

PERIODIC TABLE OF ELEMENTS' MEDICAL USES

KEY																							
<p>Element name</p> <p>Element symbol</p> <p>Example medicinal use</p>										<p>Medicine/drug</p> <p>Cancer treatment</p> <p>Diagnostic purposes</p> <p>Surgical purposes</p> <p>No current clinical uses</p>													
<p>Examples are not exhaustive – many elements and their compounds find multiple uses. Element colour coding relates to the exemplar use identified. Hydrogen, carbon, oxygen and nitrogen are found in many organic molecules used in medicine so no specific example is provided for these elements.</p>																							
H Found in many drugs																			He MRI coolant				
Li Psychiatric medications	Be No medicinal uses																	B Anti-cancer medication	C Found in many drugs	N Found in many drugs	O Found in many drugs	F Fluoride toothpaste	Ne No current medical uses
Na Saline drips	Mg Laxatives and antacids																	Al Vaccine adjuvant	Si Osteoporosis prevention	P Saline laxative	S Antibiotics	Cl Disinfectants	Ar Laser surgery
K Treating hypokalemia	Ca Antacids	Sc No current medical uses	Ti Implants	V Diabetes treatment	Cr Diabetes treatment	Mn MRI contrast agent	Fe Anaemia treatment	Co Cancer radiotherapy	Ni Implants	Cu Treating copper deficiency	Zn Sunscreens	Ga Nuclear imaging	Ge No current medical uses	As Treating leukaemia	Se Antifungal agent	Br Anaesthetic	Kr No current medical uses						
Rb Heart disease diagnosis	Sr Desensitising toothpaste	Y Cancer radiotherapy	Zr Treating hyperkalemia	Nb Pacemakers	Mo Treating copper accumulation	Tc Nuclear imaging	Ru Immunosuppressant	Rh Anti-cancer medication	Pd Cancer radiotherapy	Ag Antimicrobial	Cd No current medical uses	In Nuclear imaging	Sn Fluoride toothpaste	Sb Treating leishmaniasis	Te No current medical uses	I Disinfectants	Xe Anaesthetic						
Cs Prostate cancer treatment	Ba Barium meal examinations	La-Lu		Hf No current medical uses	Ta Implants	W Surgical instruments	Re Cancer radiotherapy	Os Synovectomy for arthritis	Ir Cancer radiotherapy	Pt Anti-cancer medication	Au Treating arthritis	Hg Preservatives	Tl Nuclear imaging	Pb No current medical uses	Bi Treating diarrhoea	Po No current medical uses	At No current medical uses	Rn No current medical uses					
Fr No current medical uses	Ra Cancer radiotherapy	Ac-Lr		Rf No current medical uses	Db No current medical uses	Sg No current medical uses	Bh No current medical uses	Hs No current medical uses	Mt No current medical uses	Ds No current medical uses	Rg No current medical uses	Cn No current medical uses	Nh No current medical uses	Fl No current medical uses	Mc No current medical uses	Lv No current medical uses	Ts No current medical uses	Og No current medical uses					
				La Phosphate binder	Ce Treating burns	Pr No current medical uses	Nd No current medical uses	Pm No current medical uses	Sm Cancer radiotherapy	Eu No current medical uses	Gd MRI contrast agent	Tb No current medical uses	Dy No current medical uses	Ho Laser surgery	Er No current medical uses	Tm Laser surgery	Yb Portable X-ray machines	Lu Cancer radiotherapy					
				Ac Cancer radiotherapy	Th No current medical uses	Pa No current medical uses	U No current medical uses	Np No current medical uses	Pu No current medical uses	Am No current medical uses	Cm No current medical uses	Bk No current medical uses	Cf No current medical uses	Es No current medical uses	Fm No current medical uses	Md No current medical uses	No No current medical uses	Lr No current medical uses					

Inspired by *Exploration of the medical periodic table: towards new targets* by Nicolas P. E. Barry and Peter J. Sadler, Chem. Commun., 2013,49, 5106-5131, 10.1039/C3CC41143E

