Systematic Review and Meta-analysis of Virtual Reality Anxiety

Anesthesia and Analgesia 129, 1344-1353

DOI: 10.1213/ane.0000000000004165

Citation Report

#	Article	IF	CITATIONS
1	Use of Virtual Reality as a Surrogate for Parental Presence During Anesthetic Induction: A Case Report. A& A Practice, 2019, 13, 454-456.	0.2	9
2	Virtual reality exposure before elective day care surgery to reduce anxiety and pain in children. European Journal of Anaesthesiology, 2019, 36, 728-737.	0.7	103
3	The Effect of Virtual Reality on Preoperative Anxiety: A Meta-Analysis of Randomized Controlled Trials. Journal of Clinical Medicine, 2020, 9, 3151.	1.0	43
5	â€~I want to have virtual reality distraction during my colonoscopy!'. Endoscopy International Open, 2020, 08, E1389-E1391.	0.9	2
6	Use of Virtual Reality for the Management of Anxiety and Pain in Dental Treatments: Systematic Review and Meta-Analysis. Journal of Clinical Medicine, 2020, 9, 3086.	1.0	18
7	The use of virtual reality in reducing anxiety during cast removal: A randomized controlled trial. Journal of Children's Orthopaedics, 2020, 14, 574-580.	0.4	12
8	Best practices, challenges and innovations in pediatrics in 2019. Italian Journal of Pediatrics, 2020, 46, 176.	1.0	5
9	Behavioral and Emotional Disorders in Children and Their Anesthetic Implications. Children, 2020, 7, 253.	0.6	8
10	Technological Interventions for Pain Management. , 2020, , .		2
11	Pain Experience, Physical Function, Pain Coping, and Catastrophizing in Children With Sickle Cell Disease Who Had Normal and Abnormal Sensory Patterns. Journal of Pain and Symptom Management, 2020, 60, 1079-1091.	0.6	8
12	The Pediatric Burn. Anesthesiology Clinics, 2020, 38, 517-530.	0.6	5
13	Improving Reality Virtually: Advent of the Virtual "Digi-ceutical�. Mayo Clinic Proceedings, 2020, 95, 1097-1098.	1.4	O
14	Exploring the use of Immersive Virtual Reality to enhance Psychological Well-Being in Pediatric Oncology: A pilot randomized controlled trial. European Journal of Oncology Nursing, 2020, 48, 101804.	0.9	36
15	Toward interprofessional team training for surgeons and anesthesiologists using virtual reality. International Journal of Computer Assisted Radiology and Surgery, 2020, 15, 2109-2118.	1.7	27
16	Virtual reality distraction for acute pain in children. The Cochrane Library, 2020, 2020, CD010686.	1.5	38
17	Virtual reality reduces pain and fear during intravenous cannulation in the emergency department. Evidence-based Nursing, 2020, , ebnurs-2020-103253.	0.1	O
18	Use of virtual reality for epidural placement in an adolescent with ischemic priapism. Paediatric and Neonatal Pain, 2020, 2, 16-17.	0.6	2
19	Virtual reality in psychiatric disorders: A systematic review of reviews. Complementary Therapies in Medicine, 2020, 52, 102480.	1.3	123

