

Approach the National Quality Audit System for Radiotherapy in Latvia

Sandija Plaude¹, Sergey Popov¹, Yuri Dekhtyar²

¹ Latvian Oncology Centre of Riga Eastern Clinical University Hospital, Riga, Latvia

² Riga Technical University, Riga, Latvia

Necessity of the National Quality Audit in Latvia (I)

- Increasingly widespread use of Conformal Radiotherapy (RT) techniques;
- In the near future Conformal RT will be available in all clinics in Latvia;
- To ensure accurate conformal RT delivery (regular Quality checks at all steps of the IMRT or Conformal RT);

Necessity of the National Quality Audit in Latvia (II)

- To develop unified Quality Control measurements and evaluation of the results;
- To develop joint training program as well as to organize exchange of experience;
- To ensure unified documentation around the country.

Patient related procedures

- Target and tissue delineation;
- Treatment plan evaluation;
- Positioning of the patient;
- Delivery of the treatment plan;
- Patient related dosimetry and plan verification.

Equipment related procedures

- The Quality checks of linear accelerator, Multileaf Collimator (MLC) system, RT simulator and/or Computer Tomography (CT) scanner (mechanical and geometrical tests);
- Quality control program (tests, frequencies, responsible persons, action levels and actions);
- Acceptance and commissioning procedures;
- Treatment beam dosimetry.