

Supplementary Tables

A Colour-Coded Urgency Bar and Intervention Thresholds in Sequential Health Decisions

Alex Kolesnikov

The tables below were imported from the frozen, machine-readable outputs in the article-specific OSF reproducibility package. No analytical model was rerun and no numerical result was re-entered manually.

Supplementary Table S1. Author-generated symptom weights.

Symptom	Experimental urgency weight
Moderate fever	3
Fatigue	3
Dizziness	3
Vomiting	3
Pale skin	3
Chills and shivering	4
Headache	5
Rapid heart rate	5
Blurred vision	5
Very drowsy	6
Sensitivity to light	6
Stiff neck	7
Shortness of breath	8

Note. Weights were assigned before data collection to construct internally ordered experimental trajectories. They are not validated clinical weights and have no external diagnostic or triage interpretation.

Supplementary Table S2. Complete experimental urgency trajectories by scenario version.

Version	Pair	Trajectory	Scenario context	Stage 1	Stage 2	Stage 3	Stage 4	Stage 5	Final score
1A	1	Gradual	Fever/headache/vomiting/dizziness/stiff neck	3	8	11	14	21	21
1B	1	Sudden	Fever/headache/vomiting/dizziness/stiff neck	3	11	14	21	21	21
2A	2	Gradual	Fatigue/rapid heart rate/drowsiness/shortness of breath/pale skin	3	8	14	22	25	25
2B	2	Sudden	Fatigue/rapid heart rate/drowsiness/shortness of breath/pale skin	3	14	22	25	25	25
3A	3	Gradual	Dizziness/headache/pale skin/blurred vision/light sensitivity	3	8	11	16	22	22
3B	3	Sudden	Dizziness/headache/pale skin/blurred vision/light sensitivity	3	17	22	22	22	22
4A	4	Gradual	Fatigue/chills/rapid heart rate/shortness of breath/dizziness	3	7	12	20	23	23
4B	4	Sudden	Fatigue/chills/rapid heart rate/shortness of breath/dizziness	3	19	23	23	23	23

Note. Scores are author-generated experimental quantities. Each row presents all five displayed stage scores for one scenario version; the final-score column confirms the endpoint score.

Supplementary Table S3. Prespecified Holm-adjusted contrast family.

Planned contrast	Log-odds	SE	OR	95% CI	Raw p	Holm p
Urgency score vs symptoms only	0.058	0.167	1.060	0.763–1.471	.729692	1.000000
Urgency label vs symptoms only	0.239	0.161	1.270	0.926–1.742	.137528	.687640
Visual bar vs symptoms only	0.193	0.137	1.213	0.927–1.587	.159305	.687640
Coloured bar vs symptoms only	0.723	0.157	2.061	1.516–2.802	.000004	.000028
Multimodal vs symptoms only	−0.009	0.166	0.992	0.717–1.372	.958993	1.000000
Urgency score vs urgency label	−0.181	0.160	0.834	0.610–1.141	.256430	.769291
Visual bar vs coloured bar	−0.530	0.151	0.589	0.438–0.791	.000449	.002695

Note. The contrast direction is retained as prespecified. Holm adjustment was applied across all seven contrasts. For visual bar versus coloured bar, OR < 1 indicates lower intervention odds under the ordinary visual bar.

Supplementary Table S4. Complete primary exchangeable logistic GEE coefficients.

Term	β	Robust SE	OR	95% CI	Raw p
Intercept	−3.455	0.266	0.032	0.019–0.053	1.812e−38
Urgency score vs symptoms only	0.058	0.167	1.060	0.763–1.471	.729692
Urgency label vs symptoms only	0.239	0.161	1.270	0.926–1.742	.137528
Visual bar vs symptoms only	0.193	0.137	1.213	0.927–1.587	.159305
Coloured bar vs symptoms only	0.723	0.157	2.061	1.516–2.802	.000004
Multimodal vs symptoms only	−0.009	0.166	0.992	0.717–1.372	.958993
Sudden vs gradual	−0.082	0.094	0.921	0.766–1.107	.379055
Pair 2 vs Pair 1	−0.033	0.114	0.968	0.774–1.210	.773538
Pair 3 vs Pair 1	−0.230	0.095	0.794	0.660–0.956	.015001
Pair 4 vs Pair 1	−0.325	0.140	0.723	0.549–0.952	.020839
Current experimental urgency (per point)	0.325	0.019	1.384	1.333–1.438	2.051e−63

