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Volume 31, Number 1, mars 1986

Traduction et terminologie médicale
Medical Translation and Terminology

URI: <https://id.erudit.org/iderudit/003719ar>

DOI: <https://doi.org/10.7202/003719ar>

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Publisher(s)

Les Presses de l'Université de Montréal

ISSN

0026-0452 (print)

1492-1421 (digital)

[Explore this journal](#)

Cite this document

Nekrassoff, V. N. (1986). Interdisciplinarity Education as an Instrument of Training Terminologists in the Fields of Medical Genetics and Genetic Diseases. *Meta*, 31(1), 85–97. <https://doi.org/10.7202/003719ar>

INTERDISCIPLINARY EDUCATION AS AN INSTRUMENT OF TRAINING TERMINOLOGISTS IN THE FIELDS OF MEDICAL GENETICS AND GENETIC DISEASES

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For close to two centuries, medical genetics and genetic diseases have been of great interest to physicians the world over, and several hundred syndromes — each one with its own symptoms and signs and special terminology — have been described in literature. Today genetics can predict disease by indicating patients at risk, and genetic engineering, i.e. genetic manipulations by which an individual having a new combination of inheritable properties is established, is making great advances to the benefit of genetically tainted individuals. No doubt, there will be major demands in the near future for translators knowledgeable in genetics, and they will have to face their task without access to reliable dictionaries or glossaries.

The dilemma of the absent terminologies represents a rationale for interdisciplinary studies — a great problem in itself. Many academic educators and administrators have ambivalent attitudes toward interdisciplinary educational efforts. My rationale for interdisciplinary studies in the field of multilingual terminology is based on the common observation that problems in our — real — world are not separable into disciplines. A corollary of this view, at the graduate level, is that instruction requires concomitant research that is related to fundamental problems of their own and aware of the way in which new knowledge can contribute to the solution of important social problems — in the present case the treatment and prevention of heritable diseases.

Despite the reasonableness of these arguments, educational efforts along interdisciplinary lines confront major difficulties in virtually every area related to the process of education. These problems involve philosophy, faculty, students, curriculum, research, money and evaluation. Graduate students with interests and high competence in a variety of fields relevant to the resolution of terminological problems — here, applied linguistics and medical genetics — are essential in achieving the intellectual cross-fertilization expected of a successful interdisciplinary program. The universities, traditionally a source of trained people, will probably try very hard to establish proper programs. However, they are in relatively poor shape to do so. In most schools, equipment for training and research is antiquated, and government funds for support of research and teaching have diminished. But in order to maintain viable communication in various languages in this field of medical science and, thus, to assist medical progress, we absolutely need personnel properly trained in problem-oriented programs. The present surge in interest in solving genetic problems then renews the demand for new or different programs for graduate students of translation and terminology courses. The need for a continuing flow of well-trained terminologists is obvious, and that need warrants continued multidisciplinary efforts despite the educational problems mentioned above.

The appropriate level for such programs may be the masters, the doctorate, or successive two-degree programs. The job market probably determines the level of education at which such an interdisciplinary program is likely to be successful.

For the purpose of this paper, a medical terminologist is the experienced translator who has special knowledge in the field of medicine in general and in a specific sub-field — here, in medical genetics and genetic diseases — in particular. It is obvious to me that a terminologist trained as generalist will encounter great difficulties in establishing medical terminology in two languages simply because medicine to a large extent is an art, and not a precise science like mathematics or physics, where it is relatively easy to establish equivalent terms in two languages.

All researching terminologists are drowned in a flood of scientific publications, journals, conference proceedings, handbooks, and so on *ad infinitum*. Even if we should succeed in doubling or tripling our reading speed, we still will not be able to cope with the bulk of information confronting us. However, I believe that we can predict that reading still will be of main importance in terminology work for many years to come.

German (G.)-English (E.) translators have available several excellent dictionaries, which are truly indispensable. However, all of them have been marketed by German and Swiss publishers. The attitude of working translators and terminologists towards dictionaries should be friendly, but strongly critical — a realization that arises once the translator has been working for about fifteen years or so. It is not that these dictionaries contain large numbers of errors, but frequently the English equivalents given do not correspond to the terms actually used by our physicians. Two examples may illustrate my point. In Lejeune-Bunjes, *Hornhauttrübung* (a condition encountered in many genetic diseases) is presented as follows : *Hornhauttrübung f (leichte)* nubecula (e) / (*gitterige*) Dimmer's keratitis / (*gürtelförmige*) Caspar's ring opacity (ae) / (*weisse*) leucoma (ou). However, the proper equivalents used by our physicians, *viz.* corneal clouding, corneal opacity, cloudy cornea (as finding), corneal opacification, cloudy infiltration of the cornea (both as process), and, also, corneal dystrophy with opacities, are *not* listed. A further problem is that neither Caspar's ring opacity nor nubecula [necula ?] can be found in my three unilingual E. medical dictionaries. *Leichte H.*, given as nubecula [?] is "faint grayish *or* foglike opacity of the cornea," *or* "hazy cornea" (as finding). And the second example : *Oberflächensensibilität* is given in all my G.-E. medical dictionaries as "superficial sensitivity." The problem here is that that term is not listed in my E. medical dictionaries, and I myself have never heard it as physician (including a residency at the Montreal Neurological Institute) or seen it in E. medical literature. The proper E. medical terms are : tactile sensibility, capability of perceiving tactile stimuli, consciousness of tactile sensation, appreciation of slight contact with the skin (*or* mucous membrane). Correspondingly, *Oberflächenschmerz* is "pain perceived in the skin."

