

## COMMON MEDICAL ABBREVIATIONS

- α** alpha: Bunsen solubility coefficient; first in a series; specific rotation term; heavy chain class corresponding to IgA
- α-h** the right handed helical form assumed by many proteins
- α-T** α tocopherol
- a** (specific) absorption (coefficient) (USUALLY ITALIC); (total) acidity; area; (systemic) arterial (blood) (SUBSCRIPT); asymmetric; atto
- A** absorbance
- A** adenosine (or adenylic acid); alveolar gas (SUBSCRIPT); ampere
- Å** angstrom; Ångström unit
- aa** [G.] ana of each (USED in prescriptions)
- AA** amino acid; aminoacyl
- a.c.** [L.] ante cibum, before a meal
- A:G R** albumin globulin ratio
- Ab** antibody
- AB** abortion
- ABG** arterial blood gas
- ABI** ankle-brachial index
- abl** Abelson murine leukemia virus
- ABLB** alternate binaural loudness balance (test)
- ABO** blood group system
- ABR** abortus Bang ring (test); auditory brainstem response (audiometry)
- γ-Abu-γ** aminobutyric acid
- ABVD** Adriamycin (doxorubicin), bleomycin, vinblastine, and dacarbazine
- ac** acetyl
- a.c.** [L.] ante cibum, before a meal
- aC** arabinosylcytosine
- Ac** acetyl; actinium
- AC** acetate; acromioclavicular; air conduction; alternating current; atriocarotid
- AC:A** accommodation convergence accommodation (ratio)
- ACE** angiotension converting enzyme
- ACEI** angiotensin converting enzyme inhibitor
- AcG** accelerator globulin
- ac-g** accelerator globulin
- ACh, Ach** acetylcholine
- aCL** anticardiolipin (antibody)
- ACP** acyl carrier protein
- ACTH** adrenocorticotropic hormone (corticotropin)
- AD** Alzheimer disease
- QAD** [L.] *auris dextra*, right ear
- ADD** attention deficit disorder
- ad lib.** [L.] ad libitum, freely, as desired
- Ade** adenine
- ADH** antidiuretic hormone
- ADHD** attention deficit hyperactivity disorder
- ADLs** activities of daily living
- Ado** adenosine
- ADP** adenosine 5' diphosphate
- ADR** adverse drug reaction
- A-E** above the elbow (amputation)
- AECB** acute exacerbation of chronic bronchitis
- AED** automated external defibrillator
- AFB** acid fast bacillus
- AFORMED** alternating failure of response, mechanical, to electrical depolarization
- AFP** α-fetoprotein
- Ag** antigen; [L.] argentum, silver
- AHF** antihemophilic factor
- AHG** antihemophilic globulin
- AID** artificial insemination donor
- AIDS** acquired immunodeficiency syndrome
- AIH** artificial insemination by husband; artificial insemination, homologous
- A-K** above the knee (amputation)
- Al** aluminum
- Ala** alanine (or its monoradical or diradical)
- ALA** δ-aminolevulinic acid
- ALD** adrenoleukodystrophy
- ALL** acute lymphocytic leukemia
- ALS** advanced life support; amyotrophic lateral sclerosis; antilymphocyte serum
- ALT** alanine aminotransferase
- Am** americium
- AML** acute myelogenous leukemia
- AMP** adenosine monophosphate (adenylic acid)
- amu** atomic mass unit
- ANA** antinuclear antibody
- ANF** antinuclear factor
- ANOVA** analysis of variance
- ANS** autonomic nervous system
- ANUG** acute necrotizing ulcerative gingivitis
- AP** anteroposterior
- APA** antipernicious anemia (factor)
- APAP** acetaminophen
- A-P-C** adenoidal pharyngeal conjunctival (virus)
- APC** antigen presenting cell
- aPS** antiphospholipid antibody syndrome
- APTT** activated partial thromboplastin time
- Ar** argon
- araC** arabinosylcytosine (cytarabine)
- ARDS** adult *or* acute respiratory distress syndrome
- ARF** acute renal failure; acute rheumatic fever
- Arg** arginine (or its monoradical or diradical)
- AROM** active range of motion
- QAS** [L.] *auris sinistra*, left ear
- As** arsenic
- ASA** acetylsalicylic acid (aspirin)
- ASCP** American Society of Clinical Pathologists
- ASC-US** atypical squamous cells of undetermined significance
- ASHD** arteriosclerotic heart disease
- Asn** asparagine (or its monoradical or diradical)
- ASO** antistreptolysin O
- Asp** aspartic acid (or its radical forms)
- AST** aspartate aminotransferase
- At** astatine
- at. wt.** atomic weight
- ATFL** anterior talofibular ligament
- ATL** adult T cell leukemia; adult T cell lymphoma
- atm** (standard) atmosphere
- ATP** adenosine 5' triphosphate
- ATPase** adenosine triphosphatase
- ATPD** ambient temperature and pressure, dry
- ATPS** ambient temperature and pressure, saturated (with water vapor)
- QAU** [L.] *auris utraque*, each ear, both ears
- Au** [L.] *aurum*, gold
- AUC** area under the curve
- AV** arteriovenous
- A-V** arteriovenous; atrioventricular
- AVM** arteriovenous malformation
- AVN** atrioventricular node
- AVP** antihyal protein
- AW** atomic weight
- ax.** axis
- AZT** azidothymidine (zidovudine)
- B** barometric (pressure) (SUBSCRIPT); boron
- b** blood (SUBSCRIPT)
- β** second in a series
- Ba** barium
- BADLs** basic activities of daily living
- BAER** brainstem auditory evoked response
- BAL** British anti-Lewisite (dimercaprol); bronchoalveolar lavage
- BALB** binaural alternate loudness balance (test)
- BBB** blood brain barrier; bundle branch block
- BBT** basal body temperature
- BCG** bacille bilié de Calmette Guérin (vaccine)
- BE** barium enema
- B-E** below the elbow (amputation)
- Be** beryllium
- Bi** bismuth
- b.i.d.** [L.] *bis in die*, twice a day
- BIDS** brittle hair, impaired intelligence, decreased fertility, and short stature (syndrome)
- BIPAP** bilevel positive airway pressure
- Bk** berkelium
- BM** bowel movement
- BMD** bone mineral density
- BMI** body mass index
- BNEd** Bachelor of Nursing Education

The forbidden symbol (Q) appears opposite abbreviations prohibited by the Joint Commission on Accreditation of Healthcare Organizations (JCAHO). An explanation of each prohibition is given in the usage notes of the A to Z entries for the relevant abbreviations.

