

There were 7 missing data. Data are presented as mean±sd and n (%). ADH: adherence; SpO2: pulsed oxygen saturation; BMI: body mass index; NIV: noninvasive ventilation; ALSFRS-R: revised amyotrophic lateral sclerosis functional rating scale; FVC: forced vital capacity; SNIP: sniff nasal inspiratory pressure.

**Supplemental material 4 (SM4) : patients characteristics at initiation in sub group ADH > 4h**

	Total (ADH > 4h)	Corrected SpO2	No corrected SpO2	P value	
<b>Anthropometric data</b>					
Patients; no(%)	127	99	21		
Age (yr)	68(±11)	68(±11)	67(±10)	0.698	
Male; no(%)	83(65%)	66(67)	15(71)	0.672	
BMI	24(±5)	24(±5)	26(±5)	<b>0.028</b>	
<b>Neurological assessment</b>					
Time from diagnostic to NIV initiation (months)	17(±20)	18.8(±21)	13(±13)	0.240	
Bulbar onset; no(%)	64(51)	51(52)	11(52)	0.977	
Frontotemporal dementia; no(%)	8(6)	5(5)	3(14)	0.123	
ALSFRS-R	34.2(±6.48)	34.2(±6.06)	34(±8.83)	0.917	
<b>Respiratory assessment</b>					
FVC (L)	2.47(±0.82)	2.43(±0.79)	2.73(±0.93)	0.159	
FVC (%)	74.03(±20.47)	72.9(±19.1)	77.2(±19)	0.369	
SpO2 night time < 90% (%)	16.27(±18.77)	15.9(±19.1)	21(±18.9)	<b>0.041</b>	
SpO2 < 90% more than 5% of nighttime; no(%)	83(75%)	62(73%)	18(95%)	0.301	
<b>NIV initiation criteria</b>					
NIV Initiation criteria; no(%)					
Clinical signs +	FVC < 80% only	42(33%)	36(37)	3(14)	<b>0.050</b>
	SpO2 < 90%, time > 5% only	52(41%)	39(39)	11(53)	0.273
	Both FVC < 80% and SpO2 < 90%, time > 5%	31(25%)	23(23)	7(33)	0.332
	SNIP < 60cmH2O	0(0%)	0(0)	0(0)	
	Other	1(1%)	1(1)	0(0)	0.644
Time from NIV requirement assessment to home initiation (Days)	8.65(±6.47)	8.94(±6.77)	8.71(±5.64)	0.888	