These two examples demonstrate that the medical terminologist in his compilation must be well acquainted with usages in both languages. The suspicion all too often arises that terminologists in the original language coin their own terms in the other (target) language without taking the trouble of researching sources in the target language — a most unacceptable approach !

The well-trained terminologist then must be able to handle both his languages clearly, explicitly, and economically even when he is confronted with jargon, errors of meaning, silly expressions, sesquipedalian terms, awkward and invented usages, and unnecessary neologisms. Errors in terminology have a way of becoming established by a kind of law of mass action. If something is said or written often enough, regardless of whether it is wrong to start with, it becomes accepted. Please note !

Within the framework of this review of some basic principles of terminology creation and discussion of some key problems of medical terminology in two languages, *viz.* German and English, I have not been able to give an overall picture of the whole scene of medical terminology, but intended to present some points of view which might motivate readers — and translators and terminologists in particular — to devote themselves to studying this important field in medical communication more intensively. In our approach to establish proper terminological equivalents we must first stress the semantic aspects and treat the concepts of discipline and responsibility of communication involving two or more languages. These are two sides of the same coin : discipline because it is necessary to adhere to rules to minimize ambiguity, and responsibility because it needs to be established who is responsible for assuring ultimate understanding — the author or the translator — or both.

I do not hesitate to say that medical terminologists and translators play a vital role in the prompt and accurate dissemination of medical knowledge. The effectiveness of the physician treating, or trying to prevent, genetic diseases is in direct proportion to his clinical judgement, i.e. his ability to understand pertinent data available in literature in various languages. Our efforts in the end serve the physician and, thus, his patient. That makes medical translating a truly rewarding profession.

MEDICAL GENETICS AND GENETIC DISEASES : A GERMAN-ENGLISH GLOSSARY

<i>Abänderungsspielraum</i>	range of variation
<i>Abbauenzymblock</i>	coenzyme inhibition ; coenzyme insufficiency, or coenzyme deficiency (in congenital disorders of metabolism)
<i>Abfolge von Entwicklungsschritten</i>	sequential developmental steps
<i>Absterben, normales</i>	death by normal attrition ; normal attrition ; death due to nongenetic causes ; nongenetic death
<i>Abknickung der Hand</i>	inferior radioulnar subluxation (due to a curvature of the lower extremity of the radius, in Madelung's deformity) ; clubhand with deviation to the ulnar side
<i>Adduktionsfähigkeit des Auges, verminderte bzw. völlig fehlende</i>	partial or complete absence of adduction of the eye
<i>Androgenresistenz der Zielorgane</i>	inability of the end organs to respond to (normal circulating levels of) testosterone (in Goldberg-Maxwell-Morris syndrome)
<i>androtrop</i>	prevalent in male ; in males only ; predominant in men ; limited to male ; or affecting males more frequently than females (hereditary disease)
<i>Androtropie</i>	androtropism ; predominance in men ; preponderance in males ; prevalence in male
<i>anfärben — sich kräftig a. lassen (Chromosome)</i>	stain heavily (chromosome or chromosome segments)
<i>An-sich-Hochklettern</i>	Gowers' maneuver to arise when squatting on the floor (the need of a patient dystrophy — when squatting, to have to place his hands on his thighs and to thrust his body upward to achieve the erect position)
<i>Atmungsunregelmässigkeiten, zerebrale</i>	irregular gaspy breathing (in maple syrup syndrome)
<i>Atonie der Gliedmassen</i>	muscular atonia of the limbs
<i>Auftreibung, wurstförmige, der Arme und Beine</i>	arms and legs appear cylindrical (in Brugsch's syndrome)
<i>Augen, auseinanderliegende</i>	wide-set eyes ; widely spaced eyes ; hypertelorism

