List of Publications by Year in descending order

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#	Article	IF	CITATIONS
1	Modeling and Predicting Mental Workload in En Route Air Traffic Control: Critical Review and Broader Implications. Human Factors, 2007, 49, 376-399.	3.5	254
2	Interruptions in healthcare: Theoretical views. International Journal of Medical Informatics, 2009, 78, 293-307.	3.3	218
3	Overlapping Melodic Alarms Are Almost Indiscriminable. Human Factors, 2007, 49, 637-645.	3.5	129
4	Object Displays Do Not Always Support Better Integrated Task Performance. Human Factors, 1989, 31, 183-198.	3.5	124
5	Interruption management in the intensive care unit: Predicting resumption times and assessing distributed support Journal of Experimental Psychology: Applied, 2010, 16, 317-334.	1.2	120
6	The Human Planning and Scheduling Role in Advanced Manufacturing Systems: An Emerging Human Factors Domain. Human Factors, 1989, 31, 635-666.	3.5	118
7	Verbalizable knowledge and skilled task performance: Association, dissociation, and mental models Journal of Experimental Psychology: Learning Memory and Cognition, 1989, 15, 729-747.	0.9	108
8	Exploratory Sequential Data Analysis: Foundations. Human-Computer Interaction, 1994, 9, 251-317.	4.4	107
9	Designing Teams for First-of-a-Kind, Complex Systems Using the Initial Phases of Cognitive Work Analysis: Case Study. Human Factors, 2003, 45, 202-217.	3.5	102
10	Sonification Supports Eyes-Free Respiratory Monitoring and Task Time-Sharing. Human Factors, 2004, 46, 497-517.	3.5	92
11	Evaluating Design Proposals for Complex Systems with Work Domain Analysis. Human Factors, 2001, 43, 529-542.	3.5	91
12	Anesthesia Alarms in Context: An Observational Study. Human Factors, 2001, 43, 66-78.	3.5	91
13	Are Melodic Medical Equipment Alarms Easily Learned?. Anesthesia and Analgesia, 2008, 106, 501-508.	2.2	87
14	Designing for Attention With Sound: Challenges and Extensions to Ecological Interface Design. Human Factors, 2007, 49, 331-346.	3.5	80
15	Advanced Auditory Displays and Head-Mounted Displays: Advantages and Disadvantages for Monitoring by the Distracted Anesthesiologist. Anesthesia and Analgesia, 2008, 106, 1787-1797.	2.2	76
16	Advanced Patient Monitoring Displays: Tools for Continuous Informing. Anesthesia and Analgesia, 2005, 101, 161-168.	2.2	72
17	The effect of two cognitive aid designs on team functioning during intraâ€operative anaphylaxis emergencies: a multiâ€centre simulation study. Anaesthesia, 2016, 71, 389-404. 	3.8	68
18	Presenting video recordings of newborn resuscitations in debriefings for teamwork training. BMJ Quality and Safety, 2011, 20, 163-169.	3.7	66

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19	Emergent Features in Visual Display Design for Two Types of Failure Detection Tasks. Human Factors, 1991, 33, 631-651.	3.5	65
20	The multimodal world of medical monitoring displays. Applied Ergonomics, 2006, 37, 501-512.	3.1	64
21	Monitoring with Head-Mounted Displays in General Anesthesia. Anesthesia and Analgesia, 2010, 110, 1032-1038.	2.2	64
22	Monitoring with Head-Mounted Displays: Performance and Safety in a Full-Scale Simulator and Part-Task Trainer. Anesthesia and Analgesia, 2009, 109, 1135-1146.	2.2	61
23	Barriers to Adverse Event and Error Reporting in Anesthesia. Anesthesia and Analgesia, 2012, 114, 604-614.	2.2	58
24	Interruptions and Blood Transfusion Checks: Lessons from the Simulated Operating Room. Anesthesia and Analgesia, 2009, 108, 219-222.	2.2	54
