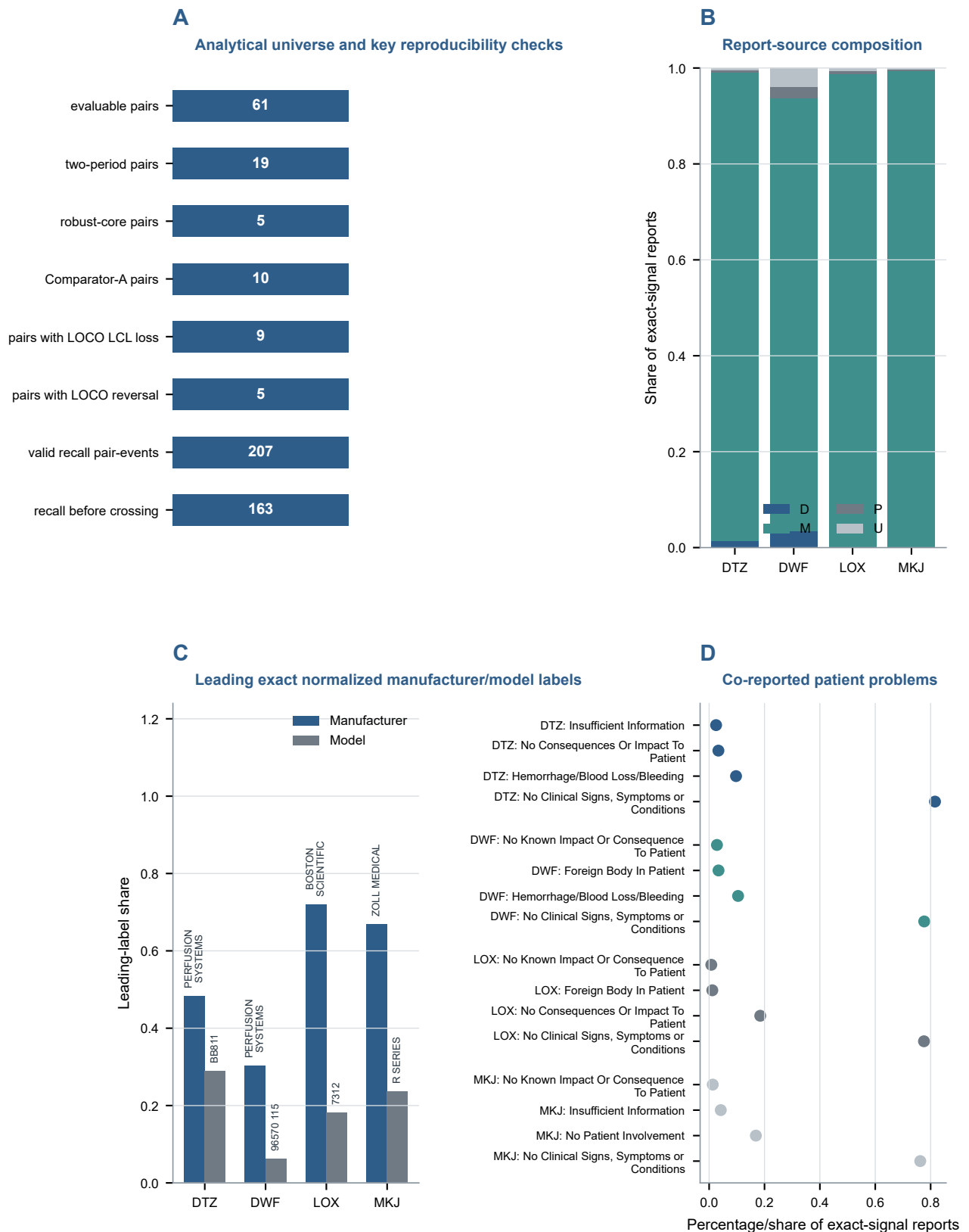
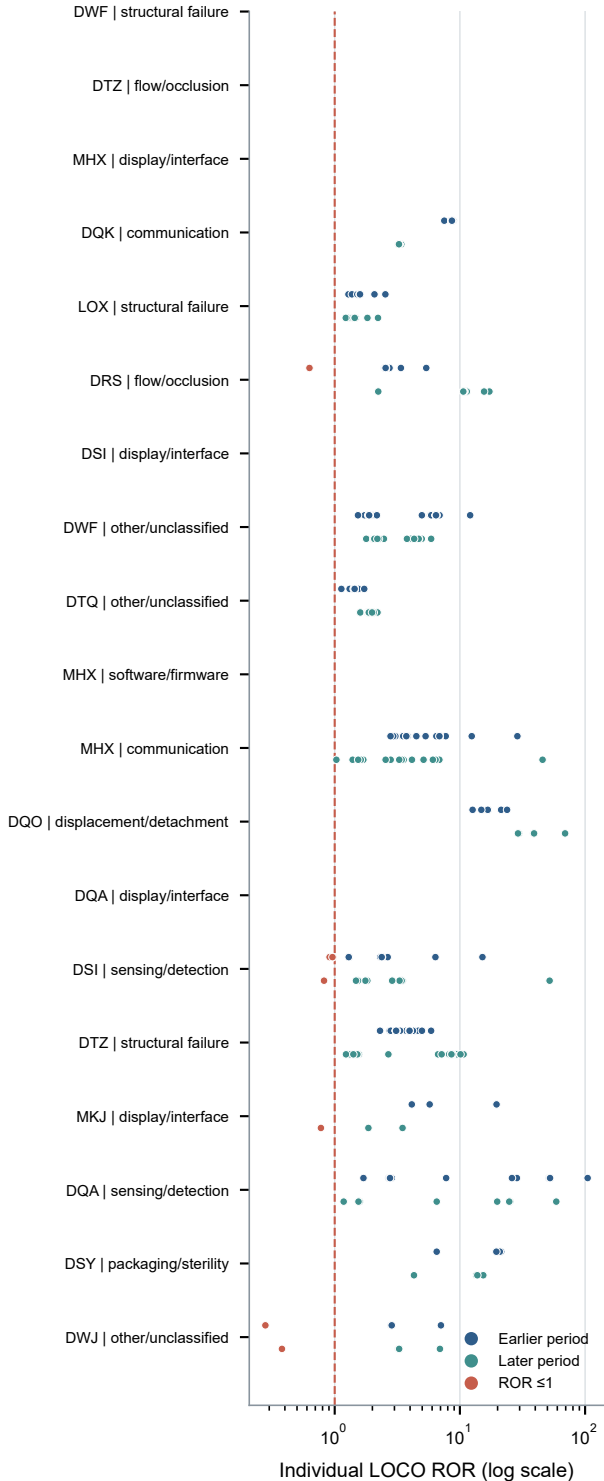




