



# helvella - Abbreviations, Acronyms and Latin

Last updated:

Tuesday, 15 April 2025 10:01

© Copyright helvella 2016 through last updated date. All rights reserved. No part of this publication may be reproduced or transmitted in any form, electronic or mechanical, including photocopying, recording or by means of any information storage or retrieval system without prior permission in writing from the author; or ii) used or reproduced in any way for the training, development or operation of artificial intelligence (AI) technologies, including generative AI technologies. The rights holders expressly reserve this publication from the text and data mining exception as per Article 4(3) of the Digital Single Market Directive (EU) 2019/190.

# Table of Contents

Click on page number.

**Table of Contents .....**[2](#)

**Alphabetic entries .....**[3](#)

A.....[3](#)

B.....[10](#)

C ..[14](#)

D ..[20](#)

E.....[23](#)

F.....[27](#)

G ..[30](#)

H ..[32](#)

I ..[35](#)

J ..[39](#)

K ..[39](#)

L ..[39](#)

M ..[42](#)

N ..[47](#)

O ..[50](#)

P ..[52](#)

Q ..[59](#)

R ..[61](#)

S ..[64](#)

T ..[69](#)

U ..[76](#)

V ..[77](#)

W ..[78](#)

X.....[79](#)

Y.....[79](#)

Z.....[79](#)

**Non-alphabetic entries .....**[80](#)

ℳ ℨ.....[80](#)

% ..[80](#)

Ʒ ..[80](#)

Ǯ ..[80](#)

< ..[80](#)

> ..[81](#)

1 ..[81](#)

3 ..[81](#)

5 ..[81](#)

7 ..[81](#)

9 ..[82](#)

# ..[82](#)

3 ..[82](#)

μ ..[82](#)

Greek ..[83](#)

End ..[83](#)

**End.....**[83](#)

# Alphabetic entries

## Listed in alpha order

Entries in plum colour are Latin or derived from Latin.

**A**

 **ToC**  **End**

 **B**

**A** adenine nucleobase (DNA and RNA)

**A** Alanine @amino acid

**A** Vitamin A

**ā** After (usually written with a bar on top of the "a")

**Aa, āā, ĀĀ** ana, of each

**AA** Alopecia Areata

**aaa** apply to affected area

**AAG** Autoimmune Atrophic Gastritis

**A&E, A and E** Accident and Emergency



**A1C** glycosylated haemoglobin (haemoglobin A1c)

**AACE**



American Association of Clinical Endocrinologists <https://www.aace.com/>

**ab** antibodies

**ABI** Ankle Brachial Pressure Index

 **ToC**  **End**

**Abbreviations & Acronyms**

Page 3 of 83

**ABPI**

Ankle Brachial Pressure Index

**Abx**

Antibiotics

**a.c., ante cibum**

before meals

**ACB**

Association for Clinical Biochemistry <https://www.acb.org.uk/>



**ACD**

Anaemia of Chronic Disease

**ACE**

Adrenal Cortex Extract

**ACE**

Angiotensin-Converting Enzyme

**ACE**

Vitamins A, C and E

**ACE2**

Angiotensin-Converting Enzyme 2

**a.c.h.s., ac&hs, ante cibum et hora somni**

before meals and at bedtime

**ACPA**

Anti-Citrullinated Protein Antibody

**ACS**

Acute Coronary Syndrome

**ACTH**

Adrenocorticotrophic Hormone

**AD**

Anti-Depressant

**AD**

Addison's disease

**a.d., auris dextra**

right ear

**ad., add. addatur**

add, let there be added

**ad lib., ad libitum**

"at one's pleasure", as much as one desires, freely

**ad us., ad usum**

according to custom

**ADD**

Attention deficit disorder

**ADE**

Adverse Drug Event

**adenosyl**

Adenosylcobalamin – a form of vitamin B12

**ADH**

Antidiuretic Hormone (aka vasopressin and Arginine Vasopressin)

**ADHD**

Attention Deficit Hyperactivity Disorder

**ADK**

Combined vitamins A, D and K (probably D3 and K2)

**admov., admove, admoveatur**

apply / add / let there be added

**AdoCBL**

Adenosyl Cobalamin – a form of vitamin B12

**ADP**

Adenosine Diphosphate (ADP) aka adenosine pyrophosphate (APP)

**ADR**

Adverse Drug Reaction

**æq., æquales**

equal

**AF, AFib**

Atrial Fibrillation

**AFP**

Atypical Facial Pain

**AFTN**

Autonomously Functioning Thyroid Nodule

**AGA**

Anti-Gliadin Antibodies

**agit., agita**

agitate (stir or shake)

**AI**

Adequate Intake (as of a nutrient)

**AI**

Adrenal Insufficiency

**AIG**

Autoimmune Gastritis

**AIP**

Autoimmune Protocol

Ala

**AIT**

Autoimmune Thyroiditis

**AITD**

Autoimmune Thyroid Disease

**aka**

also known as

**AKI**

Acute kidney injury

**a.l., auris laeva**

left ear

**Ala**

Alanine

@amino acid

**ALA**

Alpha-Lipoic Acid

**ALA**

α-linolenic acid (an omega-3 fatty acid)

**Alk phos**

Alkaline Phosphatase

**ALP**

Alkaline Phosphatase

**ALT**

Alanine Transaminase

**alt. d., alt. dieb., alternis diebus**

every other day, on alternate days

**alt. h., alt. hor. , alternis horis**

every other hour, at alternate hours

**altern. d., alterno die**

every other day

**a.m., ante meridiem**

before noon / morning

**AMA**

Antimitochondrial Antibody

**AMA**

Anti-microsomal antibody (now called Thyroid Peroxidase antibody)

**AMAG**

Autoimmune Metaplastic Atrophic Gastritis

**AMH**

Anti-Mullerian Hormone

**AMHP**

Approved Mental Health Professional

**AMP**

Adenosine monophosphate

**amp., ampulla**

ampule (ampul, ampoule)

**amt**

amount

**ANA**

Antinuclear Antibody

**ana**

of each

**ANCA**

Anti-Neutrophil Cytoplasmic Antibody

**AOSD**

Adult-Onset Still's Disease

**a.p., ante prandium**

before a meal

**APC**

Area Prescribing Committee

**API**

Active Pharmaceutical Ingredient

**APP**

Adenosine diphosphate (ADP) aka adenosine pyrophosphate (APP)

**APS**

Antiphospholipid Syndrome (Hughes Syndrome)

**APS**

Autoimmune Polyendocrine/Polyglandular Syndrome

## **APTT**

Activated Partial Thromboplastin Time

## **aq., aqua**

water

## **aq. bull., aqua bulliens**

boiling water

## **aq. com., aqua communis**

common water

## **aq. dest., aqua destillata**

distilled water

## **aq. ferv., aqua fervens**

hot water

## **ARC**

Arcuate nucleus (hypothalamus)

## **ARFID**

Avoidant Restrictive Food Intake Disorder

## **Arg**

Arginine

@amino acid

## **ARB**

Angiotensin II Receptor Blockers

## **ARDS**

Acute Respiratory Distress Syndrome

## **Arg**

Arginine

@amino acid

## **a.s., auris sinistra**

left ear

## **AS**

ankylosing spondylitis

## **ASD**

Autistic Spectrum Disorder

## **Asn**

Asparagine

@amino acid

## **Asp**

Aspartic acid

@amino acid

## **ASQ**

Ages And Stages Questionnaire

**AST**

Acute Suppurative Thyroiditis

**AST**

Aspartate aminotransferase

**AT**

Acute Thyroiditis

**AT**

Anti-thyroid

**ATA**

American Thyroid Association <https://www.thyroid.org/>



**ATA**

Antithyroid Antibodies

**ATA**

Antitransglutaminase Antibodies

**ATC**

around the clock

**ATC code**

Anatomical Therapeutic Chemical code

**ATD**

Anti-Thyroid Drug

**ATP**

Acute Thrombocytopenic Purpura

**ATP**

Adenosine triphosphate

**ATTGA**

Anti-transglutaminase antibodies

**AU**

Arbitrary units

**a.u., auris utraque**

both ears

**AUC**

Area Under the Curve

**AV**

atrioventricular

**AVP**

Arginine Vasopressin

## AVP-D

Arginine Vasopressin Deficiency (formerly nephrogenic diabetes insipidus)

## AVP-R

Arginine Vasopressin Resistance (formerly central diabetes insipidus)

## AWMSG



All Wales Medicines Strategy Group <https://awmsg.nhs.wales/>

## Ax

x-code

Assessment (often psychiatric)

## AX

Axillary

**B**

↑ ToC    ↓ End    ↑ A    ↓ C

**B**

Bilateral

**B**

Boron (chemical element)

## B&R

Block and Replace

## B1

Vitamin B1 – Thiamine or thiamin

## B12

Vitamin B12 – Various cobalamins Vitamin B12 (Cobalamin)

