**Supplemental Digital Content 1.**  Search strategy for MEDLINE/PubMed

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| Search terms | |
| Radiotherapy | radiometry OR radiometr\* OR radiation dosage OR radiation dosage\* OR radiation dose OR radiation doses OR radiation dosis OR radiation dosimetry OR radiation dosimetr\* OR radiotherapy dosage OR radiotherapy[sh] OR irradiation dose OR radiotherapy dose OR dose calculation OR near beam dose OR in beam dose OR outside beam dose OR out of beam dose OR radiation/epidemiology OR Radiation monitoring OR Organs at risk OR radiation effects[sh] OR radiation injury OR radiation injuries OR radiation OR radiation\* OR radiations OR Radiotherapy OR NCTP OR normal tissue complication probability OR DVH OR Dose Volume Histogram OR Radiotherapy Planning OR Conformal/adverse effects OR Dose Response Relationship, radiation OR Radiation Injuries/Prevention and Control OR Chemoradiotherapy/Adverse Effects OR radiation therapy OR irradiation OR irradiat\* OR radiation syndrome OR radiation syndromes OR syndrome radiation OR radiation sickness OR radiation sicknesses OR sickness radiation |
| Cancer | cancer OR cancers OR cancer\* OR oncology OR oncolog\* OR neoplasm OR neoplasms OR neoplasm\* OR carcinoma OR carcinom\* OR tumor OR tumour OR tumor\* OR tumour\* OR tumors OR tumours OR malignan\* OR malignant OR hematooncological OR hemato oncological OR hemato-oncological OR hematologic neoplasms OR hematolo\* |
| Children | infan\* OR newborn\* OR new-born\* OR perinat\* OR neonat\* OR baby OR baby\* OR babies OR toddler\* OR minors OR minors\* OR boy OR boys OR boyfriend OR boyhood OR girl\* OR kid OR kids OR child OR child\* OR children\* OR schoolchild\* OR schoolchild OR school child[tiab] OR school child\*[tiab] OR adolescen\* OR juvenil\* OR youth\* OR teen\* OR under\*age\* OR pubescen\* OR pediatrics[mh] OR pediatric\* OR paediatric\* OR peadiatric\* OR school[tiab] OR school\*[tiab] OR prematur\* OR preterm\* |
| Late (side) effects | "late effect" OR "late effects" OR "late effect\*" OR "late side effect" OR "late side effects" OR "late side effect\*" OR "late adverse effect" OR "late adverse effects" OR "late adverse effect\*" |
| Toxicity | toxicit\* |
| Combination | radiotherapy AND cancer AND children AND (late (side) effects OR toxicity) |
| Filters | Human  Publication date 1-1-2000 up to 16-4-2019 |