

Management of CPAP treatment compliance using telemonitoring in obstructive sleep apnoea

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ONLINE SUPPLEMENT

TABLE S1 Full details of costs assessed.

	Cost (€)
Direct costs	
Telemonitoring*	
2G (GSM/GPRS) daily data transfer, per patient	83/year
Activation and maintenance of the monitoring system, per patient	16/year
Sleep unit visits [#]	52/visit
Sleep unit consultations [#]	41/consultation
CPAP's provider visits & consultations [¶]	10/contact
Changes in CPAP device components [¶]	
ResMed Mirage Micro™ nasal mask	28/unit
ResMed Mirage Quattro™ full face mask	75/unit
ResMed Mirage™ FX nasal mask	24/unit
Fisher & Paykel FlexiFit™ 405 Nasal Mask	32/unit
ResMed AirFit™ Nasal Mask	24/unit
ResMed AirFit™ F10 full face mask	75/unit
Philips Respironics Pico nasal mask	19.5/unit
Sleepnet Ascend® Nasal Mask	62/unit
Sleepnet iQ® Blue Nasal masks	22/unit
Phillips Respironics Profile Lite Nasal Gel Mask	30/unit
Phillips Respironics ComfortGel Blue Nasal Mask	30/unit
Apex WiZARD 220 Full Face Mask	22/unit
ResMed's Chin Restraint	6/unit
Indirect costs	
Patient's travel costs to sleep unit	0.19/km
Patient's travel costs to CPAP's provider	0.19/km

* Estimated costs supplied by the CPAP provider.

[#] Costs based on the Catalan Institute of Health (CVE-DOGC-A-13051031-2013).

[¶] Commercial costs supplied by the CPAP provider.

TABLE S2 Sensitivity analyses of within-trial treatment and follow-up costs (average cost per randomised patient), considering 25% and 50% increases in CPAP provider costs.

	+25% CPAP provider costs			+50% CPAP provider costs		
	Standard Care	Telemedicine	p-value*	Standard Care	Telemedicine	p-value*
Direct costs, €						
Telemonitoring [#]	0	29.69	<0.001	0	35.63	<0.001
Sleep unit visits & consultations	69.25	6.73	<0.001	69.25	6.73	<0.001
CPAP provider visits & consultations	17.97	25.48	0.003	21.56	30.58	0.003
Changes in CPAP device components	79.52	69.13	0.315	79.52	69.13	0.315
Total	166.74	131.02	0.067	170.33	142.06	0.089
Indirect costs, €						
Patient travel costs to sleep unit	6.49	0.18	<0.001	6.49	0.18	<0.001
Patient travel costs to CPAP provider	1.33	3.48	0.027	1.33	3.48	0.027
Total	7.82	3.66	0.002	7.82	3.66	0.002
Average total cost per patient	174.56	134.68	0.048	178.15	145.72	0.116

Costs based on the Catalan Institute of Health (CVE-DOGC-A-13051031-2013), or supplied by the CPAP provider.

*Mann-Whitney two-sample statistic.

[#]Including 2G (GSM/GPRS) daily data transfer and patient monitoring costs.