## B12D

B12 Deficiency

## B2

Vitamin B2 – Riboflavin

## B3

Vitamin B3 – Niacin, nicotinic acid and vitamin PP

## B5

Vitamin B5 – Pantothenic acid

## B6

Vitamin B6 – pyridoxine, pyridoxal, pyridoxamine, pyridoxal-5-phosphate

## B7

Vitamin B7 aka Vitamin H – Biotin

## B9

Vitamin B9 – Folic Acid or folates, methylfolate

↑ ToC

↓ End

Abbreviations & Acronyms

Page 10 of 83

**BAETS**

British Association of Endocrine and Thyroid Surgeons

**BAM**

Bile Acid Malabsorption

**BAN**

British Approved Name

**BAT**

Brown Adipose Tissue

**BBB**

Blood–Brain Barrier

**BBT**

Basal Body Temperature

**BCAA**

Branched-Chain Amino Acid

**BD**

Bipolar Disorder

**bd, bis in die**

twice a day

**BDS, b.d.s., bis die sumendum**

twice daily

**BG**

Blood Glucose

**bib., bibe**

drink

**bid**

twice a day

**BI-RADS**

Breast Imaging-Reporting and Data System

**bis / bis in die, bis ind., bis indies**

twice / twice a day

**bis in 7 d., bis in septem diebus**

twice a week

**BM**

Bowel Motion

**BM**

Buccal Mucosa

**BMA**



British Medical Association <https://www.bma.org.uk/>

**BMD**

Bone Mineral Density

**BMI**

Body Mass Index

**BMIC**

Breast Milk Iodine Concentration

**BMJ**



British Medical Journal <https://www.bmj.com/>

**BNF**



British National Formulary <https://bnf.nice.org.uk/>

**BNFC**



British National Formulary for Children <https://bnfc.nice.org.uk/>

**BNO**

Bowels Not Open

**BNP**

B-type Natriuretic Peptide

**BO**

Bowels Open

**Bol., bolus**

as a large single dose (usually intravenously)

**BP**

Blood Pressure

**BP**



British Pharmacopoeia <https://www.pharmacopoeia.com/>

**BPA**

Bisphenol A

**BPC**



British Pharmaceutical Codex

**BPH**

Benign Prostatic Hyperplasia

**bpm**

beats per minute

**BPPV**

Benign Paroxysmal Postural Vertigo

**Br**

Bromine (chemical element)

**BRCA - BRCA1 and BRCA2**

Genes variants associated with breast and other cancers



**BSO**

Bilateral Salpingo-Oophorectomy

**b.t.**

bedtime

**BT**

Blood Test

**bucc., bucca**

Buccal / mouth or cheeks

**BTA**

British Thyroid Association <https://www.british-thyroid-association.org/>



**BTF**

British Thyroid Foundation <https://www.btf-thyroid.org/>



**BUCC**

buccal (inside cheek)

**BUN**

Blood Urea Nitrogen

**BVP**

Blood Volume Pulse (sensor)

**BW**

Body Weight

**Bx**

Behaviour

*x-code*

**Bx**

Biopsy

*x-code*

C

Carbon (chemical element)

C

Cysteine

@amino acid

C

Cytosine nucleobase (DNA and RNA)

@amino acid

C

Vitamin C or L-ascorbic acid, or ascorbate (the anion of ascorbic acid)

C

Celsius temperature (formerly widely called centigrade)

c

centi- a prefix meaning one hundredth, 1/100

**č, c., cum**

with (usually written with a bar on top of the "c")

**Ca**

Calcium (chemical element)

**CAD**

Coronary Artery Disease

**cAMP**

Cyclic AMP, Cyclic Adenosine Monophosphate

**CAP**

Controlled Attenuation Parameter

**cap., capiat**

let him take (let the patient take)

**cap., caps., capsula**

capsule

**CAS**

Clinical Activity Score

**CAT**

Computerised Axial Tomography

**CBC**

Complete Blood Count (aka Full Blood Count)

**CBD**

Cannabidiol

**CBL**

Cobalamin (vitamin B12)

**CBZ**

Carbimazole

**c/c**

chief complaint

**cc**

cubic centimetre

**c.c., cum cibo**

with food

**CCB**

Calcium channel blocker

**CCG**

Clinical Commissioning Group

**CCN3**

Cellular Communication Network factor3

**CCU**

Coronary Care Unit

**CD**

Coeliac Disease

**CD**

Controlled Drug



**CDB**

Cannabidiol

**CDC**

Centers for Disease Control and Prevention <https://www.cdc.gov/>



**CEA**

Carcinoembryonic antigen

**CeH**

Central Hypothyroidism

**cf.**

confer, compare

**CFS**

Chronic Fatigue Syndrome

**CGM**

Continuous Glucose monitoring Systems

**CGRP**

Calcitonin Gene-Related Peptide

**CH**

Central Hypothyroidism

**CH**

Congenital Hypothyroidism

**CHF**

Congestive Heart Failure

**CHM**

Commission on Human Medicines

<https://www.gov.uk/government/organisations/commission-on-human-medicines>



**CHT**

Congenital Hypothyroidism

**CI**

Confidence Interval

**cib., cibus**

food

**CK**

Creatine Kinase

**CKD**

Chronic Kidney Disease

**CKD-EPI**

Chronic Kidney Disease Epidemiology Collaboration (a formula for estimating Glomerular Filtration Rate)

**CKS**

Clinical Knowledge Summary (former NHS documents now in NICE)

<https://cks.nice.org.uk/>



**Cl**

Chlorine (chemical element)

**CLO**

Cod Liver Oil

**CLT**

Chronic Lymphocytic Thyroiditis

**c.m., cras mane**

tomorrow morning

## CMHN

Community Mental Health Nurse

## CMS

Chronic Medication Service (NHS Scotland)



## c.m.s., cras mane sumendum

to be taken tomorrow morning

## CMT

Charcot-Marie-Tooth disease

## CMV

Cytomegalovirus

## c.n., cras nocte

tomorrow night

## CNS

Central Nervous System

## CNS

Clinical Nurse Specialist

## c/o

complains of

## cochl., cochleare

spoonful

## cochl. ampl., cochleare amplum

an ample spoonful (a tablespoonful)

## cochl. infant., cochleare infantis

a small spoonful (a teaspoonful)

## cochl. mag., cochleare magnum

a large spoonful (a tablespoonful)

## cochl. mod., cochleare modicum

a modest spoonful (a dessert-spoonful)

## cochl. parv., cochleare parvum

a scant spoonful (a teaspoonful)

## colet., coletur

let it be strained

## COMA

Committee on Medical Aspects of Food Policy



## comp., compositus

compound

**COMT**

Catechol-O-methyltransferase

**contin., continuetur**

let it be continued

**COPD**

Chromic Obstructive Pulmonary Disease

**CoQ10**

Coenzyme Q10

**COVID-19**

Coronavirus disease 2019

**CPD**

Continuing Professional Development

**CPE**

Community Pharmacy England



**CPN**

Community Psychiatric Nurse

**cpt., capiat**

let him take (let the patient take)

**CQC**

Care Quality Commission <https://www.cqc.org.uk/>



**CRC**

Colorectal Cancer

**CrCl**

Creatinine Clearance

**CRH**

Corticotrophin-Releasing Hormone

**cr., CRM**

cream

**CRP**

C-reactive Protein

**CRS**

Cytokine Release Syndrome

**CSF**

Cerebrospinal Fluid

**cst**

continue same treatment

**CSU**

Catheter Stream Urine Sample

**CSVT**

Cerebral Sinus Vein Thrombosis

**CT**

Calcitonin

**CT**

Computed Tomography

**CT3M**

Circadian T3 Method (Paul Robinson)

**CTS**

Carpal Tunnel Syndrome

**Cu**

Copper (chemical element)

**cuj., cujus**

of which

**c.v., cras vespera**

tomorrow evening

**CVD**

CardioVascular Disease

**CVP**

Central Venous Pressure

**Cx**

Cancelled

*x-code*

**Cx**

Chest X Ray

*x-code*

**CXR**

Chest X-ray

**cyano**

Cyanocobalamin – a form of vitamin B12

**cyath., cyathus**

a glassful

**cyath. vinos., cyathus vinosus**

a wine-glassful

**Cys**

Cysteine

*@amino acid*

D

Aspartic acid

@amino acid

D, d., die

Day

D

Dextro (meaning: right)

D

Vitamin D (see Vitamins D2, D3 and D4)

D1, D2, D3

Deiodinase 1, 2 and 3 enzymes

D2

Vitamin D2 aka ergocalciferol

D3

Vitamin D3 aka colecalciferol/cholecalciferol

D4

Vitamin D4 aka 22-Dihydroergocalciferol

D5

Vitamin D5 aka sitocalciferol

da

give

Da

Dalton – the unit of atomic mass - 1/12 the mass of a carbon-12 atom.

DAO

D-Amino-Acid Oxidase

DAO

Diamine Oxidase

DAW

Dispense As Written (i.e., no generic substitution)

DBS

Deep Brain Stimulation

DC, dc, D/C, disc

discontinue

DDx

Differential Diagnosis

x-code

**decoc<sub>t</sub>., decoctum**

decoction

**DED**

Dry eye disease

**det., detur**

let it be given

**DEXA**

Dual-Energy X-ray Absorptiometry (now DXA)

**DHA**

Docosahexaenoic acid (an omega-3 fatty acid)

**DHEA**

Dehydroepiandrosterone, prasterone

**DHEAS**

Dehydroepiandrosterone sulfate

**DHSC**

Department of Health and Social Care

<https://www.gov.uk/government/organisations/department-of-health-and-social-care>



**DHT**

Dihydrotestosterone

**DI**

Diabetes Insipidus (renamed Arginine Vasopressin Deficiency or Resistance – see AVP-D and AVP-R)

**dieb. alt., diebus alternis**

every other day; on alternate days

**dil.**

dilute

**DIM**

Diindolylmethane

**dim., dimidius**

one-half

**DIN**

Drug Identification Number

**d. in p. æ., divide in partes æquales**

divide into equal parts

**DIO1, DIO2, DIO3**

Deiodinase 1, 2 and 3 enzymes and genes which code for them.