A

Individual LOCO scenarios for all 19 signals



B Complete pooled comparator composition metrics

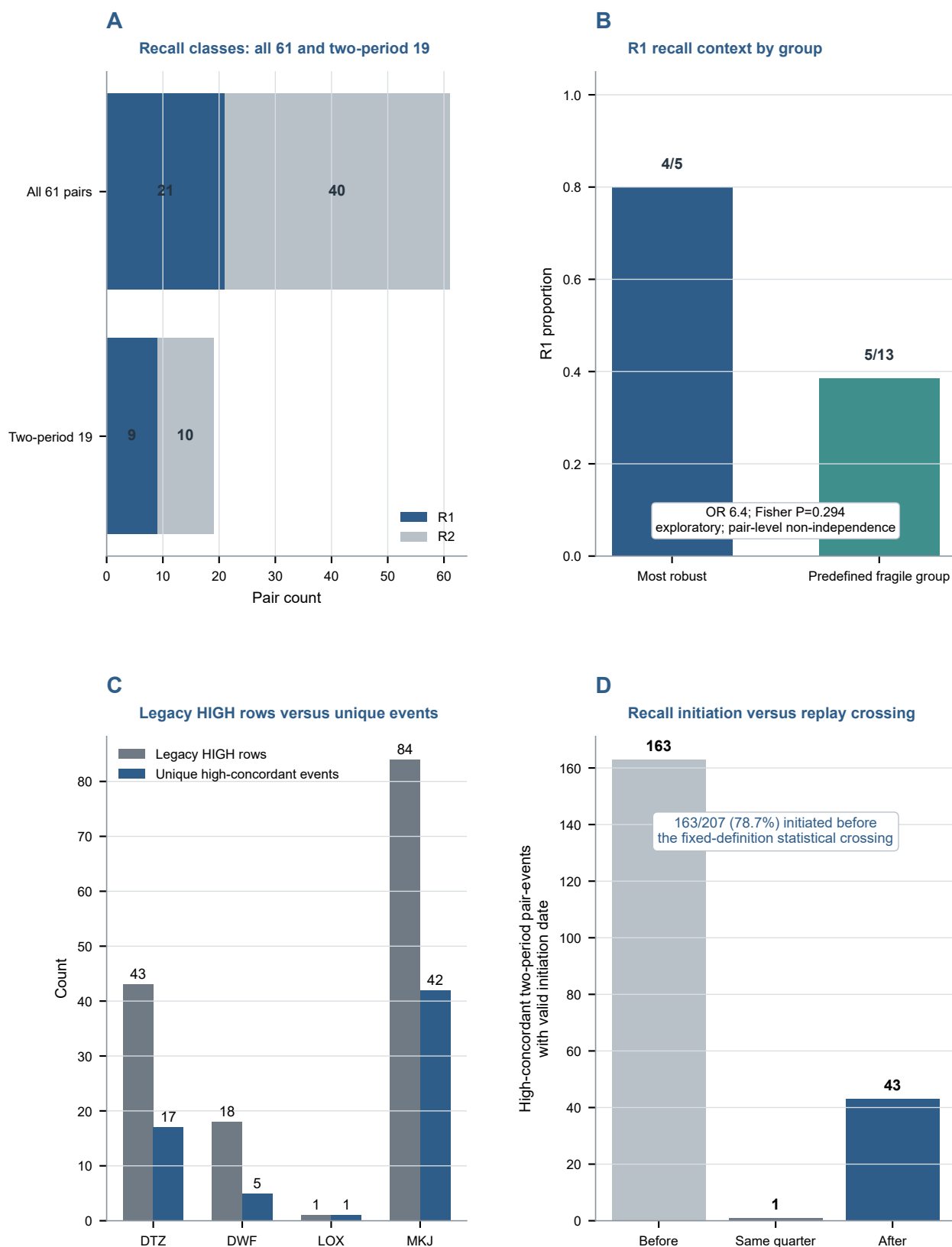
DWF DTZ	0.24	0.50	0.16	0.30
DTZ DTQ	0.26	0.19	0.15	0.12
MHX DSI	0.39	0.92	0.32	0.84
DQK KRG	0.94	0.93	0.88	0.87
LOX LIT	0.50	0.60	0.31	0.45
DRS MOM	0.73	0.49	0.55	0.32
DSI MHX	0.45	0.95	0.34	0.91
DWF DWC	0.24	0.28	0.16	0.16
DTQ DWC	0.22	0.18	0.15	0.14
MHX MWI	0.39	0.29	0.32	0.24
MHX DSI	0.39	0.58	0.32	0.42
DQO OWQ	0.62	0.67	0.46	0.51
DQA MUD	0.62	0.94	0.50	0.89
DSI MXC	0.45	0.60	0.34	0.50
DTZ DWF	0.26	0.53	0.15	0.33
MKJ LDD	0.57	0.68	0.51	0.56
DQA MUD	0.62	1.00	0.50	1.00
DSY MIH	0.91	0.74	0.84	0.58
DWJ DWC	0.61	0.59	0.51	0.50
	Top1 share (denom)	Top1 share (signal)	HHI (denom)	HHI (signal)

C

Complete numeric six-domain matrix

DWF structural failure	1.00	1.00	1.00	1.00	A	1.00
DTZ flow/occlusion	1.00	1.00	1.00	1.00	A	1.00
MHX display/interface	1.00	1.00	1.00	1.00	A	1.00
DQK communication	0.88	1.00	1.00	1.00	A	1.00
LOX structural failure	0.75	1.00	1.00	1.00	A	1.00
DRS flow/occlusion	1.00	1.00	0.50	NA	C	0.52
