

**Supplemental Digital Content 12.** The association of surgical hospitalization with elevated late-life (Visit 5) brain  $\beta$ -amyloid deposition, stratified by age

All Surgery	Age < 76		Age $\geq$ 76		Interaction
	OR (95% CI) <sup>a</sup>	<i>p</i>	OR (95% CI) <sup>a</sup>	<i>p</i>	
All surgery vs. never hospitalized	1.02 (0.42, 2.51) N=116	.961	2.30 (0.87, 6.10) N=127	.094	.384
Moderate/high-risk surgery vs. never hospitalized	1.13 (0.43, 2.96) N=102	.797	2.60 (0.95, 7.13) N=119	.064	.430

Model 1 is adjusted for age, center, race, sex, education, *APOE*  $\epsilon$ 4 status. Age was dichotomized at 76 because 76 was the median age in the full analytic sample.

<sup>a</sup>OR represents the adjusted odds for elevated brain amyloid of the surgery group as compared to the no surgery referent group