**Disp.**

dispersible / dispense

**DIT**

Destruction-Induced Thyrotoxicosis

**DIT**

Diiodotyrosine

**div., divide**

divide; let it be divided doses

**dL**

decilitre

**DLBCL**

Diffuse large B-cell lymphoma

**DM**

Diabetes Mellitus

**DMD, dm+d**

Dictionary of medicines and devices - a major NHS database.



**DNA**

deoxyribonucleic acid

**DNP**

Do Not Prescribe

**DO**

Doctor of Osteopathic Medicine

**DoH**

Department of Health (now Department of Health and Social Care - DHSC)



**dosis**

days

**DPF**

Dental Practitioners' Formulary <https://bnf.nice.org.uk/dental-practitioners-formulary/>



**dr**

Drachm

**DRV**

Dietary Reference Value

**DS**

Down's syndrome

**DS**

Double Strength

**DSM, DSM-5-TR**



Diagnostic and Statistical Manual of Mental Disorders Fifth Edition, Text Revision <https://www.psychiatry.org/psychiatrists/practice/dsm>

**d/t**

due to

**DTC**

Differentiated Thyroid Carcinoma

**d.t.d., dentur tales doses**

give of such doses

**DTE**

Desiccated Thyroid Extract (= Natural Desiccated Thyroid)

**DTO**

Deodorized Tincture Of Opium

**DUTCH**

Dried Urine Test for Comprehensive Hormones

**DVT**

Deep Vein Thrombosis

**DWP**



Department for Work and Pensions

**Dx**

Diagnosis

x-code

**Dx**

Discharged

x-code

**DXA**

Dual-energy X-ray absorptiometry (previously DEXA)

**Dz**

Disease / Diseases

**E**

↑ ToC

↓ End

↑ D

↓ F

**E**

Glutamate

@amino acid

↑ ToC

↓ End

Abbreviations & Acronyms

Page 23 of 83

**E**

Vitamin E – 8 fat-soluble compounds that include tocopherols and tocotrienols

**EAR**

Estimated Average Requirement (as of a nutrient)

**EB**

Epstein-Barr

**EBM**

Evidence-Based Medicine

**EBV**

Epstein-Barr virus

**EC**

Enteric-Coated (termed gastro-resistant in BP)

**EC NRV**

European Community Nutrient Reference Value

<https://www.efsa.europa.eu/en/topics/topic/dietary-reference-values>



**ECG**

Electrocardiogram

**ED**

Emergency Department

**EDA**

Electrodermal Activity (sensor)

**EDC**

Endocrine-Disrupting Chemicals

**EDS**

Ehlers-Danlos syndrome

**EEG**

Electroencephalogram

**EFA**

Essential Fatty Acid, a type of fatty acid

**eGFR**

Estimated Glomerular Filtration Rate

**EHIC**

European Health Insurance Card



**EKG**

Electrocardiogram

**ELGAN**

Extremely Low Gestational Age Neonate

**ELISA**

Enzyme-linked immunosorbent assay

**elix., elixir**

elixir

**EM**

Erythema Multiforme

**EM**

Erythromelalgia

**EMA**

Endomysial antibody

**EMA**

European Medicines Agency <https://www.ema.europa.eu/en>

**eMC**

electronic Medicines Compendium <https://www.medicines.org.uk/emc>

**EMG**

Electromyography

**e.m.p., ex modo prescripto**

as directed (in the manner prescribed)

**EMT**

Emergency Medical Technician

**EMU**

Early Morning Urine sample

**emuls., emulsum**

emulsion

**ENA**

Extractable Nuclear Antigens

**Endo**

Endocrinologist

**ENT**

Ear Nose and Throat

**EOD**

Every Other Day

**EOS**

Eosinophils (as in blood test).

**EOS**

End Of Shift

**EP**

Electrophysiologist

**EPA**

eicosapentaenoic acid (an omega-3 fatty acid)

**EPC**

Endothelial Progenitor Cells

**EPI**

Exocrine Pancreatic Insufficiency

**EPO**

Evening Primrose Oil

**ER**

Emergency Room

**ERCP**

Endoscopic Retrograde Cholangio Pancreatography

**ESR**

Erythrocyte Sedimentation Rate

**ESRD**

End Stage Renal Disease

**ESS**

Euthyroid Sick Syndrome

**ET**

Essential Thrombocythemia

**et**

and

**ETA**

European Thyroid Association <https://www.eurothyroid.com/>



**ETP**

Electronic Transfer of Prescriptions



**EUA**

Examination Under Anaesthetic

**EUPMC**

European PMC - Europe PubMed Central



**Ex**

Examination

**Ex**

Excision

**ex aq., ex aqua**

in water, with water

**exhib., exhibiatur**

let it be given

**F**
↑ ToC   ↓ End   ↑ E   ↓ G
**F**

Fluorine (chemical element)

**F**

@amino acid

Phenylalanine

**f., fiat, fiant**

Make, let it be made

**f.h., fiat haustus**

make a draught

**f.m., fiat mistura**

make a mixture

**FAD**

Flavin Adenine Dinucleotide

**FAQ**

Frequently Asked Questions

**FBC**

Full Blood Count (aka Complete Blood Count)

**f/c**

film-coated

**FCH**

Familial combined hyperlipidaemia

**FCS**

Familial chylomicronaemia syndrome

**FDA**Food and Drugs Administration <https://www.fda.gov/>**FDG**

fluorodeoxyglucose

↑ ToC↓ EndAbbreviations & Acronyms

Page 27 of 83

**FDG-PET**

Positron emission tomography using fluorodeoxyglucose

**FDH**

Familial Dysalbuminaemic Hyperthyroxinaemia

**Fe**

Iron (chemical element)

**FET**

Frozen Embryo Transfer

**FFA**

Free Fatty Acid

**FH**

Familial Hypercholesterolemia

**Fibro**

Fibromyalgia

**FIT**

Faecal Immunochemical Test

**FK**

Farmacotherapeutisch Kompas (Pharmacotherapeutic Compass) <https://www.farmacotherapeutischkompas.nl>

**fl**

Fluid (as in measures)

**fl., fld., fluidus**

fluid (usually meaning specifically liquid in health care)

**FM**

Fibromyalgia

**FMH**

Family Medical History

**FMN**

Flavin mononucleotide

**FMRI**

Functional Magnetic Resonance Imaging

**FMT**

Faecal Microbiota Transplant

**FNA**

Fine Needle Aspiration

**FNAB**

Fine Needle Aspiration Biopsy

**FNB**

Fine Needle Aspiration Biopsy

**FND**

Functional Neurological Disorder

**FOB/FOBT**

Faecal Occult Blood Test

**FODMAP**

Fermentable Oligosaccharides, Disaccharides, Monosaccharides And Polyols

**f. pil/fiant pilulae**

make a pill

**f.s.a., fiat secundum artem**

make according to art

**FSH**

Follicle Stimulating Hormone

**ft., fiat**

make; let it be made

**FT3**

Free T3

**FT3I**

Free T3 Index

**FT4**

Free T4

**FT4I**

Free T4 Index

**FTC**

Follicular Thyroid Carcinoma

**FTI**

Free Thyroxine Index (aka T7)

**FTP**

Fitness To Practice

**Fx**

Fracture

*x-code*

**FY1, FY2**

Foundation Year 1 or 2 doctor

**FYI**

For Your Information

G	Glycine
g	gram
G	guanine nucleobase (DNA and RNA)
GA	General Anaesthesia/A Anaesthetic
GABA	Gamma-AminoButyric Acid, $\gamma$ -aminobutyric acid
garg., gargarisma	gargle
GB/GBS/ GBV	Guillain-Barré / Syndrome / Virus
GCA	Giant Cell Arteritis
GD	Graves' Disease
GED	Graves' Eye Disease
GERD	Gastro-Esophageal Reflux Disease (see also GORD)
GET	Graded Exercise Therapy
GF	Gluten Free
GFR	Glomerular Filtration Rate
GGT	Gamma-Glutamyl Transferase
GH	Growth Hormone
GHD	Growth Hormone Deficiency

@amino acid

**GHIC**

Global Health Insurance Card

**GI**

Gastrointestinal

**GI**

Glycaemic Index

**GIG**

Gwasanaeth Iechyd Gwladol (NHS in Wales) <http://www.wales.nhs.uk/>

**Gln**

Glutamine

@amino acid

**GLP-1**

Glucagon-like peptide 1

**GLP1-RA**

Glucagon-Like Peptide-Receptor Agonists 1

**Glu**

Glutamic acid

@amino acid

**Gly**

Glycine

@amino acid

**GMC**

General Medical Council <https://www.gmc-uk.org/>

**GO**

Graves' Ophthalmopathy (aka Graves' orbitopathy)

**GORD**

Gastro-Oesophageal Reflux Disease (see also GERD)

**GP**

General Practitioner

**GPC**

Gastric Parietal Cell

**GPCab**

Gastric Parietal Cell antibodies

**gr**

grain

**gr., granum**

grain



General Sales List (medicines category)

Gestational Trophoblastic Disease

Global Trade Item Number

Glyceryl trinitrate

Glucose Tolerance test

drop(s)

**H**

**ToC**    **End**    **G**

**I**

**H**

Histidine

@amino acid

**H**

Hydrogen (chemical element)

**H**

hypodermic

hour

History and Physical

H2-receptor Antagonist

H2-receptor Antagonist

let him have

Haemoglobin

glycosylated Haemoglobin (Haemoglobin A1c)