#	ARTICLE	IF	CITATIONS
20	Association between children's emotional/behavioral problems before adenotonsillectomy and postoperative pain scores at home: Answer to a comment. Paediatric Anaesthesia, 2020, 30, 198-199.	0.6	0
21	Self-Regulation in Children with Neurodevelopmental Disorders "SR-MRehab: Un Colegio Emocionante†A Protocol Study. International Journal of Environmental Research and Public Health, 2020, 17, 4198.	1.2	9
22	Use of Augmented Reality During Inhaled Induction of General Anesthesia in 3 Pediatric Patients: A Case Report. A& A Practice, 2020, 14, e01219.	0.2	6
24	Can hypnosis and virtual reality reduce anxiety, pain and fatigue among patients who undergo cardiac surgery: a randomised controlled trial. Trials, 2020, 21, 330.	0.7	23
25	Use of Virtual Reality for the Management of Anxiety and Pain in Dental Treatments: Systematic Review and Meta-Analysis. Journal of Clinical Medicine, 2020, 9, 1025.	1.0	23
26	Predicting Intense Levels of Child Anxiety During Anesthesia Induction at Hospital Arrival. Journal of Clinical Psychology in Medical Settings, 2021, 28, 313-322.	0.8	8
27	Effects of virtual reality therapy on perceived pain intensity, anxiety, catastrophising and selfâ€efficacy among adolescents with cancer. Counselling and Psychotherapy Research, 2021, 21, 218-226.	1.7	19
28	Virtual reality for acute and chronic pain management in adult patients: a narrative review. Anaesthesia, 2021, 76, 695-704.	1.8	54
29	Virtual Reality as Distraction Analgesia and Anxiolysis for Pediatric Otolaryngology Procedures. Laryngoscope, 2021, 131, E1714-E1721.	1.1	12
30	Effect of Virtual Reality Therapy in Reducing Pain and Anxiety for Cancer-Related Medical Procedures: A Systematic Narrative Review. Journal of Pain and Symptom Management, 2021, 61, 384-394.	0.6	50
31	Effects of Virtual Reality on Pain During Venous Port Access in Pediatric Oncology Patients: A Randomized Controlled Study. Journal of Pediatric Oncology Nursing, 2021, 38, 142-151.	1.5	34
32	The use of virtual reality in the training of professionals: with the example of firefighters. Computer Animation and Virtual Worlds, 2021, 32, e1981.	0.7	7
33	Immersive virtual reality vs. nonâ€immersive distraction for pain management of children during bone pins and sutures removal: A randomized clinical trial protocol. Journal of Advanced Nursing, 2021, 77, 439-447.	1.5	22
34	Using Virtual Reality in College Student Mental Health Treatment. Advances in Higher Education and Professional Development Book Series, 2021, , 257-273.	0.1	1
35	"When virtuality merges with reality:―Application of virtual reality and augmented reality in dentistry - A literature review. SRM Journal of Research in Dental Sciences, 2021, 12, 161.	0.1	3
36	Virtual Reality as a Nonpharmacological Strategy in Pediatric Pain Control During Procedures With Needle Use. Journal of Pediatric Surgical Nursing, 2021, Publish Ahead of Print, .	0.1	0
37	Effectiveness of non-pharmacological interventions to manage anxiety in adolescents in the perioperative period: a systematic review protocol. JBI Evidence Synthesis, 2021, 19, 2863-2869.	0.6	4
39	Virtual Reality for Pain Management to Tackle the Opioid Crisis. Journal of Student Research, 2021, 10, .	0.0	0

3

#	Article	IF	CITATIONS
40	Exposure to virtual reality as a tool to reduce peri-operative anxiety in patients undergoing colorectal cancer surgery: a single-center prospective randomized clinical trial. Surgical Endoscopy and Other Interventional Techniques, 2021, 35, 4042-4047.	1.3	17
41	Advancements in Pediatric Pain Management: Crossing the Continuum of Care. Topics in Pain Management, 2021, 36, 1-8.	0.1	1
43	Virtual reality for pediatric periprocedural care. Current Opinion in Anaesthesiology, 2021, 34, 284-291.	0.9	14
44	Predictive Factors for Anxiety during Blood Sampling and Insertion of Peripheral Intravenous Catheters in Paediatric Patients in Spain. Journal of Pediatric Nursing, 2021, 61, e35-e41.	0.7	3
45	"Doc McStuffins: Doctor for a Day―Virtual Reality (DocVR) for Pediatric Preoperative Anxiety and Satisfaction: Pediatric Medical Technology Feasibility Study. Journal of Medical Internet Research, 2021, 23, e25504.	2.1	20
46	Immersive Education for Chronic Condition Self-Management. Frontiers in Virtual Reality, 2021, 2, .	2.5	5
47	Effect of Traditional Plus Virtual Reality Rehabilitation on Prognosis of Stroke Survivors. American Journal of Physical Medicine and Rehabilitation, 2022, 101, 217-228.	0.7	17
48	Contemporary Aspects of Burn Care. Medicina (Lithuania), 2021, 57, 386.	0.8	5
49	The Use of Virtual Reality Echocardiography in Medical Education. Pediatric Cardiology, 2021, 42, 723-726.	0.6	12
50	Augmented reality in anesthesia, pain medicine and critical care: a narrative review. Journal of Clinical Monitoring and Computing, 2022, 36, 33-39.	0.7	14
53	Bibliometrics and Visual Analysis of the Research Status and Trends of Postpartum Depression From 2000 to 2020. Frontiers in Psychology, 2021, 12, 665181.	1.1	10
54	An update on pediatric sedation techniques in nonoperating room locations. Current Opinion in Anaesthesiology, 2021, 34, 449-454.	0.9	1
55	The use of virtual reality in children undergoing vascular access procedures: a systematic review and meta-analysis. Journal of Clinical Monitoring and Computing, 2022, 36, 1003-1012.	0.7	6
56	Virtual reality expands the toolkit for conducting health psychology research. Social and Personality Psychology Compass, 2021, 15, e12606.	2.0	15
57	Feasibility and tolerability of ophthalmic virtual reality as a medical communication tool in children and young people. Acta Ophthalmologica, 2021, , .	0.6	4
58	The Effect of Three Different Methods on Venipuncture Pain and Anxiety in Children: Distraction Cards, Virtual Reality, and Buzzy® (Randomized Controlled Trial). Journal of Pediatric Nursing, 2021, 58, e54-e62.	0.7	49
59	Effect of immersive virtual reality on pain in different dental procedures in children: A pilot study. International Journal of Paediatric Dentistry, 2022, 32, 264-272.	1.0	21
60	Virtual reality may reduce anxiety and enhance surgical experience during wide-awake local anaesthesia no tourniquet surgery: A report of two cases. Journal of Perioperative Practice, 2021, , 175045892098404.	0.3	2

