

Online-Only Supplements

Table E1. Modified Wood clinical asthma score (mWCAS).

Table E2. Severity at Failure and Reason for Failure according to Group.

Table E1. Modified Wood clinical asthma score (m-WCAS).

	0	0,5	1	2
Cyanosis	SpO ₂ >95% in room air	90%≤SpO ₂ <95% In room air	SpO ₂ >95% with FiO ₂ >21%	SpO ₂ < 95% with FiO ₂ >21%
Inspiratory breath	Normal	Slightly unequal	Unequal	Decreased or absent
Accessory muscles use	Absent	low	Moderate	Maximal
Expiratory wheezing	Absent	low	Moderate	Maximal
Cerebral function	Normal	Agited if disturbed	Depressed or agitated	Coma

The m-WCAS is a composite score assessing the severity of bronchiolitis through five components (cyanosis, inspiratory breath sounds, accessory muscles use, wheezing, and cerebral function). Each is rated from 0 to 2 for maximal value. A visual analog scale is used to standardize the scoring of accessory muscle use and wheezing.

Table E2. Severity at Failure and Reason for Failure according to Group.

Characteristics	HFNC group (N=133)	Control group (N=135)	Mean difference (95% CI)	P value
Severity at failure				
no. (%)	19	27		
HR-bpm	160±18	159±18	0.8 (-10.3 to 12)	ns
RR-bpm	58±14	60±17	-1.5 (-11.1 to 8.05)	ns
SpO ₂ -%	96±3	95±4	0.6 (-1.8 to 3.1)	ns
P(t)CO ₂ , Mean (SD)-mmHg	53±10	66±9	-12.7 (-22.2 to -3.2)	0.01
FiO ₂ * or O ₂ flow rate†	33±8%	1±0.7 L/min		NA
m-WCA score	5.5±1.2	4.7±0.8	0.7 (-0.005 to 1.4)	ns
Reason for failure‡				
Apnea episode (> 3/h)	0	1		ND
Increasing m-WCAS score (or > 6)	12	20		ns
Increasing P(t)CO ₂ (or > 70mmHg)	3	8		ns
FiO ₂ or O ₂ flow-rate exceeding 40% or 2L/min	9	8		NA
Apnea events	1	1		ND

* on HFNC group, †on control group, ‡ one or several, NA denote not applicable, ND not determined.

HFNC high-flow nasal cannula, m-WCAS modified Wood clinical asthma score