<i>Augen, hautüberwachsene</i>	cryptophthalmia ; hidden eye (skin passing continuously from forehead onto cheek over a rudimentary eye) ; total enophthalmia
<i>Augenabstand, grosser</i>	wide-set eyes ; ocular hypertelorism ; extreme width between the eyes (widened bridge of the nose resulting in increased distance between the eyes)
<i>Augenfurche(n)</i>	optic groove(s) (22-day human embryo)
<i>Augenmissbildung</i>	ocular anomaly ; ocular defect ; eye defect ; (congenital) anomaly of the eye(s) (like spherophakia in Alport's syndrome)
<i>Aurikularanhänge</i>	pre-auricula appendages ; auricular appendices (in Goldenhar's syndrome)
<i>Ausbauchung des Kammerseptums ausmerzen</i>	bulging of septum (into the right ventricle) eliminate (deficiencies) ; cull ; wash out (mutant alleles from a population) ; select against
<i>austernartig (Eierstock)</i>	oyster-like (ovary, i.e. the large, pale polycystic ovary with thickened capsules and numerous small follicular cysts beneath the capsule typical for Stein-Leventhal syndrome)
<i>auswirken, sich — sich positiv bzw. negativ a. sich sowohl positiv als auch negativ a.</i>	be advantageous or disadvantageous (genes) ; have advantageous or disadvantageous action (a gene, on the organism) be ambivalent ; be both advantageous and disadvantageous (a gene, for the organism)
<i>Ballenhohlfuss</i>	pes equinoexcavatus ; talipes equinoexcavatus ; t. equinus and t. excavatus combined ; t. equinovacus
<i>Bambushaar</i>	bamboo hair ; trichorrhexis invaginata swellings of the hair shaft, resembling joints of bamboo, in Netherton's disease)
<i>Bänderschlaffheit</i>	lax ligaments (in hyperlysinemia) ; loose ligaments (leading to increased extensibility of the joints) ; hyperextensibility of ligaments
<i>Bauchdeckenaplasie (-Syndrom)</i>	prune belly syndrome ; (congenital) abdominal muscle deficiency (syndrome) ; (partial or complete) absence of abdominal muscles (in [F.] Fröhlich's syndrome, Orbinsky's syndr., Eagle-Barrett's s.)
<i>Beckenhorn (-hörner)</i>	iliac horn(s) (symmetrical bilateral central posterior iliac processes, in nail-patella syndrome and arthro-onychodysplasia)
<i>Begleitmissbildungen</i>	associated abnormalities ; associated deformities
<i>Belastungschance</i>	risk figure (in a genetic situation)
<i>Beweglichkeitsdefekt</i>	motor defect
<i>B. des Auges</i>	oculomotor defect
<i>Bewegungen, puppenartige</i>	jerky puppet-like movement ; ataxic jerky movement (in Angelman's happy puppet syndrome) ; ataxic jerky movements resembling those of puppet
<i>Blasenhirn</i>	hydroencephaly ; internal hydrocephalus ; Whytt's disease
<i>Blasenlunge</i>	bubbly lung (in Wilson-Mikity syndrome)
<i>Blutdruckunterschied zwischen Armen und Beinen (bzw. oberer und unterer Körperhälfte)</i>	decrease of blood pressure on the arm with (tendency to) hypertension on the legs (in Takayasu's syndrome)

<i>Blutungsneigung</i>	easy bruising ; excessive bleeding ; bruising from trivial injuries ; bleeding tendency ; tendency to hemorrhage ; bleeding associated with minor trauma or surgery ; spontaneous hemorrhages (as sign) ; spontaneous appearance of ecchymoses ; easy development of petechiae ; easy bruisibility ; tendency to bruise ; susceptibility to bruising
<i>Bogenmuster</i>	arch pattern (in dermatoglyphics)
<i>Bratwurstfinger</i>	finger(s) with soft tissue hyperplasia ; finger's with hyperplastic subcutaneous tissues
<i>Bruchneigung</i>	predisposition to fracture (in Albers-Schönberg's syndrome)
<i>Brust — eine weibliche B. haben</i>	have female breast development ; (also : have a female body contour)
<i>Buckelbildung im Fontanellenbereich</i>	bulging in region of (anterior) fontanel ; bossing in region of (anterior) fontanel ; head pointed in region of anterior fontanel ; prominent frontal area ; frontal bone bossing
<i>Bürstenschädel (Röntgenbild)</i>	hair-on-end appearance of the skull (X-ray) ; marked thickening of diploe of skull with perpendicular striations between thinned inner and outer tables (in Cooley's syndrome)
<i>Cherubi(ni)smus</i>	cherubism ; Jone's disease ; familial fibrous dysplasia of the bones syndrome ; familial fibrous dysplasia of the jaws ; familial cystic disease of the jaws
<i>Chromatinnetzwerk, fädiges</i>	lacy network of chromatin
<i>chromosomenbürtig</i>	chromosomally borne (determinants)
<i>Clowngesicht</i>	clown-like face <i>or</i> facies, i.e. the facies typical for (Cornelia) de Lange's syndrome, with synophrys, long curly eyelashes, hypertelorims with antimongoloid palpebral fissure, and small nose with inverted nostrils
<i>Dammpterygium</i>	perineal webbing ; perineal pterygium
<i>Dellenbildung bei Beklopfen</i>	palpation reveals doughy consistence (of calves etc., in muscular dystrophy)
<i>Dentinmissbildung</i>	imperfect dentinogenesis ; imperfect dentinification
<i>Determinierungsfaktor</i>	determinant (n.)
<i>Dollarhaut</i>	telangiectatic skin typical for defective functional activity of the liver cells
<i>Doppelmissbildung</i>	monstrum duplex, m. duplicitas ; double monsters ; conjoined malformed twins
<i>Dreschflegelfuss</i>	dropfoot ; foot drop with simultaneous lesions of the femoral and hip muscles
<i>Durchschlagskraft</i>	penetrance (of a gene)
<i>durchstreckbar</i>	extendable (knee)
<i>Dyenzymie</i>	enzymic dysfunction ; disturbance of the secretion and/or interaction of enzymes
<i>Eiigkeitzdiagnoses (bei Zwillingen)</i>	diagnosis based on test of similarity
<i>Einflüsse, nichtgenetische</i>	(environmental) influence of a nongenetic nature
<i>Einmündung, anomale, der rechten Lungenvenen in die untere</i>	anomalous venous drainage of the right lung to inferior vena cava ; anomalous venous drainage
<i>Hohlvene</i>	through abnormal pulmonary vein of the right lung that joins the inferior vena cava (= scimitar syndrome)