#	ARTICLE	IF	CITATIONS
61	The Challenges and Perspectives of the Integration Between Virtual and Augmented Reality and Manual Therapies. Frontiers in Neurology, 2021, 12, 700211.	1.1	20
62	How the nursing profession should adapt for a digital future. BMJ, The, 0, , n1190.	3.0	61
63	Virtual reality for the enhancement of emotion regulation. Clinical Psychology and Psychotherapy, 2021, 28, 519-537.	1.4	25
64	Efficacy of Smartphone Active and Passive Virtual Reality Distraction vs Standard Care on Burn Pain Among Pediatric Patients. JAMA Network Open, 2021, 4, e2112082.	2.8	49
65	Chronic non-cancer pain in adolescents: a narrative review. Brazilian Journal of Anesthesiology (Elsevier), 2022, 72, 648-656.	0.2	6
66	Pediatric Coping During Venipuncture With Virtual Reality: Pilot Randomized Controlled Trial. JMIR Pediatrics and Parenting, 2021, 4, e26040.	0.8	8
67	Patient Satisfaction Through an Immersive Experience Using a Mobile Phone–Based Head-Mounted Display During Arthroscopic Knee Surgery Under Spinal Anesthesia: A Randomized Clinical Trial. Anesthesia and Analgesia, 2021, 133, 940-948.	1.1	4
68	Virtual Reality after Surgery—A Method to Decrease Pain After Surgery in Pediatric Patients. American Surgeon, 2023, 89, 596-602.	0.4	6
69	Virtual Reality Interventions for Needle-Related Procedural Pain, Fear and Anxiety—A Systematic Review and Meta-Analysis. Journal of Clinical Medicine, 2021, 10, 3248.	1.0	41
70	State of the Art: Immersive Technologies for Perioperative Anxiety, Acute, and Chronic Pain Management in Pediatric Patients. Current Anesthesiology Reports, 2021, 11, 265-274.	0.9	13
71	The Effects of Virtual Reality on Procedural Pain and Anxiety in Pediatrics: A Systematic Review and Meta-Analysis. Frontiers in Virtual Reality, 2021, 2, .	2.5	16
72	Intraoperative virtual reality distraction in TKA under spinal anesthesia: a preliminary study. Archives of Orthopaedic and Trauma Surgery, 2021, 141, 2323-2328.	1.3	2
73	A Randomized Controlled Trial of Virtual Reality in Awake Minor Pediatric Plastic Surgery Procedures. Plastic and Reconstructive Surgery, 2021, 148, 400-408.	0.7	12
74	Effectiveness of Flippits and Virtual Reality Therapy on Pain and Anxiety Among Children Undergoing Painful Procedures. Cureus, 2021, 13, e17134.	0.2	4
75	Rehabilitation After Single-Event Multilevel Surgery for Children and Young Adults With Cerebral Palsy. American Journal of Physical Medicine and Rehabilitation, 2022, 101, 389-399.	0.7	6
76	Comparing a Virtual Reality–Based Simulation App (VR-MRI) With a Standard Preparatory Manual and Child Life Program for Improving Success and Reducing Anxiety During Pediatric Medical Imaging: Randomized Clinical Trial. Journal of Medical Internet Research, 2021, 23, e22942.	2.1	24
77	Interactive video games to reduce paediatric procedural pain and anxiety: a systematic review and meta-analysis. British Journal of Anaesthesia, 2021, 127, 608-619.	1.5	25
79	Distraction in the Emergency department using Virtual reality for INtravenous procedures in Children to Improve comfort (DEVINCI): a pilot pragmatic randomized controlled trial. Canadian Journal of Emergency Medicine, 2021, 23, 94-102.	0.5	15