Homocysteine

**ToC**

**End**

**Abbreviations & Acronyms**

Page 32 of 83

**HC**

Hydrocortisone

**HCA**

HealthCare Assistant

**hCG**

human Chorionic Gonadotropin

**HCM**

Hypertrophic CardioMyopathy

**HCS**

Homocysteine

**HCSW**

HealthCare Support Worker

**Hct**

Haematocrit

**HDL**

High Density Lipoprotein

**HDU**

High Dependency Unit

**HE**

Hashimoto's Encephalopathy

**HEIW**

Health Education and Improvement Wales



**HF**

Heart Failure

**HGF**

Hepatocyte growth factor

**HGH**

Human Growth Hormone

**HH**

Hiatus Hernia

**His**

Histidine

@amino acid

**HMPV**

human metapneumovirus

**h/o**

history of

**HO<sub>C</sub>bl**

Hydroxocobalamin (hydroxo form of vitamin B12)

**HoloTC**

Holotranscobalamin (Active B12)

**hor. alt., hora alternis**

every other hour (every second hour; at alternate hours)

**hor. decub., hora decubitus**

at bedtime

**hor. Intermed., horis intermediis**

at intermediate hours

**hor. tert., horis tertii**

every third hour

**HP**

Helicobacter Pylori

**HPA**

Hypothalamus-Pituitary-Adrenal axis

**HPG**

Hypothalamus-Pituitary-Gonadal axis

**HPT**

Hyperparathyroidism

**HPT**

Hypothalamus-Pituitary-Thyroid axis

**HPTB**

HPT + body axis (Hypothalamus, Pituitary, Thyroid, Body Conversion).

**HR**

Heart Rate

**HRT**

Hormone Replacement Therapy (almost exclusively used for menopause treatment)

**HS**

High Sensitivity (often prefixed or suffixed to test names), often lower-case.

**h.s., hora somni**

at bedtime [or] half-strength (at the hour of sleep)

**HSA**

Human Serum Albumin

**ht**

height

**HT**

Hashimoto's Thyroiditis

**HT**

Hyperthyroid

**HT**

Hypothyroid

**HTN**

Hypertension

**HU**

Health Unlocked <https://healthunlocked.com/>

**HV**

Health Visitor

**Hx**

History

*x-code*

**hydroxo**

Hydroxocobalamin – a form of vitamin B12

**Hyper**

Hyperthyroidism – low TSH level/high thyroid hormone

**Hypo**

Hypothyroidism – high TSH level/low thyroid hormone

**I**

↑ ToC

↓ End

↑ H

↓ J

**I**

Iodine (chemical element)

**I**

Isoleucine

@amino acid

**i, unus tabuletta**

one tablet

**I<sub>123</sub>, I<sub>123</sub>**

The 123 radioactive isotope of Iodine

**I<sub>131</sub>, I<sub>131</sub>**

The 131 radioactive isotope of Iodine

**IBW**

Ideal Body Weight (for dosing based on clearance estimation)

**IC**

Interstitial cystitis

↑ ToC

↓ End

Abbreviations & Acronyms

Page 35 of 83



**ICB**

Integrated Care Board (England)

**ICCIDD**

International Council for Control of Iodine Deficiency Disorders  
(renamed as Iodine Global Network)

**ICD**

Implantable cardioverter defibrillator

**ICD, ICD-11-CM**

International Classification of Diseases, Eleventh Revision, Clinical Modification

<https://www.who.int/classifications/classification-of-diseases>

**ICE**

Integrated Clinical Environment

**ICM**

iodinated Contrast Media

**ICS**

Integrated Care System (England)



**ICU**

Intensive Care Unit

**ID**

intradermal

**I.D.**

Inner Diameter

**IDA**

Iron-Deficiency Anaemia

**iDAPs**

interactive Drug Analysis Profiles

Interactive Drug Analysis Profiles (iDAPs)

**IDD**

International Council for Control of Iodine Deficiency Disorders  
(renamed as Iodine Global Network)

**IF**

Intrinsic Factor

**IFA**

Intrinsic Factor antibodies

**IFab**

Intrinsic Factor antibodies

**Ig, IgA, IgD, IgE, IgG, IgM**

Immunoglobulin, Immunoglobulin A, D, E, G or M

**IGF, IGF-1, IGF-2, ...**

Insulin-like Growth Factor

two cell-surface receptors (IGF1R and IGF2R)

two ligands (Insulin-like growth factor 1 (IGF-1) and (IGF-2))

**IGFBP**

IGF-Binding Proteins 1 to 7

**IGN**

Iodine Global Network (formerly ICCIDD) <https://ign.org/about/>

**IHD**

Ischaemic Heart Disease

**ii, duo tabuletta**

two tablets

**iii, tres tabuletta**

three tablets

**IJ, inj., injectio**

injection

**IL**

Interleukin

**IL-1, IL-2, ...**

Interleukin 1, 2, etc. through 36

**Ille**

Isoleucine

@amino acid

**IM**

Intramusculari., intramuscular

**IMO**

Intestinal Methanogen Overgrowth

**IN**

intranasal

**ind., indies**

daily

**inf., infusum**

infusion (extraction) / intravenous infusion

**INN**

International Non-proprietary Name

(aka recommended International Non-proprietary Name)

<b>INR</b>	international normalised ratio (of prothrombin clotting)
<b>IO</b>	intraosseous
<b>IP</b>	intraperitoneal
<b>IR</b>	Immediate Release
<b>IRD</b>	Inner Ring Deiodination
<b>IT</b>	intrathecal
<b>ITA</b>	Inferior Thyroid Artery
<b>ITP</b>	Idiopathic thrombocytopenic purpura (aka Immune thrombocytopenic purpura)
<b>ITSHD</b>	Isolated TSH deficiency
<b>ITT</b>	Insulin Tolerance Test
<b>ITT</b>	Improve Thyroid Treatment (UK forum) 
<b>IU</b>	International Unit
<b>IV</b>	Intravenous, iv.
<b>IVI</b>	intravenous infusion
<b>IVP</b>	intravenous pyelogram
<b>IVPB</b>	intravenous piggyback
<b>IVF</b>	In-vitro fertilisation
<b>Ix</b>	Investigation(s) <i>x-code</i>

**JAK**

Janus kinase

**JDTLYF**

Jiedutongluo Tiaoying Formula

**JTI**

Jostel's TSH index (aka TSHI)

**k**

kilo- (unit prefix for a thousand – 1,000)

**K**

Lysine

@amino acid

**K**

Potassium (Kalium) – (chemical element)

**K**

Vitamin K

**K1**

Vitamin K1 Phylloquinone, phytomenadione or phytonadione

**K2**

Vitamin K2 (the menaquinones)

**K2-MK7**

Vitamin K2 – menaquinone-7

**kDa**

kilo Dalton

**KI**

Potassium Iodide

**L**

Laevo / Levo / L- (meaning: left)

**L**

Leucine

@amino acid

**I**

Litre

**LA**

Local Anaesthesia

**LADA**

Latent Autoimmune Diabetes of Adulthood

**LAT**

L-Type Amino Acid Transporter

**lat. dol., lateri dolenti**

to the painful side

**LATS**

Long-Acting Thyroid Stimulator

**las**

label as such

**LAVH**

Laparoscopic-Assisted Vaginal Hysterectomy

**Ib., libra**

Pound (weight) – also lb (called L B Bar symbol)

**LBD**

Lewy Body Dementia

**LC**

Long Covid

**I.c.d., liquor carbonis detergens**

coal tar solution

**LCFH**

low carbohydrate, high fat (usually used to describe an approach to diet)

**LDH**

lactate dehydrogenase (an enzyme and the blood test for that enzyme)

**LDL**

Low Density Lipoprotein

**LDN**

Low Dose Naltrexone

**Leu**

Leucine

@amino acid

**Levi**

A common mistaken reference to levothyroxine (Levo) often caused by auto-correct software.

**Levo**

Colloquial reference to Levothyroxine

**LFT**

Liver Function Test

**LH**

Luteinising Hormone

**Li**

Lithium (chemical element)

**LID**

Low Iodine Diet

**lin, linimentum**

liniment

**Lio**

Colloquial reference to Liothyronine

**liq.**

liquor, solution

**LLQ**

Left Lower Quadrant

**LMP**

Last Menstrual Period

**lot., lotio**

lotion

**LP**

Lumbar Puncture

**Lp(a)**

Lipoprotein (a)

**LPR**

Laryngopharyngeal Reflux

**LQTS**

Long QT syndrome

**LSM**

Liver Stiffness Measurement

**LST**

Long Synacthen Test

**LT3 / L-T3**

Liothyronine

**LT4 / L-T4**

Levothyroxine

**LTC**

Long Term Condition

**LTHY**

Thyroid Function Test (ICE Code)

**LUQ**

Left Upper Quadrant

**LVH**

Left Ventricular Hypertrophy

**Lx**

Lower extremity

*x-code*

**Lx**

Lumpectomy

*x-code*

**Lymphs**

Lymphocytes

**Lys**

Lysine

*@amino acid*

**M**

↑ ToC    ↓ End    ↑ L    ↓ N

**m**

milli- (unit prefix for one thousandth, 1/1000)

**M**

mega- (unit prefix for a million – 1,000,000)

