Calculators

Getting Started

Click on Calculators in the Tools menu.

Antidote Dosing Calculators and Nomograms

- **Alcohols/Ethylene Glycol Blood Level** – provides levels for a single, acute ingestion and calculates the blood levels for ethanol, methanol, ethylene glycol, or isopropyl alcohol.
- **Ethanol/IV Dosing for Methanol/Ethylene Glycol Overdose** – includes options to calculate for initiation of therapy or to adjust a maintenance dose based on plasma level.
- **NAC Dosing for Acetaminophen Overdose** – calculates acetaminophen overdose treatment based on patient weight, including the loading dose and maintenance dose.
- **Toxicity Nomogram** – calculates the toxicity risk of Acetaminophen. You provide the blood plasma level (and unit measurement: mcg/ml, mg/dcl, or SI Units) and the time since ingestion of Acetaminophen. Results can be displayed in graph or table format.

Laboratory Values

- **Anion Gap Calculator** – calculates the anion gap based on sodium, chloride, bicarbonate, and potassium levels.
- **Creatinine Clearance Calculator** – calculates creatinine clearance, based on lean/ideal body weight (kg/lb), patient’s age and sex, current serum creatinine level in mg/dl, and the initial therapy utilised.
- **Phenytoin Level Adjustment Calculator** – adjusts reported serum phenytoin levels in patients who have low serum albumin levels or renal impairment. Hypoalbuminemia and/or renal impairment changes the binding affinity of phenytoin, which results in a reported total phenytoin level that is of little value clinically. This calculator estimates what the total phenytoin level would be if the patient did not have these comorbid conditions. It also calculates the adjusted Phenytoin level using current values for: Phenytoin level (mcg/mL), Albumin (gm/dL), and Creatinine clearance (mL/min).
Dosing Tools

- **ACLS/PALS Guidelines** – calculates based on pediatric or adult weight (in kilograms or pounds) and displays the American Heart Association medication and recommendation guidelines for ACLS/PALS/neonatal resuscitation.
- **Dobutamine Dosing Calculator** – calculates based on weight (kg/lb) and the initial dose. Results are in mcg/kg/min with the selected solution.
- **Dopamine Dosing Calculator** – calculates based on weight (kg/lb) and the initial dose. Results are in mcg/kg/min with the selected solution.
- **Epinephrine Dosing Calculator** – displays adult recommendations based on initial dosing and the solution concentration. The pediatric calculator also factors in the weight (kg/lb) of the pediatric patient.
- **Heparin Dosing Calculator** – formulates recommendations based on weight (kg/lb) and units/ml.
- **IV Rate Calculator** – enables clinicians to quickly and easily determine the infusion rate for medications that require complicated calculations. This flexible dosing tool is not specific to a particular drug, but calculates an infusion rate for a variety of medications, dosing options, and solution concentrations.
- **Nitroglycerin Dosing Calculator** – calculates adult dosage based on patient weight (weight >= 40 kg). Recommendations can be calculated based on concentration and mcg/min and whether or not the patient is on fluid restriction.
- **Nitroprusside Dosing Calculator** – calculates dosage based on patient weight (kg/lb) and mcg/kg/min and the concentration of the solution used.
- **Norepinephrine Dosing Calculator** – displays recommendations based on initial dosing and the solution concentration. The pediatric calculator also factors in the weight (kg/lb) of the pediatric patient.

Clinical Calculators

- **ACLS/PALS Guidelines** – calculates based on pediatric or adult weight (in kilograms selections). Click Update to refresh the results.

Measurement Calculators

- **Body Mass Index Calculator** – calculates Body Mass Index as a calculated value that shows body weight adjusted for height and indicates the weight status in adults. Calculates BMI based on weight (kg/lbs) and height (cm/in).
- **Body Weight and Surface Area Calculator** – calculates body surface area based on age (years or months), weight (kg/lbs), height (cm/in), and sex (male/female).
- **Metric Conversions Calculator** – provides conversions between Metric and English standard units for many common conversions utilised in clinical practice. The conversions include measurements of weight, length, volume, temperature, and parts per million.

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