

Normal Lab Values Cheatsheet

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Therapeutic Drug Monitoring

DRUG NAME	DRUG CLASS	THERAPEUTIC LEVEL (SI)	THERAPEUTIC LEVEL (CV)	TOXIC LEVEL (SI)	TOXIC LEVEL (CV)
Acetaminophen (Tylenol)	Analgesic	66–132 µmol/L	10–20 µg/mL	>170 µmol/L	>25 µg/mL
Amikacin Sulfate	Aminoglycoside	26–43 µmol/L	15–25 µg/mL	>430 µmol/L	>250 µg/mL
Aminophylline (Norphyl)	Bronchodilator	55.50–111 µmol/L	10–20 µg/mL	>111 µmol/L	>20 µg/mL
Amitriptyline (Elavil)	Antidepressants	433–541 nmol/L	120–150 ng/mL	>1800 nmol/L	>500 ng/mL
Carbamazepine (Tegretol)	Anticonvulsants	21–51 µmol/L	5–12 µg/mL	>50 µmol/L	>12 µg/mL
Cyclosporine (Gengraf)	Calcineurin inhibitors	83–333 nmol/L	100–400 ng/mL	>330 nmol/L	>400 ng/mL
Desipramine (Norpramin)	Antidepressants	563–1126 nmol/L	150–300 ng/mL	>1890 nmol/L	>500 ng/mL
Digitoxin (Digibind)	Cardiac Glycoside	20–33 nmol/L	15–25 ng/mL	>33 nmol/L	>25 ng/mL
Digoxin (Lanoxin)	Antiarrhythmics	1–2.6 nmol/L	0.8–2 ng/mL	>3 nmol/L	>2.4 ng/mL
Disopyramide (Norpace)	Antiarrhythmics	6–15 µmol/L	2–5 µg/mL	>15 µmol/L	>5 µg/mL
Ethosuximide (Zarontin)	Anticonvulsants	283–708 µmol/L	40–100 µg/mL	>700 µmol/L	>100 µg/mL
Gentamicin (Garamycin)	Aminoglycosides	10–21 µmol/L	5–10 µg/mL	>25 µmol/L	>12 µg/mL
Imipramine (Tofranil)	Antidepressants	535–1170 nmol/L	150–300 ng/mL	>1780 nmol/L	>500 ng/mL
Kanamycin (Kantrex)	Aminoglycosides	41–52 µmol/L	20–25 µg/mL	>70 µmol/L	>35 µg/mL
Lidocaine (Xylocaine HCL)	Anesthetic	6.4–21 µmol/L	1.5–5 µg/mL	>20 µmol/L	>5 µg/mL
Lithium (Eskalith)	Antimanic	0.5–1.2 mmol/L	0.8–1.2 mEq/L	>2 mmol/L	>2 mEq/L
Magnesium Sulfate	Anticonvulsants	1.7–3 mmol/L	4–7 mg/dL	>3 mmol/L	>7 mg/dL
Methotrexate (Trexall)	Antimetabolites	>0.01 µmol	>0.01 µmol	>10 µmol/24hrs	>10 µmol/24hrs
Nortriptyline (Aventyl HCl)	Antidepressants	190–570 nmol/L	50–150 ng/mL	>1900 nmol/L	>500 ng/mL
Phenobarbital (Luminal)	Anticonvulsant	44–133 µmol/L	10–30 µg/mL	>170 µmol/L	>40 µg/mL
Phenytoin (Dilantin)	Antiarrhythmic	40–79 µmol/L	10–20 µg/mL	>120 µmol/L	>30 µg/mL
Primidone (Mysoline)	Anticonvulsants	23–55 µmol/L	5–12 µg/mL	>69 µmol/L	>15 µg/mL
Procainamide (Pronestyl)	Antiarrhythmics	17–43 µmol/L	4–10 µg/mL	>68 µmol/L	>16 µg/mL
Propranolol (Inderal)	Antiarrhythmics	193–386 nmol/L	50–100 ng/mL	>580 nmol/L	>150 ng/mL
Quinidine (Cardioquin)	Antiarrhythmics	6–15 µmol/L	2–5 µg/mL	>31 µmol/L	>10 µg/mL
Salicylate (Aspirin)	Analgesic	0.72–18 mmol/L	100–2500 µg/mL	>2 mmol/L	>300 µg/mL
Sirolimus (Rapamune)	Immunosuppressant	3–22 nmol/L	3–20 ng/mL	>22 nmol/L	>20 ng/mL
Tacrolimus (Astagraf XL)	Calcineurin inhibitors	6–19 nmol/L	5–15 ng/mL	>25 nmol/L	>20 ng/mL
Theophylline (Theo-24)	Methylxanthines	56–111 µmol/L	10–20 µg/mL	>111 µmol/L	>20 µg/mL
Tobramycin	Aminoglycosides	11–21 µmol/L	5–10 µg/mL	>26 µmol/L	>12 µg/mL
Valproic acid (Depakene)	Anticonvulsants	350 –700 µmol/L	50–100 µg/mL	>700 µmol/L	>100 µg/mL
Vancomycin (Firvanq)	Glycopeptide antibiotics	14–28 µmol/L	20–40 µg/mL	>28 µmol/L	>40 µg/mL