Table S1. search strategy PubMed

Search	Query	Items found	Time
	Search 22-03-2020 (after re-run)		
#99	Search ((((((((((((((((((((((child[MeSH Terms]) OR child) OR children) OR child, preschool[MeSH Terms]) OR preschool child) OR preschool children) OR pediatrics[MeSH Terms]) OR pediatric) OR adolescent[MeSH Terms]) OR adolescents) OR teens) OR teen) OR teenagers) OR teenager) OR minors[MeSH Terms]) OR minor)) AND ((((((((((((burns[MeSH Terms]) OR burns, chemical[MeSH Terms]) OR burns, electric[MeSH Terms]) OR burn) OR burns) OR burn injury) OR burn injuries) OR burn, electric) OR burn, chemical) OR scald) OR scalds) OR debridement[MeSH Terms]) OR debridements)) AND ((((((((((hospitalization[MeSH Terms]) OR hospitalizations) OR child, hospitalized[MeSH Terms]) OR children, hospitalized) OR hospitals[MeSH Terms]) OR hospital) OR inpatients[MeSH Terms]) OR inpatient) OR burn units[MeSH Terms]) OR burn unit) OR burn center))) AND ((((((((((((((((((((virtual reality[MeSH Terms]) OR virtual reality) OR virtual realities) OR virtual reality therapy) OR virtual reality therapies) OR virtual reality immersion therapy) OR computer simulation) OR computer simulations) OR multimedia) OR multimedium) OR application, mobile) OR applications, mobile) OR mobile apps) OR portable software apps) OR computer assisted therapy) OR computer assisted therapies) OR virtual reality exposure therapy[MeSH Terms]) OR multimedia[MeSH Terms]) OR mobile applications[MeSH Terms]) OR therapy, computer-assisted[MeSH Terms])) AND ((((((((((((((((((((((((((((((pain[MeSH Terms]) OR pain) OR pains) OR acute pain[MeSH Terms]) OR acute pain) OR pain, procedural[MeSH Terms]) OR pain, procedural) OR breakthrough pain) OR anxiety[MeSH Terms]) OR anxiety) OR fear[MeSH Terms]) OR fear) OR fears) OR painful[MeSH Terms]) OR painful) OR distress) OR pain perception[MeSH Terms]) OR pain perception) OR pain perceptions) OR pain management[MeSH Terms]) OR pain management) OR painful procedures[MeSH Terms]) OR painful procedures) OR severe pain) OR pain distraction children[MeSH Terms]) OR pain distraction children) OR self-reported pain[MeSH Terms]) OR self-reported pain) OR observer-reported pain[MeSH Terms]) OR observer-reported pain) OR behavioral measures of pain[MeSH Terms]) OR behavioral measures of pain)	41	8:31:53
#98	Search ((((((((((((((((((((child[MeSH Terms]) OR child) OR children) OR child, preschool[MeSH Terms]) OR preschool child) OR preschool children) OR pediatrics[MeSH Terms]) OR pediatric) OR adolescent[MeSH Terms]) OR adolescents) OR teens) OR teen) OR teenagers) OR teenager) OR minors[MeSH Terms]) OR minor)) AND ((((((((((((burns[MeSH Terms]) OR burns, chemical[MeSH Terms]) OR burns, electric[MeSH Terms]) OR burn) OR burns) OR burn injury) OR burn injuries) OR burn, electric) OR burn, chemical) OR scald) OR scalds) OR debridement[MeSH Terms]) OR debridements)) AND ((((((((((hospitalization[MeSH Terms]) OR hospitalizations) OR child, hospitalized[MeSH Terms]) OR children, hospitalized) OR hospitals[MeSH Terms]) OR hospital) OR inpatients[MeSH Terms]) OR inpatient) OR burn units[MeSH Terms]) OR burn unit) OR burn center)	16552	8:31:34

#97	Search ((((((((((((((((((((((((((((((pain[MeSH Terms]) OR pain) OR pains) OR acute pain[MeSH Terms]) OR acute pain) OR pain, procedural[MeSH Terms]) OR pain, procedural) OR breakthrough pain) OR anxiety[MeSH Terms]) OR anxiety) OR fear[MeSH Terms]) OR fear) OR fears) OR painful[MeSH Terms]) OR painful) OR distress) OR pain perception[MeSH Terms]) OR pain perception) OR pain perceptions) OR pain management[MeSH Terms]) OR pain management) OR painful procedures[MeSH Terms]) OR painful procedures) OR severe pain) OR pain distraction children[MeSH Terms]) OR pain distraction children) OR self-reported pain[MeSH Terms]) OR self-reported pain) OR observer-reported pain[MeSH Terms]) OR observer-reported pain) OR behavioral measures of pain[MeSH Terms]) OR behavioral measures of pain	1207617	8:31:01
#96	Search behavioral measures of pain	11419	8:29:12
#95	Search behavioral measures of pain[MeSH Terms]	6413	8:29:06
#94	Search observer-reported pain	30	8:28:47
#93	Search observer-reported pain[MeSH Terms]	16	8:28:39
#92	Search self-reported pain	22957	8:28:24
#91	Search self-reported pain[MeSH Terms]	10904	8:28:18
#90	Search pain distraction children	594	8:27:25
#89	Search pain distraction children[MeSH Terms]	466	8:27:20
#88	Search severe pain	70684	8:26:39
#87	Search painful procedures	381130	8:26:30
#86	Search painful procedures[MeSH Terms]	39448	8:26:26
#85	Search pain management	126092	8:26:00
#84	Search pain management[MeSH Terms]	32754	8:25:53
#83	Search pain perceptions	23905	8:25:33
#82	Search pain perception	20396	8:25:25
#81	Search pain perception[MeSH Terms]	4858	8:25:14
#80	Search distress	125709	8:24:58
#79	Search painful	840995	8:24:50
#78	Search painful[MeSH Terms]	388609	8:24:44
#77	Search fears	82825	8:24:26
#76	Search fear	75534	8:24:21
#75	Search fear[MeSH Terms]	32227	8:24:16
#74	Search anxiety	233847	8:24:05
#73	Search anxiety[MeSH Terms]	82587	8:23:57
#72	Search breakthrough pain	1499	8:23:46
#71	Search pain, procedural	4085	8:23:27
#70	Search pain, procedural[MeSH Terms]	348	8:23:16
#69	Search acute pain	83405	8:22:45