<b>BNP</b> brain natriuretic peptide	<b>CAD</b> coronary artery disease	<b>ChD, Chir Doct</b> Doctor of Surgery (Chirurgiae Doctor)	<b>COPD</b> chronic obstructive pulmonary disease
<b>BNSc</b> Bachelor of Nursing Science	<b>cal</b> calorie (small)	<b>CHF</b> congestive heart failure	<b>COS</b> Chief of Staff
<b>bp</b> base pair	<b>Cal</b> calorie (large)	<b>ChM</b> Master of Surgery (Chirurgiae Magister)	<b>CP</b> cerebral palsy; costophrenic
<b>BP</b> blood pressure; boiling point; <i>British Pharmacopoeia</i>	<b>CAM</b> complementary and alternative medicine	<b>CHO</b> carbohydrate	<b>CPAP</b> continuous (or constant) positive airway pressure
<b>BPF</b> bronchopleural fistula	<b>cAMP</b> cyclic adenosine monophosphate	<b>Ci</b> curie	<b>CPD</b> cephalopelvic disproportion
<b>BPH</b> Bachelor of Public Health	<b>CAO</b> conscious, alert, oriented	<b>CI</b> color index; <i>Colour Index</i> ; confidence interval	<b>CPK</b> creatine phosphokinase
<b>BPH</b> benign prostatic hyperplasia	<b>cap</b> capsule	<b>CIE</b> counterimmunoelectrophoresis	<b>CPM</b> continuous passive motility
<b>Bq</b> becquerel (SI unit of radionuclide activity)	<b>CAP</b> catabolite (gene) activator protein; community-acquired pneumonia	<b>CIN</b> cervical intraepithelial neoplasia	<b>CPPB</b> continuous (or constant) positive pressure breathing
<b>Br</b> bromine	<b>CAPD</b> continuous ambulatory peritoneal dialysis	<b>CIQ</b> cognitive laterality quotient	<b>CPPV</b> continuous positive pressure ventilation
<b>BRAT</b> (diet) banana, rice cereal, applesauce, toast	<b>CAT</b> computerized axial tomography (obsolete)	<b>CIU</b> chronic idiopathic urticaria	<b>CPR</b> cardiopulmonary resuscitation
<b>BS, BSc</b> Bachelor of Science (Baccalaureus Scientiae)	<b>CBC</b> complete blood (cell) count	<b>CJD</b> Creutzfeldt-Jakob disease	<b>cps</b> cycles per second
<b>BSA</b> body surface area	<b>CBG</b> corticosteroid binding globulin	<b>CK</b> creatine kinase	<b>CPT</b> <i>Current Procedural Terminology</i>
<b>BSE</b> breast self-examination	<b>CBT</b> cognitive-behavioral therapy	<b>CK-MB</b> creatine kinase MB isoenzyme	<b>Cr</b> chromium; creatinine
<b>BSER</b> brainstem evoked response (audiometry)	<b>Cbz</b> carbobenzoxy (chloride)	<b>Cl</b> chlorine	<b>CR</b> Chief Resident; conditioned reflex; crown rump (length)
<b>BSN</b> Bachelor of Science in Nursing	<b>cc</b> , <b>c.c.</b> cubic centimeter	<b>CL</b> cardiolipin	<b>CRD</b> chronic respiratory disease
<b>BSO</b> bilateral salpingo-oophorectomy	<b>CCK</b> cholecystokinin	<b>CLA(ASCP)</b> Clinical Laboratory Assistant (American Society of Clinical Pathologists)	<b>CRH</b> corticotropin releasing hormone
<b>BT</b> bleeding time	<b>CCNU</b> chloroethylcyclohexylnitrosourea (lomustine)	<b>CLIA</b> Clinical Laboratory Improvement Amendments	<b>CRL</b> crown rump length
<b>BTPS</b> body temperature, ambient pressure, saturated (with water vapor)	<b>CCU</b> coronary care unit; critical care unit	<b>CLL</b> chronic lymphocytic leukemia	<b>CRNA</b> Certified Registered Nurse Anesthetist
<b>BTU</b> British thermal unit	<b>cd</b> candela	<b>cm</b> centimeter	<b>CRNP</b> Certified Registered Nurse Practitioner
<b>BTX</b> botulinum toxin	<b>Cd</b> cadmium	<b>cM</b> centimorgan	<b>CRP</b> cross reacting protein
<b>BUN</b> blood urea nitrogen	<b>CD</b> compact disc	<b>Cm</b> curium	<b>CRST</b> calcinosis cutis, Raynaud phenomenon, sclerodactyly, and telangiectasia (syndrome)
<b>BUS</b> Bartholin glands, urethra, Skene glands	<b>CDA</b> Certified Dental Assistant	<b>CMA</b> Certified Medical Assistant	<b>CRT</b> Certified Respiratory Therapist
<b>BVMS</b> Bachelor of Veterinary Medicine and Surgery	<b>CDC</b> (U.S.) Centers for Disease Control and Prevention	<b>CMC</b> carpometacarpal	<b>Cs</b> cesium
<b>Bx</b> biopsy	<b>cDNA</b> complementary DNA	<b>CME</b> continuing medical education	<b>CS</b> cesarean section; Chief of Staff
<b>c</b> calorie (small); capillary (blood); centi	<b>CDP</b> cytidine 5' diphosphate	<b>CMI</b> cell mediated immunity	<b>CSD</b> catcratch disease
<b>C</b> calorie (large); carbon; Celsius; centigrade; clearance (rate, renal) <b>c</b> ; compliance; concentration; cylindrical(lens); cytidine	<b>Ce</b> cerium	<b>CML</b> chronic myelogenous leukemia	<b>CSF</b> cerebrospinal fluid; colony-stimulating factor
<b>c[L.]</b> <i>cum</i> , with	<b>CEA</b> carcinoembryonic antigen; carotid endarterectomy	<b>CMO</b> Chief Medical Officer	<b>CT</b> computed tomography
<b>C&amp;S</b> culture and sensitivity	<b>CELO</b> chicken embryo lethal orphan (virus)	<b>CMP</b> cytidine 5' phosphate (or any cytidine monophosphate)	<b>CTP</b> cytidine 5' triphosphate
<b>C.C.</b> chief complaint	<b>CEP</b> congenital erythropoietic porphyria	<b>CMT</b> Certified Medical Transcriptionist	<b>CTR</b> cardiothoracic ratio
<b>c/o</b> complains of	<b>CEU</b> continuing education unit	<b>CMV</b> controlled mechanical ventilation; cytomegalovirus	<b>Cu</b> [L.] cuprum, copper
<b>ca.</b> [L.] <i>circa</i> , about, approximately	<b>Cf</b> californium	<b>CNM</b> Certified Nurse-Midwife	<b>CV</b> cardiovascular
<b>c-a</b> cardioarterial	<b>CF</b> complement fixation; cystic fibrosis; coupling factor	<b>CNP</b> Community Nurse Practitioner	<b>CVA</b> cerebral vascular (cerebrovascular) accident, costovertebral angle
<b>Ca</b> calcium; cathodal; cathode	<b>CG</b> chorionic gonadotropin	<b>CNS</b> central nervous system	<b>CVP</b> central venous pressure
<b>CA</b> cancer; carcinoma; cardiac arrest; chronologic age; contrast angiography; croup associated (virus); cytosine arabinoside	<b>CGA</b> catabolite gene activator	<b>Co</b> cobalt	<b>CVS</b> cardiovascular system; chorionic villus sampling
<b>CABG</b> coronary artery bypass graft	<b>cGMP</b> cyclic guanosine monophosphate	<b>COG</b> center of gravity	<b>CXR</b> chest x-ray
	<b>egs, CGS</b> centimeter-gram-second (system, unit)	<b>conA</b> concanavalin A	<b>Cyd</b> cytidine

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<b>cyl</b> cylinder; cylindrical (lens)	<b>DF</b> decayed and filled (permanent teeth)	<b>DON</b> Director of Nursing	<b>DVM</b> Doctor of Veterinary Medicine
<b>CYP</b> cytochrome P-450 (enzyme)	<b>Df</b> deficiency (absence or inactivation of a gene)	<b>DOT</b> directly observed therapy	<b>DVT</b> deep vein thrombosis
<b>Cys</b> cysteine	<b>dGMP</b> deoxyguanosine monophosphate (deoxyguanylic acid)	<b>DP</b> Doctor of Pharmacy; Doctor of Podiatry	<b>Dx</b> diagnosis
<b>Cyt</b> cytosine	<b>DH</b> Dental Hygienist	<b>Dp</b> duplication of a gene or chromosomal segment	<b>Dy</b> dysprosium
<b>Δ</b> delta; change; heat	<b>DHEA</b> dehydro-3-epiandrosterone	<b>2,3 DPG</b> 2,3 diphosphoglycerate	<b>ε</b> epsilon; molar absorption coefficient; heavy chain class corresponding to IgE
<b>δ</b> delta; heavy chain class corresponding to IgD	<b>DIC</b> disseminated intravascular coagulation	<b>DPH</b> Doctor of Public Health; Doctor of Public Hygiene	<b>E</b> exa ; extraction (ratio)
<b>D &amp; C</b> dilatation and curettage	<b>DIF</b> direct immunofluorescence	<b>DPharm</b> Doctor of Pharmacy	<b>EB</b> Epstein Barr (virus)
<b>D &amp; E</b> dilatation and evacuation	<b>DIP</b> desquamative interstitial pneumonia; distal interphalangeal (joint)	<b>DPI</b> dry powder inhaler	<b>EBV</b> Epstein Barr virus
<b>D</b> Dalton, dead (space gas) (SUBSCRIPT); deciduous; deuterium; diffusing (capacity); dihydrouridine (in nucleic acids); diopter; [L.] dexter, right (opposite of left); vitamin D potency of cod liver oil	<b>DJD</b> degenerative joint disease	<b>DPM</b> Doctor of Physical Medicine; Doctor of Podiatric Medicine	<b>ECF</b> extended care facility; extracellular fluid
<b>d</b> deci-; day	<b>dk</b> deca-, deka-	<b>DPN</b> diphosphopyridine nucleotide	<b>ECF-A</b> eosinophilic chemotactic factor of anaphylaxis
<b>d</b> deuterium	<b>DKA</b> diabetic ketoacidosis	<b>DPT</b> dipropyltryptamine; diphtheria, pertussis, and tetanus (vaccines)	<b>ECG</b> electrocardiogram
<b>d</b> dextrorotatory	<b>dL</b> deciliter	<b>dr</b> dram	<b>ECHO</b> enterocytopathogenic human orphan (virus)
<b>D-</b> prefix indicating that a molecule is sterically analogous to D glyceraldehyde	<b>DM</b> diabetes mellitus	<b>DR</b> degeneration reaction, reaction of degeneration	<b>ECM</b> erythema chronicum migrans
<b>da</b> deca	<b>DMARD</b> disease-modifying antirheumatic drug	<b>Dr Med</b> Doctor of Medicine	<b>ECMO</b> extracorporeal membrane oxygenation
<b>da</b> deoxyadenosine	<b>DMD</b> Doctor of Dental Medicine; Duchenne muscular dystrophy	<b>DRE</b> digital rectal examination	<b>ECS</b> electrocerebral silence
<b>Da</b> dalton	<b>DME</b> Director of Medical Education	<b>DRG</b> diagnosis-related group	<b>ECT</b> electroconvulsive therapy
<b>DA</b> developmental age	<b>dmf</b> decayed, missing, or filled (deciduous teeth)	<b>DRPH</b> Doctor of Public Health; Doctor of Public Hygiene	<b>ED</b> eating disorder; effective dose; emergency department; erectile dysfunction
<b>dAdo</b> deoxyadenosine	<b>DMF</b> decayed, missing, or filled (permanent teeth)	<b>DRVVT</b> dilute Russell viper venom test	<b>EDC</b> expected date of confinement
<b>dAMP</b> deoxyadenylic acid	<b>DMSO</b> dimethyl sulfoxide	<b>D-S</b> Doerfler Stewart (test)	recipe, (the first word on a prescription), take; prescription; treatment
<b>DANS</b> 1-dimethylaminonaphthalene 5 sulfonic acid	<b>DMT</b> <i>N,N</i> dimethyltryptamine	<b>DSA</b> digital subtraction angiography	<b>EDTA</b> ethylenediamine-tetraacetic acid (edathamil, edetic acid)
<b>db</b> decibel	<b>DMV</b> Doctor of Veterinary Medicine	<b>DSc</b> Doctor of Science	<b>EEG</b> electroencephalogram
<b>dB</b> decibel	<b>DN</b> dibucaine number	<b>DSD</b> dry sterile dressing	<b>EENT</b> eye, ear, nose, and throat
<b>DC</b> Dental Corps; Doctor of Chiropractic; direct current	<b>DNA</b> deoxyribonucleic acid	<b>dsDNA</b> double-stranded DNA	<b>EIA</b> enzyme immunoassay
<b>⊘/C</b> discharge; discontinued	<b>DNB</b> Diplomate of the National Board (of Medical Examiners)	<b>DSM</b> <i>Diagnostic and Statistical Manual of Mental Disorders of the American Psychiatric Association</i>	<b>EKG</b> [German] <i>Elektrokardiogramme</i> , electrocardiogram
<b>DCG</b> dacryocystography	<b>DNE</b> Director of Nursing Education; Doctor of Nursing Education	<b>dT</b> deoxythymidine	<b>EKY</b> electrokymogram
<b>DCh</b> Doctor of Surgery (Doctor Chirurgiae)	<b>DNP</b> deoxyribonucleoprotein; 2,4 dinitrophenol	<b>DT</b> delirium tremens; duration of tetany	<b>ELISA</b> enzyme-linked immunosorbent assay
<b>DCI</b> dichloroisoproterenol	<b>DNB</b> National Board (of Medical Examiners)	<b>dTDP</b> deoxythymidine 5 diphosphate	<b>EMC</b> encephalomyocarditis (virus)
<b>dCMP</b> deoxycytidylic acid	<b>DO</b> Doctor of Osteopathy	<b>dThd</b> thymidine	<b>EMF</b> electromotive force
<b>DDS</b> Doctor of Dental Surgery	<b>DOA</b> dead on arrival	<b>DTIC</b> dimethyltrizenoimidazole carboxamide (dacarbazine)	<b>EMG</b> electromyogram; exomphalos, macroglossia, and gigantism (syndrome)
<b>DDT</b> dichlorodiphenyl trichloroethane (chlorophenothane)	<b>DOB</b> date of birth	<b>dTMP</b> deoxythymidylic acid	<b>EMS</b> eosinophilia-myalgia syndrome
<b>def</b> decayed, extracted, or filled (deciduous teeth)	<b>DOC</b> deoxycholic acid; deoxycorticosterone	<b>DTP</b> diphtheria and tetanus toxoids and pertussis vaccine; distal tingling on percussion (Tinel sign)	<b>EMT</b> Emergency Medical Technician
<b>DEF</b> decayed, extracted, or filled (permanent teeth)	<b>DOE</b> dyspnea on exertion	<b>DTPA</b> diethylenetriamine pentaacetic acid	<b>ENG</b> electronystagmography
<b>DES</b> diethylstilbestrol	<b>DOM</b> 2,5-dimethoxy-4-methylamphetamine	<b>DTR</b> deep tendon reflex	<b>ENT</b> ear, nose, and throat
<b>DET</b> diethyltryptamine		<b>dTTP</b> deoxythymidine 5' triphosphate	<b>EOG</b> electrooculography
<b>DEV</b> duck embryo vaccine; duck embryo virus			<b>EOM</b> extraocular muscle(s)
<b>DEXA</b> dual energy x-ray absorptiometry			<b>EPAP</b> expiratory positive airway pressure
<b>df</b> decayed and filled (deciduous teeth)			

