

## Multimedia Appendix 3:

*The estimated item locations, item discriminations, and factor loadings.*

Item number		Item location (95% CI)	Factor loading	Item discrimination (95% CI)
<i>1. Using technology to process health information</i>				
7		2.04 (1.61-2.46)	0.77	2.12 (1.61-2.64)
11		0.69 (0.32-1.05)	0.80	2.33 (1.73-2.93)
13		0.25 (-0.14 to 0.64)	0.64	2.07 (1.59-2.56)
20		-2.16 (-2.79 to -1.53)	0.52	1.07 (0.81-1.32)
25		-0.97 (-1.43 to -0.51)	0.57	1.53 (1.17-1.88)
<i>Composite scale reliability (95% CIs) 0.84 (0.81-0.87)</i>				
<i>Cronbach alpha .84</i>				
<i>2. Understanding of health concepts and language</i>				
5		2.35 (1.73-2.98)	0.60	1.36 (1.01-1.71)
12		2.37 (1.89-2.84)	0.80	2.68 (1.86-3.50)
15		1.53 (1.05-2.01)	0.62	1.79 (1.32-2.26)
21		3.27 (2.54-4.01)	0.60	1.45 (1.08-1.83)
26		2.31 (1.61-3.01)	0.43	1.03 (0.75-1.31)
<i>Composite scale reliability (95% CIs) 0.75 (0.75-0.82)</i>				
<i>Cronbach alpha .77</i>				
<i>3. Ability to actively engage with digital services</i>				
4		1.88 (1.43- 2.33)	0.76	2.07 (1.59-2.55)
6		1.57 (1.18-1.96)	0.84	3.07 (2.29-3.86)
8		0.51 (-0.02-1.03)	0.51	0.93 (0.70-1.15)
17		1.34 (0.94-1.74)	0.78	2.61 (1.97-3.24)
32		0.54 (0.12-0.97)	0.60	1.97 (1.51-2.43)
<i>Composite scale reliability (95% CIs) 0.86 (0.83-0.88)</i>				
<i>Cronbach alpha .86</i>				
<i>4. Feel safe and in control</i>				
1		0.90 (0.51-1.29)	0.81	2.49 (1.92-3.06)
10		0.40 (0.04-0.76)	0.83	3.47 (2.58-4.35)
14		-0.78 (-1.34 to	0.43	1.05 (0.80-1.29)

		-0.23)		
22		0.12 (-0.25 to 0.49)	0.82	2.56 (1.96-3.15)
30		0.97 (0.55-1.39)	0.71	2.10 (1.63-2.58)
<i>Composite scale reliability (95% CIs) 0.87 (0.84-0.89)</i>				
<i>Cronbach alpha .86</i>				
<i>5. Motivated to engage with digital services</i>				
2		0.13 (-0.37 to 0.62)	0.68	1.13 (0.86-1.40)
19		-0.16 (-0.56 to 0.29)	0.79	2.19 (1.64-2.75)
24		-0.50 (-0.92 to -0.75)	0.67	2.17 (1.65-2.69)
27		0.20 (-0.20 to 0.59)	0.63	2.38 (1.76-2.99)
35		1.05 (0.61-1.49)	0.71	1.86 (1.41-2.30)
<i>Composite scale reliability (95% CIs) 0.84 (0.81-0.87)</i>				
<i>Cronbach alpha .85</i>				
<i>6. Access to digital services that work</i>				
3		2.16 (1.14-3.17)	0.59	0.55 (0.37-0.73)
9		0.21 (-0.30 to 0.72)	0.44	1.20 (0.89-1.50)
16		0.23 (-0.35 to 0.81)	0.43	0.86 (0.63-1.09)
23		-3.43 (-4.53 to -2.32)	0.54	0.79 (0.56-1.02)
29		-0.47 (-0.92 to -0.01)	0.65	1.91 (1.43-2.39)
34		0.16 (-0.21 to 0.53)	0.75	3.22 (2.15-4.29)
<i>Composite scale reliability (95% CIs) 0.77 (0.73-0.81)</i>				
<i>Cronbach alpha .77</i>				
<i>7. Digital services that suit individual needs</i>				
18		-1.00 (-1.46 to -0.55)	0.75	2.01 (1.54-2.49)
28		-1.10 (-1.53 to -0.67)	0.79	3.14 (2.32-3.96)
31		-0.15 (-0.57 to 0.27)	0.72	2.64 (2.00-3.29)
33		0.17 (-0.23 to 0.56)	0.75	2.45 (1.82-3.07)
<i>Composite scale reliability (95% CIs) 0.85 (0.82-0.88)</i>				
<i>Cronbach alpha .85</i>				