

## 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.]	
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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
<b>1825</b>	<b>1759</b>	<b>8</b>	<b>0.9767</b>	<b>0.0033</b>	<b>0.9692</b>	<b>0.9824</b>
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
<b>1825</b>	<b>1853</b>	<b>2</b>	<b>0.9674</b>	<b>0.0038</b>	<b>0.9591</b>	<b>0.9741</b>
2190	385	3	0.9655	0.0039	0.9569	0.9724
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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.]	
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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
<b>1825</b>	<b>3917</b>	<b>7</b>	<b>0.9927</b>	<b>0.0013</b>	<b>0.9897</b>	<b>0.9948</b>
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
<b>1825</b>	<b>3926</b>	<b>8</b>	<b>0.9881</b>	<b>0.0016</b>	<b>0.9844</b>	<b>0.9909</b>
2190	751	2	0.9873	0.0017	0.9835	0.9903
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Note: survivor function is calculated over full data and evaluated at indicated times; it is not calculated from aggregates shown at left.						

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