25	Ecological Interface Design for Pasteurizer II: A Process Description of Semantic Mapping. Human Factors, 2002, 44, 222-247.	3.5	52
26	State-space and verbal protocol methods for studying the human operator in process control. Ergonomics, 1989, 32, 1343-1372.	2.1	48
27	SHAPA: an interactive software environment for protocol analysis. Ergonomics, 1989, 32, 1271-1302.	2.1	39
28	Auditory displays in anesthesiology. Current Opinion in Anaesthesiology, 2009, 22, 788-795.	2.0	39
29	Towards the model human scheduler. International Journal of Human Factors in Manufacturing, 1991, 1, 195-219.	0.4	37
30	Tailoring reveals information requirements: the case of anaesthesia alarms. Interacting With Computers, 2004, 16, 271-293.	1.5	34
31	Use of Cognitive Work Analysis Across the System Life Cycle: From Requirements to Decommissioning. Proceedings of the Human Factors and Ergonomics Society, 1999, 43, 318-322.	0.3	33
32	Toward Open Behavioral Science. Psychological Inquiry, 2012, 23, 244-247.	0.9	33
33	Applying social network analysis to the examination of interruptions in healthcare. Applied Ergonomics, 2018, 67, 50-60.	3.1	33
34	Work domain analysis and sensors II: Pasteurizer II case study. International Journal of Human Computer Studies, 2002, 56, 597-637.	5.6	31
35	How do interruptions affect clinician performance in healthcare? Negotiating fidelity, control, and potential generalizability in the search for answers. International Journal of Human Computer Studies, 2015, 79, 85-96.	5.6	29
36	Traditions of research into interruptions in healthcare: A conceptual review. International Journal of Nursing Studies, 2017, 66, 23-36.	5.6	29

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37	The Impact of Head-Worn Displays on Strategic Alarm Management and Situation Awareness. Human Factors, 2019, 61, 537-563.	3.5	27
38	Obstacles to research on the effects of interruptions in healthcare. BMJ Quality and Safety, 2016, 25, 392-395.	3.7	26
39	Comparison of the identification and ease of use of two alarm sound sets by critical and acute care nurses with little or no music training: a laboratory study. Anaesthesia, 2015, 70, 818-827.	3.8	25
40	Work domain analysis and sensors I: principles and simple example. International Journal of Human Computer Studies, 2002, 56, 569-596.	5.6	24
41	Patient monitoring with head-mounted displays. Current Opinion in Anaesthesiology, 2009, 22, 796-803.	2.0	24
42	An exploratory clinical evaluation of a head-worn display based multiple-patient monitoring application: impact on supervising anesthesiologists' situation awareness. Journal of Clinical Monitoring and Computing, 2019, 33, 1119-1127.	1.6	24
43	The Sounds of Desaturation: A Survey of Commercial Pulse Oximeter Sonifications. Anesthesia and Analgesia, 2016, 122, 1395-1403.	2.2	23
44	Two sides to every story: The Dual Perspectives Method for examining interruptions in healthcare. Applied Ergonomics, 2017, 58, 102-109.	3.1	23
45	Novel Pulse Oximetry Sonifications for Neonatal Oxygen Saturation Monitoring. Human Factors, 2016, 58, 344-359.	3.5	22
46	Supporting multiple patient monitoring with head-worn displays and spearcons. Applied Ergonomics, 2019, 78, 86-96.	3.1	22
47	Visual and auditory attention in patient monitoring: a formative analysis. Cognition, Technology and Work, 2004, 6, 172-185.	3.0	20
48	Minimal Instrumentation May Compromise Failure Diagnosis With an Ecological Interface. Human Factors, 2004, 46, 316-333.	3.5	20
