

Table 1 Participant characteristics

Descriptives	Frequency, n (%)
<i>Gender</i>	
Female	11 (34)
Male	21 (66)
<i>Level of SCI (n=30)^a</i>	
C5 and above	14 (47)
C6 to T1	6 (20)
T2 to T12	9 (30)
L1 and below	1 (3)
<i>State of residence</i>	
Australian Capital Territory	7 (22)
New South Wales	7 (22)
Queensland	6 (19)
Tasmania	1 (3)
Victoria	11 (34)

Notes. N = 32. C = cervical; L = lumbar; SCI = spinal cord injury; T = thoracic.

^a Two participants did not report the neurological level of their SCI.

Table 2 Item frequencies for all items in the eMAST 1.0.

Item	1 (very dissatisfied)	2 (somewhat dissatisfied)	3 (neither dissatisfied nor satisfied)	4 (somewhat satisfied)	5 (very satisfied)	0 (not applicable)	Mean (SD)
1. Seat shape	1	5	3	8	14	1	3.9 (1.2)
2. Seat cushioning	1	7	3	6	12	3	3.7 (1.3)
3. Arm supports	1	3	2	10	16	0	4.2 (1.1)
4. Lower leg supports	1	6	2	14	7	2	3.7 (1.2)
5. Back support	1	4	2	11	14	0	4.0 (1.1)
6. Weight of MSC	2	1	8	10	10	1	3.8 (1.1)
7. Tilt-in-space	0	2	4	0	4	22	3.6 (1.3)
8. Recline	1	0	5	5	9	12	4.1 (1.1)
9. Portability/ foldability/ packability	6	7	6	5	3	5	2.7 (1.3)
10. Brakes	1	5	6	8	10	2	3.7 (1.2)
11. Height for transfers	0	3	3	12	10	4	4.0 (1.0)
12. Works with other equipment	0	1	4	10	11	6	4.2 (0.8)
13. Propelling & manoeuvring	0	5	1	17	7	2	3.9 (1.0)
14. Fit through doorways	0	1	2	14	14	1	4.3 (0.7)
15. Fit in bathroom	0	0	3	11	18	0	4.5 (0.7)
16. Fit over toilet	0	1	4	11	11	5	4.2 (0.8)
17. Access to bowel (perianal area)	0	5	4	12	10	1	3.9 (1.1)
18. Positioning & repositioning	2	6	5	13	5	1	3.4 (1.2)
19. MSC Stability	1	7	5	8	11	0	3.7 (1.3)
20. Postural supports	1	3	7	15	6	0	3.7 (1.0)
21. MSC cleaning & maintenance	1	3	7	14	7	0	3.7 (1.0)

Note. N = 32. MSC = mobile shower commode; SD = standard deviation.

Table 3a Inter-item correlations for the eMAST 1.0 MSC Features subscale.

	1. Seat shape	2. Seat cushion	3. Arm support	4. Lower leg support	5. Back support	6. MSC Weight	7. Tilt-in-space	8. Recline	9. Port/ fold/ packa	10. Brakes
1. Seat shape	1.00	.59	.48	.33	.46	-.05	-.13	-.08	.41	.03
2. Seat cushion	.59	1.00	.14	.51	.46	.09	-.08	.08	.17	.26
3. Arm support	.48	.14	1.00	.12	.38	.08	-.15	-.22	.38	-.16
4. Lower leg support	.33	.51	.12	1.00	.58	.30	.22	.16	.06	.27
5. Back support	.46	.46	.38	.58	1.00	.46	.06	.10	.37	.24
6. MSC weight	-.05	.09	.08	.30	.46	1.00	.27	.31	.19	.16
7. Tilt-in-space	-.13	-.08	-.15	.22	.06	.27	1.00	.41	-.14	.13
8. Recline	-.07	.08	-.22	.16	.10	.31	.41	1.00	-.09	.42
9. Port/ fold/ packa	.41	.17	.38	.06	.37	.19	-.14	-.09	1.00	-.16
10. Brakes	.03	.26	-.16	.27	.24	.16	.13	.42	-.16	1.00
11. Height—transfers	-.04	-.08	-.17	.16	-.03	-.04	.04	-.13	.00	-.12
12. Works—other equipment	-.26	.12	-.26	.15	-.07	.41	.18	.29	-.17	.12
13. Propel & man.b	.12	-.04	.24	.00	.05	-.05	-.34	.12	.40	.03
14. Fit through doorways	.20	.16	-.03	.03	-.01	-.10	-.30	-.13	.08	.15
15. Fit in bathroom	.37	.30	.25	.15	.19	.03	-.26	.07	.21	.10
16. Fit over toilet	.26	.07	.02	.03	.17	-.11	.03	-.10	.06	-.03
17. Access to bowel	.40	.08	.31	.26	.12	.07	-.17	-.02	.17	-.13
18. Position& reposition b	.53	.18	.54	-.09	.21	-.17	-.26	-.21	.32	.01
19. MSC stability	.13	.08	.04	.34	.30	.27	-.05	.15	.25	.07
20. Postural support	.33	.27	.16	.26	.37	.17	.29	.47	.10	.28
21. MSC clean& mainten.d	.12	.14	.41	.28	.39	.22	.02	-.03	.21	-.06

