S3 Table. Type of SMNs according to the primary tumor types

Primary tumor type	Sub-classification (No. of patients with SMN/No. of patients)	Type of secondary malignant neoplasm
Brain tumor	Embroynal tumor (9/127) ^{a)}	2 Colorectal carcinoma
		2 Thyroid carcinoma (1 follicular and 1 papillary)
		1 Osteosarcoma
		1 Desmoid tumor
		1 Renal cell carcinoma
		1 Malignant menigioma
		1 Ovarian carcinoma
		1 Glioblastoma multiforme
	IC-GCT (3/126)	1 MDS
		1 NRSTS
		1 Malignant menigioma
	Glioma/other (1/160)	1 Acute biphynotypic leukemia
Neuroblastoma	TBI-based HDCT (12/100) ^{b)}	3 Papillary thyroid carcinoma
		3 Osteosarcoma
		2 Renal cell carcinoma
		2 NRSTS
		1 Colorectal carcinoma
		1 Urothelial carcinoma
		1 AML
	non-TBI-based HDCT (8/128)	4 Hematologic malignancy (2 MDS, 1 AML, 1 ALL)
		1 Colorectal carcinoma
		1 Glioblastoma multiforme
		1 Papillary thyroid carcinoma
		1 Inflammatory myofibroblastic tumor
	No HDCT (5/175)	2 Papillary thyroid carcinoma
		2 Colorectal carcinoma
		1 Renal cell carcinoma
Sarcoma	Ewing/PNET (5/51)	2 Hematologic malignancy (1 AML, 1 MDS)
	-	1 Papillary thyroid carcinoma
		1 Osteosarcoma
		1 Breast carcinoma

Osteosarcoma (4/63) ^{c)}	3 AML 1 NRSTS
	1 Tongue squamous cell carcinoma
Rhabdomyosarcoma (4/67)	3 hematologic malignancy (1 AML, 1 MDS, 1 LCH)
	1 Gastric carcinoma
NRSTS (2/41)	1 MDS
	1 Paraganglioma

ALL, acute lymphoblastic leukemia; AML, acute myeloid leukemia; HDCT, high-dose chemotherapy; IC-GCT, intracranial germ cell tumor; LCH, Langerhans cell histiocytosis; MDS, myelodysplastic syndrome; NRSTS, non-rhabdomyosarcoma soft tissue sarcoma; PNET, primitive neuroectodermal tumor; SMN, secondary malignant neoplasm; TBI, total body irradiation. ^{a)}A patient who had a pathogenic variant of APC gene sequentially developed colorectal cancer and desmoid tumor, ^{b)}One neuroblastoma patient who received TBI developed thyroid carcinoma and osteosarcoma sequentially, ^{c)}One osteosarcoma patient developed tongue squmous cell cacinoma and AML sequentially.