#68	Search acute pain[MeSH Terms]	2030	8:22:28
#67	Search pains	819418	8:22:14
#66	Search pain	815429	8:22:10
#65	Search pain[MeSH Terms]	388609	8:22:04
#64	Search ((((((((((((((((((virtual reality[MeSH Terms]) OR virtual reality) OR virtual realities) OR virtual reality therapy) OR virtual reality therapies) OR virtual reality immersion therapy) OR computer simulation) OR computer simulations) OR multimedia) OR multimedium) OR application, mobile) OR applications, mobile) OR mobile apps) OR portable software apps) OR computer assisted therapy) OR computer assisted therapies) OR virtual reality exposure therapy[MeSH Terms]) OR multimedia[MeSH Terms]) OR mobile applications[MeSH Terms]) OR therapy, computer-assisted[MeSH Terms]	374107	8:21:05
#63	Search therapy, computer-assisted[MeSH Terms]	62399	8:20:01
#62	Search mobile applications[MeSH Terms]	5338	8:19:31
#61	Search multimedia[MeSH Terms]	1905	8:18:47
#60	Search virtual reality exposure therapy[MeSH Terms]	581	8:18:33
#59	Search computer assisted therapies	83652	8:17:47
#58	Search computer assisted therapy	83286	8:17:32
#57	Search portable software apps	10665	8:17:11
#56	Search mobile apps	11852	8:16:48
#55	Search applications, mobile	10655	8:16:41
#54	Search application, mobile	18458	8:16:27
#53	Search multimedium	6549	8:16:01
#52	Search multimedia	6545	8:15:49
#51	Search computer simulations	268212	8:15:41
#50	Search computer simulation	254410	8:15:30
#49	Search virtual reality immersion therapy	1001	8:15:20
#48	Search virtual reality therapies	1094	8:15:01
#47	Search virtual reality therapy	2666	8:14:49
#46	Search virtual realities	83	8:14:33
#45	Search virtual reality	11080	8:14:21
#44	Search virtual reality[MeSH Terms]	1559	8:14:07
#43	Search ((((((((((hospitalization[MeSH Terms]) OR hospitalizations) OR child, hospitalized[MeSH Terms]) OR children, hospitalized) OR hospitals[MeSH Terms]) OR hospital) OR inpatients[MeSH Terms]) OR inpatient) OR burn units[MeSH Terms]) OR burn unit) OR burn center	5031415	8:12:51
#42	Search burn center	13583	8:12:16
#41	Search burn unit	7889	8:11:59
#40	Search burn units[MeSH Terms]	2520	8:11:53

#39	Search inpatient	114259	8:11:38
#38	Search inpatients[MeSH Terms]	21091	8:11:33
#37	Search hospital	4879551	8:11:23
#36	Search hospitals[MeSH Terms]	270189	8:11:14
#35	Search children, hospitalized	26811	8:10:55
#34	Search child, hospitalized[MeSH Terms]	6572	8:10:39
#33	Search hospitalizations	323395	8:10:21
#32	Search hospitalization[MeSH Terms]	233131	8:10:02
#31	Search ((((((((((burns[MeSH Terms]) OR burns, chemical[MeSH Terms]) OR burns, electric[MeSH Terms]) OR burn) OR burns) OR burn injury) OR burn injuries) OR burn, electric) OR burn, chemical) OR scald) OR scalds) OR debridement[MeSH Terms]) OR debridements	143952	8:09:30
#30	Search debridements	32418	8:08:43
#29	Search debridement[MeSH Terms]	16002	8:08:32
#28	Search scalds	838	8:08:17
#27	Search scald	1960	8:08:12
#26	Search burn, chemical	9753	8:08:07
#25	Search burn, electric	3496	8:07:54
#24	Search burn injuries	100384	8:07:44
#23	Search burn injury	100942	8:07:32
#22	Search burns	98515	8:07:22
#21	Search burn	113408	8:07:17
#20	Search burns, electric[MeSH Terms]	2360	8:07:10
#19	Search burns, chemical[MeSH Terms]	6370	8:06:54
#18	Search burns[MeSH Terms]	57039	8:06:31
#17	Search ((((((((((((((child[MeSH Terms]) OR child) OR children) OR child, preschool[MeSH Terms]) OR preschool child) OR preschool children) OR pediatrics[MeSH Terms]) OR pediatric) OR adolescent[MeSH Terms]) OR adolescents) OR teens) OR teen) OR teenagers) OR teenager) OR minors[MeSH Terms]) OR minor	3997042	8:05:58
#16	Search minor	235099	8:05:02
#15	Search minors[MeSH Terms]	2560	8:04:57
#14	Search teenager	2048914	8:04:44
#13	Search teenagers	2050371	8:04:36
#12	Search teen	2049231	8:04:28
#11	Search teens	2049561	8:04:24
#10	Search adolescents	2078162	8:04:10
#9	Search adolescent[MeSH Terms]	1993023	8:03:59
#8	Search pediatric	780386	8:03:40

