

Title: Lu-177 patients CT images and contours dataset for medical image segmentation

Introduction: Internally administered targeted radionuclide therapy (TRT) with radio-labelled targeting molecules that deliver cytotoxic radiation to tumor has been used successfully to treat multiple cancers. Lu-177, used increasingly in TRT, emits both beta particles that deliver the therapeutic effect. FDA recently approved a fixed activity (4 cycles of 7.4 GBq/cycle as in NETTER -1) administered every 8 weeks. With the patient studies under this treatment, we collected CT images and corresponding volume of interest (organs, lesions) contours.

Methods: CT images were acquired with Siemens Intevo SPECT/CT system and tumor/organ boundaries have been manually labeled on CT by a radiologist for Lu-177 patients in our clinics. All patient private information is anonymized using commercial software.

Creator: Hongki Lim, Yuni K. Dewaraja

Contact Information: hongki@umich.edu, yuni@med.umich.edu

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