

Supplementary Materials

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Supplementary Table S1. Friedman test results of concern.

Dimension of concerns	T1*	T2*	T3*	p-value†
Overall	3.42 (0.62)	2.67 (0.82)	2.52 (0.9)	0.008
False information	4.13 (0.99)	3.00 (0.76)	3.13 (0.99)	0.089
Worsen patient care	3.50 (0.93)	2.50 (0.93)	2.38 (0.74)	0.004
Data bias	3.75 (0.89)	3.13 (0.83)	2.88 (0.99)	0.268
Loss of control	3.38 (1.06)	2.63 (1.06)	2.13 (1.25)	0.002
Impersonal draft	2.88 (1.13)	2.25 (1.04)	2.00 (1.07)	0.010
Legal/ethical	4.00 (0.93)	3.25 (0.89)	3.13 (0.83)	0.028
Privacy	2.63 (0.92)	2.13 (1.13)	2.13 (0.83)	0.143
Worsen physician reasoning	3.13 (1.13)	2.50 (1.31)	2.38 (1.60)	0.156

* Results are shown in Mean (SD). † P-values below 0.05 are marked in bold.

Supplementary Table S2. Post-hoc pairwise Wilcoxon signed-rank test results of concern.

Dimension of concern	Comparison between		p-value*
Overall	T1	T2	0.023
	T1	T3	0.008
	T2	T3	0.202
False information	T1	T2	0.058
	T1	T3	0.089
	T2	T3	0.766
Worsen patient care	T1	T2	0.031
	T1	T3	0.018
	T2	T3	0.773
Data bias	T1	T2	0.198
	T1	T3	0.134
	T2	T3	0.346
Loss of control	T1	T2	0.048
	T1	T3	0.008
	T2	T3	0.072
Impersonal draft	T1	T2	0.037
	T1	T3	0.053
	T2	T3	0.346
Legal/ethical	T1	T2	0.120
	T1	T3	0.026
	T2	T3	0.773
Privacy	T1	T2	0.203
	T1	T3	0.129
	T2	T3	1.000
	T1	T2	0.168

Worsen	T1	T3	0.105
physician reasoning	T2	T3	0.773

* P-values below 0.05 are marked in bold.

Supplementary Table S3. Friedman test results of workload.

Dimension of workload	T1*	T2*	T3*	p-value†
Overall	10.98 (3.10)	8.02 (4.37)	6.92 (2.94)	0.040
Mental	10.63 (5.60)	7.00 (5.35)	7.13 (4.64)	0.381
Physical	8.75 (5.12)	7.00 (4.54)	5.50 (3.96)	0.409
Temporal	12.38 (4.21)	9.63 (4.98)	7.00 (3.85)	0.002
Performance	7.75 (6.09)	5.75 (5.20)	7.88 (5.57)	0.875
Effort	13.63 (3.78)	10.63 (5.07)	7.25 (2.76)	0.021
Frustration	12.75 (6.78)	8.13 (6.53)	6.75 (4.89)	0.122

* Results are shown in Mean (SD). † P-values below 0.05 are marked in bold.

Supplementary Table S4. Post-hoc pairwise Wilcoxon signed-rank test results of workload.

Dimension of workload	Comparison between		p-value
Overall	T1	T2	0.023
	T1	T3	0.035
	T2	T3	0.402
Mental	T1	T2	0.127
	T1	T3	0.151
	T2	T3	0.735
Physical	T1	T2	0.863
	T1	T3	0.281
	T2	T3	0.461
Temporal	T1	T2	0.073
	T1	T3	0.008
	T2	T3	0.036
Performance	T1	T2	0.547
	T1	T3	0.945
	T2	T3	0.675
Effort	T1	T2	0.195
	T1	T3	0.016
	T2	T3	0.078
Frustration	T1	T2	0.055
	T1	T3	0.063

	T2	T3	0.832
* P-values below 0.05 are marked in bold			

Supplementary Table S5. Raw survey responses from eight emergency physicians across three time points.

