



Dose Volume Histograms for each region of interest for fast query. DVH stored for both treatment summary and individual treatment sessions

*Regions of interest* as run-length encoded masks associated with each *Patient Representation*. Shape and shape relationship descriptors for fast query of patient shape similarities.

Dose distributions for each *radiotherapy session*. Each *radiotherapy session* is associated with a single patient representation and can be 1 to many fractions that have the same dose distribution. The transformation table stores the transformation between multiple patient representations enabling dose accumulation from multiple sessions.

*Private Health Information* in a single table to facilitate anonymization. All dates relative to a reference date in this table.

*Tumor* staging and relevant *image features* such as size and RECIST. *Pathology Features* to describe cellular structure

Figure 1: The Oncospace database schema showing the relationships between the various data tables in the system.