#7	Search pediatrics[MeSH Terms]	57033	8:03:31
#6	Search preschool children	908605	8:03:11
#5	Search preschool child	906709	8:02:39
#4	Search child, preschool[MeSH Terms]	903532	8:02:26
#3	Search children	2452667	8:02:04
#2	Search child	2200467	8:01:52
#1	Search child[MeSH Terms]	1879831	8:01:44

Table S2. search strategy CINAHL

Search 22-03-2020 (after re-run)				
Search	**Query**	**Limiters/Expanders**	**Last Run Via**	**Results**
S16	S6 AND S11 AND S12 AND S15	Expanders - Apply equivalent subjects Search modes - Boolean/Phrase	Interface - EBSCOhost Research Databases Search Screen - Advanced Search Database - CINAHL	6
S15	S13 OR S14	Expanders - Apply equivalent subjects Search modes - Boolean/Phrase	Interface - EBSCOhost Research Databases Search Screen - Advanced Search Database - CINAHL	215874
S14	MM Pain Management	Expanders - Apply equivalent subjects Search modes - Boolean/Phrase	Interface - EBSCOhost Research Databases Search Screen - Advanced Search Database - CINAHL	3611
S13	MH Pain+	Expanders - Apply equivalent subjects Search modes - Boolean/Phrase	Interface - EBSCOhost Research Databases Search Screen - Advanced Search Database - CINAHL	214247

S12	MH Virtual Reality+	Expanders - Apply equivalent subjects Search modes - Boolean/Phrase	Interface - EBSCOhost Research Databases Search Screen - Advanced Search Database - CINAHL	5207
S11	S7 OR S8 OR S9 OR S10	Expanders - Apply equivalent subjects Search modes - Boolean/Phrase	Interface - EBSCOhost Research Databases Search Screen - Advanced Search Database - CINAHL	14186
S10	MM Burn Patients	Expanders - Apply equivalent subjects Search modes - Boolean/Phrase	Interface - EBSCOhost Research Databases Search Screen - Advanced Search Database - CINAHL	675
S9	MM Burns, Chemical	Expanders - Apply equivalent subjects Search modes - Boolean/Phrase	Interface - EBSCOhost Research Databases Search Screen - Advanced Search Database - CINAHL	742
S8	MM Burns, Electric	Expanders - Apply equivalent subjects Search modes - Boolean/Phrase	Interface - EBSCOhost Research Databases Search Screen - Advanced Search Database - CINAHL	445

S7	MM Burns	Expanders - Apply equivalent subjects Search modes - Boolean/Phrase	Interface - EBSCOhost Research Databases Search Screen - Advanced Search Database - CINAHL	12591
S6	S1 OR S2 OR S3 OR S4 OR S5	Expanders - Apply equivalent subjects Search modes - Boolean/Phrase	Interface - EBSCOhost Research Databases Search Screen - Advanced Search Database - CINAHL	558765
S5	MH Adolescence+	Expanders - Apply equivalent subjectsSearch modes - Boolean/Phrase	Interface - EBSCOhost Research DatabasesSearch Screen - Advanced SearchDatabase - CINAHL	555459
S4	(MM "Minors (Legal)")	Expanders - Apply equivalent subjects Search modes - Boolean/Phrase	Interface - EBSCOhost Research Databases Search Screen - Advanced Search Database - CINAHL	407
S3	MM Child, Preschool	Expanders - Apply equivalent subjects Search modes - Boolean/Phrase	Interface - EBSCOhost Research Databases Search Screen - Advanced Search Database - CINAHL	374

S2	MM Child, Hospitalized	Expanders - Apply equivalent subjects Search modes - Boolean/Phrase	Interface - EBSCOhost Research Databases Search Screen - Advanced Search Database - CINAHL	3338
S1	MM Child	Expanders - Apply equivalent subjects Search modes - Boolean/Phrase	Interface - EBSCOhost Research Databases Search Screen - Advanced Search Database - CINAHL	415