Phase	Physician	Documentation Time (Minute)	Workload (W)						Concern (C)								Usefulness (U)			Attitude (A)				Intention to Use (IU)			Intention to Delegate (ID)		
			W1	W2	W3	W4	W5	W6	C1	C2	C3	C4	C5	C6	C7	C8	U1	U2	U3	A1	A2	A3	A4	IU1	IU2	IU3	ID1	ID2	ID3
T1	1	3	16	16	16	3	16	19	4	4	4	4	4	4	4	4	-	-	-	-	-	-	-	-	-	-	-	-	-
	2	3	15	5	16	13	10	6	4	4	3	5	4	5	2	5	-	-	-	-	-	-	-	-	-	-	-	-	-
	3	2	14	13	13	3	20	20	5	4	4	3	1	3	2	2	-	-	-	-	-	-	-	-	-	-	-	-	-
	4	1	10	14	14	2	14	17	5	2	5	3	2	5	3	3	-	-	-	-	-	-	-	-	-	-	-	-	-
	5	3	16	7	14	6	16	14	5	4	4	4	2	5	4	3	-	-	-	-	-	-	-	-	-	-	-	-	-
	6	2	1	1	4	8	12	0	4	4	4	4	4	4	2	4	-	-	-	-	-	-	-	-	-	-	-	-	-
	7	2	5	6	8	20	13	12	4	4	4	2	3	3	2	2	-	-	-	-	-	-	-	-	-	-	-	-	-
	8	1	8	8	14	7	8	14	2	2	2	2	3	3	2	2	-	-	-	-	-	-	-	-	-	-	-	-	-
T2	1	-	16	17	17	4	17	20	3	3	3	3	3	3	3	3	4	4	4	4	4	4	4	4	4	4	4	4	4
	2	-	4	5	10	16	9	5	3	2	4	4	3	4	2	3	3	3	3	3	2	3	3	3	3	4	4	4	4
	3	-	0	4	5	0	5	0	3	3	2	2	1	2	1	2	5	5	5	5	5	5	5	5	5	5	5	5	5
	4	-	7	5	8	8	13	8	2	2	3	1	1	2	1	1	4	4	4	4	4	3	2	4	4	4	4	4	4
	5	-	13	8	14	7	13	12	4	3	4	3	2	4	4	3	4	4	4	4	4	4	3	3	4	4	4	4	4
	6	-	2	2	3	1	2	1	4	4	4	4	4	4	3	5	3	3	3	3	3	3	2	3	3	3	3	3	3
	7	-	7	8	6	8	11	7	2	2	2	2	2	3	2	2	4	4	4	5	5	5	4	5	5	5	5	5	5
	8	-	7	7	14	2	15	12	3	1	3	2	2	4	1	1	4	3	3	3	3	3	3	4	3	3	4	3	3
T3	1	0.5	7	7	8	12	8	7	3	3	3	3	3	3	3	4	5	5	5	5	5	5	5	5	5	5	5	5	5
	2	1	8	8	7	9	8	8	4	3	4	4	2	4	2	3	4	4	4	4	3	3	3	3	3	3	4	4	3
	3	0.25	3	0	3	4	4	0	2	2	2	1	1	2	1	1	5	5	5	5	5	5	5	5	5	5	5	5	5
	4	0.5	4	3	4	3	4	9	3	2	2	1	1	3	2	1	4	4	4	4	4	4	2	4	4	4	1	4	4
	5	0.7	15	7	13	7	12	13	5	3	4	3	2	4	3	3	4	4	4	4	3	4	3	4	4	4	4	4	3
	6	1	1	1	3	19	5	0	3	3	4	3	4	4	3	5	3	4	4	4	3	3	3	3	3	3	4	3	3
	7	1	7	6	6	7	8	5	2	2	2	1	2	2	2	1	4	4	4	4	4	4	3	4	4	4	4	4	4
	8	0.75	12	12	12	2	9	12	3	1	2	1	1	3	1	1	4	4	4	4	4	4	4	4	4	4	4	4	4

W1-W6 are dimensions of workload: Mental demand, Physical demand, Temporal demand, Dissatisfaction of one's Performance, Effort for accomplishment, and Frustration level, respectively. C1-C8 are dimensions of concern: False information, Worsening patient care, Data bias, Loss of control, Impersonal draft, Legal and ethical issues, Privacy, and Worsening physician reasoning, respectively. U1-U3, A1-A4, IU1-IU3, and ID1-ID3 refer to the questionnaire items described in Table 1, where U = Perceived Usefulness, A = Attitude, IU = Intention to Use, and ID = Intention to Delegate.