

**CLASSIFICATION OF HEART FAILURE, ISCHEMIC HEART DISEASE, AND STROKE RISK GROUPS
WITHIN THE CCSS COHORT***

	Risk score	Risk group	Cumulative incidence at age 50 years, % (95% confidence interval [CI])	Rate ratios (95% CI) compared with siblings without cancer	Rate ratios (95% CI) compared with the preceding group (e.g., moderate vs. low risk; high vs. moderate risk)
Heart failure					
Siblings	-	-	0.8 (0.2-1.5)	1.0 (referent)	-
Simple model	<3	Low	0.8 (0.1-1.4)	1.6 (0.7-3.4)	-
	3-4	Moderate	9.1 (7.3-11.0)	14.6 (8.0-26.4)	9.2 (5.4-15.6)
Standard model	≥5	High	13.7 (7.9-19.5)	33.0 (18.0-60.7)	2.3 (1.7-3.0)
	<3	Low	1.0 (0.3-1.7)	1.8 (0.9-3.8)	-
	3-5 [†]	Moderate	9.2 (7.1-11.3)	12.1 (6.6-22.0)	6.6 (4.0-10.8)
Heart model	≥6	High	12.4 (9.3-15.6)	41.5 (22.7-75.9)	3.4 (2.6-4.5)
	<3	Low	0.7 (0.1-1.3)	1.6 (0.7-3.3)	-
	3-5 [†]	Moderate	8.8 (6.6-10.9)	11.3 (6.2-20.8)	7.3 (4.2-12.5)
	6-8	High	13.1 (9.1-17.0)	32.8 (17.9-60.1)	2.9 (2.2-3.8)
	≥9	Very high	23.7 (14.5-32.9)	118.1 (58.8-236.9)	3.6 (2.3-5.6)
Ischemic heart disease					
Siblings	-	-	1.2 (0.4-2.0)	1.0 (referent)	-
Simple model	<3	Low	2.3 (1.5-3.1)	2.3 (1.5-3.5)	-
	≥3	Moderate/High	14.4 (11.7-17.2)	10.1 (6.7-15.2)	4.4 (3.4-5.8)
Standard model	<2	Low	2.3 (1.5-3.1)	2.3 (1.5-3.5)	-
	2-4	Moderate	11.9 (8.6-15.3)	7.2 (4.7-11.2)	3.2 (2.3-4.3)
	5	High	19.9 (15.0-24.7)	17.8 (11.4-27.6)	2.5 (1.8-3.3)
Stroke					
Siblings	-	-	1.1 (0.4-1.7)	1.0 (referent)	-
Simple model	<3	Low	4.0 (2.8-5.3)	4.7 (2.8-8.0)	-
	≥3	Moderate/High	10.4 (7.3-13.4)	14.6 (8.7-24.6)	3.1 (2.4-4.0)
Standard model	<1	Low	2.4 (1.5-3.4)	4.2 (2.4-7.3)	-
	1-3 [§]	Moderate	6.9 (4.8-8.9)	8.8 (5.0-15.5)	2.1 (1.5-2.9)
	≥4	High	19.9 (13.1-26.6)	37.2 (21.5-64.6)	4.2 (3.2-5.7)

*Data taken from the CCSS papers, "Individual prediction of heart failure among childhood cancer survivors" (*J Clin Oncol* 2014) and "Prediction of ischemic heart disease and stroke among childhood cancer survivors" (*J Clin Oncol* 2018). Note that the heart failure estimates were updated from age 40 to age 50 in the 2018 publication.

[†]Survivors with total congestive heart failure risk score = 3 under the standard and the heart models without both anthracycline and chest/heart radiation exposures are classified as low risk.

[§]Survivors with total stroke risk score = 1 under the standard model due to chemotherapy alone and no cranial radiation are classified as low risk.