Note. N = 32. eMAST = electronic Mobile shower commode ASsessment Tool; MSC = mobile shower commode. ^a Portability / foldability / packability; ^b Propelling & manoeuvring; ^c Positioning & repositioning; ^d MSC cleaning & maintenance.

Table 3b Inter-item correlations for the eMAST 1.0 MSC Performance subscale.

	11. Height for transfers	12. Works with other equip. ^e	13. Propel & man	14. Fit through doorways	15. Fit in bathroom	16. Fit over toilet	17. Access to bowel	18. Position & reposition ^c	19. MSC Stability	20. Postural support	21. MSC clean & mainten. ^d
1. Seat shape	-.04	-.26	.12	.20	.37	.26	.40	.53	.13	.33	.12
2. Seat cushion	-.08	.12	-.04	.16	.30	.07	.08	.18	.08	.27	.14
3. Arm support	-.17	-.26	.24	-.03	.25	.02	.31	.54	.04	.16	.41
4. Lower leg support	.16	.15	.00	.03	.15	.03	.26	-.09	.34	.26	.28
5. Back support	-.03	-.07	.05	-.01	.19	.17	.12	.21	.30	.37	.39
6. MSC weight	-.04	.41	-.05	-.10	.03	-.11	.07	-.17	.27	.17	.22
7. Tilt-in-space	.04	.18	-.34	-.30	-.26	.03	-.17	-.26	-.05	.29	.02
8. Recline	-.13	.29	.12	-.13	.07	-.09	-.02	-.21	.15	.47	-.03
9. Port/ fold/packa.	.00	-.17	.36	.08	.21	.06	.17	.32	.25	.10	.21
10. Brakes	-.12	.12	.03	.15	.10	-.03	-.13	.01	.07	.28	-.06
11. Height—transfers	1.00	-.03	.27	.41	.27	.28	.34	.07	.19	.01	.38
12. Works—other equipment	-.03	1.00	.01	.14	.21	.00	-.21	-.33	.01	-.03	-.20
13. Propel & man. ^b	.27	.01	1.00	.53	.49	.16	.35	.33	.09	.15	.13
14. Fit through doorways	.41	.14	.53	1.00	.78	.46	.31	.19	.07	.06	-.04
15. Fit in bathroom	.27	.21	.49	.78	1.00	.39	.45	.34	.20	.37	.20
16. Fit over toilet	.28	.00	.16	.46	.39	1.00	.15	.24	-.24	.01	-.02
17. Access to bowel	.34	-.21	.35	.31	.45	.15	1.00	.45	.21	.07	.42
18. Position& reposition ^c	.07	-.33	.33	.19	.34	.24	.45	1.00	-.01	.18	.33
19. MSC stability	.19	.01	.09	.07	.20	-.24	.21	-.01	1.00	.35	.40
20. Postural support	.01	-.03	.15	.06	.37	.01	.07	.18	.35	1.00	.32
21. MSC clean& mainten. ^d	.38	-.20	.13	-.04	.20	-.02	.42	.33	.40	.32	1.00

Note. N = 32. eMAST = electronic Mobile shower commode ASessment Tool; MSC = mobile shower commode. ^a Portability / foldability / packability; ^b Propelling & manoeuvring; ^c Positioning & repositioning; ^d MSC cleaning & maintenance; ^e Works with other equipment.

