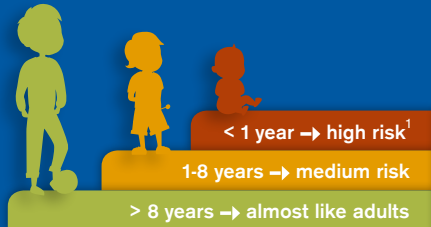


Pitfalls to avoid in paediatric anaesthesia



AGE-DEPENDENT
PERIOPERATIVE
RISK

PRE-OPERATIVE STEPS



- ✓ Keep fasting time short!
- ✓ Preheat the OR, use active warming!
- ✓ Check for the right-sized equipment (small)!
- ✓ Be aware of short airways and fast desaturation!

DEVICE SET-UP



- ✓ Keep deadspace low!
- ✓ Use age-adapted filters / tubes!
- ✓ Employ low-flow ventilaton + small HME (filters)!
- ✓ Single-use of mechanical filters + breathing system hoses!²

VENTILATION PARAMETERS



- ✓ $V_t = 6-8\text{ml/kg BW}$
- ✓ **I:E ratio** = 1:2 – 1:3³
- ✓ $\text{CO}_2 = 40-45 \text{ mmHG}^4$
- ✓ **Saturation** = 95 % (check both arms)
- ✓ **PEEP** = 3-5 cm H_2O

This article contains medical content that has been created in accordance with current scientific research and to the best of the author's belief and knowledge. The information refers to the White Paper "Paediatric ventilation in the OR: In urgent need of improvement" and supplemental literature as cited in the reference list as well as the expert opinion of Dr. Müller-Lobeck, Klinikum Lippe GmbH, Detmold, Germany. However, potential for errors may be present and readers are responsible to verify accuracy of all statements. The enumeration in this article is not intended to be exhaustive.

Reference list

The infographic “Pitfalls to avoid in paediatric anaesthesia” is based on the White Paper “Paediatric ventilation in the OR: In urgent need of improvement” (https://www.draeger.com/en_aunz/Hospital/Acute-Care-Insights/Respiratory-Care/Protective-Ventilation/Paediatric-Ventilation). Supplemental references are listed below:

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3. Ventilation-Guidelines-for-PICU_Oct-2010.pdf. Accessed May 18, 2020. http://www.health.gov.fj/wp-content/uploads/2014/05/Ventilation-Guidelines-for-PICU_Oct-2010.pdf
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