

Review date: 26 July 2025

## **Network radiotherapy treatment protocol for Prostate and Seminal Vesicles**

## **SECTION 1:** Treatment options

## Hormones

Patients receiving **C61-36.25(I)5 SABR** or **C61-62(I)20** should not receive hormones. Otherwise, ADT duration is determined by the disease risk:

- Intermediate risk prostate cancer 6 months
- High risk or locally advanced node negative prostate cancer 2 years
- Node positive prostate cancer 2 years minimum
- Metastatic prostate cancer lifelong hormones

## Radiotherapy

There must be a 3-month delay between surgery and radiotherapy for all patients who have undergone a TURP.

Indications and intent	Regime, technique and RCR
C61-36.25(I)5 SABR, Radical Low and favourable-intermediate risk (NCCN) Low volume grade group 3 cancer acceptable As per PACE B	<ul> <li>36.25 Gy in 5 fractions <u>DAILY/ALTERNATE</u> days over 1-2 weeks</li> <li>SABR</li> <li>V36.25 Gy to PTV at least 95%</li> <li>V40 Gy to CTV at least 95%</li> <li>RCR2 deliver whole course within 21 days</li> </ul>
C61-62(I)20, Radical Low and favourable-intermediate risk (NCCN) not suitable for SABR Low volume grade group 3 cancer acceptable As per Standard Arm PACE B	<ul> <li>62 Gy in 20 fractions <u>DAILY</u> over 4 weeks</li> <li>VMAT</li> <li>Median dose (D50%) of PTVp_62</li> <li>RCR2 five missed fractions</li> </ul>
C61-60(I)20 Radical Any T, node negative disease No PSA limit As per <i>Pivotal boost Arm A</i> – NCCC only As per Pivotal and CHHIP – JCUH only	<ul> <li>60 Gy in 20 fractions <u>DAILY</u> over 4 weeks</li> <li>VMAT</li> <li>Median dose (D50%) of PTVp_60</li> <li><i>RCR2</i> five missed fractions</li> </ul>
C61-60(I)20+N, Radical High risk node negative and node positive disease, no PSA limit As per Pivotal Boost Arm B- or NRG guidance	<ul> <li>60 Gy in 20 fractions <u>DAILY</u> over 4 weeks         <ul> <li>+Elective Nodes: 44-47 Gy</li> <li>+Involved nodes: 50-60 Gy (location dependent)</li> </ul> </li> <li>VMAT</li> <li>Median dose (D50%) of PTVp_60</li> <li>RCR2 five missed fractions</li> </ul>
C61-62(I)20+N Radical High risk node negative and node positive disease. No PSA limit. Dose escalation option for unfavourable local disease in presence of mild LUTS.	<ul> <li>62 Gy in 20 fractions <u>DAILY</u> over 4 weeks         <ul> <li>+Elective Nodes: 44-47 Gy</li> <li>+Involved nodes: 50-60 Gy (location dependent)</li> </ul> </li> <li>VMAT</li> <li>Median dose (D50%) of PTVp_62</li> <li>RCR2 five missed fractions</li> </ul>
C61-62(I)20+H Radical High risk node negative disease. No PSA limit. Dose escalation option for unfavourable local disease in presence of mild LUTS.	<ul> <li>62 Gy in 20 fractions <u>DAILY</u> over 4 weeks</li> <li>VMAT</li> <li>Median dose (D50%) of PTVp_62</li> <li>RCR2 five missed fractions</li> </ul>

C61-60(I)20+IsoMet, Radical As per <i>Pivotal boost Arm A</i> but including an isolated metastasis eg. pubic bone	<ul> <li>60 Gy in 20 fractions <u>DAILY</u> over 4 weeks         <ul> <li>o +IsoMet: 60 Gy</li> </ul> </li> <li>VMAT</li> <li>Median dose (D50%) of PTVp_60</li> <li>RCR2 five missed fractions</li> </ul>
C61-60(I)20+IsoMet+N, Radical As per Pivotal boost Arm A but including isolated metastasis e.g. pubic bone and nodes	<ul> <li>60 Gy in 20 fractions <u>DAILY</u> over 4 weeks         <ul> <li>+IsoMet: 60 Gy</li> <li>+Elective Nodes: 44-47 Gy</li> <li>+Involved nodes: 50-60 Gy (location dependent)</li> </ul> </li> <li>VMAT         <ul> <li>Median dose (D50%) of PTVp_60</li> <li>RCR2 five missed fractions</li> </ul> </li> </ul>
C61-46(I)23+N Radical Phase 2 boost to whole pelvis after HDR brachytherapy at Leeds Teaching Hospital	<ul> <li>46 Gy in 23 fractions <u>DAILY</u> over 4.5 weeks</li> <li>VMAT</li> <li>Median dose (D50%) of PTV</li> <li>RCR2 five missed fractions</li> <li>Commence within 3 weeks</li> </ul>
C61-37.5(I)15 Radical Phase 2 boost to local disease after HDR brachytherapy at Leeds Teaching Hospital	<ul> <li>37.5 Gy in 15 fractions <u>DAILY</u> over 3 weeks</li> <li>VMAT</li> <li>Median dose (D50%) of PTV</li> <li>RCR2 five missed fractions</li> <li>Commence within 3 weeks</li> </ul>
C61-36(I)6, Palliative Palliative/local control of locally advanced or low volume metastatic disease	<ul> <li>36 Gy in 6 fractions <u>WEEKLY</u> over 6 weeks</li> <li>VMAT</li> <li>Median dose (D50%) of PTV_36</li> <li>RCR3 two missed fractions</li> </ul>