Table 4 Item analysis

	Scale Mean if Item Deleted	Scale Variance if Item Deleted	Corrected Item-Total Correlation	Squared Multiple Correlation	Cronbach's Alpha if Item Deleted
1. Seat shape	68.97	123.386	0.456	0.807	0.702
2. Seat cushioning	69.41	121.926	0.398	0.697	0.706
3. Arm supports	68.63	132.371	0.232	0.721	0.720
4. Lower leg supports	69.34	121.265	0.513	0.731	0.697
5. Back support	68.75	123.484	0.576	0.740	0.697
6. Weight of MSC	69.09	128.023	0.332	0.652	0.713
7. Tilt in space	71.66	134.943	0.029	0.647	0.743
8. Recline	70.25	124.774	0.207	0.701	0.729
9. Portability / foldability / packability	70.50	127.290	0.276	0.567	0.717
10. Brakes	69.31	130.028	0.216	0.522	0.722
11. Height for transfers	69.25	130.581	0.170	0.620	0.727
12. Works with other equipment	69.38	134.629	0.037	0.673	0.742
13. Propelling and manoeuvring	69.16	128.394	0.308	0.736	0.715
14. Fit through doorways	68.59	130.701	0.318	0.869	0.715
15. Fit in bathroom	68.31	130.093	0.587	0.885	0.708
16. Fit over toilet	69.25	129.226	0.187	0.527	0.726
17. Access to bowel (perianal area)	69.03	127.451	0.375	0.752	0.710
18. Positioning & repositioning	69.47	130.064	0.261	0.673	0.718
19. MSC Stability	69.13	129.145	0.307	0.531	0.715
20. Postural supports	69.09	127.055	0.510	0.733	0.704
21. MSC cleaning & maintenance	69.06	129.286	0.395	0.726	0.711

Note. N = 32. MSC = mobile shower commode.

Table 5 Test-retest reliability

Items	ICC (3,1)	95% CI	
		Lower bound	Upper bound
MSC Features			
1. Seat shape	.43	.08	.69
2. Seat cushioning	.62	.33	.81
3. Arm supports	.46	.09	.71
4. Lower leg supports	.78	.57	.89
5. Back support	.62	.31	.81
6. Weight of MSC	.78	.57	.89
7. Tilt-in-space	.87	.73	.94
8. Recline	.33	-.56	.63
9. Portability/ foldability/ packability	.82	.64	.91
10. Brakes	.76	.54	.88
<i>Overall MSC Features</i>	<i>.78</i>	<i>.58</i>	<i>.89</i>
MSC Performance			
11. Height for transfers	.50	.17	.73
12. Works with other equipment	.70	.44	.85
13. Propelling and manoeuvring	.32	-.08	.62
14. Fit through doorways	.72	.47	.86
15. Fit in bathroom	.44	.08	.70
16. Fit over toilet	.78	.57	.89
17. Access to bowel (perianal area)	.59	.28	.79
18. Positioning & repositioning	.79	.59	.90
19. Stability	.72	.47	.86
20. Postural support	.66	.38	.83
21. MSC is easy to clean & maintain	.32	-.07	.62
<i>Overall MSC Performance</i>	<i>.61</i>	<i>.31</i>	<i>.80</i>
<i>Overall eMAST 1.0</i>	<i>.75</i>	<i>.53</i>	<i>.88</i>

Note. $n = 27$. CI = confidence interval; ICC = intra class coefficient; eMAST = electronic Mobile shower commode ASsessment Tool; MSC = mobile shower commode.

Table 6 Convergent validity

Item	Mean (SD)	Correlations with eMAST 1.0 (Sig. 2-tailed)		
		Full scale	Features subscale	Performance subscale
eMAST 1.0 (<i>N</i> = 32)				
Full scale	3.9 (0.6)			
Features subscale	3.8 (0.7)			
Performance subscale	3.9 (0.6)			
QUEST 2.0 (<i>n</i> = 31) ^a				
Full scale	3.4 (0.7)	.65** (.001)	.60** (.001)	.60** (.001)
Devices subscale	3.5 (0.7)	.70** (.001)	.61** (.001)	.68** (.001)
SUS (<i>n</i> = 31) ^a				
Full scale	75.1 (16.0)	.63** (.001)	.44** (.003)	.71** (.001)
Usability subscale	72.5 (16.0)	.67** (.001)	.21** (.003)	.71** (.001)
Learnability subscale	85.5 (18.0)	.33 (.001)	.21 (.258)	.40* (.027)

Note. eMAST = electronic Mobile shower commode ASsessment Tool; QUEST 2.0 = Quebec Evaluation of Satisfaction with assistive Technology, Version 2; SUS = System Usability Scale (modified).

^a One participant did not complete the QUEST 2.0 or the modified SUS.

** Correlation is significant at the .01 level (2-tailed).

* Correlation is significant at the .05 level (2-tailed).