

Predictors of upper airway obstruction following extubation in critically ill children

Predictores de obstrucción alta de vías respiratorias posterior a la extubación en niños graves

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DIAGNOSTICS

- General post-surgical: post-surgical neck, thorax, abdominal, spine or limbs.
- Neurosurgical: tumor exeresis, craniosynostosis, spinal decompression, hemispherectomy, drainage placement, evacuation of intracranial hematoma.
- Immunocompromised: oncologic, congenital or acquired immunodeficiency, medullary aplasia.
- Non-respiratory infection: meningococemia, peritonitis, muscle abscess, cellulitis.
- Acute neurological event: ischemic or hemorrhagic stroke, convulsive syndrome, encephalopathy, meningitis, hydrocephalus, arteriovenous malformation.
- Neuromuscular: botulism, myasthenia gravis, Guillain-Barré syndrome, muscular dystrophies, congenital myopathy, spinal atrophy.
- Others: obstructive sleep apnea syndrome, diabetic ketoacidosis, metabolopathies, mitochondrial diseases, cardiovascular conditions, dilated cardiomyopathy, asthma.

COMPLEX CHRONIC CONDITION

- If the patient presents any underlying condition prior to admission to the PICU that conditions its evolution during an acute process.
 - Respiratory: chronic obstructive pulmonary disease, bronchopulmonary dysplasia, asthma, cystic fibrosis, pulmonary hypertension.
 - Neurological: chronic progressive and non-progressive encephalopathy, epilepsy, west syndrome, agenesis of the corpus callosum, mental or maturational retardation.
 - Cardiological: dilated cardiomyopathy, heart failure, others.
 - Oncologic: hematopoietic, solid organ, pulmonary, central nervous system.
 - Others: airway disorders, hepatic, genetic syndrome.

Supplementary figure. Operational definition of demographic variables included.

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Supplementary Table. Clinical-demographic characteristics of the tracheostomized patients in the group that presented Upper Airway Obstruction after extubation

Nº	Underlying disease	Reason for tracheostomy	Age (m)	Weight (k)	ETT Cuff or not	Days with ETT	Nº of ext attempts	Prone
1	Stroke	SGS	14	12	Cuff	13	1	No
2	West Syndrome	Chordal paralysis	13	12	Cuff	36	3	Yes
3	Pierre Robin Syndrome	SGS	2	3,6	Not cuff	20	3	No
4	BPD	SGS	17	12	Cuff	25	3	Yes
5	Down Syndrome /CC	SGS	14	6,3	Not cuff	26	2	No

SGS: Subglottic Stenosis; m: months; k: kilograms; ETT: endotracheal tube; Ext: extubation; CC: congenital cardiopathy; BPD: Bronchopulmonary dysplasia.