<i>Einschlagen, reflektorisches, des Daumes bei passiver Streckung der 2. bis 5. Finger</i>	passive extension of second to fifth fingers (affected to some degree by flexion contracture) result in involuntary flexion, opposition and adduction of the thumb of that side
<i>Einschränkung der Handgelenk- bewegung</i>	limited wrist motion
<i>E. der Öffnungsfähigkeit des Mundes</i>	limitation of mouth movements ; difficulty in opening the mouth
<i>Eintrefferkinetik</i>	single hit kinetics (of mutagenesis)
<i>einwärtsgekehrte Füße</i>	inversion of feet ; inverted feet (in Hallervorden-Spatz syndrome)
<i>Elevationshemmung des Armes über 90° hinaus</i>	the arm cannot be raised above the right angle ; abduction of shoulder beyond 90° is impossible (in Sprengel's deformity) <i>Emporschnellen (des ptotischen Lids)</i> rapid elevation (of ptotic upper lid when opening mouth, in Gunn's syndrome)
<i>Endorganresistenz gegen Parathormon</i>	refractoriness of end organ response to parathyroid hormone ; diminished end-organ responsiveness to parathyroid hormone (Seabright-Bantam syndrome) (i.e. administration of parathyroid hormone or extract does not produce significant changes in the clinical picture of this syndrome)
<i>Engelflügelstellung</i>	scapula alata ; winged scapula
<i>Entartung</i>	degeneration ; dystrophy (of the cornea)
<i>E., maligne</i>	malignant degeneration ; m. transformation (of tissues)
<i>m. E. dieser Krankheit ist möglich</i>	this disease is considered to be a precancerous condition
<i>E., Neigung zur malignen</i>	tendency to undergo malignant changes
<i>Entartungsreaktion</i>	reaction of degeneration ; absence of response to both galvanic and faradic stimulus in a degenerated nerve, and to faradic stimulus in the muscles supplied by it
<i>Entengang</i>	wide-based gait ; waddling gait
<i>Entgleisung (Stoffwechsel-)</i>	(metabolic) derangement
<i>Enthirnungsstarre</i>	decerebrate rigidity ; exaggerated postural tone in the antigravity muscles ; rigid contraction of the antigravity muscles ; decerebrate posture (finding) ; spasticity and decerebrate posturing of the limbs (finding) ;
<i>E. — Verblödung mit schliesslicher E. entspiralisiert</i>	mental retardation progressing to decerebration untwisted ; extended (chromosome) ; decoiled ; uncolled ; unrolled ; unwound (strands) ; stretched out
<i>Entwicklungshemmung</i>	delayed development ; arrested d. ; slow d. (in an infant)
<i>Entwicklungsstillstand</i>	arrest of development (mental and/or physical) ; failure to develop ; f. to thrive ; runting (as symptom in Di George's syndrome)
<i>Entwicklungsverlauf, normaler (eines Kindes)</i>	normal reaching of early milestones
<i>Entwicklungsverzögerung</i>	physical and mental retardation ; lag of development ; developmental retardation ; retardation of normal development ; development appears retarded (finding)
<i>Enzymdefekt, erblicher</i>	inborn error of enzyme metabolism