Table S3. search strategy Embase

Search	Query	Results
	Search 22-03-2020 (after re-run)	
#28	('virtual reality'/exp OR 'virtual reality' OR 'virtual reality exposure therapy' OR 'virtual reality simulator') AND ('pain'/exp OR pain OR 'pain management'/exp OR 'analgesia'/exp OR analgesia) AND ('burn'/exp OR burn OR 'burn patient' OR 'burn patient'/exp OR 'electric burn'/exp OR 'electric burn' OR 'chemical burn' OR 'chemical burn'/exp) AND ('preschool child' OR 'preschool child'/exp OR 'adolescent'/exp OR adolescent OR 'children'/exp OR children)	48
#27	preschool child' OR 'preschool child'/exp OR 'adolescent'/exp OR adolescent OR 'children'/exp OR children	4311987
#26	children	1923545
#25	children'/exp	2855524
#24	adolescent	1745012
#23	adolescent'/exp	1645129
#22	preschool child'/exp	617266
#21	preschool child'	617536
#20	burn'/exp OR burn OR 'burn patient' OR 'burn patient'/exp OR 'electric burn'/exp OR 'electric burn' OR 'chemical burn' OR 'chemical burn'/exp	106550
#19	chemical burn'/exp '	4861
#18	chemical burn'/exp '	5102
#17	electric burn'	2490
#16	electric burn'/exp	2454
#15	burn patient'/exp	4888
#14	burn patient'	5609

#13	burn	101521
#12	burn'/exp	78174
#11	pain'/exp OR pain OR 'pain management'/exp OR 'analgesia'/exp OR analgesia	1723216
#10	analgesia	216944
#9	analgesia'/exp	167124
#8	pain management'/exp	167124
#7	pain	1309657
#6	pain'/exp	1321444
#5	virtual reality'/exp OR 'virtual reality' OR 'virtual reality exposure therapy' OR 'virtual reality simulator'	22291
#4	virtual reality simulator'	834
#3	virtual reality exposure therapy'	714
#2	virtual reality	22291
#1	virtual reality'/exp	16681

Table S4. screening process

Results

Pubmed (40)

N°	Author	Title
1	Al-Ghamdi N.A.	Virtual Reality Analgesia With Interactive Eye Tracking During Brief Thermal Pain Stimuli: A Randomized Controlled Trial (Crossover Design).
2	Wang Y.L.	Immersive virtual reality as analgesia for women during hysterosalpingography: study protocol for a randomized controlled trial.
3	Hornsby N.	Psychosocial Interventions Targeting Recovery in Child and Adolescent Burns: A Systematic Review.
4	Wu W.W.	[Design and application of mobile soothing screen for dressing change of children with burns of limb].
5	Hoffman H.G.	Immersive Virtual Reality as an Adjunctive Non-opioid Analgesic for Pre-dominantly Latin American Children With Large Severe Burn Wounds During Burn Wound Cleaning in the Intensive Care Unit: A Pilot Study.
6	Eijlers R.	Systematic Review and Meta-analysis of Virtual Reality in Pediatrics: Effects on Pain and Anxiety.
7	Wojciechowski E.	Feasibility of designing, manufacturing and delivering 3D printed ankle-foot orthoses: a systematic review.
8	Wolbrink T.A.	The Top Ten Websites in Critical Care Medicine Education Today.
9	Khadra C.	Projector-based virtual reality dome environment for procedural pain and anxiety in young children with burn injuries: a pilot study.
10	Scapin S.Q.	Use of virtual reality for treating burned children: case reports.
11	Gomez J.	The Use of Virtual Reality Facilitates Dialectical Behavior Therapy® "Observing Sounds and Visuals" Mindfulness Skills Training Exercises for a Latino Patient with Severe Burns: A Case Study.
12	Pardesi O.	Pain Management in Pediatric Burn Patients: Review of Recent Literature and Future Directions.
13	Ghanouni P.	Magnetic resonance-guided focused ultrasound treatment of extra-abdominal desmoid tumors: a retrospective multicenter study.

14	Brown N.J.	Cost-Effectiveness of a Nonpharmacological Intervention in Pediatric Burn Care.
15	Knudsen M.	Computed tomography-guided radiofrequency ablation is a safe and effective treatment of osteoid osteoma located outside the spine.
16	Glazer T.A.	Transoral robotic surgery for obstructive sleep apnea: perioperative management and postoperative complications.
17	Rowe H.	A cluster randomised controlled trial of a brief couple-focused psychoeducational intervention to prevent common postnatal mental disorders among women: study protocol.
18	Jeffs D.	Effect of virtual reality on adolescent pain during burn wound care.
19	Liu L.	[Effectiveness and safety assessments of thoracoscopic thoracic tuberculosis clearance and internal fixation with bone grafting supported by digital technology].
20	Liu G.	Ultrasound-guided intralesional diode laser treatment of congenital extratruncular venous malformations: mid-term results.
21	Brown N.J.	Play and heal: randomized controlled trial of Ditto™ intervention efficacy on improving re-epithelialization in pediatric burns.
22	Faber A.W.	Repeated use of immersive virtual reality therapy to control pain during wound dressing changes in pediatric and adult burn patients.
23	Brown N.J.	Efficacy of a children's procedural preparation and distraction device on healing in acute burn wound care procedures: study protocol for a randomized controlled trial.
24	Kipping B.	Virtual reality for acute pain reduction in adolescents undergoing burn wound care: a prospective randomized controlled trial.
25	Louw Q.	Measuring children's distress during burns dressing changes: literature search for measures appropriate for indigenous children in South Africa.
26	Schmitt Y.S.	A randomized, controlled trial of immersive virtual reality analgesia, during physical therapy for pediatric burns.
27	Miller M.K.	Multi-modal distraction. Using technology to combat pain in young children with burn injuries.
28	Mahrer N.	The use of virtual reality for pain control: a review.
29	Sharar S.R.	Applications of virtual reality for pain management in burn-injured patients.
30	Hoffman H.G.	Virtual reality pain control during burn wound debridement in the hydrotank.
31	Miller K.	The emergence of multi-modal distraction as a paediatric pain management tool.
32	Mott J.	The efficacy of an augmented virtual reality system to alleviate pain in children undergoing burns dressing changes: a randomised controlled trial.
33	Sharar S.R.	Factors influencing the efficacy of virtual reality distraction analgesia during postburn physical therapy: preliminary results from 3 ongoing studies.
34	Van Twillert B.	Computer-generated virtual reality to control pain and anxiety in pediatric and adult burn patients during wound dressing changes.