**M**

Methionine

*@amino acid*

**M., m., misce**

mix

**MA**

Marketing Authorisation

**MAH**

Marketing Authorisation Holder



**mane**

in the morning

**MASH**

metabolic (formerly non-alcoholic - NASH) steatohepatitis

**MASLD**

Metabolic Dysfunction-Associated Steatotic Liver Disease

↑ ToC    ↓ End

Abbreviations & Acronyms

Page 42 of 83

**MAT**

Microsomal Antibodies Test (former name of Thyroid Peroxidase antibodies)

**max., maximum**

maximum

**mc**

micro- (unit prefix for one millionth, 1/1,000,000 )

**MCA/MCAs**

Multi-Compartment Compliance Aid(s)

**MCAS**

Mast Cell Activation Syndrome

**MCC**

Microcrystalline Cellulose

**mcg**

microgram

**MCH**

Mean Corpuscular Haemoglobin

**MCHC**

Mean Corpuscular Haemoglobin Concentration

**MCT8, 10**

Methylcarboxylate transporter 8, 10

**MCTD**

Mixed Connective Tissue Disease

**MCV**

Mean Corpuscular Volume = Mean Cell Volume

**MD**

Doctor of Medicine

**MDT**

Multidisciplinary Team

**m.d.u., more dicto utendus**

to be used as directed

**ME**

Myalgic Encephalopathy/ Myalgic Encephalomyelitis

**MeCBL**

Methylcobalamin (methyl form of vitamin B12)

**MEN/MENS**

hereditary Multiple Endocrine Neoplasia syndrome (sometimes with a type number)

**Met**

Methionine

**methyl**

Methylcobalamin – a form of vitamin B12

**MF**

Myelofibrosis

**Mg**

Magnesium (chemical element)

**mg**

milligram

**MG**

Myasthenia Gravis

**MGD**

Meibomian Gland Dysfunction

**MGUS**

Monoclonal Gammopathy of Undetermined Significance

**MH**

Mental Health

**MHC**

Major Histocompatibility Complex

**MHRA**

Medicines and Healthcare Products Regulatory Agency

<https://www.gov.uk/government/organisations/medicines-and-healthcare-products-regulatory-agency>**MI**

Myocardial Infarction

**midi**

at midday

**miDNA**

microDNA

**min**

Minim (fluid measure)

**min., minimum [or] minim [or] minutum**

minimum [or] minim [or] minute

**mist., mistura**

mixture

**MIT**

Monoiodotyrosine

**mit., mitt., mitte**

number of tablets provided

**mIU**

milli-International Unit

**mL**

millilitre

**MMA**

Methylmalonic acid

**MMH**

Monitor My Health

**mmHG**

millimetres of mercury

**mmol**

millimole

**Mn**

Manganese (chemical element)

**MNG**

Multi-nodular Goitre

**MNP**

Myeloproliferative neoplasm

**MNYES**

Medically Not Yet Explained Symptoms

**MO**

Medicines Optimisation

**mod. præscript., modo præscripto**

in the manner directed

**MPN**

Myeloproliferative neoplasm

**MPV**

Mean Platelet Volume

**MR, m/r**

Modified release

**MRI**

Magnetic Resonance Imaging

**mRNA**

messenger RNA

**MRSA**

Methicillin Resistant Staphylococcus Aureus

**MS**

Multiple Sclerosis

**MSA**

Multiple System Atrophy

**MSK**

Musculo-skeletal

**MSM**

methylsulfonylmethane

**MSU**

Mid-Stream Urine Sample

**MTC**

Medullary Thyroid Carcinoma

**mtDNA**

Mitochondrial DNA

**MTHFR**

methylenetetrahydrofolate reductase (NAD(P)H) or the gene that codes for this enzyme

**mU**

milli-International Unit

**MUS**

Medically-Unexplained-Symptoms

**MVP**

Mitral valve prolapse

**Mx**

Massage

x-code

**Mx**

Mastectomy

x-code

**Mx**

Multiple

x-code

n

nano- (unit prefix for millionth, 1/1,000,000,000)

N

Asparagine

@amino acid

N

Nitrogen (chemical element)

n/a

not applicable

NA

No Action

NA

Nutri-Adrenal (brand name)

Na

Sodium (Natrium) (chemical element)

NAC

Acetylcysteine, aka N-acetylcysteine or N-acetyl-L-cysteine (NAC)



NACB

National Academy of Clinical Biochemistry <https://www.aacc.org/>

NAD

Nothing Abnormal Detected (or Discovered)

NAD / NAD+

Nicotinamide Adenine Dinucleotide

NAFLD

Non-Alcoholic Fatty Liver Disease

NAI

Non-Accidental Injury

NASH

Non-Alcoholic (now metabolic) SteatoHepatitis

NAX

Nutri-Adrenal Extra

NBM

Nil By Mouth

NCBI

National Center for Biotechnology Information



**NCGS**

Non-Coeliac Gluten Sensitivity

**NCS**

National Care Service

**ND**

Naturopathic Doctor

**NDC**

National Drug Code

<https://www.fda.gov/drugs/drug-approvals-and-databases/national-drug-code-directory>

**NDT**

Natural Desiccated Thyroid (= Desiccated Thyroid Extract)

**nebul, neb., nebula**

a spray (such as for insufflation)- nebuliser

**NED**

No Evidence of Disease

**NEFA**

Non-Esterified Fatty Acid

**NET/NETs**

NeuroEndocrine Tumours

**NF1 / NF2**

Neurofibromatosis 1 or 2

**ng**

nanogram

**NG**

nasogastric

**NHANES**

National Health and Nutrition Examination Survey

<https://www.cdc.gov/nchs/nhanes/index.htm>

**NHL**

Non-Hodgkin lymphoma

**NHS**

National Health Service <https://www.nhs.uk/>

**NHSE&I**

NHS & NHS Improvement <https://www.england.nhs.uk/about/>





National Institute for Clinical Excellence <https://www.nice.org.uk/>

**NIDDM**

Non-insulin dependent diabetes mellitus

**NIFTP**

noninvasive follicular thyroid neoplasm with papillary-like nuclear features

**NIH**

National Institutes of Health <https://www.nih.gov/>

**NIHR**

National Institute for Health and Care Research

**NIS**

Sodium Iodide Symporter

**NK**

Natural Killer Cells

**NKA**

No Known Allergies

**nL**

nanolitre

**NLT**

Not Less Than

**NMN**

Nicotinamide mononucleotide

**nmol**

nanomole

**NMR**

Nuclear Magnetic Resonance (the physical phenomenon behind Magnetic Resonance Imaging)

**NMT**

not more than

**NNH**

Number Needed to Harm

**NNT**

Number Needed to Treat

**NOAF**

new-onset atrial fibrillation/flutter

**noct., nocte**

every night / at night

**NoF**

neck of femur

**non rep., non repetatur**

no repeats (no refills)

**NPF**

Nurse Prescribers' Formulary

<https://bnf.nice.org.uk/nurse-prescribers-formulary/>



**NPO, n.p.o.**

nil per os / nothing by mouth / not by oral administration

**NRV**

Nutrient Reference Value

**NS**

Normal Saline (0.9%)

**NSAID**

Non-Steroidal Anti-Inflammatory Drug

**NSVT**

Non-Sustained Ventricular Tachycardia

**NTD**

Neural Tube Defect

**NTE**

Not To Exceed

**NTI**

Non-Thyroidal Illness

**NTIS**

Non-Thyroidal Illness Syndrome

**NWSSP**

NHS Wales Shared Services Partnership



**O**

↑ ToC

↓ End

↑ N

↓ P

**O**

Oxygen (chemical element)

**O**

Pyrrolysine

@amino acid

↑ ToC

↓ End

Abbreviations & Acronyms

Page 50 of 83

**o 2, o2**

both eyes

**OA**

Osteoarthritis

**OAB**

Overactive Bladder

**OAT**

Over-Active Thyroid

**OATP1, OATP1C, etc.)**

Organic Anion Transporting Polypeptides

**OATs**

organic anion transporters

**OATS**

Organic Acid Test

**od, o.d., omni die**

every day / once daily

**o.d., oculus dexter**

right eye

**O.D.**

Outer Diameter

**ODF/ODFs**

Oral Dissolving Film strip

**o/e**

on examination

**OGTT**

Oral Glucose Tolerance Test

**OLS**

Own Label Supplier

**om, o.m., omni mane**

omni mane / every morning

**omn. bih., omni bihora**

every 2 hours

**omn. hor., omni hora**

omni hora / every hour

**on, o.n., omni nocte**

omni nocte / every night)

**OOH**

Out of Hours

**OP**

Original Poster – of a question or post

**OPD**

once per day

**OR**

Odds Ratio

**ORD**

Outer Ring Deiodination

**o.s., oculus sinister**

left eye

**OSA**

Obstructive Sleep Apnoea

**OT**

Occupational Therapist

**OTC**

Over-The-Counter medicine (not a formal category in the UK)

**o.u., oculus uterque**

both eyes

**oz**

Ounce (unit of weight or fluid - not apothecaries' measure)

**P**

↑ ToC    ↓ End    ↑ O    ↓ Q

**P**

Pharmacy-only medicine (medicines category)

**P**

Phosphorus (chemical element)

**p**

picos- (unit prefix for trillionth, 1/1,000,000,000,000)

**P**

Proline

@amino acid

**p., perstetur**

continue

**þ**

After

↑ ToC

↓ End

Abbreviations & Acronyms

Page 52 of 83

**P5P**

Pyridoxal 5'-Phosphate (vitamer of vitamin B6)

**PA**

Pernicious Anaemia

**PA**

Physician Assistant

**PA**

Posterior Anterior

**PABA**

4-Aminobenzoic acid (aka Para-AminoBenzoic Acid)