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APP 17

<b>EPO</b> erythropoietin	<b>FACO</b> Fellow of the American College of Otolaryngology	<b>FSH</b> follicle stimulating hormone	<b>Glu</b> glutamic acid; glutamyl
<b>ER</b> endoplasmic reticulum; emergency room	<b>FACOG</b> Fellow of the American College of Obstetricians and Gynecologists	<b>FSH-RF</b> follicle stimulating hormone releasing factor	<b>Gly</b> glycine; glycyI
<b>Er</b> erbium	<b>FACOS</b> Fellow of the American College of Orthopaedic Surgeons	<b>FSH-RH</b> follicle stimulating hormone releasing hormone	<b>GMO</b> General Medical Officer
<b>ERBF</b> effective renal blood flow	<b>FACP</b> Fellow of the American College of Physicians	<b>FTA-ABS</b> fluorescent treponemal antibody absorption (test)	<b>GMP</b> guanosine monophosphate (guanylic acid)
<b>ERCP</b> endoscopic retrograde cholangiopancreatography	<b>FACR</b> Fellow of the American College of Radiology	<b>FU</b> fluorouracil	<b>GMS</b> Gomori (or Grocott) methenamine silver (stain)
<b>ERG</b> electroretinogram	<b>FACS</b> Fellow of the American College of Surgeons	<b>F/U</b> follow-up	<b>GN</b> Graduate Nurse
<b>ERPF</b> effective renal plasma flow	<b>FAD</b> flavin(e) adenine dinucleotide; familial Alzheimer disease	<b>FUO</b> fever of unknown origin	<b>GnRH</b> gonadotropin releasing hormone
<b>ERT</b> estrogen replacement therapy	<b>FAMA</b> Fellow of the American Medical Association	<b>FVC</b> forced vital capacity	<b>GOT</b> glutamic oxaloacetic transaminase (aspartate aminotransferase)
<b>ERV</b> expiratory reserve volume	<b>FANA</b> fluorescent antinuclear antibody (test)	<b>Fw</b> F wave (fibrillary wave, flutter wave)	<b>GPI</b> Gingival Periodontal Index
<b>Es</b> einsteinium	<b>FAP</b> familial adenomatous polyposis	<b>Fx</b> fracture	<b>GPT</b> glutamic pyruvic transaminase (alanine aminotransferase)
<b>ESEP</b> extreme somatosensory evoked potential	<b>FB</b> foreign body	<b><math>\gamma</math></b> gamma; Ostwald solubility coefficient; the third in a series; heavy chain class corresponding to IgG	<b>gr</b> grain
<b>ESP</b> extrasensory perception	<b>FBS</b> fasting blood sugar	<b>G 1</b> gap 1	<b>GSH</b> reduced glutathione
<b>ESR</b> electron spin resonance; erythrocyte sedimentation rate	<b>Fc</b> constant fragment of an antibody molecule	<b>G 2</b> gap 2	<b>GSR</b> galvanic skin response
<b>ESRD</b> end stage renal disease	<b>FDA</b> (U.S.) Food and Drug Administration	<b>G</b> giga ; glucose; gravitation (newtonian constant of); guanosine (or guanylic acid) residues in polynucleotides; grvida (obstetric history)	<b>GSSG</b> oxidized glutathione
<b>ESWL</b> extracorporeal shock-wave lithotripsy	<b>Fe</b> [L.] ferrum, iron	<b>g</b> gram	<b>GSW</b> gunshot wound
<b>EtOH</b> ethyl alcohol	<b>FEF</b> forced expiratory flow	<b>G6P</b> glucose 6 phosphate	<b>gt.</b> [L.] <i>gutta</i> , a drop
<b>Eu</b> europium	<b>FET</b> forced expiratory time	<b>Ga</b> gallium	<b>GTP</b> guanosine 5' triphosphate
<b>ev</b> electron volt	<b>FEV</b> forced expiratory volume	<b>GABHS</b> group-A $\beta$ -hemolytic <i>Streptococcus</i>	<b>gtt.</b> [L.] <i>guttae</i> , drops
<b>eV</b> electron volt	<b>FF</b> filtration fraction	<b>Gal</b> galactose	<b>GTT</b> glucose tolerance test
<b>F</b> Fahrenheit; faraday (constant); fertility (factor); field (of vision); fluorine; force; fractional (concentration); free (energy)	<b>FFD</b> focus film distance	<b>GCS</b> Glasgow coma scale	<b>GU</b> genitourinary
<b>f</b> femto-; (respiratory) frequency	<b>FHR</b> fetal heart rate	<b>GC</b> gonococcus, gonorrhea	<b>Guo</b> guanosine
<b>F<sub>1</sub></b> first filial generation	<b>FHT</b> fetal heart tones	<b>GCS</b> Glasgow coma scale	<b>GVHD</b> graft versus host disease
<b>FI.2</b> (prothrombin) fragment 1.2	<b>FIA</b> fluorescent immunoassay	<b>Gd</b> gadolinium	<b>Gy</b> gray (unit of absorbed dose of ionizing radiation)
<b>FAAN</b> Fellow of the American Academy of Nursing	<b>FIGLU</b> formiminoglutamic (acid)	<b>GDP</b> mannose 1 phosphate guanylyltransferase	<b>GYN</b> gynecology
<b>FAAP</b> Fellow of the American Academy of Pediatrics	<b>FISH</b> fluorescent in situ hybridization	<b>Ge</b> germanium	<b>h</b> hecto
<b>Fab</b> fragment of antibody molecule involved in antigen binding	<b>Fm</b> fermium	<b>GERD</b> gastroesophageal reflux disease	<b><sup>1</sup>H</b> hydrogen-1 (protium, light hydrogen)
<b>FACA</b> Fellow of the American College of Anesthesiology	<b>FMN</b> flavin(e) mononucleotide	<b>GFR</b> glomerular filtration rate	<b><sup>2</sup>H</b> hydrogen-2 (deuterium, heavy hydrogen)
<b>FACAL</b> Fellow of the American College of Allergy	<b>FNA</b> fine-needle aspiration	<b>GGT</b> $\gamma$ -glutamyl transferase	<b><sup>3</sup>H</b> hydrogen-3 (tritium, radioactive hydrogen)
<b>FACC</b> Fellow of the American College of Cardiologists	<b>fps, FPS</b> foot pound second (system, unit)	<b>GH</b> glenohumeral; growth hormone	<b>H</b> henry; hydrogen; hyperopia; hyperopic
<b>FACD</b> Fellow of the American College of Dentists	<b>Fr</b> francium; French (gauge, scale)	<b>GHB</b> $\gamma$ -hydroxybutyrate	<b>h</b> Planck constant
<b>FACFP</b> Fellow of the American College of Family Physicians	<b>FRC</b> functional residual capacity (of lungs)	<b>GHRF</b> growth hormone releasing factor	<b>H &amp; E</b> hematoxylin and eosin
	<b>French</b> (catheter gauge)	<b>GH-RF</b> growth hormone releasing factor	<b>H &amp; H</b> hematocrit and hemoglobin
	<b>FRF</b> follicle stimulating hormone releasing factor	<b>GHRH</b> growth hormone releasing hormone	<b>H<sup>+</sup></b> hydrogen ion
	<b>FRS</b> first rank symptom	<b>GH-RH</b> growth hormone releasing hormone	<b>Ha</b> hahnium
	<b>Fru</b> fructose	<b>GI</b> gastrointestinal; Gingival Index	<b>HA</b> hyaluronic acid; hemagglutinin
		<b>GIP</b> gastric inhibitory polypeptide	<b>HAART</b> highly active anti-retroviral therapy
		<b>GLC</b> gas liquid chromatography	<b>HAV</b> hepatitis A virus
		<b>Gln</b> glutamine; glutamyl	<b>Hb</b> hemoglobin
			<b>HbA</b> adult hemoglobin
			<b>HbA<sub>1</sub></b> major component of adult hemoglobin
			<b>HbA<sub>2</sub></b> minor fraction of adult hemoglobin