35	Chan E.A.	Application of a virtual reality prototype for pain relief of pediatric burn in Taiwan.
36	Haik J.	The use of video capture virtual reality in burn rehabilitation: the possibilities.
37	Hoffman H.G.	Using FMRI to study the neural correlates of virtual reality analgesia.
38	Das D.A.	The efficacy of playing a virtual reality game in modulating pain for children with acute burn injuries: a randomized controlled trial [ISRCTN87413556].
39	Hoffman H.G.	Effectiveness of virtual reality-based pain control with multiple treatments.
40	Hoffman H.G.	Use of virtual reality for adjunctive treatment of adult burn pain during physical therapy: a controlled study.

CINAHL (5)

N°	Author	Title
1	Jeffs D.	Effect of virtual reality on adolescent pain during burn wound care.
2	Faber A.W.	Repeated use of immersive virtual reality therapy to control pain during wound dressing changes in pediatric and adult burn patients.
3	Schmitt Y.S.	A randomized, controlled trial of immersive virtual reality analgesia, during physical therapy for pediatric burns.
4	Mott J.	The efficacy of an augmented virtual reality system to alleviate pain in children undergoing burns dressing changes: a randomised controlled trial.
5	Hoffman H.G.	Virtual reality pain control during burn wound debridement in the hydrotank.

Embase (48)

N°	Author	Title
1	Gates M.	Digital technology distraction for acute pain in children: A Meta-analysis.
2	Al-Ghamdi N.A	Virtual Reality Analgesia With Interactive Eye Tracking During Brief Thermal Pain Stimuli: A Randomized Controlled Trial (Crossover Design).
3	Hornsby N.	Psychosocial Interventions Targeting Recovery in Child and Adolescent Burns: A Systematic Review.
4	Eijlers R.	Systematic Review and Meta-analysis of Virtual Reality in Pediatrics: Effects on Pain and Anxiety.
5	Furness P.J.	Reducing Pain during Wound Dressings in Burn Care Using Virtual Reality: A Study of Perceived Impact and Usability with Patients and Nurses.
6	Hoffman H.G.	Immersive Virtual Reality as an Adjunctive Non-opioid Analgesic for Pre-dominantly Latin American Children With Large Severe Burn Wounds During Burn Wound Cleaning in the Intensive Care Unit: A Pilot Study.
7	Hansen J.K.	Sedation and analgesia during pediatric burn dressing change: A survey of American burn association centers.
8	Shaw M.	Proceedings #9: Immersive Virtual Reality Rehabilitation for Patients with Multiple Sclerosis.
9	Soltani M.	Virtual reality analgesia for burn joint flexibility: A randomized controlled trial.
10	Khadra C.	Projector-based virtual reality dome environment for procedural pain and anxiety in young children with burn injuries: A pilot study.
11	Arane K.	Virtual reality for pain and anxiety management in children
12	Scapin S.Q.	Use of virtual reality for treating burned children: case reports.
13	Pardesi O.	Pain management in pediatric burn patients: Review of recent literature and future directions.
14	Gonzalez M.	Water-friendly adjunctive virtual reality pain distraction for pediatric burn patients during wound debridement in the ICU tubroom.
15	Hoffman H.G.	Auditory interactivity task increases effectiveness of virtual reality pain distraction (with and without oculus rift VR goggles).
16	Hoffman H.G.	Virtual reality pain distraction of a severe pediatric burn patient during wound debridement in the ICU tank room: A case study.
17	Hoffman H.G.	Feasibility of articulated arm mounted Oculus Rift Virtual Reality goggles for adjunctive pain control during occupational therapy in pediatric burn patients.
18	Brown N.J.	Play and heal: Randomized controlled trial of Ditto™ intervention efficacy on improving re-epithelialization in pediatric burns.
19	Hoffman H.G.	Feasibility of articulated arm mounted Oculus Rift Virtual Reality goggles for adjunctive pain control during occupational therapy in pediatric burn patients.

