**Introductory Papers**

**Prologue: lays out the project, ground rules for lit search, how to navigate the book**

1. Introduction to scientific issues

2. Summary of Peds NTCP data and models (Peds QUANTEC in the clinic)

3. Biodevelopmental considerations in Pediatrics

4. Peds physics aspects

5. Epidemiologic considerations

6. Improving NTCP for peds, and modeling in peds

7. Contrast Peds vs. Adult QUANTEC --differences and similarities

**Organ System Papers:** (sections for each organ chapter in supplemental document)

\* Central Nervous System Effects/Brain Stem

\* Spinal Cord

\* Cerebrovascular

\* Endocrine Complications of Cancer Therapy

\* Ocular Complications due to Cancer Treatment

\* Head and Neck

\* Adverse Effects of Cancer Treatment on Hearing

\* The Thyroid Gland

\* Cardiovascular Effects of Cancer Therapy

\* Pulmonary Effects of Antineoplastic Therapy

\* Late Gastrointestinal and Hepatic Effects

\* The Female Reproductive System: Ovary, Uterus

\* Breast (hypoplasia, SMNs)

\* The Male Reproductive System: Testes

\* Genitourinary: Bladder/Kidney

\* Musculoskeletal, Integument

\* Stem Cell Transplant, Total Body Irradiation

\* Second Malignancies Following Treatment for Childhood Cancer

* Radiobiological principles of second malignancies (including what we understand about general dose-response principles)
* Genetic Predispositions (i.e. NF)
* Radiation induced hematologic malignancies

**Visionary Papers**

1. Accurate accumulation of dose & dose out of field, imaging, follow-up, etc.

2. Biomarkers and surrogate endpoints

3. Pediatric imaging issues

4. Secondary malignancy as impacted by evolution of technology

5. Recommendations for reporting and gathering data, recommendations to cooperative groups

6. Future directions