The forbidden symbol (⊗) appears opposite abbreviations prohibited by the Joint Commission on Accreditation of Healthcare Organizations (JCAHO). An explanation of each prohibition is given in the usage notes of the A to Z entries for the relevant abbreviations.

<b>HbAS</b> heterozygosity for hemoglobin A and hemoglobin S (sickle cell trait)	<b>HI</b> hemagglutination inhibition (test, titer)	<b>I &amp; O</b> (fluid) intake and output	<b>IRB</b> institutional review board
<b>HB<sub>c</sub>Ag</b> Hepatitis B core antigen	<b>5-HIAA</b> 5-hydroxy-indoleacetic acid	<b>IADLs</b> instrumental activities of daily living	<b>IRV</b> inspiratory reserve volume
<b>HbCO</b> carboxyhemoglobin	<b>HIDA</b> hepatobiliary iminodiacetic acid (scan)	<b>IAP</b> intermittent acute porphyria	<b>ISI</b> International Sensitivity Index
<b>HB<sub>e</sub></b> Hepatitis B early antigen	<b>HIPAA</b> Health Insurance Portability and Accountability Act	<b>IBD</b> inflammatory bowel disease	<b>ITP</b> idiopathic thrombocytopenic purpura; inosine 5' triphosphate
<b>HB<sub>e</sub>Ab</b> Hepatitis B early antibody	<b>His</b> histidine	<b>IBS</b> irritable bowel syndrome	<b>IU</b> International Unit
<b>HB<sub>e</sub>Ag</b> Hepatitis B early antigen	<b>-His</b> histidino	<b>IBW</b> ideal body weight	<b>IUCD</b> intrauterine contraceptive device
<b>HbF</b> fetal hemoglobin	<b>His-</b> histidyl	<b>ICA</b> internal carotid artery	<b>IUD</b> intrauterine device
<b>Hbg</b> hemoglobin	<b>HIV</b> human immunodeficiency virus	<b>ICD</b> <i>International Classification of Diseases of the World Health Organization</i> ; implantable cardioverter-defibrillator	<b>IV</b> intravenous, intravenously; intraventricular
<b>HBIG</b> hepatitis B immune globulin	<b>HI</b> hyperopia, latent	<b>ICDA</b> <i>International Classification of Diseases, Adapted for Use in the United States</i>	<b>IVDA</b> intravenous drug abuse(r)
<b>HBO</b> hyperbaric oxygen	<b>HLA</b> human lymphocyte antigen, human leukocyte antigen	<b>ICF</b> intracellular fluid	<b>IVF</b> in vitro fertilization
<b>HbO<sub>2</sub></b> oxyhemoglobin, oxygenated hemoglobin	<b>Hm</b> hyperopia, manifest (hypermetropia)	<b>ICP</b> intracranial pressure	<b>IVP</b> intravenous pyelogram
<b>HbS</b> sickle cell hemoglobin	<b>HME</b> human monocytic ehrlichiosis	<b>ICSH</b> interstitial cell stimulating hormone	<b>J</b> flux (density)
<b>HB<sub>s</sub>Ab</b> hepatitis B surface antibody	<b>HMG CoA</b> 3 hydroxy 3 methylglutaryl coenzyme A	<b>ICU</b> intensive care unit	<b>J</b> joule
<b>HB<sub>s</sub>Ag</b> hepatitis B surface antigen	<b>HMG</b> human menopausal gonadotropin	<b>ID</b> infective dose	<b>JMS</b> Junior Medical Student
<b>HBV</b> hepatitis B virus	<b>HMO</b> Health Maintenance Organization	<b>IDU</b> idoxuridine; injecting/injection drug user	<b>JVD</b> jugular venous distention
<b>HCFA</b> Health Care Financing Administration	<b>HMWK</b> high molecular weight kininogen (Fletcher factor)	<b>IF</b> initiation factor; intrinsic factor	<b>K</b> [Mod. L.] <i>kalium</i> , potassium; kelvin
<b>HCG</b> human chorionic gonadotropin	<b>Ho</b> holmium	<b>IFN</b> interferon	<b>k</b> kilo
<b>HCl</b> hydrochloric acid; hydrochloride	<b>h/o</b> history of	<b>Ig</b> immunoglobulin	<b>kat</b> katal
<b>HCS</b> human chorionic somatomammotropin (human placental lactogen)	<b>HPF</b> high power field	<b>IGF</b> insulinlike growth factor	<b>kb</b> kilobase
<b>Hct</b> hematocrit	<b>HPI</b> history of present illness	<b>IL</b> interleukin	<b>kc</b> kilocycle
<b>HCV</b> Hepatitis C virus	<b>HPL</b> human placental lactogen	<b>ILA</b> insulinlike activity	<b>kcal</b> kilocalorie
<b>h. d.</b> [L.] <i>hora decubitus</i> , at bedtime	<b>HPLC</b> high performance liquid chromatography	<b>Ile</b> isoleucine	<b>KCT</b> kaolin clotting time
<b>HDL</b> high-density lipoprotein	<b>HPV</b> human papillomavirus	<b>IM</b> internal medicine; intramuscular(ly); infectious mononucleosis	<b>kDa</b> kilodalton
<b>HDRV</b> human diploid (cell strain) rabies vaccine	<b>HRCT</b> high-resolution computed tomography	<b>IMP</b> inosine monophosphate (inosinic acid)	<b>kg</b> kilogram
<b>He</b> helium	<b>h. s., HS</b> [L.] <i>hora somni</i> , at bedtime	<b>IMS</b> Indian Medical Service	<b>KJ</b> knee jerk
<b>HEMPAS</b> hereditary erythroblastic multinuclearity associated with positive acidified serum	<b>HSV</b> herpes simplex virus	<b>IMV</b> intermittent mandatory ventilation	<b>K<sub>M</sub></b> Michaelis constant
<b>Hf</b> hafnium	<b>5-HT</b> 5-hydroxytryptamine (serotonin)	<b>IND</b> investigational new drug	<b>KOH</b> potassium hydroxide
<b>HFJV</b> high frequency jet ventilation	<b>Ht</b> hyperopia, total	<b>Ino</b> inosine	<b>KP</b> keratic precipitate
<b>HFOV</b> high frequency oscillatory ventilation	<b>HTLV</b> human T cell lymphocytotropic virus; human T cell lymphoma/leukemia virus	<b>INR</b> international normalized ratio	<b>Kr</b> krypton
<b>HFPPV</b> high frequency positive pressure ventilation	<b>HTN</b> hypertension	<b>IOML</b> infraorbitomeatal line	<b>17-KS</b> 17-ketosteroid
<b>HFV</b> high frequency ventilation	<b>HVL</b> half value layer	<b>IP</b> interphalangeal; intraperitoneal(ly)	<b>KS</b> Kaposi sarcoma
<b>Hg</b> [L.] <i>hydrargyrum</i> , mercury	<b>Hx</b> (medical) history	<b>IPAP</b> inspiratory positive airway pressure	<b>KUB</b> kidneys, ureters, bladder
<b>Hgb</b> hemoglobin	<b>Hyp</b> hydroxyproline	<b>IPPB</b> intermittent positive pressure breathing	<b>kv</b> kilovolt
<b>HGE</b> human granulocytic ehrlichiosis	<b>H<sub>z</sub></b> hertz	<b>IPPB</b> intermittent positive pressure ventilation	<b>kVp</b> kilovolt peak
<b>HGH</b> human (pituitary) growth hormone	<b><sup>125</sup>I</b> iodine 125	<b>IPV</b> inactivated poliovirus vaccine	<b>KW</b> Kimmelstiel Wilson (disease); Keith Wagener (retinal changes)
<b>HGSIL</b> high-grade squamous intraepithelial lesion	<b><sup>131</sup>I</b> iodine 131	<b>IQ</b> intelligence quotient	<b>l</b> liter (use of CAPITAL letter preferred)
	<b><sup>123</sup>I</b> iodine 123 (radioisotope)	<b>Ir</b> iridium	<b>L</b> inductance; left; [L.] limes, boundary, limit; liter
	<b>I</b> inspired (gas) (SUBSCRIPT); iodine		<b>L-</b> prefix indicating that a molecule is sterically analogous to L-glyceraldehyde
	<b>I &amp; D</b> incision and drainage		<b>L:S R</b> lecithin:sphingomyelin ratio