Note. The model used 3,047 at-risk stage rows clustered within 277 participants, an exchangeable working-correlation structure, and robust sandwich standard errors. Reference levels were symptoms only, gradual trajectory, and Pair 1. The estimated working correlation was 0.323.

Supplementary Table S5. Complete secondary format-by-urgency interaction model.

Term	β	Robust SE	OR	95% CI	Raw p
Intercept	-3.685	0.466	0.025	0.010–0.063	2.599e-15
Urgency score vs symptoms only	0.449	0.482	1.566	0.609–4.027	.351807
Urgency label vs symptoms only	0.381	0.496	1.463	0.554–3.867	.442526
Visual bar vs symptoms only	-0.630	0.490	0.533	0.204–1.392	.198716
Coloured bar vs symptoms only	0.248	0.512	1.282	0.470–3.496	.627808
Multimodal vs symptoms only	1.027	0.482	2.793	1.086–7.182	.033086
Sudden vs gradual	-0.115	0.099	0.892	0.735–1.082	.245710
Pair 2 vs Pair 1	-0.009	0.118	0.991	0.786–1.250	.941387
Pair 3 vs Pair 1	-0.238	0.095	0.788	0.654–0.950	.012512
Pair 4 vs Pair 1	-0.274	0.138	0.760	0.579–0.997	.047452
Current experimental urgency (per point)	0.343	0.044	1.409	1.293–1.536	6.141e-15
Urgency $\times$ urgency score	-0.034	0.054	0.967	0.870–1.074	.529556
Urgency $\times$ urgency label	-0.019	0.052	0.981	0.885–1.087	.715617
Urgency $\times$ visual bar	0.073	0.053	1.076	0.970–1.193	.167737
Urgency $\times$ coloured bar	0.045	0.060	1.046	0.930–1.175	.453644
Urgency $\times$ multimodal	-0.092	0.052	0.912	0.824–1.011	.078773

Note. The model added five current-urgency-by-format interactions to the primary specification. The joint interaction test was Wald $\chi^2(5) = 14.793$, $p = .011283$. Because interactions are included, the standalone format coefficients represent format differences when experimental urgency equals 0; the interaction terms describe differences in urgency slopes.

Supplementary Table S6. Sensitivity-analysis comparison for coloured-bar contrasts.

Analysis	Contrast	Working correlation	OR	95% CI	Raw p	Specification note
Working independence	Coloured bar vs symptoms only	Independence	1.552	1.105–2.180	.011220	Primary formula
Working independence	Coloured bar vs visual bar	Independence	1.388	1.024–1.881	.034570	Primary formula
Score-independent model	Coloured bar vs symptoms only	Exchangeable	2.006	1.399–2.877	.000154	No numerical urgency-score predictor
Score-independent model	Coloured bar vs visual bar	Exchangeable	1.761	1.247–2.488	.001310	No numerical urgency-score predictor
Conservative ambiguous sequences	Coloured bar vs symptoms only	Exchangeable	1.993	1.472–2.697	.000008	Stage rows=3123
Conservative ambiguous sequences	Coloured bar vs visual bar	Exchangeable	1.727	1.283–2.324	.000315	Stage rows=3123
Demographic-adjusted model	Coloured bar vs symptoms only	Exchangeable	2.327	1.668–3.246	6.591e–07	Exploratory covariate adjustment
Demographic-adjusted model	Coloured bar vs visual bar	Exchangeable	1.885	1.384–2.566	.000057	Exploratory covariate adjustment
Categorical urgency diagnostic	Coloured bar vs symptoms only	Exchangeable	1.761	1.281–2.421	.000488	Uses Low/Moderate/High/Critical categories
Categorical urgency diagnostic	Coloured bar vs visual bar	Exchangeable	1.596	1.182–2.154	.002271	Uses Low/Moderate/High/Critical categories

Note. Values are raw, unadjusted sensitivity-analysis p-values and are not members of the primary Holm family. All models used participant clustering and robust standard errors. Complete coefficient files are available in the OSF repository.