20	Jeffs D.	Effect of virtual reality on adolescent pain during burn wound care.
21	Faber A.W.	Repeated use of immersive virtual reality therapy to control pain during wound dressing changes in pediatric and adult burn patients.
22	Jeffs D.	Effect of virtual reality on adolescent pain during burn wound care.
23	Brown N.J.	Efficacy of a children's procedural preparation and distraction device on healing in acute burn wound care procedures: Study protocol for a randomized controlled trial.
24	Kipping B.	Virtual reality for acute pain reduction in adolescents undergoing burn wound care: A prospective.
25	Fusco H.N.	Development and feasibility of a novel gaming system for children with upper extremity burn.
26	VerLee S.	The utility of virtual reality in minimizing procedural distress with pediatric burn patients.
27	Miller K.	A novel technology approach to pain management in children with burns: A prospective randomized controlled trials.
28	Tropez-Arceneaux. L.	Pain and perceived exertion in pediatric burn patients during exercise with virtual reality.
29	Schmitt Y.S.	A randomized, controlled trial of immersive virtual reality analgesia, during physical therapy for pediatric burns.
30	Bayat A.	Analgesia and sedation for children undergoing burn wound care.
31	Sen S.	Review of burn injury research for the year 2009.
32	Miller K.	Multi-modal distraction. Using technology to combat pain in young children with burn injuries.
33	Miller K.	Multimodal distraction to relieve pain in children undergoing acute medical procedures.
34	Richard R.	Burn rehabilitation and research: Proceedings of a consensus summit.
35	Sharar S.R.	Applications of virtual reality for pain management in burn-injured patients.
36	Mott J.	The efficacy of an augmented virtual reality system to alleviate pain in children undergoing burns dressing changes: A randomised controlled trial.
37	Miller K.	The emergence of multi-modal distraction as a paediatric pain management tool.
38	Hoffman H.G.	Virtual reality pain control during burn wound debridement in the hydrotank.
39	Sharar S.R.	Factors Influencing the Efficacy of Virtual Reality Distraction Analgesia During Postburn Physical Therapy: Preliminary Results from 3 Ongoing Studies.

40	Van Twillert B.	Computer-generated virtual reality to control pain and anxiety in pediatric and adult burn patients during wound dressing changes.
41	Chan E.A.	Application of a virtual reality prototype for pain relief of pediatric burn in Taiwan.
42	Haik J.	The use of video capture virtual reality in burn rehabilitation: The possibilities.
43	Hoffman H.G.	Using fMRI to study the neural correlates of virtual reality analgesia.
44	Das D.A.	The efficacy of playing a virtual reality game in modulating pain for children with acute burn injuries: a randomized controlled trial [ISRCTN87413556].
45	Das D.A.	The efficacy of playing a virtual reality game in modulating pain for children with acute burn injuries: A randomized controlled trial [ISRCTN87413556].
46	Hoffman H.G.	Virtual-reality therapy.
47	Hoffman H.G.	Effectiveness of virtual reality-based pain control with multiple treatments.
48	Hoffman H.G.	Virtual reality as an adjunctive pain control during burn wound care in adolescent patients.

Results without duplicates

Primary screening: title and abstract (59)

N°	Author	Title	Reviewer 1	Reviewer 2	Reviewer 3	Reason of exclusion
1	Al-Ghamdi N.A.	Virtual Reality Analgesia With Interactive Eye Tracking During Brief Thermal Pain Stimuli: A Randomized Controlled Trial (Crossover Design).	0	0	0	Not the target intervention
2	Wang Y.L.	Immersive virtual reality as analgesia for women during hysterosalpingography: study protocol for a randomized controlled trial.	0	0	0	Not the target intervention
3	Hornsby N.	Psychosocial Interventions Targeting Recovery in Child and Adolescent Burns: A Systematic Review.	0	0	0	No primary research
4	Wu W.W.	[Design and application of mobile soothing screen for dressing change of children with burns of limb].	0	0	0	Not the target language
5	Hoffman H.G.	Immersive Virtual Reality as an Adjunctive Non-opioid Analgesic for Pre-dominantly Latin American Children With Large Severe Burn Wounds During Burn Wound Cleaning in the Intensive Care Unit: A Pilot Study.	1	1	1	
6	Eijlers R.	Systematic Review and Meta-analysis of Virtual Reality in Pediatrics: Effects on Pain and Anxiety.	0	0	0	No primary research
7	Wojciechowski E.	Feasibility of designing, manufacturing and delivering 3D printed ankle-foot orthoses: a systematic review.	0	0	0	Not the target intervention
8	Wolbrink T.A.	The Top Ten Websites in Critical Care Medicine Education Today.	0	0	0	Not the target intervention
9	Khadra C.	Projector-based virtual reality dome environment for procedural pain and anxiety in young children with burn injuries: a pilot study.	0	0	0	Not the target intervention
10	Scapin S.Q.	Use of virtual reality for treating burned children: case reports.	1	1	1	
11	Gomez J.	The Use of Virtual Reality Facilitates Dialectical Behavior Therapy® "Observing Sounds and Visuals" Mindfulness Skills Training Exercises for a Latino Patient with Severe Burns: A Case Study.	0	0	0	Not the target intervention
12	Pardesi O.	Pain Management in Pediatric Burn Patients: Review of Recent Literature and Future Directions.	0	0	0	No primary research
13	Ghanouni P.	Magnetic resonance-guided focused ultrasound treatment of extra-abdominal desmoid tumors: a retrospective multicenter study.	0	0	0	Not the target intervention
14	Brown N.J.	Cost-Effectiveness of a Nonpharmacological Intervention in Pediatric Burn Care.	0	0	0	Not the target intervention

