

Normal Lab Values Cheatsheet

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Therapeutic Drug Monitoring

DRUG NAME	DRUG CLASS	THERAPEUTIC LEVEL (SD)	THERAPEUTIC LEVEL (CV)	TOXIC LEVEL (SD)	TOXIC LEVEL (CV)
Acetaminophen (Tylenol)	Analgesic	66–132 µmol/L	50–20 µg/mL	>170 µmol/L	>25 µg/mL
Amikacin Sulfate	Aminoglycoside	26–43 µmol/L	25–25 µg/mL	>430 µmol/L	>250 µg/mL
Aminophylline (Norginyl)	Bronchodilator	55.50–151 µmol/L	50–20 µg/mL	>151 µmol/L	>20 µg/mL
Amitriptyline (Elavil)	Antidepressants	433–541 nmol/L	120–250 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	82–332 nmol/L	100–400 ng/mL	>330 nmol/L	>400 ng/mL
Desipramine (Norpramin)	Antidepressants	565–1126 nmol/L	250–300 ng/mL	>1890 nmol/L	>500 ng/mL
Digoxin (Digibind)	Cardiac Glycoside	20–35 nmol/L	15–25 ng/mL	>55 nmol/L	>25 ng/mL
Digoxin (Lanoxin)	Antiarhythmic	1–2.6 nmol/L	0.8–2 ng/mL	>3 nmol/L	>3.4 ng/mL
Disopyramide (Norpace)	Antiarhythmic	6–15 µmol/L	2–5 µg/mL	>15 µmol/L	>5 µg/mL
Ethosuximide (Zenoxin)	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	250–300 ng/mL	>1780 nmol/L	>500 ng/mL
Kanamycin (Kantrex)	Aminoglycosides	41–52 µmol/L	20–25 µg/mL	>70 µmol/L	>25 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	<0.05 µmol	>10 µmol/24hrs	>50 µmol/24hrs
Nortriptyline (Aventyl HCl)	Antidepressants	190–570 nmol/L	50–150 ng/mL	>1900 nmol/L	>500 ng/mL
Phenobarbital (Luminal)	Anticonvulsant	4.6–133 µmol/L	50–50 µg/mL	>270 µmol/L	>60 µg/mL
Phenytoin (Dilantin)	Antiarhythmic	40–79 µmol/L	50–20 µg/mL	>120 µmol/L	>50 µg/mL
Primidone (Mysoline)	Anticonvulsants	23–55 µmol/L	5–12 µg/mL	>69 µmol/L	>15 µg/mL
Procainamide (Prokethyl)	Antiarhythmic	17–43 µmol/L	4–10 µg/mL	>68 µmol/L	>16 µg/mL
Propranolol (Inderal)	Antiarhythmic	293–586 nmol/L	50–100 ng/mL	>580 nmol/L	>150 ng/mL
Quinidine (Cardioquin)	Antiarhythmic	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	5–22 nmol/L	5–20 ng/mL	>22 nmol/L	>20 ng/mL
Sponcilimus (Asthagrol 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	50–20 µg/mL	>151 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	550–700 µmol/L	50–100 µg/mL	>700 µmol/L	>200 µg/mL
Vancomycin (Firvana)	Glycopeptide antibiotics	14–28 µmol/L	20–40 µg/mL	>28 µmol/L	>60 µg/mL

Normal Lab Values For Lpn National Exam

Lisa Carroll, Janyce L. Collier

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web equilibrium at what point is a reversible reaction completed why most of the reactions that we have studied this year have been forward reactions once the reactant has changed into the product it stays that way we can assume that eventually

the reaction will finish when the limiting reactant runs out