<i>Equinovarusstellung der Füße</i>	talipes equinovarus ; combined tip feet and inversion (of feet) ; association of tip feet with inversion of feet
<i>erbbedingt</i>	genetically determined ; determined by heredity ; genetic ; hereditary ; inherited, caused by genetic factors
<i>e. — rezessiv e. sein</i>	be due to recessive inheritance
<i>Erbbedingtheit</i>	hereditary cause (of a malformation) ; h. determination ; h. causation (of a disease)
<i>erbbiologisch</i>	heredobiological ; from the point of view of hereditary biology ; <i>also</i> : genetic
<i>e. rein</i>	genetically pure
<i>Erbdiagnose</i>	assessment of genetic risks ; assessment of the genetic background
<i>Erbgang</i>	mode of inheritance ; course of inheritance ; mechanism of (hereditary) transmission ; hereditary transmission
<i>erbgesund (sein)</i>	(be) free from hereditary disease ; (be) of healthy familial background
<i>Erbgesundheit</i>	freedom from hereditary disease
<i>Erbgutverschlechterung</i>	racial degeneration ; deterioration of the hereditary constitution (of a population) ; impairment of the hereditary constitution (of a population)
<i>erbkrank sein</i>	have a hereditary disease
<i>Erbkrankheit</i>	genetic disease <i>or</i> disorder ; hereditary disease ; heredopathy (-ia) ; heritable disorder ; heritable condition ; genetically conditioned disease ; inborn error of metabolism (Garrod, 1908) ; molecular disease (Pauling, 1964)
<i>erblich belastet</i>	genetically tainted ; genetical infirm ; affected with a genetic disease ; liable to manifest a genetic disease (at some time in the future) ; suffering from a genetic disease
<i>e. b. sein</i>	carry a hereditary load ; carry a hereditary burden ; be hereditarily burdened ; be genetically burdened
<i>Erbprognoseziffer</i>	risk figure (empirical)
<i>Erb-Umweltproblem</i>	nature-vs.-nurture question
<i>Ernährungsschwierigkeiten</i>	feeding trouble ; feeding difficulty (baby with Farber's syndrome, etc.) ; difficulty in nutrition (because of tongue and palate deformities, etc.)
<i>Erstbeschreibung (eines Syndroms)</i>	original description (of a syndrome) (like Langdon Down's description of mongolian idiocy in 1866)
<i>Extensionsstellung — Versteifung der grossen Gelenke in E.</i>	large joints (of the arms and legs) are ankylosed in extension ; retention of the large joints in extended position
<i>Familiarität</i>	consanguinity ; familial occurrence (of a syndrome) ; kinship because of common ancestry ; familial predisposition ; hereditary familial <i>or</i> heredofamilial (form of a) disease ; <i>also</i> : inbred group
<i>Fauns Gesicht</i>	gnome-like facies (as in Donohue's syndrome, i.e. a small hirsute face with nearly normal-sized ears, eyes, and nasal tip) ; old man face (in leprechaunism)

<i>Faust (eines Kindes mit Edwards-Syndrom)</i>	(characteristic) grasp (of a child with Edward's syndrome); tightly flexed fingers with a characteristic grasp in which the index finger overlaps the third, and the fifth overlaps the fourth
<i>fehlabgehend (Gefäss)</i>	malposed (vessel)
<i>Fernrohrfinger</i>	telescope-like finger; telescope finger; opera-glass finger; <i>doigt en lorgnette</i> (a condition where the fingers may be elongated or shortened like a telescope or appear to be retracted into one another, in Marie-Léri syndrome and arthritis mutilans); also: opera-glass hand; <i>main en lorgnette</i>
<i>Fetthals</i>	diffuse lipomatosis of the neck; adenolipomatosis of the neck (in Madelung's syndrome)
<i>Fettverteilungstyp, weiblicher (bei Männern)</i> <i>gynecomastia</i>	excessive development of the mammary glands (in men):
<i>Finger — vergrößerter Abstand zwischen dem dritten und vierten F.</i>	trident hand
<i>F., verwachsene</i>	webbing of fingers; webbed fingers
<i>F., zylinderförmiger</i>	cylindrical finger (that does not taper normally)
<i>Fingergliederverkürzung</i>	brachyphalangia (a genetic condition in which the phalanges of the fingers are abnormally short)
<i>Fischmaul</i>	fish-like large mouth; (1) the carp-like mouth characteristic for Francescetti's syndrome (II); (2) the mouth seen in sardonic grin
<i>Fischwirbel (-bildung)</i>	<i>vertèbre en diabol</i> (strangulation of the vertebral body between osteophytes pressing on the superior and inferior surface; in Léri's syndr.)
<i>Flügelfell (am Nacken) (= an beiden Halsseiten)</i>	pterygium colli; webbed neck; webbing of the neck
<i>Fontanelle, Persistenz der grossen</i>	delayed closure of the fontanels; persistent opening of the cranial fontanels; incompletely closed fontanels; open fontanels
<i>Frakturen schon vor bzw. bei der Geburt</i>	fracture before or during birth (in Vrolik's syndrome)
<i>Froschhals</i>	shortened neck (in Klippel-Feil syndrome); <i>brevicollis</i> ; <i>homme sans cou</i>
<i>Froschkind</i>	"frog baby"; anencephalus; anencephalic baby
<i>Fruchtentwicklungsstörung</i>	defective development of the embryo; defective embryonic development; dysontogenesis
<i>Funktionsstörung</i>	dysfunction; abnormal function; deranged f.; impairment of f.; functional disturbance(s) (of hands, feet, etc.)
<i>Gabelrippe</i>	bifid rib
<i>Gallengangagenesie, kongenitale</i>	familial intrahepatic biliary atresia
<i>Gangunsicherheit</i>	ataxia; difficulty in walking; clumsy gait; uncertain gait; also: equilibrium disorder
<i>Gargoylgesicht (-fratze)</i>	gargoyle facies or face; gargoyle-like facies; Hurler-like facies (face with broad bridge of the nose, open mouth with protruding large tongue, and thickened lips)
<i>Gefahr einer Unverträglichkeitsreaktion</i>	incompatibility risk (in a Rh situation)
<i>Gefährdung</i>	risk; hazard, jeopardy; distress (of intrauterine fetus)
<i>Gefährdungszeit</i>	manifestation period (for a genetic disease)