15	Knudsen M.	Computed tomography-guided radiofrequency ablation is a safe and effective treatment of osteoid osteoma located outside the spine.	0	0	0	Not the target intervention
16	Glazer T.A.	Transoral robotic surgery for obstructive sleep apnea: perioperative management and postoperative complications.	0	0	0	Not the target intervention
17	Rowe H.	A cluster randomised controlled trial of a brief couple-focused psychoeducational intervention to prevent common postnatal mental disorders among women: study protocol.	0	0	0	Not the target intervention
18	Jeffs D.	Effect of virtual reality on adolescent pain during burn wound care.	1	1	1	
19	Liu L.	[Effectiveness and safety assessments of thoracoscopic thoracic tuberculosis clearance and internal fixation with bone grafting supported by digital technology].	0	0	0	Not the target intervention
20	Liu G.	Ultrasound-guided intralesional diode laser treatment of congenital extratruncular venous malformations: mid-term results.	0	0	0	Not the target intervention
21	Brown N.J.	Play and heal: randomized controlled trial of Ditto™ intervention efficacy on improving re-epithelialization in pediatric burns.	0	0	0	Not the target intervention
22	Faber A.W.	Repeated use of immersive virtual reality therapy to control pain during wound dressing changes in pediatric and adult burn patients.	1	1	1	
23	Brown N.J.	Efficacy of a children's procedural preparation and distraction device on healing in acute burn wound care procedures: study protocol for a randomized controlled trial.	0	0	0	Not the target intervention
24	Kipping B.	Virtual reality for acute pain reduction in adolescents undergoing burn wound care: a prospective randomized controlled trial.	1	1	1	
25	Louw Q.	Measuring children's distress during burns dressing changes: literature search for measures appropriate for indigenous children in South Africa.	0	0	0	No primary research
26	Schmitt Y.S.	A randomized, controlled trial of immersive virtual reality analgesia, during physical therapy for pediatric burns.	0	0	0	Not the target intervention
27	Miller M.K.	Multi-modal distraction. Using technology to combat pain in young children with burn injuries.	0	0	0	Not the target intervention
28	Mahrer N.	The use of virtual reality for pain control: a review.	0	0	0	No primary research
29	Sharar S.R.	Applications of virtual reality for pain management in burn-injured patients.	0	0	0	No primary research
30	Hoffman H.G.	Virtual reality pain control during burn wound debridement in the hydrotank.	0	0	0	Not the target intervention
31	Miller K.	The emergence of multi-modal distraction as a paediatric pain management tool.	0	0	0	Not the target intervention
32	Mott J.	The efficacy of an augmented virtual reality system to alleviate pain in children undergoing burns dressing changes: a randomised controlled trial.	1	1	1	
33	Sharar S.R.	Factors influencing the efficacy of virtual reality distraction analgesia during postburn	0	0	0	Not the target

		physical therapy: preliminary results from 3 ongoing studies.				intervention
34	Van Twillert B.	Computer-generated virtual reality to control pain and anxiety in pediatric and adult burn patients during wound dressing changes.	1	1	1	
35	Chan E.A.	Application of a virtual reality prototype for pain relief of pediatric burn in Taiwan.	1	1	1	
36	Haik J.	The use of video capture virtual reality in burn rehabilitation: the possibilities.	0	0	0	Not the target intervention
37	Hoffman H.G.	Using FMRI to study the neural correlates of virtual reality analgesia.	0	0	0	Not the target intervention
38	Das D.A.	The efficacy of playing a virtual reality game in modulating pain for children with acute burn injuries: a randomized controlled trial [ISRCTN87413556].	1	1	1	
39	Hoffman H.G.	Effectiveness of virtual reality-based pain control with multiple treatments.	1	1	1	
40	Hoffman H.G.	Use of virtual reality for adjunctive treatment of adult burn pain during physical therapy: a controlled study.	0	0	0	Not the target population
41	Gates M.	Digital technology distraction for acute pain in children: A Meta-analysis.	0	0	0	No primary research
42	Furness P.J.	Reducing Pain during Wound Dressings in Burn Care Using Virtual Reality: A Study of Perceived Impact and Usability with Patients and Nurses.	0	0	0	Not the target outcome
43	Hansen J.K.	Sedation and analgesia during pediatric burn dressing change: A survey of American burn association centers.	0	0	0	Not the target intervention
44	Shaw M.	Proceedings #9: Immersive Virtual Reality Rehabilitation for Patients with Multiple Sclerosis.	0	0	0	Not the target population
45	Arane K.	Virtual reality for pain and anxiety management in children.	0	0	0	Not the target intervention
46	Gonzalez M.	Water-friendly adjunctive virtual reality pain distraction for pediatric burn patients during wound debridement in the ICU tubroom.	0	0	0	No full text available
47	Hoffman H.G.	Auditory interactivity task increases effectiveness of virtual reality pain distraction (with and without oculus rift VR goggles).	0	0	0	Not the target intervention
48	Hoffman H.G.	Virtual reality pain distraction of a severe pediatric burn patient during wound debridement in the ICU tank room: A case study.	0	0	0	Not the target intervention
49	Hoffman H.G.	Feasibility of articulated arm mounted Oculus Rift Virtual Reality goggles for adjunctive pain control during occupational therapy in pediatric burn patients.	0	0	0	Not the target intervention
50	Fusco H.N.	Development and feasibility of a novel gaming system for children with upper extremity burn.	0	0	0	No full text available
51	VerLee S.	The utility of virtual reality in minimizing procedural distress with pediatric burn patients.	0	0	0	Not the target intervention
52	Miller K.	A novel technology approach to pain management in children with burns: A prospective randomized controlled trials.	0	0	0	Not the target intervention

