

**Supplement Table 1 Primary diagnoses which are associated with treatment with high dose radiation exposure or ordering CT scan which indicated subsequent cancer.**

Cancer Type	Diagnosis
THYROID CANCER	<ul style="list-style-type: none"> <li>• Simple and unspecified goiter</li> <li>• Nontoxic nodular goiter</li> <li>• Thyrotoxicosis with or without goiter</li> <li>• Congenital hypothyroidism</li> <li>• Acquired hypothyroidism</li> <li>• Thyroiditis</li> </ul>
LEUKEMIA	<ul style="list-style-type: none"> <li>• Lymphosarcoma and reticulosarcoma and other specified malignant tumors of lymphatic tissue</li> <li>• Hodgkin's disease</li> <li>• Other malignant neoplasms of lymphoid and histiocytic tissue</li> <li>• Multiple myeloma and immunoproliferative neoplasms</li> <li>• Malignant neoplasm of major salivary glands</li> <li>• Malignant neoplasm of connective and other soft tissue</li> </ul>
NON HODGKIN'S LYMPHOMA	<ul style="list-style-type: none"> <li>• Lymphosarcoma and reticulosarcoma and other specified malignant tumors of lymphatic tissue</li> <li>• Other malignant neoplasms of lymphoid and histiocytic tissue</li> </ul>

**Supplement Table 2 Age distribution of cancer cases and matched controls**

Age groups		Thyroid		Leukemia		NHL	
		Controls	Cases	Controls	Cases	Controls	Cases
<=35	n	34971	3463	11738	1180	11672	1156
	%	90.99	9.01	90.87	9.13	90.99	9.01
35<age<=45	n	54298	5435	15133	1518	18913	1887
	%	90.9	9.1	90.88	9.12	90.93	9.07
>45	n	139261	13955	103529	10342	170976	17114
	%	90.89	9.11	90.92	9.08	90.9	9.1
Total		228530	22853	130400	13040	201561	20157

**NHL: non hodgkin's lymphoma**