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## COMMON MEDICAL ABBREVIATIONS

APP 19

<b>LATS</b> long acting thyroid stimulator	<b>LP</b> lumbar puncture	<b>MAC</b> <i>Mycobacterium avium</i> complex	<b>MI</b> mitral insufficiency; myocardial infarction
<b>LBT</b> lupus band test	<b>LPF</b> low power field	<b>MAI</b> <i>Mycobacterium avium-intracellulare</i>	<b>MID</b> minimal infecting dose
<b>LBW</b> low birth weight	<b>LPH</b> lipotropic pituitary hormone (lipotropin)	<b>MAO</b> monoamine oxidase	<b>MIP</b> maximum inspiratory pressure
<b>LC</b> lethal concentration	<b>LPN</b> Licensed Practical Nurse	<b>MAOI</b> monoamine oxidase inhibitor	<b>MK</b> menaquinone (vitamin K2)
<b>LCA</b> left coronary artery	<b>Lr</b> lawrencium	<b>MAP</b> morning after pill	<b>mks, MKS</b> meter kilogram second (system, unit)
<b>LCAT</b> lecithin cholesterol acyltransferase	<b>LRCP</b> Licentiate of the Royal College of Physicians	<b>ma-S</b> milliamperes second	<b>ml, mL</b> milliliter
<b>LCM</b> left costal margin; lymphocytic choriomeningitis (virus)	<b>LRCS</b> Licentiate of the Royal College of Surgeons	<b>MAST</b> military antishock trousers	<b>MLC</b> mixed lymphocyte culture (test)
<b>LD</b> lethal dose	<b>LRH</b> luteinizing hormone releasing hormone	<b>Mb</b> myoglobin	<b>MLD</b> minimal lethal dose
<b>LDH</b> lactate dehydrogenase	<b>LSA</b> left sacroanterior (fetal position)	<b>MBC</b> maximum breathing capacity	<b>mm</b> millimeter
<b>LDL</b> low-density lipoprotein	<b>LSD</b> lysergic acid diethylamide	<b>MbCO</b> carbon monoxidized myoglobin	<b>mmHg</b> millimeters of mercury (torr)
<b>LE</b> left eye; lupus erythematosus	<b>LSP</b> left sacroposterior (fetal position)	<b>MbO<sub>2</sub></b> oxymyoglobin	<b>mmol</b> millimole
<b>LEEP</b> loop electrosurgical excision procedure	<b>LST</b> left sacrotransverse (fetal position)	<b>MC</b> Medical Corps	<b>MMPI</b> Minnesota Multiphasic Personality Inventory (test)
<b>LES</b> lower esophageal sphincter	<b>LTH</b> luteotropic hormone	<b>MCH</b> mean corpuscular hemoglobin	<b>MMR</b> measles-mumps-rubella (vaccine)
<b>LETS</b> large external transformation sensitive (fibronectin)	<b>LTM</b> long-term memory	<b>MCHC</b> mean corpuscular hemoglobin concentration	<b>MMSE</b> Mini-Mental State Examination
<b>Leu</b> leucine	<b>LTR</b> long terminal repeat	<b>mCi</b> millicurie	<b>Mn</b> manganese
<b>LFA</b> left frontoanterior (fetal position)	<b>Lu</b> lutetium	<b>MCL</b> midclavicular line	<b>Mo</b> molybdenum
<b>LFA</b> left frontoanterior (fetal position)	<b>LUQ</b> left upper quadrant	<b>mcm</b> millimicron	<b>MO</b> Medical Officer; mineral oil
<b>LFP</b> left frontoposterior (fetal position)	<b>LV</b> left ventricle	<b>MCP</b> metacarpophalangeal	<b>MOC</b> Medical Officer on Call
<b>LFT</b> left frontotransverse (fetal position); liver function test	<b>LVEF</b> left ventricular ejection fraction	<b>MCV</b> mean corpuscular volume	<b>MOD</b> Medical Officer of the Day
<b>LGSIL</b> low grade squamous intraepithelial lesion	<b>LVET</b> left ventricular ejection time	<b>MD</b> Doctor of Medicine (Medicinae Doctor)	<b>mol</b> mole
<b>LGV</b> lymphogranuloma venereum	<b>LVH</b> left ventricular hypertrophy	<b>MD [L.]</b> <i>Medicinae Doctor</i> , Doctor of Medicine	<b>mol wt</b> molecular weight
<b>LH</b> luteinizing hormone	<b>LVN</b> Licensed Visiting Nurse; Licensed Vocational Nurse	<b>Md</b> mendeleevium	<b>MOM</b> Milk of Magnesia
<b>LH/FSH-RF</b> luteinizing hormone/follicle stimulating hormone releasing factor	<b>Lw</b> (former symbol for) lawrencium (now Lr)	<b>MDF</b> myocardial depressant factor	<b>MOPP</b> Mustargen (mechlorethamine hydrochloride), Oncovin (vincristine sulfate), procarbazine hydrochloride, and prednisone
<b>LH-RF</b> luteinizing hormone releasing factor	<b>Lys</b> lysine (or its radicals in peptides)	<b>MDI</b> metered dose inhaler	<b>MPD</b> maximal permissible dose
<b>LH-RH</b> luteinizing hormone releasing hormone	Ⓚ <b>μ</b> mu; micro ; heavy chain class corresponding to IgM	<b>MDR</b> multidrug-resistant	<b>MPH</b> Master of Public Health
<b>Li</b> lithium	Ⓚ <b>μCi</b> microcurie	<b>ME</b> Medical Examiner	<b>MPS</b> mononuclear phagocyte system
<b>LLQ</b> left lower quadrant	Ⓚ <b>μg</b> microgram	<b>Me</b> methyl	<b>MR</b> milk ring (test); mitral regurgitation
<b>LM</b> Licentiate in Midwifery	Ⓚ <b>μl, μL</b> microliter	<b>Med Tech</b> Medical Technician; Medical Technologist	<b>M<sub>r</sub></b> molecular (weight) ratio
<b>LMA</b> left mentoanterior (fetal position)	Ⓚ <b>μm</b> micrometer	<b>MEDLARS</b> Medical Literature Analysis and Retrieval System	<b>MRA</b> magnetic resonance angiography
<b>LMP</b> last menstrual period; left mentoposterior (fetal position)	Ⓚ <b>μm</b> micromicro	<b>MEP</b> maximal expiratory pressure	<b>MRCP</b> Member of the Royal College of Physicians
<b>LMT</b> left mentotransverse (fetal position)	<b>M + Am</b> compound myopic astigmatism	<b>meq, mEq</b> milliequivalent	<b>MRCs</b> Member of the Royal College of Surgeons
<b>LNPF</b> lymph node permeability factor	<b>m</b> mass; meter; milliminim; molar	<b>MeSH</b> Medical Subject Headings	<b>mrd, MRD</b> minimal reacting dose
<b>LOA</b> left occipitoanterior (fetal position)	<b>m-</b> meta	<b>Met</b> methionine	<b>MRI</b> magnetic resonance imaging
<b>LOC</b> level of consciousness; loss of consciousness	<b>M</b> mega , meg ; molar; moles (per liter); morgan; myopic; myopia	<b>MET</b> metabolic equivalent of task	<b>mRNA</b> messenger RNA
<b>LOP</b> left occipitoposterior (fetal position)	<b>M</b> molar; moles (per liter)	<b>metHb</b> methemoglobin	<b>MRSA</b> methicillin-resistant <i>Staphylococcus aureus</i>
<b>LOT</b> left occipitotransverse (fetal position)	<b>m</b> moles (per liter)	<b>metMb</b> metmyoglobin	<b>MS</b> Master of Science
	<b>mA</b> milliamperes	<b>MEV</b> million electron volts (10 <sup>6</sup> ev)	
	<b>MA</b> Master of Arts (Magister Artium); Medical Assistant; mental age	<b>mg</b> milligram	
	<b>MAA</b> macroaggregated albumin	<b>Mg</b> magnesium	
	<b>MAB</b> monoclonal antibody	<b>MHC</b> major histocompatibility complex	
		<b>mho</b> siemens unit	
		<b>MHz</b> megahertz	

