Appendix 5. Baseline characteristics of children those with no previous exposure to virtual reality (intention-to-treat analysis)

	Standard care (n=39)	VR intervention (n=40)
Age (months)	48 [48-49]	48 [48-49]
Female sex	14 (35.9)	23 (59)
Primary language - English	37 (94.9)	37 (92.5)
Needle apprehension	2 [1-3]	2 [1-2]
Vision concerns	0 (0)	0 (0)
Behavioural concerns	1 (2.6)	1 (2.5)
Developmental concerns	1 (2.6)	0 (0)
Medical history ^A	4 (10.3)	4 (10)

Data are given as the median [interquartile range] or n (%).

Data regarding sex were missing for one child in the virtual reality (VR) group.

Appendix 6. Pain, distress and enjoyment scores in those with no previous exposure to virtual reality (intention-to-treat analysis)

	Standard care (n=39)	VR intervention (n=40)	P-value
Child rating of pain/distress			
Faces Pain Scale - Revised	2 [0-8]	2 [0-6]	0.08
Poker chip tool	2 [1-4]	1 [1-2]	0.11
Observer ratings of pain/distress			
Parent rating of pain (VAS)	23 [7-73]	11.5 [1–28]	0.019
Parent rating of distress (VAS)	27 [4-78]	6.5 [0-30]	0.004
Practitioner rating of pain (VAS)	23 [10-70]	12 [3.5–21.5]	0.007
Practitioner rating of distress (VAS)	23 [7-79]	10 [0-22]	0.004
Enjoyment	1 [1-2]	2 [2-3]	<0.001

Unless indicated otherwise, data are presented as the median [interquartile range]. P-values were calculated using the Wilcoxon rank-sum test.

Enjoyment data were missing for eight children in the standard care group.

Poker chip tool data were missing for one child in the virtual reality (VR) group.

AMedical history not given for reasons of anonymity.