

Recent Advances in Anesthesia Management for Pediatric Obesity

Essay

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Anesthesiology*

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بِسْمِ اللَّهِ الرَّحْمَنِ الرَّحِيمِ
وَعَلَّمَكَ مَا لَمْ تَكُن تَعْلَمُ
وَكَانَ فَضْلُ اللَّهِ عَلَيْكَ عَظِيمًا

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List of Abbreviations

Abb.	Meaning
ACTH.....	Adrenocorticotrophic hormone
AGRP	Agouti-related peptide
AHI	Apnea/hypopnea index
ALT.....	Alanine transaminase
ASA.....	American Society of Anesthesiologists
BIS	Bispectral index
BMI.....	Body Mass Index
CART	Cocaine-and Amphetamine- Regulated Transcript
CDC	Centers for Disease Control and Prevention
DLCO	Diffusing capacity of lung for carbon monoxide
ERV	Expiratory reserve volume
FDA.....	Food and Drug Administration
FEV ₁	Forced expiratory reserve volume in 1 second
FRC.....	Functional residual capacity
FVC.....	Forced vital capacity
HDLC	High-density lipoprotein cholesterol
IBW	Ideal body weight

List of Abbreviations (Cont...)

Abb.	Meaning
IOTF	International Obesity Taskforce World Obesity Federation
LBM.....	lean body mass
LDL.....	Low-density lipoprotein
LES	Lower esophageal sphincter
LMA	Laryngeal mask airway
LVEDP	Left ventricular end –diastolic pressure
MC ₁ R.....	Melanocortin 1 receptor
MC ₂ R.....	Melanocortin 2 receptor
MC ₃ R.....	Melanocortin 3 receptor
MC ₄ R.....	Melanocortin 4 receptor
MSH	Melanocyte-Stimulating Hormone
NFHS	National Family Health Survey
NHS.....	National Health Service
NICE.....	National Institute for Clinical Evidence
NIH.....	National Institutes of Health
NPY	Neuropeptide-Y
Ob gene	Obese gene
OSA	Obstructive sleep apnea

List of Abbreviations (Cont...)

Abb.	Meaning
PACU	Post-anaesthesia care unit
PCA.....	Patient control analgesia
PEEP	Positive end-expiratory pressure
POMC	Pro-opiomelanocortin
SDB	Comprising sleep-disordered breathing
SHBG	Sex hormone-binding globulin
TBW	Total body weight
TLC.....	Total lungcapacity
TNF α	Tumor necrosis factor alpha
WHO	World Health Organization

Introduction

Aim of Work

Chapter (1)

**Definition, Etiology and
Epidemiology of Pediatric
Obesity**

Chapter (2)

Pathophysiology and Anesthesia Problems

Chapter (3)

Preoperative Evaluation
