



Get the most current information about clinical best practices for pediatric medicine with PEMSoft

PEMSoft is the definitive resource for evidence-based, pediatric clinical information at the point-of-care with strong safety orientation designed to minimize adverse outcomes.

- **A unique clinical information tool** and unprecedented multimedia medical library with thousands of images and videos for the diagnosis and management of preterm infants to young adults.
- **Created by pediatricians and emergency departments** for clinicians who work in a wide range of clinical settings—including emergency rooms, acute care facilities, pediatric group practices and teaching.
- **The vast scope of content is updated continuously** by hundreds of clinical editors worldwide using a rigorous evidence-based editing process.
- **PEMSoft is designed for portable computing** on smart phones and tablets with a unique format and intuitive interface that allows clinicians to find answers within seconds at the bedside.



Each topic includes:

Definition	Prognosis
Classification	Disposition
Clinical Presentation	Prevention/Education
Science/Etiology	Case Definition
Diagnostic Studies	Tips
Differential Diagnosis	Current References with PubMed Links
Treatment	
Complications	

Additional features include:

- **Resus Tool Module:** The world's first length, age or weight-based resuscitation reference tool and calculator for instantaneous drug dosing and equipment sizing
- **Trauma Module:** Comprehensive mini-textbook on the entire range of pediatric injury and current management approaches
- **Signs & Symptoms Module:** Library of all common signs and symptoms of childhood, with directed clinical approaches
- **Procedures Module:** Explicit, step-by-step compendium of emergency and critical care procedures in childhood, with vast video support

PEMSoft is...

- Optimized for speed at the point-of-care
- Assessment and safety oriented
- Rich with multimedia and bedside tools
- Deep in scope: over 1,000 acute-care topics
- Web and mobile—usable everywhere

Information you can trust

The *PEMSoft* editorial faculty is led by a team of world renowned, pediatric emergency physicians, including Ron Dieckmann, MD.

All *PEMSoft* authors adhere to a strict evidence-based editorial policy focused on systematic identification, evaluation and consolidation of practice-changing clinical literature.

Evidence-based methodology for creating content

1. Systematically identify the evidence
2. Systematically select the best available evidence from that identified
3. Systematically evaluate the selected evidence (critical appraisal)
4. Objectively reflect the relevant findings and quality of the evidence
5. Synthesize multiple evidence reports
6. Derive conclusions and recommendations from the evidence synthesis; obtain peer review
7. Change the conclusions when new evidence alters the best available evidence

1 Enter CHILD'S LENGTH IN CM
Then click **CALCULATE WEIGHT**
OR IF NO LENGTH
Click on age box
and enter AGE IN
MONTHS OR YEARS

NOTE: years display blue
and months display red

Length: cm
Age: 00 Years Months
Calculate Weight

2 Click **CALCULATE DOSES**
TO USE EXACT WEIGHT:
After first entering a length or age, click
on the weight box and type exact weight
in kilograms in place of calculated weight
and then click on the **CALCULATE**
DOSES

Weight: 41.8 kg
Calculate Doses

Calculator

Reference Type

Drug & Equipment Table

Drug & Equipment Table
FOR AGE 12 YEARS AND A WEIGHT OF 41.8 KG

EQUIPMENT

Bag Size 1000 mL	Nasal airway 30 F
Mask Size adult	Oral airway 80 mm
ETT uncuffed 6.5 mm	NG/OG 16 F
ETT cuffed 6 mm	LMA 3
ETT length at lips 18.5 to 19.5 cm	
ETT length at nares 33 cm	Suction catheter 12 F
Stylet 14 F	Bladder catheter 16 F
Blade Size 3 straight or curved	Chest tube 20 F

INTUBATION DRUGS

	mg dose	mL dose
Etomidate 0.3 mg/kg IV/IO (2 mg/mL)	12.3 mg	6.15 mL
Ketamine 1.5 mg/kg IV/IO (100 mg/mL)	61.5 mg	0.62 mL
Propofol 2.5 mg/kg IV/IO (10 mg/mL)	108 mg	10 mL
Midazolam 0.2 mg/kg IV/IO (5 mg/mL)	8.2 mg	1.64 mL
Thiopental 4 mg/kg IV/IO 164 mg		variable
Rocuronium 1 mg/kg IV/IO (10 mg/mL)	41 mg	4.1 mL
Succinylcholine 1 mg/kg IV/IO (20 mg/mL)	41 mg	2.05 mL
Succinylcholine 2 mg/kg IV/IO (20 mg/mL)	82 mg	4.1 mL
Succinylcholine 1 mg/kg IV/IO (50 mg/mL)	41 mg	0.82 mL
Succinylcholine 2 mg/kg IV/IO (50 mg/mL)	82 mg	1.64 mL
Vecuronium 0.1 mg/kg IV/IO 4.1 mg		variable

RESUS/CARDIAC DRUGS

	mg dose	mL dose
Adenosine 0.1 mg/kg IV/IO (3 mg/mL)	4.1 mg	1.37 mL
Amiodarone 5 mg/kg IV/IO (50 mg/mL)	208 mg	4.1 mL
Atropine 0.02 mg/kg IV/IO (0.1 mg/mL)	0.82 mg	8.2 mL
10% Dextrose 0.5 gm/kg (5 mL/kg) IV/IO 20.5 gm		205 mL
Epinephrine 0.01 mg/kg 1:1000 SQ/IM (0.01 mL/kg)		0.41 mL
Epinephrine 0.01 mg/kg 1:10,000 IV/IO (0.1 mL/kg)		4.1 mL

Resus Tool Module:
The first interactive length/age/weight-based resuscitation reference tool for drug dosing and equipment sizing

Contact for more information

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