#	Article	IF	CITATIONS
80	Virtual Reality to Reduce Procedural Pain During IV Insertion in the Pediatric Emergency Department. Clinical Journal of Pain, 2021, 37, 94-101.	0.8	20
81	Virtual reality approaches to pain: toward a state of the science. Pain, 2021, 162, 325-331.	2.0	89
82	Open Primary Button Versus Laparoscopic Percutaneous Endoscopic Gastrostomy. Journal of Pediatric Gastroenterology and Nutrition, 2021, 72, e4-e9.	0.9	2
83	Pediatric Distraction on Induction of Anesthesia With Virtual Reality and Perioperative Anxiolysis: A Randomized Controlled Trial. Anesthesia and Analgesia, 2021, 132, 798-806.	1.1	43
84	A Primer on Usability Assessment Approaches for Health-Related Applications of Virtual Reality. JMIR Serious Games, 2020, 8, e18153.	1.7	26
85	Effectiveness of virtual reality in the management of paediatric anxiety during the peri†operative period: A systematic review and meta-analysis. International Journal of Nursing Studies, 2022, 125, 104115.	2.5	25
86	Les voies d'abord veineux difficiles chez l'enfant. Praticien En Anesthesie Reanimation, 2021, 25, 240-240.	0.0	0
89	Pediatric burn resuscitation, management, and recovery for the pediatric anesthesiologist. Current Opinion in Anaesthesiology, 2020, 33, 360-367.	0.9	3
92	The Relationship between Virtual Reality Technology and Anxiety State of Parturient Women with Labor Pain. Science Insights, 2020, 35, 236-243.	0.1	5
95	Environmental Enrichment in Postoperative Pain and Surgical Care. Annals of Surgery, 2021, 273, 86-95.	2.1	12
96	Medical virtual reality. Journal of Hand Therapy, 2020, 33, 243-245.	0.7	5
97	Takeâ€Pause: Efficacy of mindfulnessâ€based virtual reality as an intervention in the pediatric emergency department. Academic Emergency Medicine, 2022, 29, 270-277.	0.8	7
99	The Island of Pain: a Virtual Reality Experience for Patients with Chronic Pain. , 2020, , .		0
101	Effectiveness of Virtual Reality Interventions for Adolescent Patients in Hospital Settings: Systematic Review. Journal of Medical Internet Research, 2021, 23, e24967.	2.1	32
102	Technology to Assess and Treat Pain in Pediatric Rheumatology. Rheumatic Disease Clinics of North America, 2022, 48, 31-50.	0.8	0
103	La réalité virtuelle comme antidouleur : une revue systématique de la littérature. Douleur Et Analgesie, 2021, 34, 163-170.	0.2	4
104	The price of pain relief, or should nonâ€invasive medical devices be treated differently in analgesic clinical trials?. European Journal of Pain, 2022, 26, 553-554.	1.4	1
105	Application progress and potential of digital medicine in pediatric orthopedics. Digital Medicine, 2021, .	0.1	О