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<b>MS I, II, III, IV</b> medical student: first, second, third, and fourth year	<b>NCV</b> nerve conduction velocity	<b>OFD</b> orofaciodigital (dysostosis, syndrome)	<b>Pb</b> [L.] <i>plumbum</i> , lead
<b>ⓀMS</b> multiple sclerosis; magnesium sulfate; morphine sulfate	<b>Nd</b> neodymium	<b>OKT</b> Ortho-Kung T (cell)	<b>PBG</b> porphobilinogen
<b>msec</b> millisecond	<b>Nd:YAG</b> neodymium:yttrium-aluminum-garnet [laser]	<b>OML</b> orbitomeatal line	<b>p.c.</b> [L.] <i>post cibum</i> , after a meal
<b>m/sec</b> meters per second	<b>NDA</b> New Drug Application	<b>OMM</b> ophthalmomandibulomelic (dysplasia, syndrome)	<b>PCB</b> polychlorinated biphenyl
<b>MSG</b> monosodium glutamate	<b>Ne</b> neon	<b>OMS</b> organic mental syndrome	<b>Pco<sub>2</sub></b> partial pressure of carbon dioxide
<b>MSH</b> melanocyte stimulating hormone	<b>NE</b> norepinephrine; not examined	<b>OP</b> osmotic pressure; outpatient	<b>PCP</b> phencyclidine; plasma cell pneumonia (Pneumocystis carinii pneumonia), primary care provider
<b>MSM</b> men who have sex with men	<b>NEEP</b> negative end expiratory pressure	<b>OPV</b> oral poliovirus vaccine	<b>PCR</b> polymerase chain reaction
<b>MSN</b> Master of Science in Nursing	<b>NF</b> National Formulary	<b>OR</b> operating room	<b>PCT</b> percutaneous transhepatic cholangiography
<b>MT</b> Medical Technologist; Medical Transcriptionist; Monitor Technician	<b>ng</b> nanogram	<b>ORD</b> optical rotatory dispersion	<b>PCWP</b> pulmonary capillary wedge pressure
<b>mtDNA</b> mitochondrial DNA	<b>NGF</b> nerve growth factor (antigen)	<b>ORIF</b> open reduction and internal fixation	<b>Pd</b> palladium
<b>MTP</b> metatarsophalangeal (joint)	<b>Ni</b> nickel	<b>Orn</b> ornithine (or its radical)	<b>PD</b> prism diopter
<b>Mu</b> Mache unit	<b>NIH</b> National Institutes of Health	<b>Oro</b> orotate; orotic acid	<b>PDA</b> patent ductus arteriosus; posterior descending artery
<b>MUGA</b> multiple gated acquisition (imaging)	<b>NK</b> natural killer (cell)	<b>Os</b> osmium	<b>PDGF</b> platelet derived growth factor
<b>mV</b> millivolt	<b>NKA</b> no known allergies	<b>ⓀOS</b> [L.] <i>oculus sinister</i> , left eye	<b>PDLL</b> poorly differentiated lymphocytic lymphoma
<b>Mv</b> mendelevium	<b>NLM</b> National Library of Medicine	<b>OSA</b> obstructive sleep apnea	<b>PDR</b> <i>Physicians' Desk Reference</i>
<b>MVA</b> motor vehicle accident	<b>nm</b> nanometer	<b>OSHA</b> Occupational Safety and Health Administration	<b>PEEP</b> positive end expiratory pressure
<b>MVE</b> Murray Valley encephalitis (virus)	<b>NMN</b> nicotinamide mononucleotide	<b>OT</b> occupational therapy; Koch old tuberculin	<b>PEG</b> polyethylene glycol
<b>MVV</b> maximal voluntary ventilation	<b>No</b> nobelium	<b>OTC</b> over the counter (non-prescription) drug	<b>PET</b> positron emission tomography
<b>MW</b> molecular weight	<b>NP</b> Nurse Practitioner	<b>ⓀOU</b> [L.] <i>oculus uterque</i> , each eye (both eyes)	<b>PF<sub>4</sub></b> platelet factor 4
<b>My</b> myopia	<b>Np</b> neptunium	<b>OXT</b> oxytocin	<b>PFT</b> pulmonary function test
<b>v</b> nu; kinematic viscosity	<b>NPO</b> [L.] <i>nihil per os</i> , nothing by mouth	<b>oz</b> ounce	<b>pg</b> picogram
<b>n</b> index of refraction; nano	<b>NREM</b> nonrapid eye movement (sleep)	<b>p</b> pico; pupil	<b>PG</b> prostaglandin
<b>N</b> newton; nitrogen; normal (concentration)	<b>nRNA</b> nuclear RNA	<b>p-</b> para	<b>PGA</b> prostaglandin A
<b>N</b> normal (SMALL caps)	<b>NS</b> normal saline	<b>P</b> partial (pressure); peta; phosphorus, phosphoric (residue); plasma (concentration); pressure; para (obstetric history)	<b>PGB</b> prostaglandin B
<b>Na</b> [Modern L.] <i>natrum</i> , sodium	<b>NSAID</b> nonsteroidal antiinflammatory drug	<b><sup>32</sup>P</b> phosphorus-32	<b>PGE</b> prostaglandin E
<b>NA</b> <i>Nomina Anatomica</i>	<b>NSR</b> normal sinus rhythm	<b>P<sub>1</sub></b> first parental generation	<b>PGF</b> prostaglandin F
<b>NAD</b> nicotinamide adenine dinucleotide; no apparent (or acute) distress	<b>NUG</b> necrotizing ulcerative gingivitis	<b>PA</b> Physician Assistant; posteroanterior	<b>pH</b> hydrogen ion concentration; p (power) of [H <sup>+</sup> ] <sub>10</sub>
<b>NAD<sup>+</sup></b> nicotinamide adenine dinucleotide (oxidized form)	<b>Ω</b> omega; ohm	<b>Pa</b> pascal; protactinium	<b>Ph</b> phenyl
<b>NADH</b> nicotinamide adenine dinucleotide (reduced form)	<b>o-</b> ortho	<b>PA</b> Physician's Assistant; posteroanterior; pulmonary artery	<b>Ph<sup>1</sup></b> Philadelphia (chromosome)
<b>NADP</b> nicotinamide adenine dinucleotide phosphate (oxidized form)	<b>O</b> [L.] <i>oculus</i> , eye; opening (in formulas for electrical reactions); oxygen	<b>PABA</b> para-aminobenzoic acid	<b>PHA</b> phytohemagglutinin (antigen)
<b>NADP<sup>+</sup></b> nicotinamide adenine dinucleotide phosphate (oxidized form)	<b>O &amp; P</b> ova and parasites	<b>PAF</b> platelet-aggregating (or platelet-activating) factor	<b>Pharm D</b> Doctor of Pharmacy (Pharmaciae Doctor)
<b>NADPH</b> nicotinamide adenine dinucleotide phosphate (reduced form)	<b>OAV</b> oculoauriculovertebral (dysplasia, syndrome)	<b>PAH</b> paraaminohippuric (acid)	<b>PhD</b> Doctor of Philosophy (Philosophiae Doctor)
<b>NAME</b> nevi, atrial myxoma, myxoid neurofibromas, and ephelides (syndrome)	<b>OB</b> obstetrics	<b>PAO<sub>2</sub></b> partial pressure of arterial oxygen	<b>PhD</b> [L.] <i>Philosophiae Doctor</i> , Doctor of Philosophy
<b>NANDA</b> North American Nursing Diagnosis Association	<b>OB/GYN</b> obstetrics (and) gynecology	<b>PAS</b> para aminosalicyclic (acid), periodic acid Schiff (reagent)	<b>Phe</b> phenylalanine (or its radical)
<b>Nb</b> niobium	<b>OBS</b> organic brain syndrome	<b>PASA</b> para aminosalicyclic acid	<b>PhG</b> [L.] <i>Pharmacopoeia Germanica</i> , German Pharmacopoeia
	<b>OC</b> oral contraceptive	<b>PAT</b> paroxysmal atrial tachycardia	<b>PhN</b> Graduate in Pharmacy
	<b>OCD</b> obsessive compulsive disorder		<b>PHN</b> Public Health Nurse; postherpetic neuralgia
	<b>OD</b> Doctor of Optometry; Officer of the Day; overdose		
	<b>ⓀOD</b> [L.] <i>oculus dexter</i> , right eye		
	<b>ODD</b> oculodentodigital (dysplasia, syndrome)		
	<b>Oe</b> oersted (centimeter gram second unit of magnetic field strength)		

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## COMMON MEDICAL ABBREVIATIONS

