

220. In a population, non-smokers have a force of mortality equal to one half that of smokers.

For non-smokers, $l_x = 500(110 - x)$, $0 \leq x \leq 110$.

Calculate $e_{20:25}^{\circ}$ for a smoker (20) and a non-smoker (25) with independent future lifetimes.

- (A) 18.3
- (B) 20.4
- (C) 22.1
- (D) 24.5
- (E) 26.8