**PAC**

Premature Atrial Contractions

**PAH**

Pulmonary Arterial Hypertension

**PALS**

Patient Advice and Liaison Services



**PAPIG**

Patient and Public Interest Group

**PAR**

Public Assessment Report



**part. æq., partes æquales**

equal parts

**PAS**

Pernicious Anaemia Society <https://pernicious-anaemia-society.org/>

**PBC**

Primary Biliary Cirrhosis

**PBI**

Protein-bound Iodine

**p/c**

presenting complaint

**PC**

Parietal Cell

**p.c., post cibum, post cibe**

after food

**PCA**

Parietal Cell antibodies

**PCab**

Parietal Cell antibodies

**PCAB**

Potassium Competitive Acid Blockers

**p.c.h.s., pc&hs, post cibum et hora somni**

after meals and at bedtime

**PCOS**

Polycystic ovary syndrome

**PCP**

Primary Care Physician

**PCN**

Penicillin

**PCR**

Polymerase Chain Reaction

**PCT**

Primary Care Trust

**PD**

Parkinson's Disease

**PEM**

Post-Exertional Malaise

**per**

by or through

**PESE**

Post Exertion Symptom Exacerbation

**PET**

Positron Emission Tomography

**PF**

Plantar Fasciitis

**pg**

picogram (trillionth, 1/1,000,000,000,000, of a gram)

**Ph. Eur.**

European Pharmacopoeia

<https://www.edqm.eu/en/European-Pharmacopoeia-Background-Mission>



**PHA**

Public Health Agency (Northern Ireland)

<https://www.publichealth.hscni.net/>

**Phe**

@amino acid

Phenylalanine

**PHE**



Public Health England <https://www.gov.uk/government/organisations/public-health-england>

**PHN**

PostHerpetic Neuralgia

**PHS**



Public Health Scotland <https://publichealthscotland.scot/>

**PHTP**

Post-traumatic hypopituitarism

**PHW**



Public Health Wales <https://phw.nhs.wales/>

**physio**

physiotherapist

**PIC**

Punctate Inner Choroidopathy

**PID**

Pelvic Inflammatory Disease

**pig., pigm., pigmentum**

paint

**PIL**

Patient Information Leaflet

**PKA**

Protein Kinase A

**pL**

picolitre (trillionth, 1/1,000,000,000,000, of a litre)

**PL**

Product Licence

**PL**

Prolactin

**Platelet**

Platelet count - number of platelets in a given volume of blood.

**PLEX**

plasmapheresis

**PLMD**

Periodic limb movement disorder

**PLP**

Pyridoxal Phosphate

**pm, p.m., post meridiem**

after noon or evening

**PM**

Private Message

**PMC**

PubMed Central or PubMed Central identifier

**PMDD**

Premenstrual dysphoric disorder

**PMID**

PubMed Identifier

**pmol**

picomole

**PMR**

Polymyalgia rheumatica

**PN**

Peripheral Neuropathy

**PND**

Post nasal drip

**PND**

Post-natal depression

**PNT**

Patient

**po, p.o., per os**

by mouth / orally / oral administration

**POI**

Premature Ovarian Insufficiency

**POM**

Prescription Only Medicine (medicines category)

**POP**

Plaster Of Paris

**POTS/PoTS**

Postural tachycardia syndrome

**PP**

Postpartum

**PPD**

Postpartum Depression

**PPG**

Photoplethysmography (sensor)

**PPI**

Proton Pump Inhibitor

**PPPD**

Persistent Postural Perception disorder

**PPT**

Postpartum Thyroiditis

**PPT**

Postpartum Thyrotoxicosis

**ppt., præparata**

prepared

**pr, p.r., PR, per rectum**

rectally

**PRES**

Postural Reversible Encephalopathy Syndrome

**PRF**

Pulse Radio Frequency

**PRL**

Prolactin

**p.r.n., PRN, pro re nata**

when required

**Pro**

Proline

@amino acid

**PSA**

Prostate Specific Antigen

**PSVT**

Paroxysmal Supraventricular Tachycardia

**PT**

Partial Thyroidectomy

**Pt**

patient

**PT**

Prothrombin Time

**pt., perstetur**

continue

**PTC**

Papillary Thyroid Carcinoma

**PTH**

Parathyroid Hormone

**PTHC**

Peripheral Thyroid Hormone Conversion

**PTHP**

Parathyroid Hormone-related Protein

**PTSD**

Posttraumatic Stress Disorder

**PTT**

partial thromboplastin time

**PTU**

Propylthiouracil

**PU**

Passed Urine

**pulv., pulvis**

powder

**p.v., PV, per vaginam**

vaginally

**PV**

Polycythaemia Vera/Polycythemia Vera

**PV**

Plasma Viscosity

**PVCs**

Premature Ventricular Contractions

**PVF**

Primary Ventricular Fibrillation

**PVFS**

Post Viral Fatigue Syndrome

**PVP**

Polyvinylpyrrolidone aka polyvidone or povidone

**PVN**

Paraventricular Nucleus

**PWAG**

people avoiding gluten without celiac disease

**Px, R**

Prescription

x-code

**PX**

Procedure Code

x-code

**Px**

Prognosis

x-code

**Px**

Physical examination

x-code

**Pyl**

Pyrrolysine

@amino acid

**Q**

↑ ToC

↓ End

↑ P

↓ R

**q, quaque**

every, per

**Q**

Glutamine

@amino acid

**q.1 h, q.1, quaque 1 hora**

every 1 hour (can replace "1" with other numbers)

**q4PM**

at 4 pm (can replace "4" with other numbers)

**q.a.d., quaque alternis die**

every other day

**QALY**

Quality-adjusted life year

**q.a.m., quaque die ante meridiem**

every morning (every day before noon)

**q.d., q.1.d., quaque die**

every day

**q.d.a.m., quaque die ante meridiem**

once daily in the morning

**q.d.p.m., quaque die post meridiem**

once daily in the evening

↑ ToC

↓ End

Abbreviations & Acronyms

Page 59 of 83

**qds, q.d.s., quater die sumendus, quater die sumendum**  
four times daily

**q.h., quaque hora**  
every hour

**q.h.s., quaque hora somni**  
every night at bedtime

**qid, q.i.d., qid, quater in die**  
quater in die (four times each day)

**q.l., quantum libet**  
as much as is requisite

**q.n., quaque nocte**  
every night

**q.o.d., quaque altera die**  
every other day

## **QOF**



Quality and Outcomes Framework

## **QoL**

Quality of Life

**q.p.m., quaque die post meridiem**  
every evening (every day after noon)

**q.q., quaque**  
every; each

**qqh**  
quarta quaque hora (every hour hours)

**q.s., quantum sufficiat (subjunctive), quantum sufficit (indicative), quantum satis**  
as much as suffices; a sufficient quantity

**q.s.a.d**  
add up to

**QUIS**  
quantitative ultrasound

**q.v., quantum volueris**  
at will

**q.v., quod vide**  
which see

**QWK**  
every week

**R**

Arginine

@amino acid

**RA**

Rheumatoid Arthritis

**RAAS**

Renin-Angiotensin-Aldosterone System

**RAE**

Retinol Activity Equivalents

**RAI**

Radio-active Iodine (or I-131 or I-123)

**RAIA**

Radio-active Iodine Ablation

**RAIU**

Radio Active Iodine Uptake

**RBC**

Red Blood Cell

**RBC**

Red Blood Cell Count

**RCC**

Red Cell Count

**RCGP**Royal College of General Practitioners <https://www.rcgp.org.uk/>**RCP**Royal College of Physicians <https://www.rcplondon.ac.uk/>**RCP**

Le résumé complet des caractéristiques du produit. Equivalent to Summary of Product Characteristics.

**RDA**

Recommended Dietary Allowance (as of a nutrient)

**RDW**

Red Cell Distribution Width

**REMS**

Radiofrequency Echographic Multispectrometry

**rep., rept., repetatur**

let it be repeated, repeats

**RF**

Rheumatoid Factor

**RFA**

Radio-Frequency Ablation

**RH**

Radical Hysterectomy

**rhGH**

recombinant Human Growth Hormone

**RHR**

Resting Heart Rate

**rhTSH**

recombinant human TSH (Thyrogen)

**RI**

Reference Interval

**RI**

Recommended Intake (as of a nutrient)

**RIA**

Radio-active Iodine Ablation

**RIA**

Radio-iodine assay

**rINN**

Recommended International Non-proprietary Name

**RIT**

Radioiodine treatment

**RLN**

Recurrent Laryngeal Nerve

**RLQ**

Right Lower Quadrant

**RLS**

Restless Leg Syndrome

**RMOC**

Regional Medicines Optimisation Committee

**RN**

Registered Nurse



**RNA**

ribonucleic acid

**RNLD**

learning disability nurse

**r/o**

rule out

**ROM**

Range Of Motion

**ROSC**

Return Of Spontaneous Circulation

**RR**

Reference Range

**RRMS**

Relapsing-Remitting Multiple Sclerosis

**rRNA**

Ribosomal RNA

**r/t**

related to

**rT3**

Reverse T3

3,3',5'-Triiodo-L-thyronine

3,3',5'-Triiodothyronine

Reverse triiodothyronine

**rT3S**

Reverse T3 Sulphate

**RTA**

Road Traffic Accident

**RTH**

Resistance to Thyroid Hormone

**RUQ**

Right Upper Quadrant

**RVR**

Rapid Ventricular Response

**Rx**

Pharmacy

**Rx**

Referral

*x-code*

*x-code*

Right

## Rx or R, Rp, recipe

Recipere; Prescription – “Take this” – Treatment, take

**S**

↑ ToC

↓ End

↑ R

↓ T

**S**

@amino acid

Serine

**S**

Sulphur/Sulfur (chemical element)