<i>gefäßähnliche Streifen am Augenhintergrund</i>	angioid streaks of the retina (wide lines, reddish or greyish, around the optic disk, in Groenblad-Strandberg syndrome)
<i>Geldrollenagglutination</i>	rouleaux formation (of erythrocytes); reversible pseudoagglutination (of red cells <i>in vitro</i>); clumping tendency of erythrocytes simulating true agglutination
<i>Gelenkbeweglichkeit, eingeschränkte</i>	limited or restricted mobility of joint(s); stiffness of joints; tight joints; stiff joints (e.g. inability to flex the fingers completely or to make a fist); slight limitation of joint motion; limited joint motion; limitation of extension of joints (in Pyle's syndrome)
<i>Gelenkschlaffheit</i>	joint laxity; articular hypermobility, loose joints
<i>Gelenküberstreckbarkeit</i>	hyperextensibility of joints; hyperflexibility of joints; joint hypermobility; hypermobile and loose joints; joints are loose and hypermobile (as finding)
<i>Gennachbarschaft</i>	gene propinquity (-ies) (used almost exclusively in the singular in German, and in the plural in English !)
<i>geschlechtsabhängig</i>	sex-controlled (Goldschmidt, 1920)
<i>Geschlechtsbläschen</i>	sex vesicle (Sachs, 1954) the human X and Y chromosomes, as a pair, condense into a dark-staining, heteropycnotic body called the s.v. in which they are assumed to be paired by a small terminal region of homology during the meiotic prophase)
<i>Geschlechtzugehörigkeit, unklare</i>	ambiguous sex
<i>Gesichtsverflachung</i>	sunken cheek bones; flattening of malar or facial bones (in Treacher Collins; syndrome)
<i>Gestaltungsfähigkeit</i>	organizing ability (in embryology)
<i>Gliawucherung (im Gehirn)</i>	proliferation of glial cells; increased number of glial cells (throughout the brain)
<i>Gliederwerfen</i>	jactation of limbs; rhythmic tossing about of the limbs
<i>Gliedmassendefekt, angeborener</i>	teratic malformation of limb(s); congenital defect of (one or more) extremities
<i>Gliedmassenfehlbildung</i>	malformation of a limb or limbs; congenital limb abnormalities; congenital abnormality with missing or foreshortened extremities; congenital abnormality caused by disturbance at the time of limb anlage development
<i>Griechennase</i>	Grecian nose (straight nose coming off sharply from the forehead, in Edwards' syndrome)
<i>gutmütig — ein g.-es Wesen besitzen (Down-Kinder)</i>	be good-natured; be sweet-tempered; be well-natured
<i>gynäkotrop</i>	limited to female (hereditary disease); prevalent in female; predominant in females; also : affecting females more frequently than males
<i>Gynäkotropie</i>	gynecotropism (cf. also under Androtropie)
<i>Gynäkotropie (10:1)</i>	females affected ten times more than males; occurring almost exclusively in females (like Bloch-Sulzberger syndrome); predominant in female (10:1)

