [tetra- + G. *brachion*, arm]

tet-ra-bro-mo-phe-nol-phthal-ein so-di-um (tet'ra-brō-mō-fē-nol-thal'ēn sō'dē-ūm). The sodium salt of a brominated dye; it was used early in the development of cholecystography.