

MATERIAL ADICIONAL

Appendix

Calculation of NNS (number needed to screen) in participants with OLD.

Time	Beg. Total	Fail	Survivor Function	Std. Error	[95% Conf. Int.]	

Spiral CT						
365	2144	6	0.9972	0.0011	0.9938	0.9988
730	2058	17	0.9892	0.0022	0.9838	0.9928
1095	2000	9	0.9848	0.0027	0.9786	0.9892
1460	1944	8	0.9808	0.0030	0.9740	0.9859
1825	1759	8	0.9767	0.0033	0.9692	0.9824
2190	381	0	0.9767	0.0033	0.9692	0.9824
X-Ray						
365	2243	18	0.9921	0.0019	0.9875	0.9950
730	2171	22	0.9823	0.0028	0.9760	0.9870
1095	2102	18	0.9740	0.0034	0.9666	0.9799
1460	2026	12	0.9684	0.0037	0.9602	0.9749
1825	1853	2	0.9674	0.0038	0.9591	0.9741
2190	385	3	0.9655	0.0039	0.9569	0.9724

Note: survivor function is calculated over full data and evaluated at indicated times; it is not calculated from aggregates shown at left.						

$$Z = \frac{|0.9767 - 0.9674|}{\sqrt{0.0033^2 + 0.0038^2}} = 1.848; P(1 \text{ cola}) = 0.032; NNS = \frac{1}{|0.9767 - 0.9674|} = 108$$

Calculation of NNS (number needed to screen) in participants without OLD.

Time	Beg. Total	Fail	Survivor Function	Std. Error	[95% Conf. Int.]	

Spiral CT						
365	4465	4	0.9991	0.0004	0.9976	0.9997
730	4382	14	0.9960	0.0010	0.9936	0.9974
1095	4318	4	0.9950	0.0011	0.9925	0.9967
1460	4246	3	0.9943	0.0011	0.9916	0.9962
1825	3917	7	0.9927	0.0013	0.9897	0.9948
2190	742	5	0.9906	0.0016	0.9867	0.9933
X-Ray						
365	4424	12	0.9973	0.0008	0.9953	0.9985
730	4353	13	0.9944	0.0011	0.9917	0.9962
1095	4280	12	0.9916	0.0014	0.9885	0.9939
1460	4203	7	0.9900	0.0015	0.9866	0.9925
1825	3926	8	0.9881	0.0016	0.9844	0.9909
2190	751	2	0.9873	0.0017	0.9835	0.9903

Note: survivor function is calculated over full data and evaluated at indicated times; it is not calculated from aggregates shown at left.						

$$Z = \frac{|0.9927 - 0.9881|}{\sqrt{0.0013^2 + 0.0016^2}} = 2.231; P(1 \text{ cola}) = 0.013; NNS = \frac{1}{|0.9927 - 0.9881|} = 218$$