49	Prospective Memory in Complex Sociotechnical Systems. Zeitschrift Fur Psychologie / Journal of Psychology, 2014, 222, 100-109.	1.0	20
50	The complex role of perceptual organization in visual display design theory. Ergonomics, 1992, 35, 1199-1219.	2.1	19
51	Development and Validation of a Multilevel Model for Predicting Workload Under Routine and Nonroutine Conditions in an Air Traffic Management Center. Human Factors, 2014, 56, 287-305.	3.5	19
52	A formative approach to the strategies analysis phase of cognitive work analysis. Theoretical Issues in Ergonomics Science, 2014, 15, 215-261.	1.8	19
53	Spearcons for Patient Monitoring: Laboratory Investigation Comparing Earcons and Spearcons. Human Factors, 2017, 59, 765-781.	3.5	19
54	Sonification design for complex work domains: Dimensions and distractors Journal of Experimental Psychology: Applied, 2009, 15, 183-198.	1.2	18

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55	Cognitive Work Analysis. , 2003, , 225-264.		18
56	The effectiveness of pulse oximetry sonification enhanced with tremolo and brightness for distinguishing clinically important oxygen saturation ranges: a laboratory study. Anaesthesia, 2016, 71, 565-572.	3.8	17
57	The Development and Testing of SAfER. Journal of Cognitive Engineering and Decision Making, 2014, 8, 162-186.	2.3	16
58	Improving the detectability of oxygen saturation level targets for preterm neonates: A laboratory test of tremolo and beacon sonifications. Applied Ergonomics, 2016, 56, 160-169.	3.1	16
59	Effectiveness of enhanced pulse oximetry sonifications for conveying oxygen saturation ranges: a laboratory comparison of five auditory displays. British Journal of Anaesthesia, 2017, 119, 1224-1230.	3.4	16
60	Cognitive task analysis of a complex work domain: a case study. Reliability Engineering and System Safety, 1992, 36, 207-216.	8.9	15
61	Multisensory Integration with a Head-Mounted Display: Sound Delivery and Self-Motion. Human Factors, 2008, 50, 789-800.	3.5	15
62	Clinical Implementation of a Head-Mounted Display of Patient Vital Signs. , 2009, , .		15
63	The Effect of Individual Differences on How People Handle Interruptions. Proceedings of the Human Factors and Ergonomics Society, 2013, 57, 868-872.	0.3	14
64	Tactile Displays of Pulse Oximetry in Integrated and Separated Configurations. Proceedings of the Human Factors and Ergonomics Society, 2014, 58, 674-678.	0.3	14
65	Interruptions to Intensive Care Nurses and Clinical Errors and Procedural Failures: A Controlled Study of Causal Connection. Journal of Patient Safety, 2021, 17, e1433-e1440.	1.7	14
66	Evaluating functional displays for hydropower system: model-based guidance of scenario design. Cognition, Technology and Work, 2006, 8, 269-282.	3.0	13
67	Using a Sequence of Earcons to Monitor Multiple Simulated Patients. Human Factors, 2017, 59, 268-288.	3.5	13
68	Factors associated with referral offer and acceptance following supportive care problem identification in a comprehensive cancer service. European Journal of Cancer Care, 2018, 27, e12869.	1.5	13
69	Process monitoring and configural display design: A neuroimaging study. Theoretical Issues in Ergonomics Science, 2003, 4, 151-174.	1.8	12
70	Monitoring vital signs with time-compressed speech Journal of Experimental Psychology: Applied, 2019, 25, 647-673.	1.2	12
71	Multisensory Integration With a Head-Mounted Display: Background Visual Motion and Sound Motion. Human Factors, 2010, 52, 78-91.	3.5	11

Human Factors and Ergonomics. , 2015, , 297-305.