<i>Haarmensch</i>	individual suffering from (congenital) hypertrichosis lanuginosa ; individual with congenital hypertrichosis
<i>Habitus</i> — <i>einen weiblichen/ männlichen H. haben</i>	appear to be female/male ; have a female <i>or</i> feminine/male <i>or</i> masculine appearance <i>or</i> body contour
<i>Haifischmaul</i>	shark mouth ; shark-like mouth ; mouth with thin lips and downturned corners (in Sliver's syndr.) ; downturning of mouth
<i>Halsfistel</i>	branchial sinus ; branchial fistula (in Fourman-Fourman and Rowley's syndromes)
<i>Haltungsanomalie</i>	posture defect ; postural abnormality ; abnormal posturing ; faulty posture (as finding)
<i>Harn</i> — <i>eigenartiger Geruch des H.-es nach verbranntem Zucker oder nach Maggi-Suppenwürze</i>	maple syrup odor of the urine
<i>H.</i> — <i>nach Mäusen bzw. Mäusekot riechender H.</i>	urine with a musty odor ; urine with a mousey odor (in Fölling's syndrome)
<i>Harnstauung</i>	accumulation of urine (in the convoluted tubules, in congenital cystic kidney)
<i>Hasenauge</i>	hare's eye ; lagophthalmia ; poor eyelid closure [as symptom in Möbius's syndrome (II)]
<i>Hauptsymptom</i>	cardinal symptom ; principal symptome <i>or</i> feature ; main feature ; major diagnostic feature (of a syndrome) principal manifestation ;
<i>Hautleistenmuster</i>	pattern of epidermal ridges ; epidermal pattern on the hands and fingers ; dermatoglyphics
<i>hautüberwachsen (Augen)</i>	skin passing continuously (from forehead onto cheek over a rudimentary eye)
<i>Hemmungsmissbildung</i>	developmental defect ; embryonal d. d. ; defect due to an arrest of embryonic development
<i>Herzanlage</i>	pericardial bulge (on each side of the midline in the cephalic part, in human embryo at day 22-23) ; bulging pericardial area ; heart bulge (approx. day 25)
<i>Hiob-Syndrom</i>	Job's syndrome ; Job's dermatitis syndrome ; chronic granulomatous disease variant (named after Job because this syndrome involves feelings of depression, guilt, and rejection from relatives and friends)
<i>Hochwuchs</i>	increased stature ; elevated stature ; tall stature ; high stature ; tall and slender build ; elongated body
<i>holandrisch</i>	holandric ; holandrous ; inherited only in the male line from father to son (generation after generation) ; appearing in men only
<i>hologyn</i>	hologynic ; hologynous ; inherited only in the female line from mother to daughter (generation after generation) ; appearing only in females
<i>Holzschuhherz</i>	sabot heart ; <i>cœur en sabot</i> ; wooden-shoe heart (in the tetralogy of Fallot, etc.)
<i>Hornhauttrübung</i>	cf. above in the text
<i>Hummerklaue (-schere)</i>	clawhand ; lobster-claw hand ; lobster-claw deformity ; bidactyly (if only 1 st and 5 th digits are present)

<i>Hundemensch</i>	individual suffering from congenital hypertrichosis lanuginosa with gingival hyperplasia
<i>Igelfuss</i>	presence of pointed osteophytes on the dorsal side of the tarsus (chiefly in gout)
<i>Indexgruppe</i>	typical average group
<i>Infektanfälligkeit</i>	susceptibility to (respiratory) infections; history of (r.) i.; frequent (r.) i.; repeated (r) i.
<i>Inzuchtkind</i>	child of inbreeding; <i>usually</i> child of a cousin marriage; <i>also</i> child of father-daughter incest; child of brother-sister incest; child of a niece-uncle marriage
<i>Irisflecken (weissliche)</i>	small whitish (<i>or</i> very light yellow) speckles in the iris; iris with small whitish speckles; Brushfield's spots (in Down's syndrome)
<i>Keilwirbel</i>	wedgeline deformity of the (lumbar and thoracic) vertebrae
<i>Kieferkerbe</i>	(midline) notch of the jaw; pseudocleft of the jaw
<i>Kleinwuchs</i>	dwarfism; nanism; stunted growth; short stature; shortness of stature; growth retardation; small for date (infant) (cf. Minderwuchs)
<i>Knabenwendigkeit = Androtropie</i> <i>Krokodilschuppenbaby</i>	alligator baby; infant suffering from either ichthyosis congenita <i>or</i> ichthyosis sauroderma; baby suffering from hyperkeratosis with armorplate-like scales
<i>Lidwinkel — vermehrter Abstand der inneren L.</i>	lateral displacement of the medial canthi (with normal interpupillary distance!) (in Waardenburg's syndrome)
<i>Linsenschlottern Mädchenwendigkeit = Gynäkotropie</i>	tremulous lens (and iris) due to subluxation of the lens [in Marfan's syndrome (I)]
<i>Miauen</i>	cat cry; <i>cri du chat</i> ; mewing cry; a peculiar cry resembling that of a suffering kitten; strange high=pitched plaintive cry (voiced by infants) reminiscent of the cry of a cat
<i>Milchleiste</i>	mammary line; mammary ridge (in embryonic development); milk ridge; mammary fold
<i>Mopsgesicht</i>	bulldog face [in Parrot's disease (II)]
<i>Nagelabstossung</i>	nail shedding (in Judassohn-Lewandowski syndr.)
<i>Oberflächensensibilität</i>	cf. above in the text
<i>Ölfleck</i>	brownish-gree spot in the nail in subungueal psoriasis vulgaris
<i>Olympierstirn</i>	olympian forehead (abnormally high and vaulted forehead)
<i>Papageienschnabelnase</i>	(birdlike facies with) prominent beaked nose; parrot-beaked nose; beak-shaped nose (in Crouzon's syndrome)
<i>Pausbackengesicht</i>	cherubic face; face marked by protuberance of the cheeks and jaws (and upturned eyes); the characteristic face of cherubism (= Jones' disease): face marked by fullness of the cheeks and jaws
<i>Pelzigkeitsgefühl</i>	numbness (in hands and feet); furry and numb sensation; unpleasant furry paresthesia of the extremities
<i>Pillendrehen</i>	pill-rolling movements or motion of the fingers and hands); the slow movements with

