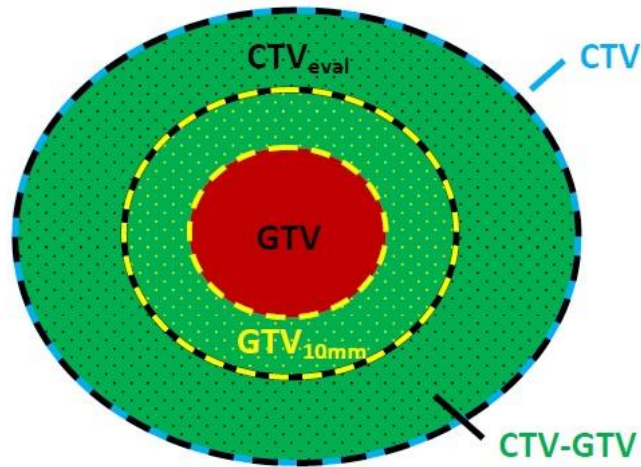




Additional file 1: Illustration of the targets and the auxiliary structures. The boost is defined as the gross tumor volume (GTV; solid red), the volume covering the microscopic tumor extension and elective lymph nodes as clinical target volume (CTV; dashed blue). The green region presents the CTV without the GTV (CTV-GTV). In order to guide the dose fall-off, a ring structure of 10 mm around the GTV was created (GTV_{10mm}, yellow dashed line and region) and a homogeneous dose was allocated to the CTV beyond the GTV_{10mm} [CTV_{eval}, black dashed line and region; CTV – (GTV + GTV_{10mm})].