53	Tropez-Arceneaux. L.	Pain and perceived exertion in pediatric burn patients during exercise with virtual reality.	0	0	0	No primary research
54	Bayat A.	Analgesia and sedation for children undergoing burn wound care.	0	0	0	No primary research
55	Sen S.	Review of burn injury research for the year 2009.	0	0	0	Not the target intervention
56	Miller K.	Multimodal distraction to relieve pain in children undergoing acute medical procedures.	0	0	0	Not the target intervention
57	Hoffman H.G.	Virtual reality as an adjunctive pain control during burn wound care in adolescent patients.	1	1	1	
58	Soltani M.	Virtual reality analgesia for burn joint flexibility: A randomized controlled trial.	0	0	0	Not the target intervention
59	Richard R.	Burn rehabilitation and research: Proceedings of a consensus summit.	0	0	0	Not the target intervention

Snowball methods: forward and backward (1)

N°	Author	Title	Reason of exclusion
1	Hua Y.	The Effect of Virtual Reality Distraction on Pain Relief During Dressing Changes in Children with Chronic Wounds on Lower Limbs.	Not the target population

Secondary screening: full text (12)

N°	Author	Title	Reviewer 1	Reviewer 2
1	Hoffman H.G.	Immersive Virtual Reality as an Adjunctive Non-opioid Analgesic for Pre-dominantly Latin American Children With Large Severe Burn Wounds During Burn Wound Cleaning in the Intensive Care Unit: A Pilot Study.	1	1
2	Scapin S.Q.	Use of virtual reality for treating burned children: case reports.	1	1
3	Jeffs D.	Effect of virtual reality on adolescent pain during burn wound care.	1	1
4	Faber A.W.	Repeated use of immersive virtual reality therapy to control pain during wound dressing changes in pediatric and adult burn patients.	Not the target population	Not the target population
5	Kipping B.	Virtual reality for acute pain reduction in adolescents undergoing burn wound care: a prospective randomized controlled trial.	1	1
6	Mott J.	The efficacy of an augmented virtual reality system to alleviate pain in children undergoing burns dressing changes: a randomised controlled trial.	Not the target intervention	Not the target intervention
7	Van Twillert B.	Computer-generated virtual reality to control pain and anxiety in pediatric and adult burn patients during wound dressing changes.	1	1
8	Chan E.A.	Application of a virtual reality prototype for pain relief of pediatric burn in Taiwan.	1	1
9	Das D.A.	The efficacy of playing a virtual reality game in modulating pain for children with acute burn injuries: a randomized controlled trial [ISRCTN87413556].	1	1
10	Hoffman H.G.	Effectiveness of virtual reality-based pain control with multiple treatments.	Not the target intervention	Not the target intervention
11	Hoffman H.G.	Virtual reality as an adjunctive pain control during burn wound care in adolescent patients.	1	1
12	Hua Y.	The Effect of Virtual Reality Distraction on Pain Relief During Dressing Changes in Children with Chronic Wounds on Lower Limbs.	Not the target population	Not the target population

Rerun

Pubmed (+1)

N°	Author	Title	Reviewer 1	Reviewer 2
1	Phelan I.	A Mixed-Methods Investigation Into the Acceptability, Usability, and Perceived Effectiveness of Active and Passive Virtual Reality Scenarios in Managing Pain Under Experimental Conditions.	Not the target intervention	Not the target intervention

CINAHL (+1)

N°	Author	Title	Reviewer 1	Reviewer 2
1	Schmitt Y.S.	A randomized, controlled trial of immersive virtual reality analgesia, during physical therapy for pediatric burns.	Duplicate	Duplicate

Embase (+0)

Included articles

N°	Author	Year	Title
1	Van Twillert B.	2007	Computer-generated virtual reality to control pain and anxiety in pediatric and adult burn patients during wound dressing changes.
2	Chan E.A.	2007	Application of a virtual reality prototype for pain relief of pediatric burn in Taiwan.
3	Das D.A.	2005	The efficacy of playing a virtual reality game in modulating pain for children with acute burn injuries: a randomized controlled trial [ISRCTN87413556].
4	Hoffman H.G.	2000	Virtual reality as an adjunctive pain control during burn wound care in adolescent patients.
5	Hoffman H.G	2019	Immersive Virtual Reality as an Adjunctive Non-opioid Analgesic for Pre-dominantly Latin American Children With Large Severe Burn Wounds During Burn Wound Cleaning in the Intensive Care Unit: A Pilot Study.
6	Scapin S.Q.	2017	Use of virtual reality for treating burned children: case reports.
7	Jeffs D.	2014	Effect of virtual reality on adolescent pain during burn wound care.
8	Kipping B.	2012	Virtual reality for acute pain reduction in adolescents undergoing burn wound care: a prospective randomized controlled trial.