

An in-silico comparison of Clinical Target Volume and Clinical Target Distribution for skull base chordoma

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Clinical target volume (CTV) is traditionally defined in radiotherapy, but has several limitations (especially binary concept, variability and uncertainty). Recently was introduced a new continuous probabilistic concept - Clinical Target Distribution (CTD), which should help to eliminate the above limitations. In this paper, we implemented CTD in treatment planning system for proton therapy and compared CTV and CTD in the cases of skull base chordomas. Using new concept we received prescription dose in tumor, satisfied maximal dose constraints for the OAR and got some advantages in dose distribution.

Primary author: ДИМА, Светлана

Co-authors: Mrs PITINA, Viktoria (Lobachevsky State University of Nizhny Novgorod); DIMA, Maria (JINR - DLNP)

Presenter: ДИМА, Светлана

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