

Breast cancer screening outcomes by age and source of data



See the detailed [draft recommendations](#) for more information.

RESULTS (Per 1000 over 10 years)	40-49	50-59	60-69	70-74	75+	All ages (≥40)
Breast cancer deaths by available study type: Threshold = 0.5 and 1.0 / 1000						
RCT	0.27 fewer	0.5 fewer	0.65 fewer	0.81-0.92 fewer	0 fewer	No data
Cohort or case control	0.79-0.94 fewer	1.45-1.72 fewer	1.89-2.24 fewer	2.68-3.17 fewer	No data	
Time trend ¹	0.3 fewer	1.3 fewer to 0.2 more	1.7 fewer (60-69) to 2.1 more (age 60-74)	0.2 more (age 70-79) to 2.1 more (age 60-74)	1.2 more	3.0-3.7 fewer
Model	0.52 fewer	No data				
All-cause mortality by available study type: Threshold = 1.0 / 1000						
RCT	0.13 fewer	0.31 fewer	0.71 fewer	1.41 fewer	No data	
Stage 2 or higher by available study type: Threshold = 3.0 / 1000						
RCT	No difference	No difference	No data			3 fewer
Cohort	No data					0.51 fewer
Time trend	No data					1 fewer (late stage regional)
Model	1.68 fewer	No data				
Stage 3 or higher by available study type: Threshold = 2.0 / 1000						
RCT	No data					1.0 fewer

¹ May not be comparable (unable to calculate absolute effect using Canadian baseline risk (Coldman, 2014))

Cohort	No data			0.51 fewer	
Time trend			0.7-1.3 fewer	0.1-0.3 fewer	1 fewer (late stage regional) and 0.1 fewer (late stage distant)
Model	0.83 fewer	No data			
Stage 4 by available study type: Threshold = 1.0 / 1000					
Time trend	No data			0.1 fewer (late stage distant)	
Model	0.25 fewer	No data			
Chemotherapy by available study type: Threshold = 2.0 / 1000					
RCT	No data	0.01 fewer	0.05 fewer	0.14 fewer	
Model	2.23 fewer	No data			
Mastectomy or radical mastectomy by available study type: Threshold = 2.0 / 1000					
RCT	No data	0.03 fewer	0.16 fewer	1.84 more	
Cohort	No data			0.4 fewer	
Simple mastectomy available study type: Threshold = 2.0 / 1000					
RCT	No data	0.19 more	0.22 more	No data	
Cohort	No data			0.9 more	
Radiation by available study type: Threshold = 5.0 / 1000					
RCT	No data	1.14 more	1.15 more	2.85 more	
Model	0.89 fewer	No data			

Overdiagnosis by available study type: Threshold = 5.0 / 1000						
RCT	1.95	1.93	No data		At least 5	No data
Cohort	At least 5 (age 49-52)	None (age 53-59) to 3.4 (age 50-69)	1.5 (age 60-69) to 3.4 (50-69)	At least 5	At least 5	No data
Model	0.09	No data				
Additional imaging with or without biopsy (no cancer): Threshold = 150 / 1000						
Canadian jurisdictional data	368	286 to 366 ²	258	220 (70+)		No data
Model	173	No data				
Biopsies (no cancer): Threshold = 15.0 / 1000						
Canadian jurisdictional data	55	34 to 46.2 ³	33	30 (70+)		No data
Model	15	No data				

Certainty of the evidence
Moderate
Low
Low to very low
Very low

² Starting screening at age 50 vs starting a decade earlier

³ Starting screening at age 50 vs starting a decade earlier