### Outlining benchmark case 2

**Post-operative chemoradiotherapy for T2 N3 M0 G2 SCC of penis (no pelvic nodal dissection)**

History: Patient with T2 N3 M0 grade 2 squamous cell carcinoma of the penis and bilateral mobile inguinal nodes, as well as radiological evidence of a right external iliac nodal involvement. He underwent a partial penectomy, and subsequently received neoadjuvant chemotherapy in arm B of the InPACT trial. There was evidence of a partial response in the re-staging scans, and bilateral therapeutic inguinal dissections were performed.

Post-operative histology (inguinal lymph node dissection): 2 lymph nodes in the right groin are infiltrated with grade 2 SCC. There was evidence of extracapsular spread in the right groin. There was no histological evidence of disease in the left groin.

Post-operative staging: Appearance is consistent with the presence of residual right external iliac nodal involvement. There were post-operative changes in bilateral groins but no evidence of residual disease, and there was also no evidence of distant metastatic disease.

Adjuvant treatment: Patient received adjuvant chemoradiotherapy to the groin and pelvis. GTV\_P has been pre-outlined which should be used and not edited for the purposes of this exercise.

**Radiotherapy Outlining Exercise:**

Please import patient **InPACT\_Outliningcase2** (both CT scan and structure set) into your TPS. GTV\_P has been pre-outlined – please do not edit this structure. The Body contour has also been pre-outlined to ensure that the structure set has imported correctly when the case is submitted for review by the QA team (Structure set name: **InPACT\_Outliningcase2**):

* GTV\_P 6 slices, 2.2 cm3
* Body 39837.8 slices, 134 cm3

Please outline the following structures according to the InPACT outlining guidelines (Section A):

* CTV\_5700 – if applicable
* CTV\_5400 – if applicable
* CTV\_4500 – if applicable
* Rectum
* Bladder
* BowelBag
* FemoralHeadNeck\_R
* Scrotum