DSI display/interface	0.75	1.00	1.00	0.50	C	0.81
DWF other/unclassified	0.75	1.00	0.50	1.00	A	0.71
DTQ other/unclassified	0.75	1.00	0.50	1.00	A	0.90
MHX software/firmware	0.62	1.00	1.00	1.00	A	0.95
MHX communication	0.62	1.00	1.00	1.00	B	0.95
DQO displacement/detachment	0.50	1.00	1.00	NA	A	1.00
DQA display/interface	0.50	1.00	0.50	0.50	B	0.62
DSI sensing/detection	0.50	1.00	0.00	0.00	C	0.86
DTZ structural failure	0.38	1.00	1.00	NA	B	0.86
MKJ display/interface	0.25	1.00	0.50	1.00	C	0.29
DQA sensing/detection	0.00	1.00	0.50	1.00	B	0.71
DSY packaging/sterility	0.88	1.00	1.00	NA	A	1.00
DWJ other/unclassified	0.88	1.00	1.00	NA	C	1.00
	Quarter	LOO	Mfr	Model	Comparator (A=1,B=5,C=0)	Rolling

Supplementary Figure S3: FDA recall as regulatory context, not validation



High-concordant two-period pair-events are shown. Recall linkage is deterministic and algorithmic, not event-by-event manually adjudicated. Events are regulatory context rather than a gold standard; temporal ordering does not demonstrate prediction or a predictive interpretation.