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### Building tools for image-guided adaptive radiotherapy of bladder cancer

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## List of publications

**Chai X**, van Herk M, van de Kamer JB, Remeijer P, Bex A, Betgen A, de Reijke TM, Hulshof MCCM, Pos FJ, Bel A, Behavior of Lipiodol markers during image guided radiotherapy of bladder cancer. *Int. J. Radiation Oncology Biol. Phys.* 77 (1), 309-314, (2010).

**Chai X**, van Herk M, van de Kamer JB, Hulshof MCCM, Remeijer P, Lotz T. H, and Bel A, Finite element based bladder modeling for image-guided radiotherapy of bladder cancer. *Medical Physics*, 38, 142-150, (2011).

**Chai X**, van Herk M, Hulshof MCCM and Bel A, A voxel-based finite element model for the prediction of bladder deformation. *Medical Physics*, 39, 55, 56-65, (2012)

**Chai X**, van Herk M, Betgen A, Hulshof MCCM and Bel A, Automatic bladder segmentation on CBCT for online ART of bladder cancer using a patient-specific bladder model. *Physics in Medicine and Biology*. (2012) (in press).

**Chai X**, van Herk M, Betgen A, Hulshof MCCM and Bel A, Semiautomatic bladder segmentation on CBCT for online ART of bladder cancer using population based bladder model. *Physics in Medicine and Biology*. (resubmitted).