APP 21

<b>PICC</b> peripherally inserted central catheter	<b>PRA</b> plasma renin activity	<b>r</b> racemic; roentgen	<b>RLQ</b> right lower quadrant
<b>PID</b> pelvic inflammatory disease	<b>PRF</b> prolactin releasing factor	<b>R</b> gas constant (8.315 joules); (organic) radical; Réaumur (scale) ; [L.] recipe, take; resistance determinant (plasmid); resistance (electrical); resistance (unit) (in the cardiovascular system); resolution; respiration; respiratory (exchange ratio); roentgen	<b>RMA</b> right mentoanterior (fetal position)
<b>PIF</b> prolactin inhibiting factor	<b>PRL</b> prolactin	<b>RA</b> rheumatoid arthritis	<b>RML</b> right middle lobe
<b>PIP</b> proximal interphalangeal (joint)	<b>p.r.n.</b> PRN, [L.] <i>pro re nata</i> , as needed	<b>rad</b> radian	<b>RMP</b> right mentoposterior (fetal position)
<b>pK</b> negative logarithm of the ionization constant (Ka) of an acid	<b>Pro</b> proline (or its radicals)	<b>RAD</b> reactive airways disease	<b>RMT</b> right mentotransverse (fetal position)
<b>PK</b> pyruvate kinase	<b>PROM</b> passive range of motion; premature rupture of membranes	<b>RAS</b> reticular activating system	<b>Rn</b> radon
<b>PKU</b> phenylketonuria	<b>psi</b> pounds per square inch	<b>RAST</b> radioallergosorbent test	<b>RN</b> Registered Nurse
<b>pm</b> picometer	<b>PSV</b> pressure-supported ventilation	<b>RAV</b> Rous-associated virus	<b>RNA</b> Registered Nurse Anesthetist; ribonucleic acid
<b>Pm</b> promethium	<b>PT</b> physical therapy; prothrombin time	<b>RAW</b> resistance, airway	<b>RNase</b> ribonuclease
<b>PM</b> post mortem	<b>Pt</b> platinum	<b>RB</b> rubidium	<b>RNC</b> Registered Nurse, Certified
<b>PMI</b> point of maximum intensity	<b>PTA</b> plasma thromboplastin antecedent; phosphotungstic acid; prior to admission	<b>rbc</b> red blood cell; red blood (cell) count	<b>RNP</b> Registered Nurse Practitioner
<b>PMN</b> polymorphonuclear (leukocyte)	<b>PTAH</b> phosphotungstic acid hematoxylin	<b>RBC</b> red blood cell; red blood (cell) count	<b>RNP</b> ribonucleoprotein
<b>PMS</b> premenstrual syndrome	<b>PTCA</b> percutaneous transluminal coronary angioplasty	<b>RBF</b> renal blood flow	<b>R/O</b> rule out
<b>PN</b> Practical Nurse	<b>PTH</b> parathyroid hormone	<b>RCM</b> right costal margin	<b>ROA</b> right occipitoanterior (fetal position)
<b>PND</b> paroxysmal nocturnal dyspnea; postnasal drip	<b>PTT</b> partial thromboplastin time	<b>RD</b> reaction of degeneration; reaction of denervation; Registered Dietitian	<b>ROM</b> range of motion
<b>PNP</b> platelet neutralization procedure	<b>PTU</b> prophylthiouracil	<b>RDA</b> recommended daily allowance	<b>ROP</b> right occipitoposterior (fetal position)
<b>PNPB</b> positive negative pressure breathing	<b>Pu</b> plutonium	<b>RDH</b> Registered Dental Hygienist	<b>ROS</b> review of systems
<b>PNS</b> peripheral nervous system	<b>PUO</b> pyrexia of unknown origin	<b>rDNA</b> ribosomal DNA	<b>ROT</b> right occipitotransverse (fetal position)
<b>Po</b> polonium	<b>PUPPP</b> pruritic urticarial papules and plaques of pregnancy	<b>RDS</b> respiratory distress syndrome	<b>RP</b> retinitis pigmentosa
<b>PO</b> [L.] per os, by mouth	<b>PUVA</b> (oral administration of) psoralen (and subsequent exposure to) ultraviolet light of A wavelength (UV A)	<b>RDW</b> red (blood cell) diameter (or distribution) width	<b>RP</b> Registered Pharmacist
<b>PO<sub>2</sub>, Po<sub>2</sub></b> partial pressure of oxygen	<b>PVC</b> polyvinyl chloride; premature ventricular contraction	<b>Re</b> rhenium	<b>RPF</b> renal plasma flow
<b>POEMS</b> polyneuropathy, organomegaly, endocrinopathy, monoclonal protein, and skin changes (syndrome)	<b>PVL</b> plasma viral load	<b>RE</b> right ear; right eye	<b>RPh</b> Registered Pharmacist
<b>POMP</b> prednisone, Oncovin (vincristine sulfate), methotrexate, and Purinethol (6-mercaptopurine)	<b>PVP</b> polyvinylpyrrolidone (povidone)	<b>rem</b> roentgen equivalent, man (sleep); reticular erythematous mucinosis	<b>rpm</b> revolutions per minute
<b>POR</b> problem-oriented (medical) record	<b>q</b> [L.] <i>quisque</i> , every	<b>RE</b> roentgen equivalent, physical	<b>RPR</b> rapid plasma reagin (test)
<b>PP</b> pyrophosphate	<b>Q</b> coulomb; volume of blood flow	<b>RF</b> release factor; rheumatoid factor	<b>RQ</b> respiratory quotient
<b>PPCA</b> proserum prothrombin conversion accelerator	<b>Qco<sub>2</sub></b> microliters CO <sub>2</sub> given off per milligram of dry-weight of tissue per hour	<b>RFA</b> right frontoanterior (fetal position)	<b>rRNA</b> ribosomal RNA
<b>PPD</b> purified protein derivative (of tuberculin)	<b>Qq.d.</b> [L.] <i>quaque die</i> , every day	<b>RFLP</b> restriction fragment length polymorphism	<b>RR</b> relative risk
<b>PPLO</b> pleuropneumonia like organism	<b>q.i.d.</b> [L.] <i>quater in die</i> , four times a day	<b>RFP</b> right frontoposterior (fetal position)	<b>RRR</b> relative risk reduction
<b>ppm</b> parts per million	<b>QNS</b> quantity not sufficient	<b>RFT</b> right frontotransverse (fetal position)	<b>Rs</b> resolution
<b>PPO</b> 2,5-diphenyloxazole	<b>Qo</b> oxygen consumption	<b>Rh</b> Rhesus (Rh blood group); rhodium	<b>RS</b> respiratory syncytial (virus)
<b>PPPPP</b> pain, pallor, pulselessness, paresthesia, paralysis	<b>Qo<sub>2</sub></b> oxygen consumption	<b>RH</b> releasing hormone	<b>RSA</b> right sacroanterior (fetal position)
<b>PPPPPP</b> pain, pallor, pulselessness, paresthesia, paralysis, prostration	<b>Qq.o.d.</b> every other day	<b>RIA</b> radioimmunoassay	<b>RSD</b> reflex sympathetic dystrophy
<b>PPV</b> positive pressure ventilation	<b>q. s.</b> [L.] <i>quantum satis</i> , as much as is enough; [L.] <i>quantum sufficiat</i> , as much as may suffice; quantity sufficient	<b>Rib</b> ribose	<b>RSP</b> right sacroposterior (fetal position)
<b>Pr</b> praseodymium; presbyopia		<b>RLL</b> right lower lobe	<b>RST</b> right sacrotransverse (fetal position)
<b>PR</b> per rectum			<b>RSV</b> Rous sarcoma virus; respiratory syncytial virus