Supplementary Table S7. Audit of the 25 ambiguous Part B response sequences.

Participant ID	Survey version	Part B position	Scenario	Trajectory	Format	Pattern	Classification reason
R6N534X25R	10	1	1A6	Gradual	Multimodal	W..S.	missing/non-wait response before first seek
REUSEN5PY3	1	4	4A4	Gradual	Visual bar	W.S..	missing/non-wait response before first seek
R4J42ZRV6	8	3	3A3	Gradual	Urgency label	.WS..	missing/non-wait response before first seek
RU3FPKDTUP	2	1	1A3	Gradual	Urgency label	.WWS.	missing/non-wait response before first seek
RGR5S8T3RD	9	2	2A6	Gradual	Multimodal	W..S.	missing/non-wait response before first seek
RR6JWA5DGZ	4	3	3A6	Gradual	Multimodal	.WS..	missing/non-wait response before first seek
R8LW978KP2	1	2	2A2	Gradual	Urgency score	W.S..	missing/non-wait response before first seek
R8LW978KP2	1	3	3B3	Sudden	Urgency label	.S...	missing/non-wait response before first seek
R5NYSKG3KD	7	1	1B3	Sudden	Urgency label	W.WS.	missing/non-wait response before first seek
R5NYSKG3KD	7	2	2A4	Gradual	Visual bar	.WWS.	missing/non-wait response before first seek
R5NYSKG3KD	7	3	3B6	Sudden	Multimodal	.S...	missing/non-wait response before first seek
R4DC39PTBD	7	3	3B6	Sudden	Multimodal	.S...	missing/non-wait response before first seek
R3ZRAGXZMK	1	3	3B3	Sudden	Urgency label	.S...	missing/non-wait response before first seek
R3ZRAGXZMK	1	4	4A4	Gradual	Visual bar	.WS..	missing/non-wait response before first seek
R9H8KDSS5J	5	1	1B6	Sudden	Multimodal	W.S..	missing/non-wait response before first seek
RDPBNKTML6	3	4	4A5	Gradual	Coloured bar	WWW.	incomplete sequence without intervention
RBVUBHUJU5	3	4	4A5	Gradual	Coloured bar	.S...	missing/non-wait response before first seek
RPGWF9LPV9	3	2	2A1	Gradual	Symptoms only	.S...	missing/non-wait response before first seek
R3N6C6N8X2	4	2	2B5	Sudden	Coloured bar	.S...	missing/non-wait response before first seek
RVE9MGDTMC	12	3	3A2	Gradual	Urgency score	WWW.S	missing/non-wait response before first seek
RR5SZWYWY5	8	3	3A3	Gradual	Urgency label	..S..	missing/non-wait response before first seek
RDVLCZ2RXQ	4	1	1A4	Gradual	Visual bar	.WS..	missing/non-wait response before first seek
RYRTHLJR67	9	1	1B4	Sudden	Visual bar	W.S..	missing/non-wait response before first seek
RE3H4TFTKH	7	2	2A4	Gradual	Visual bar	.WS..	missing/non-wait response before first seek
R7YVRN2GWD	5	2	2A5	Gradual	Coloured bar	.S...	missing/non-wait response before first seek

Note. Participant identifiers are random. In the response pattern, W = Wait and monitor, S = Seek help now, and . = missing. Twenty-four sequences contained a missing or non-wait response before the first recorded seek response; one sequence was incomplete without an intervention. The full 24-field machine-readable audit is retained in the OSF repository.