#	Article	IF	CITATIONS
107	Exploring reported distress before and pain during needle insertion into a venous access port in children with cancer. Scandinavian Journal of Caring Sciences, 2022, , .	1.0	0
109	Effect of a gameâ€based intervention on preoperative pain and anxiety in children: A systematic review and metaâ€analysis. Journal of Clinical Nursing, 2022, 31, 3350-3367.	1.4	15
110	Application of virtual reality in neurosurgery: Patient missing. A systematic review. Journal of Clinical Neuroscience, 2022, 95, 55-62.	0.8	20
111	Impact of Virtual Reality Technology on Pain and Anxiety in Pediatric Burn Patients: A Systematic Review and Meta-Analysis. Frontiers in Virtual Reality, 2022, 2, .	2.5	7
112	Aromatherapy massage seems effective in critically ill children: an observational beforeâ€after study. Paediatric and Neonatal Pain, 2022, 4, 61-68.	0.6	2
113	"Passive or interactive virtual reality? The effectiveness for pain and anxiety reduction in pediatric patients― Virtual Reality, 2022, 26, 1307-1316.	4.1	12
114	Effectiveness of Virtual Reality Interactive Play for Children During Intravenous Placement: A Randomized Controlled Trial. Asian Nursing Research, 2022, 16, 87-93.	0.7	8
115	Exploring the use of virtual reality to manage distress in adolescent patients in emergency departments: A feasibility study. EMA - Emergency Medicine Australasia, 2022, 34, 687-693.	0.5	3
116	Efectividad de la Realidad Virtual (RV) en la disminución del distrés de niños y adolescentes con cáncer: Revisión sistemática. Psicooncologia, 2022, 19, 45-61.	0.1	0
117	Mix Reality in Reducing Operational Anxiety. Gümüşhane Üniversitesi Sağlık Bilimleri Dergisi, 2022, 11, 339-345.	0.1	0
118	A natural history study of nitrous oxide versus propofolâ€assisted intrathecal therapy in the treatment of acute lymphoblastic leukemia. Pediatric Blood and Cancer, 2022, , e29598.	0.8	0
119	Immersive Virtual Reality in Alleviating Pain and Anxiety in Children During Immunization in Primary Care: A Pilot Randomized Controlled Trial. Frontiers in Pediatrics, 2022, 10, 847257.	0.9	7
120	Yanık Nedeniyle Tedavi Gören Hastalarda Yenilikçi Teknoloji: Sanal Gerçeklik. Arsiv Kaynak Tarama Dergisi, 2022, 31, 46-51.	0.1	1
121	Comparison of Two Different Methods in Reducing Pain and Fear due to Dressing Change in 7-10 Years Old Children. Journal of Pediatric Research, 2022, 9, 66-75.	0.1	4
122	Application of simple stress reduction methods for safe and secure periodontal treatment. Journal of Japanese Society of Periodontology, 2022, 64, 9-16.	0.1	O
123	The Effect of Virtual Reality Distraction Intervention on Pain, Anxiety, and Vital Signs of Oncology Patients Undergoing Port Catheter Implantation: A Randomized Controlled Study. Pain Management Nursing, 2022, 23, 585-590.	0.4	12
124	Virtual Reality in the Pediatric Intensive Care Unit: Patient Emotional and Physiologic Responses. Frontiers in Digital Health, 2022, 4, 867961.	1.5	5
125	Exploring the Effect of a Nature-based Virtual Reality Environment on Stress in Adolescents. Frontiers in Virtual Reality, 2022, 3, .	2.5	8

#	ARTICLE	IF	CITATIONS
126	The effect of an informative 360-degree virtual reality video on anxiety for women visiting the one-stop clinic for abnormal uterine bleeding: A randomized controlled trial (VISION-trial). European Journal of Obstetrics, Gynecology and Reproductive Biology, 2022, 272, 96-103.	0.5	7
127	Effects of Virtual Reality-Based Relaxation Techniques on Psychological, Physiological, and Biochemical Stress Indicators. Healthcare (Switzerland), 2021, 9, 1729.	1.0	14
128	Virtual dental teaching and its effect on test success – A crossâ€over study. Journal of Dental Education, 2022, 86, 622-629.	0.7	7
129	Effects of Virtual Reality-Based Distraction of Pain, Fear, and Anxiety During Needle-Related Procedures in Children and Adolescents. Frontiers in Psychology, 2022, 13, 842847.	1.1	10
131	The use of virtual reality during medical procedures in a pediatric orthopedic setting: A mixedâ€methods pilot feasibility study. Paediatric and Neonatal Pain, 0, , .	0.6	1
132	Effects of Classical Music Virtual Reality on Pediatric Healthcare Worker Compassion Fatigue. Journal of Nursing Administration, 2022, 52, 280-285.	0.7	2
133	Can virtual reality headsets be used safely as a distraction method for paediatric orthopaedic patients? A feasibility study. Annals of the Royal College of Surgeons of England, 2022, 104, 144-147.	0.3	5
134	Real-time reorientation and cognitive load adjustment allow for broad application of virtual reality in a pediatric hospital Journal of Clinical and Translational Research, 2021, 7, 750-753.	0.3	0
135	Effectiveness of Virtual Reality for Pediatric Pain and Anxiety Management during Skin Prick Testing. Open Journal of Medical Psychology, 2022, 11, 89-102.	0.1	1
136	Evaluating value mediation in patients with chronic low-back pain using virtual reality: contributions for empirical research in Value Sensitive Design. Health and Technology, 2022, 12, 765-778.	2.1	10
137	Quantifying virtual reality pain modulation in healthy volunteers: A randomized, crossover study. Journal of Clinical Anesthesia, 2022, 80, 110876.	0.7	3
138	Virtual reality intervention as a support method during wound care and rehabilitation after burns: A systematic review and meta-analysis. Complementary Therapies in Medicine, 2022, 68, 102837.	1.3	18
140	Virtual Reality for Distraction and Relaxation in a Pediatric Hospital Setting: An Interventional Study With a Mixed-Methods Design. Frontiers in Digital Health, 0, 4, .	1.5	9
141	How effective is virtual reality technology in palliative care? A systematic review and meta-analysis. Palliative Medicine, 2022, 36, 1047-1058.	1.3	15
142	Analgesic and Anxiolytic Effects of Virtual Reality During Minor Procedures in an Emergency Department: A Randomized Controlled Study. Annals of Emergency Medicine, 2023, 81, 84-94.	0.3	5
143	Cybersickness Variability by Race: Findings From 6 Studies and a Mini Meta-analysis. Journal of Medical Internet Research, 2022, 24, e36843.	2.1	2
144	Effects of virtual reality on preoperative anxiety in children: AÂsystematic review and metaâ€analysis of randomised controlled trials. Journal of Clinical Nursing, 2023, 32, 2494-2504.	1.4	9
145	The effect of virtual reality on pain, anxiety, and fear during burn dressing in children: A randomized controlled study. Burns, 2023, 49, 788-796.	1.1	9