**s.**, **signa**

write (write on the label)

**ſ**, **sine**

without (usually written with a bar on top of the "s")

**s.a.**, **secundum artem**

according to the art (accepted practice or best practice)

**SACDSC**

Subacute combined degeneration of spinal cord

**SACN**

Scientific Advisory Committee on Nutrition



**SAD**

Seasonal Affective Disorder

**SADC**

Subacute combined Degeneration of spinal Cord

**SAH**

Subtotal Abdominal Hysterectomy

**SAH**

Supracervical Abdominal Hysterectomy

**SAMe**

S-Adenosyl-L-Methionine

**SAR**

Subject Access Request

**SARS**

Severe Acute Respiratory Syndrome

**SARS-CoV-2**

Severe acute respiratory syndrome coronavirus 2

↑ ToC

↓ End

Abbreviations & Acronyms

Page 64 of 83

<b>SAT</b>	Subacute Thyroiditis	
<b>SATs</b>	Oxygen saturation	
<b>SC</b>	Sub-clinical	
<b>SC</b>	Subcutaneous	
<b>SCM</b>	Sternocleidomastoid muscle	
<b>Se</b>	Selenium (chemical element)	
<b>Se</b>	Serum	
<b>Sec</b>	Selenocysteine	@amino acid
<b>sem.</b>	semen, seed	
<b>Ser</b>	Serine	@amino acid
<b>SERM</b>	Selective Estrogen Receptor Modulator	
<b>SFN</b>	Small Fibre Neuropathy	
<b>SGLT</b>	Sodium Glucose Co-Transporter	
<b>SHBG</b>	Sex Hormone-Binding Globulin	
<b>SI</b>	Self Injection	
<b>SI</b>	Stress Incontinence	
<b>SIADH</b>	Syndrome of Inappropriate Antidiuretic Hormone Secretion	
<b>SIBO</b>	Small Intestinal Bacterial Overgrowth	

**s.i.d., semel in die**

once a day

**sig., signa, signetur**

write (write on the label)

**sing., singulorum**

of each

**SL, s.l., sub lingua**

sublingually, under the tongue

**SLD**

Steatotic liver disease

**SLE**

Systemic Lupus Erythematosus

**SLS**

Sodium Lauryl Sulfate

**SLT**

Speech and Language Therapist

**SMA**

Anti-Smooth Muscle Antibody

**SMC**

Scottish Medicines Consortium <https://www.scottishmedicines.org.uk/>



**SmPC**

Summary of Product Characteristics (often just SPC)

**SNOMED CT**

Systematized Nomenclature of Medicine – Clinical Terms

<https://digital.nhs.uk/services/terminology-and-classifications/snomed-ct>



**SNP**

Single-Nucleotide Polymorphism

**SNRI**

Serotonin–Norepinephrine Reuptake Inhibitor

**SNRT**

Sinus Node Recovery Time

**SNRT**

Sinus Nodal Reentrant Tachycardia

**SO**

Struma Ovarii

**SO2 / SO2**

Oxygen Saturation

**SOB**

Shortness Of Breath

**sol., solutio**

solution

**SORSHOT**

Syndrome of residual symptoms of hypothyroidism on T4.

**s.o.s., si op. sit, si opus sit**

if there is a need

**SOX**

Sulfite oxidase

**s/p**

status post

**SPC**

Summary of Product Characteristics

**SPECT**

Single Positron Emission Computed Tomography

**SpR**

specialist registrar

**SPS**

Specialist Pharmacy Service <https://www.sps.nhs.uk/>



**SQ**

Subcutaneous

**SR**

Sustained Release / Slow Release

**SREAT**

Steroid-Responsive Encephalopathy with Associated Thyroiditis

**SS**

Sjögren's syndrome

**s/s**

Signs and Symptoms

**s.s., SS, semisse**

Latin "semis" meaning "half", one-half

**SSI**

Sliding Scale Insulin or sliding scale regular insulin

**SSP**

Serious Shortage Protocol

**SSRI**

Selective Serotonin Re-uptake Inhibitor

**SST**

Short Synacthen Test (uses a synthetic analogue of adrenocorticotrophic hormone (ACTH))

**SST**

Serum Separating Tube (phlebotomy)

**ST**

Silent Thyroiditis

**s/t**

secondary to

**st., stet**

let it stand (for example, for settling)

**stat, statim**

statim (immediately)

**STEMI**

ST-elevation myocardial infarction

**STN**

Solitary Thyroid Nodule

**subcut, SubQ**

subcutaneously

**sum., sumat, sumendum**

take , let him take

**supp., suppositorium**

suppository

**susp., suspensio**

suspension

**SVT**

SupraVentricular Tachycardia

**Sx**

Surgery

*x-code*

**Sx (plural: sxs)**

Symptom (symptoms)

*x-code*

**Synacthen**

Synthetic Analogue of Adrenocorticotrophic Hormone (ACTH).

**T** @amino acid

Threonine

**T** thymine nucleobase (DNA)

**T0AM** Thyronamine

**T1** 3'-T1, 4732-82-5, L-Tyrosine,  
O-(4-hydroxy-3-iodophenyl)-,  
3'-Iodothyronine,  
O-(4-hydroxy-3-iodophenyl)-L-tyrosine

**T1D, T1DM** Type 1 Diabetes Mellitus

**T2** 3,3'-Diiodothyronine,  
3,3'-Diiodo-L-thyronine,  
3,3'-DEIODO-THYROXINE,  
O-(4-Hydroxy-3-iodophenyl)-3-iodo-L-tyrosine

**T2D, T2DM** Type 2 Diabetes Mellitus

**T3** Liothyronine (as a medicine)  
Tri-iodo-thyronine (as the hormone)  
3,3',5-Triiodo-L-thyronine

**T3L** T3 libre (Free T3) 

**T3RU** T3 Resin Uptake (aka T3 uptake)

**T3S** T3 Sulphate

**T4** Levothyroxine/thyroxine/tetra-iodothyronine

**T4L** T4 libre (Free T4)

**T4S**

T4 Sulphate

**T7**

Free Thyroxine Index (aka FTI)

**tab., tabella**

tablet

**TAE**

Thyroid Artery Goitre Embolization

**TAH**

Total Abdominal Hysterectomy

**TAH-BSO**

Total Abdominal Hysterectomy with Bilateral Salpingo-Oophorectomy

**tal., t., talus**

such

**TAMs**

Thyronamines

**TANZ**

Thyroid Association of New Zealand <http://www.thyroidnz.org/tanz.php>



**TAO**

Thyroid-associated Orbitopathy (Graves' orbitopathy, thyroid eye disease)

**TATT**

Tired All The Time

**TAVI**

Transcatheter Aortic Valve Implantation

**TBAbs**

Thyroid-blocking antibodies

**TBG**

Thyroid Binding Globulin

**TBI**

Thyroxine-Binding Index

**TBII**

Thyrotrophin Binding Inhibiting Immunoglobulin

**TBPA**

Thyroxine-Binding Prealbumin – (more commonly called Transthyretin)

**TBS**

Trabecular Bone Score

**tbsp**

tablespoon (in metric systems, formalised as 15ml)

**TCI**

to come in

**TCM**

Traditional Chinese Medicine

**TCMSP**

Traditional Chinese Medicine Systems Pharmacology Database and Analysis Platform

**TdP**

Torsades de Pointes

**TDS, tds, ter die sumendum, t.i.d., t.d., ter in die**

three times a day, ter die sumendum

**TED**

Thyroid Eye Disease

**TEDct**

Thyroid Eye Disease charitable trust <http://tedct.org.uk/>



**TETRAC**

Tetraiodothyroacetic acid

**TFRNS**

Transferrin saturation

**TFT**

Thyroid Function Test

**TG**

Thyroglobulin

**TG**

Triglycerides

**TGA**

Therapeutic Goods Administration



**TGab**

Thyroglobulin antibodies

**TGF**

Transforming Growth Factors  $\beta$

**TGI**

Thyroid Growth-stimulating Immunoglobulin

**THBP**

Thyroid Hormone Binding Protein

**THBR**

Thyroid Hormone Binding Ratio

**THF**

tetrahydrofolate

**Thr**

Threonine

@amino acid

**THR**

Thyroid Hormone Receptor

**THR**

Thyroid Hormone Resistance

**THR**

Traditional Herbal Registration

**THRA**

Thyroid Hormone Receptor Alpha - THRA1, THRA2, ERBA1

**THRB**

Thyroid Hormone Receptor Beta

**THW**

thyroid hormone withdrawal

**ThyCa**

Thyroid Cancer – such as:Papillary, Follicular, Medullary, Anaplastic

**Thx**

Therapy

**TIA**

Transient Ischaemic Attack

**TIBC**

Total Iron-Binding Capacity

**tid**

ter in die (three times daily)

**tinc., tinct., tinctura**

tincture

**t.i.w.**

3 times a week

**TLA**

Three Letter Abbreviation

**TMG**

Trimethylglycine (aka betaine)

**TMJ**

TemporoMandibular Joint

**TMNG**

Toxic Multi-Nodular Goitre

**TN**

Trigeminal Neuralgia

**TNF**

Tumour Necrosis Factor

**top.**

topical

**TPC**

Thyroid Patients Canada <https://thyroidpatients.ca/>



**TPEX**

TPOAb sometimes referred to as anti-thyroid peroxidase antibodies (TPEX).