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73	Rasmussen and the boundaries of empirical evaluation. Applied Ergonomics, 2017, 59, 649-656.	3.1	11
74	Detection of visual stimuli on monocular peripheral head-worn displays. Applied Ergonomics, 2018, 73, 167-173.	3.1	11
75	Interruptions in Health Care: Assessing Their Connection With Error and Patient Harm. Human Factors, 2019, 61, 1025-1036.	3.5	11
76	Relative Position Vectors. Human Factors, 2013, 55, 946-964.	3.5	10
77	The cognitive aids in medicine assessment tool (CMAT) applied to five neonatal resuscitation algorithms. Journal of Perinatology, 2017, 37, 387-393.	2.0	10
78	A Novel Auditory Display for Neonatal Resuscitation: Laboratory Studies Simulating Pulse Oximetry in the First 10 Minutes After Birth. Human Factors, 2019, 61, 119-138.	3.5	10
79	Spearcon Sequences for Monitoring Multiple Patients: Laboratory Investigation Comparing Two Auditory Display Designs. Human Factors, 2019, 61, 288-304.	3.5	10
80	Head-Worn Displays for Emergency Medical Services Staff. , 2021, , .		10
81	The Accuracy of Clinical Assessments as a Measure for Teamwork Effectiveness. Simulation in Healthcare, 2011, 6, 260-268.	1.2	9
82	Incident Analysis. Journal of Cognitive Engineering and Decision Making, 2016, 10, 197-221.	2.3	9
83	Comparison of Standard and Enhanced Pulse Oximeter Auditory Displays of Oxygen Saturation: A Laboratory Study With Clinician and Nonclinician Participants. Anesthesia and Analgesia, 2019, 129, 997-1004.	2.2	9
84	Head-worn displays for healthcare and industry workers: A review of applications and design. International Journal of Human Computer Studies, 2021, 154, 102628.	5.6	9
85	Exploratory sequential data analysis. ACM SIGCHI Bulletin, 1993, 25, 34-40.	0.1	9
86	Investigating Human-System Interaction With an Integrated Hydropower and Market System Simulator. IEEE Transactions on Power Systems, 2007, 22, 762-769.	6.5	8
87	The ETTO principle and organisational strategies: a field study of ICU bed and staff management. Cognition, Technology and Work, 2010, 12, 143-152.	3.0	8
88	Clinicians Can Accurately Assign Apgar Scores to Video Recordings of Simulated Neonatal Resuscitations. Simulation in Healthcare, 2010, 5, 204-212.	1.2	8
89	In the Aftermath. Anesthesia and Analgesia, 2016, 122, 1614-1624.	2.2	7
90	The impact of concurrent linguistic tasks on participants' identification of spearcons. Applied Ergonomics, 2019, 81, 102895.	3.1	7

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91	Evaluation of an enhanced pulse oximeter auditory display: a simulation study. British Journal of Anaesthesia, 2020, 125, 826-834.	3.4	7
92	Defining information needs in neonatal resuscitation with work domain analysis. Journal of Clinical Monitoring and Computing, 2021, 35, 689-710.	1.6	7
93	The Use of Head-Worn Displays for Vital Sign Monitoring in Critical and Acute Care: Systematic Review. JMIR MHealth and UHealth, 2021, 9, e27165.	3.7	7
94	A review of the effects of head-worn displays on teamwork for emergency response. Ergonomics, 2022, 65, 188-218.	2.1	7
95	Tactile Displays of Pulse Oximetry. Proceedings of the Human Factors and Ergonomics Society, 2015, 59, 581-585.	0.3	6
96	Smooth or Stepped? Laboratory Comparison of Enhanced Sonifications for Monitoring Patient Oxygen Saturation. Human Factors, 2020, 62, 124-137.	3.5	6
97	On the origins of the skills,rules,and knowledge framework:a brief comment on Dougherty (1990). Reliability Engineering and System Safety, 1992, 36, 181-182.	8.9	5
98	Time without ventilation during intubation in neonates as a patient-centred measure of performance. Resuscitation, 2016, 105, 41-44.	3.0	5
99	Spearcon compression levels influence the gap in comprehension between untrained and trained listeners Journal of Experimental Psychology: Applied, 2021, 27, 69-83.	1.2	5
100	Design and Evaluation of a Head-Worn Display Application for Multi-Patient Monitoring. , 2021, , .		5
101	Verbal Protocol Analysis in three Experimental Domains Using Shapa. Proceedings of the Human Factors Society Annual Meeting, 1990, 34, 1280-1284.	0.1	4