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<b>RVEF</b> right ventricular ejection fraction	<b>SIDS</b> sudden infant death syndrome	<b>SSRI</b> selective serotonin reuptake inhibitor	<b>TBP</b> thyroxine-binding protein
<b>RVH</b> right ventricular hypertrophy	<b>sig.</b> [L.] <i>signa</i> , affix a label, inscribe	<b>ST</b> scapulothoracic	<b>TbV</b> total blood volume
<b>σ</b> sigma; reflection coefficient; standard deviation; 1 millisecond (0.001 sec)	<b>SIMV</b> spontaneous intermittent mandatory ventilation; synchronized intermittent mandatory ventilation	<b>stat</b> ; <b>STAT</b> [L.] <i>statim</i> , immediately, at once	<b>Tc</b> technetium
<b>s</b> [L.] <i>semis</i> , half; steady state (SUBSCRIPT); [L.] sinister, left	<b>SIRD</b> source-to-image-receptor distance	<b>STD</b> sexually transmitted disease	<b><sup>99m</sup>Tc</b> technetium 99m
<b>s</b> sine, without	<b>SISI</b> small increment (or short increment) sensitivity index (test)	<b>STEL</b> short term exposure limit	<b>TCA</b> tricarboxylic acid; trichloroacetic acid
<b>s/s</b> signs and symptoms	<b>SK</b> streptokinase	<b>STH</b> somatotrophic hormone	<b>TCN</b> talocalcaneonavicular (joint)
<b>S</b> [L.] <i>sinister</i> , left; saturation of hemoglobin (percentage of) (followed by subscript O <sub>2</sub> or CO <sub>2</sub> ); siemens; spheric; spheric (lens); sulfur; Svedberg (unit)	<b>SL</b> sublingual(ly)	<b>STI</b> sexually transmitted infection	<b>Td</b> tetanus-diphtheria (toxoids, adult type)
<b>S<sub>1</sub></b> first selfing generation	<b>SLE</b> systemic lupus erythematosus	<b>STM</b> short-term memory	<b>TDP</b> ribothymidine 5' diphosphate
<b>SA</b> sinuatrial	<b>SLR</b> straight leg raising	<b>STPD</b> standard temperature (0° C) and pressure (760 mmHg absolute), dry	<b>Te</b> tellurium
<b>S-A</b> sinuatrial	<b>Sm</b> samarium	<b>STS</b> serologic test for syphilis	<b>TEDD</b> total end-diastolic diameter
<b>SAD</b> seasonal affective disorder	<b>SMS</b> Senior Medical Student	<b>Sv</b> sievert (unit)	<b>TEN</b> toxic epidermal necrolysis
<b>Sa<sub>O2</sub></b> oxygen saturation (of) arterial (oxyhemoglobin)	<b>Sn</b> [L.] <i>stannum</i> , tin	<b>SV</b> sievert (unit)	<b>TESD</b> total end-systolic diameter
<b>SARS</b> severe acute respiratory syndrome	<b>SN</b> Student Nurse	<b>SVT</b> supraventricular tachycardia	<b>TFCI</b> transient focal cerebral ischemia
<b>Sb</b> [L.] <i>stibium</i> , antimony	<b>SOAP</b> subjective data, objective data, assessment, and plan (problem oriented medical record)	<b>Sz</b> seizure	<b>Th</b> thorium
<b>SBE</b> subacute bacterial endocarditis	<b>SOB</b> short(ness) of breath	<b>t</b> metric ton	<b>THC</b> tetrahydrocannabinol
<b>sc</b> subcutaneous(ly)	<b>sol.</b> solution	<b>t</b> temperature (Celsius); tritium	<b>Thr</b> threonine (or its radicals)
<b>Sc</b> scandium	<b>soln.</b> solution	<b>T</b> temperature, absolute (Kelvin); tension (intraocular); tera ; tesla; tetanus (toxoid); tidal (volume) (SUBSCRIPT); tocopherol; transverse (tubule); tritium; tumor (antigen)	<b>Ti</b> titanium
<b>SC</b> sternoclavicular; subcutaneous(ly)	<b>SP</b> Speech Pathologist	<b>T</b> absolute temperature (Kelvin)	<b>t<sub>i</sub>/t<sub>tot</sub></b> duty cycle
<b>ScD</b> Doctor of Science	<b>S/P</b> status post	<b>T!</b> decreased tension (pressure)	<b>TIA</b> transient ischemic attack
<b>SCID</b> severe combined immunodeficiency	<b>sp. gr.</b> specific gravity	<b>T+</b> increased tension (pressure)	<b>TIBC</b> total iron-binding capacity
<b>SD</b> standard deviation; streptodornase	<b>sp.</b> species	<b>T<sub>3</sub></b> 3,5,5' triiodothyronine	<b>t.i.d.</b> [L.] <i>ter in die</i> , three times a day
<b>SDA</b> specific dynamic action	<b>SPA</b> single proton absorptiometry	<b>T<sub>4</sub></b> tetraiodothyronine (thyroxine)	<b>tinct.</b> tincture
<b>Se</b> selenium	<b>SPCA</b> serum prothrombin conversion accelerator (factor VII)	<b>T &amp; A</b> tonsillectomy and adenoidectomy	<b>TITH</b> 3,5,3' triiodothyronine
<b>Ser</b> serine	<b>SPECT</b> single photon emission computed tomography	<b>T &amp; C</b> type and crossmatch	<b>Qt.i.w.</b> three times a week
<b>SERM</b> selective estrogen receptor modulator	<b>SPF</b> sun protection (or protective) factor	<b>Ta</b> tantalum	<b>TKO</b> to keep (venous infusion line) open
<b>Sf</b> Svedberg flotation (constant, unit)	<b>sph</b> spheric (lens)	<b>TA</b> <i>Terminologia Anatomica</i>	<b>TI</b> thallium
<b>SGA</b> small for gestational age	<b>spm</b> suppression and mutation	<b>tab</b> tablet	<b>TLC</b> thin layer chromatography; total lung capacity; tender, loving care
<b>SGOT</b> serum glutamic-oxaloacetic transaminase (aspartate aminotransferase)	<b>spp.</b> species (plural)	<b>TAC</b> transient aplastic crisis	<b>TLV</b> threshold-limit value
<b>SGPT</b> serum glutamic-pyruvic transaminase (alanine aminotransferase)	<b>SQ</b> subcutaneous	<b>TAD</b> transient acantholytic dermatosis	<b>t<sub>m</sub></b> temperature midpoint (Celsius)
<b>SH</b> serum hepatitis	<b>Sr</b> strontium	<b>TAF</b> tumor angiogenesis factor	<b>T<sub>m</sub></b> temperature midpoint (Kelvin)
<b>SI</b> [French] <i>Système International d'Unités</i> ; International System of Units	<b>SRF</b> somatotropin releasing factor	<b>TAH</b> total abdominal hysterectomy	<b>Tm</b> thulium; tubular maximal (excretory capacity of kidneys)
<b>Si</b> silicon	<b>SRF-A</b> slow reacting factor of anaphylaxis	<b>TAR</b> thrombocytopenia with absent radii (syndrome)	<b>TM</b> transport maximum
<b>SID</b> source-to-image (-receptor) distance	<b>SRIF</b> somatotropin-release-inhibiting factor	<b>TAT</b> thematic apperception test	<b>TMJ</b> temporomandibular joint
	<b>sRNA</b> soluble RNA	<b>Tb</b> terbium	<b>TMP</b> ribothymidine 5' monophosphate
	<b>SRS</b> slow-reacting substance (of anaphylaxis)	<b>TB</b> tuberculosis	<b>TMT</b> tarsometatarsal
	<b>SRS-A</b> slow-reacting substance of anaphylaxis	<b>TBG</b> thyroid-binding globulin	<b>TMV</b> tobacco mosaic virus
	<b>ssDNA</b> single stranded DNA		<b>Tn</b> (ocular) tension; (intraocular) tension normal
	<b>ssp.</b> subspecies		<b>TNF</b> tumor necrosis factor
			<b>TNM</b> tumor, node, metastasis (tumor staging)

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<b>TORCH</b> toxoplasmosis, other, rubella, cytomegalovirus, and herpes simplex (maternal infections)	<b>UA</b> urinalysis	<b>V<sub>a</sub>/Q̇</b> ventilation/perfusion ratio	<b>V<sub>T</sub></b> tidal volume
<b>t-PA, TPA</b> tissue plasminogen activator	<b>UDP</b> uridine diphosphate	<b>V<sub>1</sub>CV<sub>6</sub></b> unipolar precordial electrocardiogram chest leads	<b>VZIG</b> varicella-zoster immune globulin
<b>TPHA</b> <i>Treponema pallidum</i> hemagglutination (test)	<b>UDPG</b> uridine diphosphate glucose	<b>VA</b> viral antigen	<b>W</b> watt; [German] <i>Wolfram</i> , tungsten
<b>TPI</b> <i>Treponema pallidum</i> immobilization (test)	<b>UGIS</b> upper gastrointestinal series	<b>VA</b> ventriculoatrial	<b>Wb</b> weber
<b>TPN</b> total parenteral nutrition	<b>UMP</b> uridine monophosphate (uridylic acid)	<b>Val</b> valine (and its radicals)	<b>WBC</b> white blood cell; white blood (cell) count
<b>TPR</b> temperature, pulse, and respirations	<b>u-PA</b> urokinase	<b>VATER</b> vertebral defects, imperforate anus, tracheoesophageal fistula with esophageal atresia, and radial and renal dysplasia (complex)	<b>WC</b> Ward Clerk
<b>tr.</b> tincture	<b>UPJ</b> ureteropelvic junction	<b>VBAC</b> vaginal birth after cesarean	<b>WD</b> well-developed
<b>TRH</b> thyrotropin releasing hormone (stimulation test)	<b>Urd</b> uridine	<b>VC</b> vision, color; vital capacity	<b>WDL</b> well-differentiated lymphoma
<b>TRIC</b> trachoma inclusion conjunctivitis (organism)	<b>URI</b> upper respiratory infection	<b>VCE</b> vagina, (ecto)cervix, endocervical canal	<b>WEE</b> western equine encephalomyelitis
<b>tRNA</b> transfer RNA	<b>US</b> ultrasound	<b>V<sub>b</sub></b> (physiologic) dead space	<b>WHO</b> World Health Organization
<b>Trp</b> tryptophan (and its radicals)	<b>USAN</b> United States Adopted Names (Council)	<b>VDRL</b> Venereal Disease Research Laboratory (test)	<b>WN</b> well nourished
<b>TSH</b> thyroid stimulating hormone	<b>USP</b> <i>United States Pharmacopeia</i>	<b>VHDL</b> very high density lipoprotein	<b>WNV</b> West Nile virus
<b>TSS</b> toxic shock syndrome	<b>USPHS</b> United States Public Health Service	<b>VIP</b> vasoactive intestinal polypeptide	<b>X</b> xanthosine
<b>TSTA</b> tumor-specific transplantation antigen	<b>UTI</b> urinary tract infection	<b>VLDL</b> very low density lipoprotein	<b>Xao</b> xanthosine
<b>TTP</b> thrombotic thrombocytopenic purpura	<b>UTP</b> uridine triphosphate	<b>VMA</b> vanillylmandelic acid (test)	<b>Xe</b> xenon
<b>TU</b> toxic unit, toxin unit	<b>UV</b> ultraviolet	<b>V<sub>max</sub></b> maximal velocity	<b><sup>133</sup>Xe</b> xenon 133
<b>TUR</b> transurethral resection	<b>UVB</b> ultraviolet B	<b>VN</b> Visiting Nurse, Vocational Nurse	<b>XU</b> excretory urogram
<b>TVUS</b> transvaginal ultrasound	<b>UVJ</b> ureterovesical junction	<b>VO</b> vocal order	<b>Y</b> yttrium
<b>Tx</b> treatment	<b>v</b> venous (blood); volt	<b>VP</b> vasopressin	<b>YAG</b> yttrium-aluminum-garnet (laser)
<b>Tyr</b> tyrosine (and its radicals)	<b>V</b> vanadium; vision; visual (acuity); volt; volume (frequently with subscripts denoting location, chemical species, and conditions)	<b>VR</b> vocal resonance	<b>Yb</b> ytterbium
<b>U</b> uranium; uridine (in polymers); urinary (concentration)	<b>V̇</b> ventilation; gas flow (frequently with subscripts indicating location and chemical species); ventilation;	<b>VS</b> vital signs; volumetric solution	<b>Z</b> carbobenzoxy (chloride) pressure
<b>ⓀU</b> unit	<b>V<sub>A</sub></b> alveolar ventilation		<b>ZES</b> Zollinger Ellison syndrome
			<b>Zn</b> zinc
			<b><sup>65</sup>Zn</b> zinc 65
			<b>Zr</b> zirconium
			<b>ZSR</b> zeta sedimentation ratio

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