The Oncospace Consortium aims to:
• Develop tools and data representations to standardize RT data collection and analysis across institutions
• Combine data for greater statistical accuracy in research and higher quality treatment planning solutions
• Improve RT practice through cooperative research – propose and answer common clinical questions with shared data

Materials/Methods

Oncospace

The Consortium is built on individual instances of Oncospace at participating institutions. The system consists of:
• Onco_DB: A database designed for the storage and retrieval of RT planning metadata, spatial relationships for anatomical structures of interest, patient medical, social, and family history, and assessments of treatment outcomes.
• Oncospace website: A set of analysis tools which display information such as DVH-OVH or DVH-Toxicity relationships, data inventory or trends in treatment outcomes.
• Oncolink: Tools for import of planning data, in Pinnacle or DICOM format, and assessment data.

Purpose/Objectives

• Four consortium members have installed a local instance of the Oncospace system (Figure 1).
• Created a Consortium SVN repository, used to deliver system. Members have full commit privileges. Development on branches and code review before merge to trunk.
• Members have imported hundreds of treatment plans (DVHs and spatial relationships) via Oncolink, and thousands of outcome assessments.
• Monthly teleconferences to discuss potential research opportunities and data collection priorities.

Results

Conclusions

Radiation Therapy data that can be used for research, treatment, and quality purposes can and has been collected and shared using the Oncospace Consortium model.

Acknowledgements

Work supported by the Elekta and Toshiba Corporations.