

Are current pediatric dose recommendations for intravenous theophylline appropriate?

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Patient population	Age	Theophylline infusion rate (mg/kg/h) [†]
Neonates	Postnatal age up to 24 days	1 mg/kg every 12 hours [‡]
	Postnatal age beyond 24 days	1.5 mg/kg every 12 hours [‡]
Infants	6-52 weeks old	$\text{mg/kg/h} = (0.008)$ (age in weeks) + 0.21
Young children	1-9 years	0.8
Older children	9-12 years	0.7
Adolescents (cigarette or marijuana smokers)	12-16 years	0.7
Adolescents (nonsmokers)	12-16 years	0.5 [§]
Adults (otherwise healthy nonsmokers)	16-60 years	0.4 [§]
Elderly	Greater than 60 years	0.3 [¶]
		0.2 [¶]
Cardiac decompensation, cor pulmonale, liver dysfunction, sepsis with multi-organ failure, or shock		

Description: -

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Canadian theses = Thèses canadiennes Are current pediatric dose recommendations for intravenous theophylline appropriate?

Notes: Thesis (M.Sc.)--University of Toronto, 1993.

This edition was published in 1993



Filesize: 37.69 MB

Tags: #Optimizing #the #Dosing #of #Intravenous #Theophylline #in #Acute #Severe #Asthma #in #Children

Theophylline (Oral Route) Proper Use

Major Caffeine is a CNS stimulant.

Optimizing the Dosing of Intravenous Theophylline in Acute Severe Asthma in Children

The concurrent administration of caffeine to patients taking theophylline may produce excessive caffeine-like side effects, such as nausea, irritability or nervousness.

Aminophylline Dosage In Asthma Exacerbations in Children: A Systematic Review

Adults, Adolescents, and Children 4.

PIPER

Clearly, expert clinical trial design and statistical input would be required to tackle these confounders. Effects on lab test results May increase plasma free fatty acid levels.

Optimizing the Dosing of Intravenous Theophylline in Acute Severe Asthma in Children

London: BMJ Group, Pharmaceutical Press. Cacao tree: May inhibit theophylline metabolism Obtain serum theophylline measurements in patients receiving long-term therapy.

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