

Study Summary Report

Comparing Life Cycle Costs

Reusable vs. Single-use Anaesthetic Equipment

Total financial costs (in AU\$) for anaesthetic equipment for scenario 1 (reusables) and scenario 2 (mainly single use) in 2015 in 2 Australian hospitals running 6 operating rooms.

Process/device	All reusable equipment	All reusable % of total	All disposable or single-use equipment except for reusable direct laryngoscope handles and videolaryngoscopes	All disposable % of total
	Scenario 1		Scenario 2	
Labour in CSSD	\$14.560	39,4%	\$-	0,0%
Washer loads	\$1.595	4,3%	\$290	0,4%
Steam sterilisation	\$815	2,2%	\$-	0,0%
H ₂ O ₂ sterilisation cycles	\$815	11,8%	\$-	0,0%
Circuits and bags	\$2.292	6,2%	\$3.850	5,6%
Face masks	\$2.482	6,7%	\$19.800	28,7%
Laryngeal Mask Airways	\$8.500	23,0%	\$13.230	19,2%
Direct laryngoscope blades	\$1.460	3,9%	\$19.350	28,0%
Direct laryngoscope blades' wrappings	\$180	0,5%	\$-	0,0%
Direct laryngoscope handles (Reusables handles used in both szenarios)	\$470	1,3%	\$470	0,7%
Videolaryngoscope blades	\$-	0,0%	\$11.500	16,7%
Videolaryngoscope handles	\$-	0,0%	\$-	0,0%
Videolaryngoscope blades' packaging	\$250	0,7%	\$250	0,4%
Waste costs (general waste at 0.25 kg -1)	\$25	0,1%	\$278	0,4%
Total	\$36.985		\$69.018	



Annual Operating Cost Savings for "all reusable" anaesthetic equipment:

~32.033 AU\$ p.a. (46%)

Source: McGain F, Story D, Lim T, McAlister S. Financial and environmental costs of reusable and single-use anaesthetic equipment. Br J Anaesth. 2017 Jun 1;118(6):862-869.