#	ARTICLE	IF	CITATIONS
146	Virtual Reality for Pain Relief in the Emergency Room (VIPER) $\hat{a} \in \text{``a prospective}$, interventional feasibility study. BMC Emergency Medicine, 2022, 22, .	0.7	5
147	Virtual sedation as a substitute to pharmacological sedation during PICC placement in pediatric patients: A feasibility study. Journal of Vascular Access, 2024, 25, 313-317.	0.5	2
148	Effectiveness of virtual reality in cardiac rehabilitation: A systematic review and meta-analysis of randomized controlled trials. International Journal of Nursing Studies, 2022, 133, 104323.	2.5	12
149	Virtual reality (VR) to reduce anxiety in children in the plaster room: a study protocol for a randomised controlled trial. Trials, 2022, 23, .	0.7	1
150	The Impact of Mobile Technology-Delivered Interventions on Youth Well-being: Systematic Review and 3-Level Meta-analysis. JMIR Mental Health, 2022, 9, e34254.	1.7	11
151	A Systematic Review of the Effectiveness of Virtual Reality-Based Interventions on Pain and Range of Joint Movement Associated with Burn Injuries. Journal of Personalized Medicine, 2022, 12, 1269.	1.1	3
153	Virtual reality in preoperative preparation of children undergoing general anesthesia: aÂrandomized controlled study., 2022, 71, 204-211.		7
154	Effect of Virtual Reality on Pediatric Pain and Fear During Procedures Involving Needles: Systematic Review and Meta-analysis. JMIR Serious Games, 2022, 10, e35008.	1.7	6
155	Effects of propofol combined with lidocaine on hemodynamics, serum adrenocorticotropic hormone, interleukin-6, and cortisol in children. World Journal of Clinical Cases, 2022, 10, 8506-8513.	0.3	0
156	Virtual reality in pediatrics, effects on pain and anxiety: AÂsystematic review and metaâ€analysis update. Paediatric Anaesthesia, 2022, 32, 1292-1304.	0.6	23
157	Immersive Therapy for Improving Anxiety in Health Professionals of a Regional Hospital during the COVID-19 Pandemic: A Quasi-Experimental Pilot Study. International Journal of Environmental Research and Public Health, 2022, 19, 9793.	1.2	2
158	Evidence-based practical guideline for procedural pain management and sedation for burn pediatrics patients undergoing wound care procedures. Annals of Medicine and Surgery, 2022, 83, .	0.5	2
159	Virtual reality for pain and anxiety of pediatric oncology patients: A systematic review and meta-analysis. Asia-Pacific Journal of Oncology Nursing, 2022, 9, 100152.	0.7	4
160	â€~What do you see now?': lessons learned while integrating a virtual reality application in ambulatory care of a pediatric surgery. Behaviour and Information Technology, 0, , 1-9.	2.5	0
161	A Therapeutic Play Program for Children Undergoing Kidney Biopsy With Local Anesthesia: Construction and Feasibility Evaluation. Journal of Perianesthesia Nursing, 2022, , .	0.3	0
162	Mobile virtual tooth morphology teaching environment for preclinical dental students. Journal of Dental Education, 2023, 87, 130-138.	0.7	4
163	The proper timing of virtual reality experience for reducing preoperative anxiety of pediatric patients: A randomized clinical trial. Frontiers in Pediatrics, 0, 10 , .	0.9	1
164	Application Design for a Virtual Reality Therapy Game for Patients with Behavioral and Psychological Symptoms of Dementia. Lecture Notes in Networks and Systems, 2023, , 149-160.	0.5	0

