

Appendix 4: Children’s Oncology Group Long-term follow up guidelines versions 1.0, 2.0, 3.0, 4.0 and 5.0

	Breast Cancer	Colorectal Cancer	Cardiomyopathy			
V1	<u>Therapeutic Exposure:</u> Total Body Irradiation Mantle Mediastinal Whole lung Spinal (> 30 Gy) <u>Surveillance:</u> Mammogram, Yearly, beginning 8 years after radiation or at age 25 (whichever occurs last)	<u>Therapeutic Exposure:</u> Total body irradiation Abdominal or pelvic radiation >25 Gy Spinal radiation >25 Gy <u>Surveillance:</u> 10 years after radiation or 25 (whichever is last)- every 10 years Fecal occult blood test AND Flexible sigmoidoscopy every 5 years OR Colonoscopy every 10 years	Age at Treatm ent*	Chest Ra- diatio n	Anthracycl ine Dose*	Recomm ended Freque ncy
			< 1 year old	Yes	Any	Every year
			< 1 year old	No	< 200 mg/m ²	Every 2 years
			< 1 year old	No	≥ 200 mg/m ²	Every year
			1-4 years old	Yes	Any	Every year
			1-4 years old	No	< 100 mg/m ²	Every 5 years
			1-4 years old	No	≥ 100 to < 300 mg/m ²	Every 2 years
			1-4 years old	No	≥ 300 mg/m ²	Every year
			≥ 5 years old	Yes	< 300 mg/m ²	Every 2 years
			≥ 5 years old	Yes	≥ 300 mg/m ²	Every year

			<table border="1"> <tr> <td>≥ 5 years old</td> <td>No</td> <td>< 200 mg/m²</td> <td>Every 5 years</td> </tr> <tr> <td>≥ 5 years old</td> <td>No</td> <td>≥ 200 to < 300 mg/m²</td> <td>Every 2 years</td> </tr> <tr> <td>≥ 5 years old</td> <td>No</td> <td>≥ 300 mg/m²</td> <td></td> </tr> </table>	≥ 5 years old	No	< 200 mg/m ²	Every 5 years	≥ 5 years old	No	≥ 200 to < 300 mg/m ²	Every 2 years	≥ 5 years old	No	≥ 300 mg/m ²							
≥ 5 years old	No	< 200 mg/m ²	Every 5 years																		
≥ 5 years old	No	≥ 200 to < 300 mg/m ²	Every 2 years																		
≥ 5 years old	No	≥ 300 mg/m ²																			
V2	<p><u>Therapeutic Exposure:</u> ≥ 20 Gy to: Mantle, Mini-Mantle, Mediastinal, Chest (thorax), Axilla</p> <p><u>Surveillance:</u> Mammogram, yearly (Beginning 8 years after radiation or at age 25, whichever occurs last)</p>	<p><u>Therapeutic Exposure:</u> ≥ 30 Gy of radiation exposure to any of the following: hepatic, inverted Y, left flank/hemiabdomen, right upper quadrant, spleen (entire or partial), whole abdomen, bladder, femoral, iliac, inguinal, pelvic, prostate, vaginal, spine (any or all: lumbar, sacral, thoracic, whole), STLI, extended mantle, TBI, TLI.</p>	<p><u>Therapeutic Exposure:</u> Cumulative exposure of all anthracycline chemotherapy received (i.e., doxorubicin, daunorubicin, mitoxantrone and epirubicin)</p> <p><u>Surveillance:</u> Echocardiogram (or comparable imaging to evaluate cardiac function)</p> <table border="1"> <thead> <tr> <th>Anthracycline Dose</th> <th>Radiation Dose</th> <th>Recommended Frequency</th> </tr> </thead> <tbody> <tr> <td rowspan="3">None</td> <td>< 15 Gy or none</td> <td>No surveillance</td> </tr> <tr> <td>≥ 15 - < 35 Gy</td> <td>Every 5 years</td> </tr> <tr> <td>≥ 35 Gy</td> <td>Every 2 years</td> </tr> <tr> <td rowspan="2">< 250 mg/m²</td> <td>< 15 Gy or none</td> <td>Every 5 years</td> </tr> <tr> <td>≥ 15 Gy</td> <td>Every 2 years</td> </tr> <tr> <td>≥ 250 mg/m²</td> <td>Any or none</td> <td>Every 2 years</td> </tr> </tbody> </table>	Anthracycline Dose	Radiation Dose	Recommended Frequency	None	< 15 Gy or none	No surveillance	≥ 15 - < 35 Gy	Every 5 years	≥ 35 Gy	Every 2 years	< 250 mg/m ²	< 15 Gy or none	Every 5 years	≥ 15 Gy	Every 2 years	≥ 250 mg/m ²	Any or none	Every 2 years
Anthracycline Dose	Radiation Dose	Recommended Frequency																			
None	< 15 Gy or none	No surveillance																			
	≥ 15 - < 35 Gy	Every 5 years																			
	≥ 35 Gy	Every 2 years																			
< 250 mg/m ²	< 15 Gy or none	Every 5 years																			
	≥ 15 Gy	Every 2 years																			
≥ 250 mg/m ²	Any or none	Every 2 years																			
V3	<p><u>Therapeutic Exposure:</u> ≥ 20 Gy to: Chest (thorax), Whole lung Mediastinal, Axilla, Mini-Mantle, Mantle Extended Mantle, TLI, STLI, TBI* <u>Surveillance:</u> Mammogram and Breast MRI, Yearly, beginning 8 years after radiation or at age 25, whichever occurs last.</p>	<p><u>Surveillance:</u> <i>Colonoscopy</i> – Performed every 5 years (minimum), beginning at age 35 or 10-years after radiation, whichever occurs last. More frequently if indicated on colonoscopy results</p>																			
V4	<p><u>Therapeutic Exposure:</u> ≥ 10 Gy of radiation exposure to any of the following: subtotal</p>																				

	<p>lymphoid irradiation (STLI), axilla, chest (thorax), extended mantle, mantle, mediastinal, mini-mantle, whole lung, total body irradiation (TBI), total lymphoid irradiation (TLI)</p> <p><u>Surveillance:</u> Mammogram and Breast MRI, Yearly, beginning 8 years after radiation or at age 25, whichever occurs last.</p>		
V5	<p><u>Therapeutic Exposure:</u> Any level of radiation exposure to the chest, axilla or TBI</p> <p><u>Surveillance:</u> <i>Mammography</i> - Yearly, beginning at age 25 or 6 years post-radiation, whichever occurs last</p> <p><i>Breast MRI</i> – Yearly, as an adjunct to mammography beginning at age 25 or 8-years post-radiation, whichever occurs last.</p>	<p><u>Therapeutic Exposure:</u> Any level of radiation exposure to the abdomen, pelvis, spine (lumbar, sacral, whole), TBI</p> <p><u>Surveillance:</u> <i>Multitarget stool DNA test</i> – performed every 3 years, beginning at age 30 or 5-years following radiation, whichever occurs last. Positive result should be followed up with a timely colonoscopy.</p> <p><i>Colonoscopy</i> – Performed every 5 years, beginning at age 30 or 5-years after radiation, whichever occurs last</p>	