

Table S2: Mean tidal volume per compression distance (Co-efficient of variation percent), per cent inflations over 45cmH<sub>2</sub>O

Model (n = units) Part No Type: ‡ RU/SU	Mean Tidal Volume (Co-efficient of variation percent) Compression Distance mm *										Average Volume mL (CV%) *	% of inflations>45cmH <sub>2</sub> O (measurable inflations/total) ^
	15	20	25	30	35	40	45	50	55	60		
1. Laerdal (10) 845031 SU		0.4 (14.2)	4.9 (8.0)	8.0 (7.8)	10.0 (8.0)	13.8 (4.4)	16.1 (6.4)	18.5 (5.5)	19.2 (5.8)	19.5 (2.6)	12.3 (7.0)	0.7 (22/3173)
2. Portex (9) 8527MPB SU			4.1 (17.6)	7.3 (8.7)	8.5 (12.1)	12.2 (7.2)	15.1 (6.7)	18.0 (3.6)	20.0 (2.6)	20.3 (2.6)	13.2 (7.7)	0 (0/2649)
3. Galemed (10) SHMC 2203WA SU			3.9 (20.0)	8.0 (8.2)	9.4 (10.5)	12.6 (14.1)	16.6 (5.0)	18.5 (4.8)	19.6 (2.7)	19.9 (3.0)	13.6 (8.6)	0 (0/3098)
4. Vital Signs (10) 7902R SU	0.8 (17.7)	3.2 (33.6)	5.9 (10.6)	9.2 (6.6)	11.4 (6.9)	14.6 (3.5)	17.6 (4.0)	19.6 (2.1)	20.8 (3.0)	21.1 (1.6)	12.4 (9.0)	0 (0/3538)
5. Laerdal (10) 8560533 Vertical RU		3.8 (20.8)	6.9 (10.5)	9.9 (13.4)	12.6 (13.5)	16.0 (8.6)	17.6 (4.8)	19.3 (4.4)	20.1 (2.2)	20.6 (2.3)	14.1 (9.0)	0 (0/3344)
6. Laerdal (10) 850050 RU		3.1 (33.6)	5.2 (19.2)	8.1 (12.0)	10.2 (11.1)	13.2 (7.1)	15.3 (7.2)	17.4 (4.2)	17.8 (5.5)	18.3 (2.7)	12.1 (9.3)	0 (0/3448)
7. Ambu (10) SPUR II SU	2.5 (15.9)	3.8 (17.1)	6.3 (12.2)	8.6 (12.2)	10.5 (14.3)	13.7 (10.0)	15.9 (9.1)	18.2 (6.8)	19.7 (3.3)	20.3 (1.5)	12.0 (10.2)	0 (0/3652)
8. Portex (9) 8528M SU			3.2 (19.4)	6.0 (19.1)	7.1 (8.4)	11.0 (14.7)	14.0 (8.0)	17.3 (7.4)	19.7 (5.0)	20.2(6.1)	12.3 (11.0)	0 (0/2617)
9. Portex (9) 8527MP SU		0.9 (5.0)	3.2 (30.4)	6.6 (19.5)	7.6 (18.4)	11.4 (12.3)	14.7 (11.5)	17.8 (7.8)	19.6 (4.0)	20.1 (1.6)	11.3 (12.3)	0 (0/2776)
10. Headstar (10) HP9333FN SU		1.3 (42.1)	4.0 (20.9)	6.2 (20.4)	8.5 (19.1)	11.3 (19.4)	13.1 (18.8)	15.8 (16.6)	17.5 (14.6)	19.2 (12.5)	11.8 (20.5)	0.1 (2/3280)
11. Besmed (11) BE- 1703 SU	1.2 (24.1)	3.1 (25.4)	5.0 (15.2)	8.1 (8.6)	10.4 (10.4)	13.2 (8.8)	16.1 (9.1)	18.2 (9.3)	20.8 (10.4)	21.7 (9.7)	11.8 (13.1)	7.1 (272/3857)
12. Mercury (4) 1055299 SU		3.6 (0.9)	5.1 (23.6)	9.4 (3.8)	11.2 (9.6)	15.4 (4.9)	19.2 (3.3)	21.8 (2.0)	24.8 (3.8)	25.1 (7.3)	16.1 (10.7)	6.4 (82/1287)
13. Hsiner (10) PH60103 SU	1.2 (24.4)	3.1 (25.4)	5.2 (12.4)	8.2 (7.5)	10.6 (9.4)	13.4 (7.1)	16.3 (8.4)	18.4 (8.9)	21.0 (10.1)	22.0 (8.8)	12.0 (12.2)	7.7 (271/3523)
14. Hsiner (7) 60152 SU	1.9 (10.8)	3.2 (43.1)	4.9 (19.5)	8.1 (12.0)	10.0 (14.1)	12.9 (12.7)	15.4 (13.5)	17.6 (12.7)	19.8 (12.5)	21.1 (11.3)	11.5 (15.3)	4.6 (118/2571)
15. Hsiner (5) 60113 SU			1.1 (1.6)	3.4 (81.6)	3.8 (96.1)	6.2 (58.0)	9.1 (45.6)	12.1 (32.8)	14.9 (30.0)	17.4 (25.1)	8.5 (46.4)	2.9 (39/1340)
16. Hudson RCI (9) 5364 SU						8.8 (4.2)	11.6 (14.7)	14.7 (8.6)	17.5 (4.1)	18.6 (4.0)	14.2 (7.1)	0 (0/1581)
17. Besmed (10) BE-2701 SU						2.7 (5.3)	4.7 (94.8)	10.2 (47.0)	16.5 (16.5)	20.1 (7.2)	10.9 (34.2)	0 (0/1597)
18. Hsiner (10) 60113-P SU			1.5 (80.7)	2.9 (67.7)	3.8 (66.3)	7.5 (42.8)	9.8 (49.3)	13.7 (18.9)	13.0 (38.0)	15.8 (27.5)	8.5 (48.9)	0 (0/1727)
19. Zeal (5) RSB 1001 RU				2.5 (1.9)	3.5 (3.2)	3.4 (90.7)	7.9 (57.1)	12.1 (41.4)	15.3 (34.9)	18.4 (32.0)	9.0 (47.3)	3.7 (39/1057)
20. Meditrin (5) Infant 250mL RU						6.3 (54.8)	8.6 (36.0)	9.0 (41.9)	12.0 (35.1)	16.0 (18.0)	10.4 (37.2)	0 (0/569)

^ total inflation numbers are for measurable volumes  
 \* Tidal volumes by compression distances all significantly different ANOVA repeated measures p<0.001  
 ‡Type: RU = Reusable, SU = Single use