#	Article	IF	CITATIONS
165	Recent Advances in Psychotherapy with Virtual Reality. Advances in Psychiatry and Behavioral Health, 2022, 2, 79-93.	0.4	2
167	â€What Do You See Now?― Lessons Learned While Integrating a Virtual Reality Application in Ambulatory Care of a Pediatric Surgery. , 2022, , .		0
168	The Effects of Virtual Reality in Maternal Delivery: Systematic Review and Meta-analysis. JMIR Serious Games, 2022, 10, e36695.	1.7	4
169	Disinfection of Virtual Reality Devices in Health Care Settings: In Vitro Assessment and Survey Study. Journal of Medical Internet Research, 2022, 24, e42332.	2.1	3
170	Biophilic virtual reality on children's anxiety and pain during circumcision: A randomized controlled study. Journal of Pediatric Urology, 2023, 19, 201-210.	0.6	6
172	Virtual Platforms. Advances in Psychology, Mental Health, and Behavioral Studies, 2022, , 381-399.	0.1	0
173	Children's and adolescent'sÂnarratives about pain and negative experiences in diabetes treatment. Journal for Specialists in Pediatric Nursing, 2023, 28, .	0.6	3
174	Virtual Reality during Intrathecal Pump Refills in Children: A Case Series. Journal of Clinical Medicine, 2022, 11, 5877.	1.0	2
175	Children's perceptions of interactive virtualâ€reality interventions implemented before and after intravenous cannulation. Scandinavian Journal of Caring Sciences, 2023, 37, 434-443.	1.0	1
176	Effects of immersive virtual reality for managing anxiety, nausea and vomiting among paediatric cancer patients receiving their first chemotherapy: An exploratory randomised controlled trial. European Journal of Oncology Nursing, 2022, 61, 102233.	0.9	5
177	Examining the potential of VR program Tilt Brush in reducing anxiety. Virtual Reality, 0, , .	4.1	0
178	The effects of virtual reality glasses and external cold and vibration on procedural pain and anxiety in children during venous phlebotomy: randomized controlled trial. Virtual Reality, 0, , .	4.1	0
179	The Effect of Virtual Reality and Buzzy on First Insertion Success, Procedure-Related Fear, Anxiety, and Pain in Children during Intravenous Insertion in the Pediatric Emergency Unit: A Randomized Controlled Trial. Journal of Emergency Nursing, 2023, 49, 62-74.	0.5	12
180	Comparing Smartphone Virtual Reality Exposure Preparation to Care as Usual in Children Aged 6 to 14 Years Undergoing Magnetic Resonance Imaging: Protocol for a Multicenter, Observer-Blinded, Randomized Controlled Trial. JMIR Research Protocols, 0, 12, e41080.	0.5	2
182	The Use of Virtual Reality to Reduce Pain and Anxiety in Surgical Procedures of the Oral Cavity: A Scoping Review. Journal of Oral and Maxillofacial Surgery, 2023, 81, 467-482.	0.5	10
183	Effect of Various Distraction Techniques on Pain and Anxiety of Pediatric Dental Patients: A Systematic Review. Pharmacophore, 2022, 13, 105-111.	0.2	1
184	A New Option for Pain Prevention Using a Therapeutic Virtual Reality Solution for Bone Marrow Biopsy (REVEH Trial): Open-Label, Randomized, Multicenter, Phase 3 Study. Journal of Medical Internet Research, 0, 25, e38619.	2.1	5
185	Research Trends and Hot Topics on Virtual Reality in Nursing. Advances in Nursing Science, 2023, 46, 363-380.	0.6	1