**TPN**

Total Parenteral Nutrition

**TPO**

Thyroid Peroxidase

**TPOab**

Thyroid Peroxidase antibodies

**TPR**

Temperature, Pulse and Respiration

**TR**

Thyroid hormone Receptor - TR- $\alpha$  (TR- $\alpha$ 1; TR- $\alpha$ 2; TR- $\alpha$ 3) TR- $\beta$  (TR- $\beta$ 1; TR- $\beta$ 2; TR- $\beta$ 3)

**Tr**

tincture

**TR- $\alpha$  (TR- $\alpha$ 1, TR- $\alpha$ 2, TR- $\alpha$ 3)**

Thyroid hormone receptor alpha 1 to 3

**TR- $\beta$  (TR- $\beta$ 1, TR- $\beta$ 2, TR- $\beta$ 3)**

Thyroid hormone receptor beta 1 to 3

**TRab**

TSH Receptor Antibodies

**TRAMP**

Thyroid Regional Assessment and Management Plan

**TRH**

Thyrotropin Releasing Hormone

**TRIAC**

Triiodothyroacetic Acid (aka tiratricol)

**TRIG**

Triglycerides

**trit., triturate**

grind to a powder

**Troch., trochiscus**

lozenge

**Trp**

Tryptophan

@amino acid

**TR $\alpha$** 

Thyroid Hormone Receptor alpha

**TR $\beta$** 

Thyroid Hormone Receptor beta

**TSab**

Thyroid Stimulating antibodies

**TSBAb**

TSH-stimulation blocking antibody

**TSH**

Thyroid Stimulating Hormone

**TSH-R**

TSH Receptor

**TSHI**

Jostel's TSH index (aka JTI)

**TSHR-Ab**

Thyrotropin-Receptor antibody

**TSI**

Thyroid Stimulating Immunoglobulin

**tsp**

teaspoon (in metric systems, formalised as 5ml)

**TT**

Total Thyroidectomy

**TT3**

Total T3

**TT4**

Total T4

**TTA**

to take away

**TTC**

Trying To Conceive

**TTFD**

Thiamine Tetrahydrofurfuryl Disulphide

**TTG**

Tissue Transglutaminase

**tTGA**

Tissue TransGlutaminase antibody

**TTO**

to take out

**TTR**

Transthyretin

**TUDCA**

taurusodeoxycholic acid

**TUK**

Thyroid UK <https://thyroiduk.org/>



**TVH**

Total Vaginal Hysterectomy

**Tx**

Traction

x-code

**Tx**

Transfer

x-code

**Tx**

Transfusion

x-code

**Tx**

Transplant

x-code

**Tx**

Transport

x-code

**Tx**

Treatment/Therapy

**Tx**

Triage

**Tyr**

Tyrosine

x-code

@amino acid

**U**
↑ ToC   ↓ End   ↑ T   ↓ V
**U**

International Unit

**U**

uracil nucleobase (RNA)

**U**

Selenocysteine

@amino acid

**U&E**

Urea and Electrolytes

**UAT**

Under-Active Thyroid

**UCP**

Uncoupling protein

UCP1, aka thermogenin or SLC25A7, UCP2, aka SLC25A8,  
UCP3, aka SLC25A9, UCP4, aka SLC25A27, UCP5, aka SLC25A14**UCTD**

Undifferentiated Connective Tissue Disease

**u.d., ut. dict., ut dictum**

as directed

**ug**

microgram

**UIC**

Urinary Iodine Concentration

**UL**

Upper Limit (typically of intake)

**UKAS**United Kingdom Accreditation Service <https://www.ukas.com/>**UMFA**

Unmetabolized Folic Acid

↑ ToC↓ EndAbbreviations & Acronyms

Page 76 of 83

**ung., unguentum**  
ointment

**UNII**  
Unique Ingredient Identifiers

**UoM**  
Unit of Measurement

**US**  
Ultrasound

**USO**  
Unilateral Salpingo-Oophorectomy

**USP**  
U.S. Pharmacopeia <https://www.usp.org/>



**USS**  
UltraSound Scan

**UTA**  
Upper Thyroid Artery

**UTI**  
Urinary tract infection

**UV**  
Ultraviolet light

**UV-A**  
Ultraviolet A - 315–400 nm

**UV-B**  
Ultraviolet B - 280–315 nm

**UV-C**  
Ultraviolet C - 200–280 nm

**Ux** *x-code*  
Upper extremity

**V**      ↑ ToC   ↓ End   ↑ U   ↓ W

**V**      *@amino acid*  
Valine

**vag., vagine**  
vaginally

**Val**      *@amino acid*  
Valine

**VDR**

Vitamin D Receptor

**Vit (Vit A, Vit C, etc.)**

Vitamin

**VLDL**

very-low density lipoprotein

**VM**

Vestibular Migraine

**VMA**

Vanillylmandelic acid

**VR**

valeurs de référence (reference range)

**VSS**

Vital Signs Stable

**VTE**

venous thromboembolism

**vWF**

Von Willebrand Factor

**Vx**

Vaccine

*x-code*

**W**

↑ ToC

↓ End

↑ V

↓ X

**W**

@amino acid

Tryptophan

**w**

with

**WA, w/a**

While Awake

**WAT**

White Adipose Tissue

**WBC**

White Blood Cell

**WBC**

White Blood Cell Count

**WBS**

Whole Body Scan

w/f

With food (meals)

WHO

World Health Organisation <https://www.who.int/>

WNL

Within Normal Limits

w/o

without

wt

Weight

X

↑ ToC    ↓ End    ↑ W    ↓ Y

X, x

times

XR

Extended Release

Y

↑ ToC    ↓ End    ↑ X    ↓ Z

Y

Tyrosine

@amino acid

YE

Yersinia enterocolitica

YO, y.o.

Years old

Z

↑ ToC    ↓ End    ↑ Y    ↓ M

Zn

Zinc (chemical element)

# Non-alphabetic entries

♏ ♏

[↑ ToC](#) [↓ End](#) [↑ Z](#) [↓ %](#)

♏ ♏

Minim (Apothecaries' measure)

1 imperial minim = 1/480 imperial fluid ounce  
= 1/60 imperial fluid drachm  
= 59.1938802083 micro-litres (exactly)

%

[↑ ToC](#) [↓ End](#) [↑ ♏](#) [↓ Ǝ](#)

% Bas

Basophils

% Eos

Eosinophils

% Mono

Monocytes

% Neutrophil

Neutrophils

Ǝ

[↑ ToC](#) [↓ End](#) [↑ %](#) [↓ ȝ](#)

Ǝ

Scruple (Apothecaries' measure)

ȝ

[↑ ToC](#) [↓ End](#) [↑ Ǝ](#) [↓ <](#)

ȝ

Ounce (Apothecaries' measure)

<

[↑ ToC](#) [↓ End](#) [↑ ȝ](#) [↓ >](#)

<

Less than

<= or ≤

Less than or equal to

&gt;

[↑ ToC](#)   [↓ End](#)   [↑ <](#)   [↓ 1](#)

&gt;

Greater than

$\geq$  or  $\geq$

Greater than or equal to

**1**

[↑ ToC](#)   [↓ End](#)   [↑ >](#)   [↓ 3](#)

**111**

NHS 111 is a free service for urgent medical advice and help.

**112**

999 and 112: the UK's national emergency numbers

**3**

[↑ ToC](#)   [↓ End](#)   [↑ 1](#)   [↓ 5](#)

**3-T1AM**

3-iodothyronamine

**3-T1S**

T1 Sulphate

**3,3'T2**

3,3'-Diiodothyronine

**3,3'T2S**

T2 Sulphate

**3,5T2**

3,5-Diiodothyronine – T2

**5**

[↑ ToC](#)   [↓ End](#)   [↑ 3](#)   [↓ 7](#)

**5-HTP**

5-Hydroxytryptophan

**7**

[↑ ToC](#)   [↓ End](#)   [↑ 5](#)   [↓ 9](#)

**7-keto-DHEA**

7-Ketodehydroepiandrosterone

7-oxoprasterone

[↑ ToC](#)

[↓ End](#)

[Abbreviations & Acronyms](#)

Page 81 of 83

999



999 and 112: the UK's national emergency numbers

#

fracture

Drachm or dram (Apothecaries' measure)

μg

microgram

μL

microlitre

μmol

micromole

The Greek alphabet, upper and lower cases, and names of letters.

A α	alpha
B β	beta
Γ γ	gamma
Δ δ	delta
E ε	epsilon
Z ζ	zeta
H η	eta
Θ θ	theta

I ι	iota
K κ	kappa
Λ λ	lambda
M μ	mu
N ν	nu
Ξ ξ	xi
O ο	omicron
Π π	pi

P ρ	rho
Σ σ/ζ	sigma
T τ	tau
Y υ	upsilon
Φ φ	phi
X χ	chi
Ψ ψ	psi
Ω ω	omega

**End**

[↑ ToC](#)[↑ Greek](#)

**End**

© Copyright helvella 2016 through last updated date. All rights reserved. No part of this publication may be reproduced or transmitted in any form, electronic or mechanical, including photocopying, recording or by means of any information storage or retrieval system without prior permission in writing from the author; or ii) used or reproduced in any way for the training, development or operation of artificial intelligence (AI) technologies, including generative AI technologies. The rights holders expressly reserve this publication from the text and data mining exception as per Article 4(3) of the Digital Single Market Directive (EU) 2019/190.