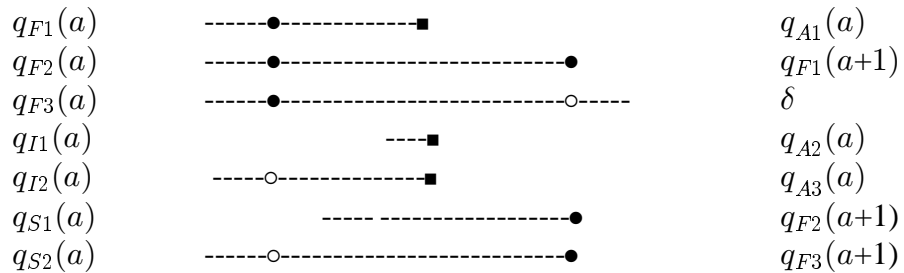| *probability if first screen at age a*	*time 0* screen at age a /	*time 1* screen at age a+1 /	*probability if first screen at age a+1*
$q_{F1}(a)$	------●-------------■		$q_{A1}(a)$
$q_{F2}(a)$	------●--------------------------------●		$q_{F1}(a+1)$
$q_{F3}(a)$	------●--------------------------------○-----		δ
$q_{I1}(a)$		----■	$q_{A2}(a)$
$q_{I2}(a)$	-----○-------------■		$q_{A3}(a)$
$q_{S1}(a)$		----- -------------------●	$q_{F2}(a+1)$
$q_{S2}(a)$	-----○--------------------------●		$q_{F3}(a+1)$

-----preclinical cancer
● screen-detected   ○ missed on screening   ■=clinical detection