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

| Primary tumor type | Sub-classification <br> (No. of patients with SMN/No. of patients) | Type of secondary malignant neoplasm |
| :--- | :--- | :--- |
| Brain tumor | Embroynal tumor $(9 / 127)^{\text {a }}$ | 2 Colorectal carcinoma |
|  |  | 2 Thyroid carcinoma (1 follicular and 1 papillary) |
|  |  | 1 Osteosarcoma |
| 1 | 1 Desmoid tumor |  |
|  |  | 1 Renal cell carcinoma |
|  |  | 1 Malignant menigioma |
|  | 1 Ovarian carcinoma |  |
|  | 1 Glioblastoma multiforme |  |


| Osteosarcoma (4/63) ${ }^{\text {c) }}$ | 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. ${ }^{\text {a }}$ A patient who had a pathogenic variant of APC gene sequentially developed colorectal cancer and desmoid tumor, ${ }^{\text {b) }}$ One neuroblastoma patient who received TBI developed thyroid carcinoma and osteosarcoma sequentially, ${ }^{\text {c) }}$ One osteosarcoma patient developed tongue squmous cell cacinoma and AML sequentially.