	involuntary tremor performed by the fingers of a subject suffering from Parkinson's syndrome
<i>Radiergummiphänomen</i>	scaling or peeling of the skin produced by mild rubbing
<i>Risikoschwangerschaft</i>	high-risk pregnancy
<i>Robbenmensch</i>	an individual with phocomelia ; phocomelus
<i>rückverfolgen</i>	trace (an abnormality) back
<i>Sandalenlücke</i>	increased distance between the first and second toes (in Seckel's syndrome)
<i>Schnauzengesicht</i>	facies with a wide mouth, protruding maxilla, and short nose (in Morquio's syndrome); broad-mouthed facies
<i>Schneidersitz</i>	tailor position ; tailor positioning when sitting (in Fölling children)
<i>Schulterblatthochstand, angeborener</i>	Sprengel's deformity (as congenital condition); congenital elevation of the shoulder ; congenital winging of the scapula
<i>Stachelschweinmensch</i>	porcupine man ; individual suffering from ichthyosis hystrix gravior
<i>Stirnhöcker</i>	frontal bossing ; frontal boss(es) ; boss(es) of the frontal (or partial or biparietal) region(s)
<i>Stirnlocke, weisse</i>	white forelock (in certain forms of metabolic insufficiency and as sign of circumscribed albinism)
<i>Streichholzwade</i>	atrophy or dystrophy of the muscles of the calf (as in pes equinovarus congenitus)
<i>Tiefensensibilität</i>	deep sensibility ; muscular s. ; mesoblastic s. ; myesthesia ; myoesthesia ; sensations derived from the muscles, joints, tendons and deep layers of the skin
<i>Trommelschlegelfinger</i>	digital clubbing ; clubbing of the fingers ; clubbing of the distal phalanges of the fingers ; digiti hippocratici ; hippocratic fingers ; clubbed digits
<i>Trommelschlegelzehen</i>	clubbing of the toes ; clubbing of the distal phalanges of the toes
<i>Überbehaarung</i>	excessive hairiness ; hypertrichosis ; marked hirsutism ; extreme h. ; excessive body hair [in (Cornelia) de Lange's syndrome (I)]
<i>Uhrglasnägel</i>	hippocratic nails ; ungues hippocratici ; coarse, curved nails capping clubbed fingers ; nails are watch-crystal-like (finding)
<i>Unvertäglichkeitsbürde</i>	incompatibility load (usually between mother and unborn child)
<i>Verwachsung, fibröse</i>	webbing (of fingers, etc.)
<i>V., ossäre</i>	bony fusion (of fingers) ; ankylosis
<i>Vogelbein</i>	dropfoot ; stork leg ; foot drop (with sloping gait) ; (the legs typical for Charcot-Marie and Berlin's syndromes)
<i>Vogelgesicht (= Vogelkopfgesicht)</i>	bird-like facies ; bird-like facial structure ; bird face ; brachygnathic face (with underdeveloped mandible)
<i>Vogelgesichtigkeit</i>	bird-like facies (thin beaked nose, small mouth, dental abnormalities, microphthalmia, etc.) ; mandibulo-oculo-facial dysmorphia or dyscephaly

<i>Wachstropfen — wie W. an einer Kerze</i>	resembling melted wax flowing down the side of a candle [the hyperostotic protrusions on the long bones, in Léri's syndrome (I)]
<i>Watteschädel</i>	the soft, decalcified skull of an individual suffering from Paget's disease
<i>Zahn, abgekauter</i>	crowless tooth (due to wearing down to the gum level, in Capdepont's syndrome)
<i>Zahnradphänomen</i>	cogwheel rigidity (a type of rigidity seen in Parkinson's syndrome, with movements — active or passive — interrupted by cogwheel jerks)
<i>Zehengliederverkürzung</i>	pedibrachyphalangia (a genetic condition in which the pediphalanges are abnormally short)
<i>zelleigener Genotyp</i>	the cell's own genotype
<i>Zungenlappung</i>	lobulated tongue ; bifid tongue ; cleft of tongue with two or more lobules
<i>Zwergwuchs</i>	dwarfism ; nanism ; failure to grow ; short individual ; dwarfed (as finding)
<i>Zwillinge, eineiige</i>	identical twins ; monozygotic t. ; enzygotic t. ; monochorial t. ; monovular t. ; uniovular t. ; MT
<i>Z., zweieiige</i>	fraternal twins ; dyzygotic t. ; heterologous t. ; dichorial t. ; diovular t. ; unidentical t. ; DT
<i>Zwischenvergleich (bei Populationen)</i>	inter-population comparison