102	Auditory alarms for medical equipment: How do we ensure they convey their meanings?. Proceedings of the Human Factors and Ergonomics Society, 2009, 53, 264-268.	0.3	4
103	Multisensory Integration With a Head-Mounted Display: Role of Mental and Manual Load. Human Factors, 2010, 52, 92-104.	3.5	4
104	Emergency Medical Equipment Storage. Human Factors, 2014, 56, 958-972.	3.5	4
105	Evaluating the generalizability of the Organizational Constraints Analysis framework: a hospital bed management case study. Cognition, Technology and Work, 2014, 16, 229-246.	3.0	4
106	Peripheral Detection for Abrupt Onset Stimuli Presented via Head-Worn Display. Proceedings of the Human Factors and Ergonomics Society, 2015, 59, 1326-1330.	0.3	4
107	A comparison of two designs for earcons conveying pulse oximetry information. Applied Ergonomics, 2019, 78, 110-119.	3.1	4
108	Need for a new paradigm in the design of alarms for patient monitors and medical devices. British Journal of Anaesthesia, 2021, 127, 677-680.	3.4	4

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109	Nurses' use of auditory alarms and alerts in high dependency units: A field study. Applied Ergonomics, 2021, 96, 103475.	3.1	4
110	Object vs Separate Displays for Process Failure Detection: The Emergent Features Approach. Proceedings of the Human Factors Society Annual Meeting, 1988, 32, 1340-1344.	0.1	3
111	Developing safe devices for neonatal care. Seminars in Perinatology, 2019, 43, 151176.	2.5	3
112	Introduction to This Special Issue on Exploratory Sequential Data Analysis. Human-Computer Interaction, 1994, 9, 247-250.	4.4	3
113	Skills, Rules and Knowledge: A Discussion of Rasmussen's Classification. Proceedings of the Human Factors Society Annual Meeting, 1986, 30, 1002-1006.	0.1	2
114	Exploring Sequential Data: Commentary on Bowers, Jentsch, Salas, and Braun (1998). Human Factors, 1998, 40, 680-684.	3.5	2
115	Continuous information displays for multiple patient monitoring. Proceedings of the Human Factors and Ergonomics Society, 2016, 60, 1556-1556.	0.3	2
116	Interruptions, visual cues, and the microstructure of interaction: Four laboratory studies. International Journal of Human Computer Studies, 2017, 103, 77-94.	5.6	2
117	More evidence for a "black box―to measure and improve outcomes in the delivery room. Resuscitation, 2018, 132, A3-A4.	3.0	2
118	Sonification Supports Eyes-Free Respiratory Monitoring and Task Time-Sharing. Human Factors, 2004, 46, 497-517.	3.5	2
119	Designing and evaluating healthcare ICT innovation: a cognitive engineering view. Studies in Health Technology and Informatics, 2007, 130, 3-12.	0.3	2
120	Attention to Changes on a Head-Worn Display: Two Preclinical Studies with Healthcare Scenarios. Human Factors, 2024, 66, 103-125.	3.5	2
121	Verbalizable Knowledge of Skilled Task Performance. Proceedings of the Human Factors Society Annual Meeting, 1986, 30, 512-516.	0.1	1
122	Head-mounted displays and multisensory integration: Replications and challenges. Proceedings of the Human Factors and Ergonomics Society, 2009, 53, 1131-1135.	0.3	1
123	An Organizational Resilience-Based Human Factors Safety Method. Proceedings of the Human Factors and Ergonomics Society, 2013, 57, 1693-1697.	0.3	1
124	Evaluating the Redesign of an ICU Bedside Emergency Equipment Drawer. Proceedings of the Human Factors and Ergonomics Society, 2013, 57, 678-682.	0.3	1
125	Novel Pulse Oximetry Sonifications for Eyes Free Monitoring. Proceedings of the Human Factors and Ergonomics Society, 2015, 59, 536-536.	0.3	1
126	Vibrotactile Displays of Pulse Oximetry. Proceedings of the Human Factors and Ergonomics Society, 2016, 60, 1557-1557.	0.3	1

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127	Conducting Comparable Research in Representative Worlds. Proceedings of the Human Factors and Ergonomics Society, 2016, 60, 248-248.	0.3	1
128	Spearcons for Patient Monitoring: Program of Laboratory-Based Feasibility Studies. Proceedings of the Human Factors and Ergonomics Society, 2019, 63, 663-667.	0.3	1
129	Concordance of expert clinicians' interpretations of the newborn's true physiological state. Pediatric Research, 2021, , .	2.3	1