#	Article	IF	CITATIONS
186	Web-Based Interventions Reduced Dental Anxiety among Adults in Lithuania and Norway: A Pilot Study. International Journal of Environmental Research and Public Health, 2023, 20, 3343.	1.2	1
187	Effectiveness of virtual reality interventions on physiological and psychological outcomes of adults with cardiovascular disease: A systematic review and metaâ€analysis. Journal of Nursing Scholarship, 0,	1.1	1
188	Can virtual reality reduce pain and anxiety in pediatric emergency care and promote positive response of parents of children? A quasi-experimental study. International Emergency Nursing, 2023, 68, 101268.	0.6	0
189	Effectiveness of virtual reality distraction interventions to reduce dental anxiety in paediatric patients: A systematic review and meta-analysis. Journal of Dentistry, 2023, 132, 104455.	1.7	5
190	The Emerging Role of Virtual Reality as an Adjunct to Procedural Sedation and Anesthesia: A Narrative Review. Journal of Clinical Medicine, 2023, 12, 843.	1.0	11
191	Robotics Technology for Pain Treatment and Management: A Review. Lecture Notes in Computer Science, 2022, , 534-545.	1.0	2
192	Immersive and Non-Immersive Virtual Reality for Pain and Anxiety Management in Pediatric Patients with Hematological or Solid Cancer: A Systematic Review. Cancers, 2023, 15, 985.	1.7	6
193	Paediatric pain management: from regional to virtual. Current Opinion in Anaesthesiology, 0, Publish Ahead of Print, .	0.9	2
194	Acceptability and Tolerability of Extended Reality Relaxation Training with and without Wearable Neurofeedback in Pediatric Migraine. Children, 2023, 10, 329.	0.6	2
195	Use of immersive virtual reality to reduce anxiety during complex paediatric dressing changes. BMJ Case Reports, 2023, 16, e252998.	0.2	0
196	Effects of an Immersive Virtual Reality Intervention on Pain and Anxiety Among Pediatric Patients Undergoing Venipuncture. JAMA Network Open, 2023, 6, e230001.	2.8	14
197	Involvement of GABAergic and Serotonergic Systems in the Antinociceptive Effect of Jegosaponin A Isolated from Styrax japonicus. Molecules, 2023, 28, 2243.	1.7	1
198	Virtual Reality as a Hypnotic Tool in the Management of Anxiety During the Performance of the Axillary Block. Journal of Medical Systems, 2023, 47, .	2.2	0
199	Virtual reality increases pressure pain threshold and lowers anxiety in children compared with control and nonâ€immersive control—A randomized, crossover trial. European Journal of Pain, 2023, 27, 805-815.	1.4	3
200	The Effect of 2 Different Distraction Methods on Pain, Fear, and Anxiety Levels During Venous Blood Draw in Children in a Pediatric Emergency Unit. Journal of Nursing Care Quality, 0, Publish Ahead of Print, .	0.5	0
201	Pediatric Unsedated Transnasal Endoscopy. Gastrointestinal Endoscopy Clinics of North America, 2023, 33, 309-321.	0.6	8
202	Effect modifiers of virtual reality in pain management: a systematic review and meta-regression analysis. Pain, 2023, 164, 1658-1665.	2.0	14
203	Taking modern psychiatry into the metaverse: Integrating augmented, virtual, and mixed reality technologies into psychiatric care. Frontiers in Digital Health, 0, 5, .	1.5	8

#	Article	IF	CITATIONS
204	Efficacy of nonâ€pharmacological interventions to reduce pain in children with sickle cell disease: A systematic review. Pediatric Blood and Cancer, 2023, 70, .	0.8	5
205	Designing a Child-, Family-, and Healthcare Provider–Centered Procedure Room in a Tertiary Care Children's Hospital. Herd, 2023, 16, 195-209.	0.9	1
206	Systematic review of the development and effectiveness of digital health information interventions, compared with usual care, in supporting patient preparation for paediatric hospital care, and the impact on their health outcomes., 0, 3, .		0
207	"Awesomely freaky!―The impact of type on children's social-emotional perceptions of virtual reality characters. , 2023, , .		O
227	Effectiveness of virtual reality in managing pain and anxiety in adults during periprocedural period: a systematic review and meta-analysis. Langenbeck's Archives of Surgery, 2023, 408, .	0.8	5
248	VR Experiences of Pregnant Women During Antenatal Care. , 2023, , .		O
264	Utilizing Virtual Reality for Distraction in Emergency Care. Current Emergency and Hospital Medicine Reports, 2023, 11, 143-150.	0.6	0
266	Exposure to Immersive Relaxing Virtual Environments for Hospitalized Patients. Advances in Medical Technologies and Clinical Practice Book Series, 2023, , 108-141.	0.3	O
278	The effect of virtual reality on pain and anxiety management during outpatient hysteroscopy: a systematic review and meta-analysis of randomized controlled trials. Archives of Gynecology and Obstetrics, 2024, 309, 1267-1280.	0.8	0
294	Grand manuel de psycho-oncologie. , 2023, , 201-213.		0