

HFNC in type 2 respiratory failure COPD

Table S1: Arterial blood gas values obtained at site visits, with prescribed oxygen dosage and after 30 minutes' treatment with High Flow Nasal Cannula as add-on to prescribed oxygen (+30). Mean values (standard deviations). P-values from T-test on pH, sat and BE, at baseline and after 12 months, which are not provided in the paper, included below

	Baseline	Baseline, +30	6 months	6 months, +30	12 months	12 months, +30
Add O ₂ , L	1.5 (0.5)	1.6(0.6)	1.6(0.6)	1.9 (1.2)	1.6(0.7)	1.9(1.1)
High Flow, L		20 (1)		20(1)		20(1)
pH	7.40(0.03)	7.40(0.02)	7.39(0.03)	7.41(0.03)	7.39(0.03)*	7.41(0.03)
PaO ₂ , kPa	9.9 (1.4)	8.8(1.04)	9.5(1.5)	8.9(1.1)	9.7(1.5)	8.8(1.2)
Sat, %	95(2)	93(2)	94(4)	93(3)	94(3)**	93(3)
PaCO ₂ , KPa	7.33(1.2)	6.9(1.0)	7.4(1.5)	7.9(1.1)	7.2(1.4)	6.9(1.4)
St.Bic (mmol/L)	30.1(2.8)	30.4(2.8)	30.3(3.5)	30.7 (3.8)	30.3(4.0)	30.3(4.1)
BE	7.4 (3.5)	7.6(3.5)	7.8(4.3)	7.9(4.5)	7.3(4.9)***	7.4(5.0)

Add O₂: Oxygen flow supplied at time of arterial puncture; PaO₂: Arterial Partial pressure of oxygen; kPa: kilo Pascal; PaCO₂: Arterial Partial pressure of Carbon Dioxide; St.Bic: Standard Bicarbonate; BE: Base Excess

*p=0.76; **p=0.04; ***p=0.78

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Table S2: Arterial blood gas values obtained at site visits, with prescribed oxygen dosage and, in addition, at 12 months, after 30 minutes' treatment with High Flow Nasal Cannula as add-on to prescribed oxygen (+30), N=21. Mean values (standard deviations). P-values from T-test on pH, sat and BE, at baseline and after 12 months, which are not provided in the paper, included below.

	Baseline	6 months	12 months	12 months, +30
Add O ₂ , L	1.5(0.5)	1.5(0.5)	1.5(0.7)	1.9(1.7)
High Flow, L				20(1)
pH	7.4(0.02)	7.4(0.03)	7.4(0.03)*	7.41(0.02)
PaO ₂ , kPa	10.0(1.6)	9.9(1.9)	9.5(1.6)	8.6(1.2)
Sat, %	95(2)	94(3)	94(3)**	92(3)
PaCO ₂ , KPa	6.9(0.6)	7.2(0.9)	7.4(1.1)	7.1(0.8)
St.Bic (mmol/L)	30.2(2.5)	30.7(2.4)	30.8(3.0)	31.4(2.9)
BE	7.3(2.9)	7.9(3.0)	8.2(3.5)***	8.7(3.2)

Add O₂: Oxygen flow supplied at time of arterial puncture PaO₂: Arterial Partial pressure of oxygen; kPa: kilo Pascal; PaCO₂: Arterial Partial pressure of Carbon Dioxide; St.Bic: Standard Bicarbonate; BE: Base Excess

*p=0.71; **p=0.04; ***p=0.68