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| Query/Retrieve in Radiation Oncology | | | |
| Date Created: | 2013-10-29 | Last Revised: | 2013-10-29 |
| Profile Completion Date: | 2014-10 | Profile Implementation Date: | 2015 |
| Author(s): | Christof Schadt, Walter Bosch, Bill Bennett | | |
| Description: | | | |
| This profile facilitates seamless retrieval of data required at various stages in a radiotherapy planning/delivery process. | | | |
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| **Rationale for Profile Creation:** | | | |
| The amount of data available throughout a work-flow in radiation oncology has over the years. One reason is the constantly increasing capability of imaging modalities of creating image information with smaller slice thicknesses, resulting in a higher number of slices. Another reason is the increasing number and variety of image and their use in radiotherapy. With an increasing complexity of referenced information there is a need to easily resolve and retrieve specific data. This profile removes the requirement to push all available data to all anticipated systems and allows the implementation of an efficient, centralized data management where related data can be retrieved on demand. | | | |
| Clinical Impact: | | | |
| This profile will ease work in a clinical environment by facilitating retrieval of data from a variety of sources at physically separated locations for any step in the radiotherapy treatment/delivery workflow. It will increase portability of data, e.g. for review, and may be used to increase the speed of transfer.  Use Cases include:   * A physician with a review station at his/her desk can interactively select and obtain images and related data for plan or treatment review without relying on data being pushed this review station. * A dosimetrist can initiate transfer of secondary images to be registered with the patient’s CT Simulation for contouring. * A physicist can retrieve a dose of prior plan from another treatment planning system to be compared or accumulated with a current treatment plan   Note that this profile does not solve issues related to available network bandwidth or restrictions due to network security. | | | |