130	Examining the efficacy of vibrotactile displays for monitoring patient vital signs: Six laboratory studies of change detection and state identification Journal of Experimental Psychology: Applied, 2022, 28, 10-34.	1.2	1
131	Evaluating Impacts of Head Worn Displays on Teamwork in Emergency Response: Review of Challenges for the Field. Proceedings of the Human Factors and Ergonomics Society, 2020, 64, 1607-1607.	0.3	1
132	Comparison Between Head-Mounted Displays Regarding The Resumption of A Disrupted Work Task. Proceedings of the Human Factors and Ergonomics Society, 2020, 64, 364-365.	0.3	1
133	Comparison of Auditory Icon Alarms and Spearcon Sequences for Patient Monitoring. Proceedings of the Human Factors and Ergonomics Society, 2020, 64, 1027-1027.	0.3	1
134	SPECTRa: An Online Tool for Simulating Prehospital Patient Care. Herd, 2022, 15, 375-394.	1.5	1
135	Supporting Anaesthetists during â€ [~] Red Blanket' Trauma Surgery: An Analysis of Work Practices and Requirements for a Head-Worn Display Support System. , 2022, , .		1
136	Signaling Patient Oxygen Desaturation with Enhanced Pulse Oximetry Tones. Biomedical Instrumentation and Technology, 2022, 56, 46-57.	0.4	1
137	Improving pulse oximetry auditory displays: Anesthesiologists' perceptions. Acta Anaesthesiologica Scandinavica, 2022, 66, 1027-1028.	1.6	1
138	Spatial Complexity and Knowledge of Invisible Logical Networks. Proceedings of the Human Factors Society Annual Meeting, 1984, 28, 615-619.	0.1	0
139	Visual Display Design: Theory and Practice. Proceedings of the Human Factors Society Annual Meeting, 1988, 32, 1334-1334.	0.1	0
140	Verbal Protocols as a Research Tool in Human Factors: Panel Discussion. Proceedings of the Human Factors Society Annual Meeting, 1990, 34, 1145-1147.	0.1	0
141	Al@NICTA. Al Magazine, 2012, 33, 115.	1.6	0
142	The Effect of Visual Cues on How People Handle Interruptions. Proceedings of the Human Factors and Ergonomics Society, 2014, 58, 250-254.	0.3	0
143	The Effect of Conventional Screens vs. Head-Mounted Displays on Alarm Monitoring Strategies. Proceedings of the Human Factors and Ergonomics Society, 2016, 60, 1555-1555.	0.3	0
144	Using Earcons to Monitor Multiple Patients. Proceedings of the Human Factors and Ergonomics Society, 2016, 60, 633-633.	0.3	0

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145	Interruptions in the Healthcare Workplace. Proceedings of the Human Factors and Ergonomics Society, 2016, 60, 532-532.	0.3	0
146	The effect of a secondary task on identification accuracy of oxygen saturation ranges using an enhanced pulse oximetry sonification. Proceedings of the Human Factors and Ergonomics Society, 2016, 60, 628-632.	0.3	0
147	Importance of â€~scene organisation' for neonatal resuscitation teamwork. Australian Critical Care, 2017, 30, 118.	1.3	0
148	Cueing Attention to a Matrix of Values on a Head-Worn Display: Four Studies with a Multiple Patient Monitoring Task. Proceedings of the Human Factors and Ergonomics Society, 2019, 63, 1771-1771.	0.3	0
149	The Impact of Concurrent Linguistic Tasks on Participants' Identification of Spearcons. Proceedings of the Human Factors and Ergonomics Society, 2019, 63, 668-668.	0.3	0
150	Multiple Patient Monitoring in High Dependency Units: A Field Study. Proceedings of the Human Factors and Ergonomics Society, 2019, 63, 669-669.	0.3	0
151	Understanding Patterns in Neonatal Trajectories in the First 10 Minutes After Birth. Proceedings of the Human Factors and Ergonomics Society, 2020, 64, 684-684.	0.3	0
152	From bartending interruptions to medication delivery interruptions: Managing the risks of a high-fidelity simulation study with pilot research Journal of Experimental Psychology: Applied, 2020, 26, 522-537.	1.2	0
153	Evaluation of Preview Cues to Enhance Recall of Auditory Sequential Information. Auditory Perception & Cognition, 0, , 1-18.	1.1	0
154	Similarity of expert clinicians' rank order of differential diagnoses in a newborn resuscitation context. Resuscitation Plus, 2022, 11, 100263.	1.7	0