

Quality ID #104: Prostate Cancer: Combination Androgen Deprivation Therapy for High Risk or Very High Risk Prostate Cancer

2024 COLLECTION TYPE: **MIPS CLINICAL QUALITY MEASURES (CQMS)**

MEASURE TYPE: Process

DESCRIPTION:
Percentage of patients, regardless of age, with a diagnosis of prostate cancer at high or very high risk of recurrence receiving external beam radiotherapy to the prostate who were prescribed androgen deprivation therapy in combination with external beam radiotherapy to the prostate.

INSTRUCTIONS:
This measure is to be submitted **once per episode** of radiation therapy for all male patients with prostate cancer who receive external beam radiotherapy to the prostate during the performance period. Each episode of radiation therapy in an eligible patient receiving external beam radiotherapy to the prostate occurring during the performance period will be counted when calculating the data completeness and performance rates. The quality data code or equivalent needs to be submitted only once during the episode of radiation therapy (e.g., 8 weeks of therapy). It is anticipated that Merit-based Incentive Payment System (MIPS) eligible clinicians who perform external beam radiotherapy to the prostate will submit this measure.

Measure Submission Type:
Measure data may be submitted by individual MIPS eligible clinicians, groups, or third-party intermediaries. The listed denominator criteria are used to identify the intended patient population. The numerator options included in this specification are used to submit the quality actions as allowed by the measure. The quality data codes listed do not need to be submitted by MIPS eligible clinicians, groups, or third-party intermediaries that utilize this modality for submissions; however, these codes may be submitted for those third-party intermediaries that utilize Medicare Part B claims data. For more information regarding Application Programming Interface (API), please refer to the Quality Payment Program (QPP) website.

DENOMINATOR:
All patients, regardless of age, with a diagnosis of prostate cancer at high or very high risk of recurrence receiving external beam radiotherapy to the prostate

Definitions:

Risk Strata – Very Low, Low, Intermediate, High, or Very High –

Very Low Risk – PSA < 10 ng/mL; AND Gleason score ≤ 6/Gleason grade group 1; AND clinical stage T1c; AND presence of disease in fewer than 3 biopsy cores; AND ≤ 50% prostate cancer involvement in each fragment/core; AND PSA density < 0.15 ng/mL/g.

Low Risk – PSA < 10 ng/mL; AND Gleason score ≤ 6/Gleason grade group 1; AND clinical stage T1 to T2a.

Intermediate Risk – PSA 10 to 20 ng/mL; OR Gleason score 7/Gleason grade group 2-3; OR clinical stage T2b to T2c AND no high-risk group or very-high-risk group features.

High Risk – Has one of the following: PSA > 20 ng/mL; OR Gleason score 8 to 10/Gleason grade group 4-5; OR clinically localized stage T3a, without any very-high-risk group features.

Very High Risk – At least one of the following: Clinical stage T3b to T4; OR primary Gleason pattern 5; OR more than 4 cores with Gleason score 8 to 10/Gleason grade group 4-5 OR 2-3 high-risk features. (NCCN, 2022)

External beam radiotherapy – “External beam radiotherapy” refers to 3D conformal radiation therapy (3D- CRT), intensity modulated radiation therapy (IMRT), stereotactic body radiotherapy (SBRT), and proton beam therapy.

Denominator Criteria (Eligible Cases):

Any male patient, regardless of age

AND

Diagnosis for prostate cancer (ICD-10-CM): C61

AND

Patient encounter during the performance period (CPT): 77427, 77435

WITHOUT

Telehealth Modifier (including but not limited to): GQ, GT, 95, POS 02, POS 10

AND

High or very high risk of recurrence of prostate cancer: G8465

AND NOT

DENOMINATOR EXCLUSION:

Diagnosis for metastatic cancer (ICD-10-CM): C77.0, C77.1, C77.2, C77.3, C77.4, C77.5, C77.8, C77.9, C78.00, C78.01, C78.02, C78.1, C78.2, C78.30, C78.39, C78.4, C78.5, C78.6, C78.7, C78.80, C78.89, C79.00, C79.01, C79.02, C79.10, C79.11, C79.19, C79.2, C79.31, C79.32, C79.40, C79.49, C79.51, C79.52, C79.60, C79.61, C79.62, C79.63, C79.70, C79.71, C79.72, C79.81, C79.82, C79.89, C79.9

NUMERATOR:

Patients who were prescribed androgen deprivation therapy in combination with external beam radiotherapy to the prostate

Definition:

Prescribed – Includes patients who are currently receiving medication(s) that follow the treatment plan recommended at an encounter during the performance period, even if the prescription for that medication was ordered prior to the encounter.

NUMERATOR NOTE: Denominator Exception(s) are determined on the date of the denominator eligible encounter.

Numerator Options:

Performance Met:

Androgen deprivation therapy prescribed/administered in combination with external beam radiotherapy to the prostate (**G9894**)

OR

Denominator Exception:

Documentation of medical reason(s) for not prescribing/administering androgen deprivation therapy in combination with external beam radiotherapy to the prostate (e.g., salvage therapy) (**G9895**)

OR

Denominator Exception:

Documentation of patient reason(s) for not prescribing/administering androgen deprivation therapy in combination with external beam radiotherapy to the prostate (**G9896**)

OR

Performance Not Met:

Patients who were not prescribed/administered androgen deprivation therapy in combination with external beam radiotherapy to the prostate, reason not given (**G9897**)

RATIONALE:

The use of androgen deprivation therapy in combination with external beam radiotherapy is a well-established standard of care for high-risk prostate cancer patients. Multiple large studies have shown that men who receive androgen deprivation therapy in combination with external beam radiation therapy can live longer and have a lower risk of recurrence than men who receive radiation therapy alone. In addition, a cost-analysis conducted found that the use of androgen deprivation therapy and external beam radiation therapy is cost-effective and adds quality-adjusted life years for patients (Satish et al., 2006).

Data from several sources indicates that while utilization rates of androgen deprivation therapy and external beam radiation therapy have increased, they still remain suboptimal. One study analyzing the CaPSURE database, a provider-based registry, found that the utilization of androgen deprivation therapy and external beam radiation therapy for high-risk patients has increased to 80% throughout the past two decades, yet utilization rates have plateaued since 2000 (Cooperberg et al., 2008). There is rising concern about undertreatment of high-risk prostate cancer patients (Cooperberg, Broering, Carroll, 2010). This suggests greater outreach and education are needed to improve outcomes in care.

CLINICAL RECOMMENDATION STATEMENTS:

For patients with unfavorable intermediate- or high-risk prostate cancer and estimated life expectancy greater than 10 years, clinicians should offer a choice between radical prostatectomy or radiation therapy plus androgen deprivation therapy (ADT). (Strong Recommendation; Evidence Level: Grade A) (AUA/ASTRO/SUO, 2022)

Men with prostate cancer with no very-high-risk features who have one of the following are categorized by the NCCN Guidelines as high risk: clinical stage T3a, Gleason score 8 to 10/Gleason grade group 4-5, or PSA level greater than 20 ng/mL. Patients with multiple adverse factors may be shifted to the very high-risk category. [See detailed risk strata above]. Patients at very high risk (locally advanced) are defined by the NCCN Guidelines as men with clinical stages T3b to T4, primary Gleason pattern 5, or more than 4 biopsy cores with Gleason score 8 to 10/Gleason grade group 4-5, or having 2-3 high-risk features. EBRT has demonstrated efficacy in patients with high-risk and very-high risk prostate cancer. One study randomized 415 patients to EBRT alone or EBRT plus 3-year ADT. In another study (RTOG 8531), 977 patients with T3 disease treated with EBRT were randomized to adjuvant ADT or ADT at relapse. Two other randomized phase 3 trials evaluated long term ADT with or without radiation in a population of patients who mostly had T3 disease. In all four studies, the combination group showed improved disease-specific survival and OS compared to single-modality treatment. (NCCN, 2022)

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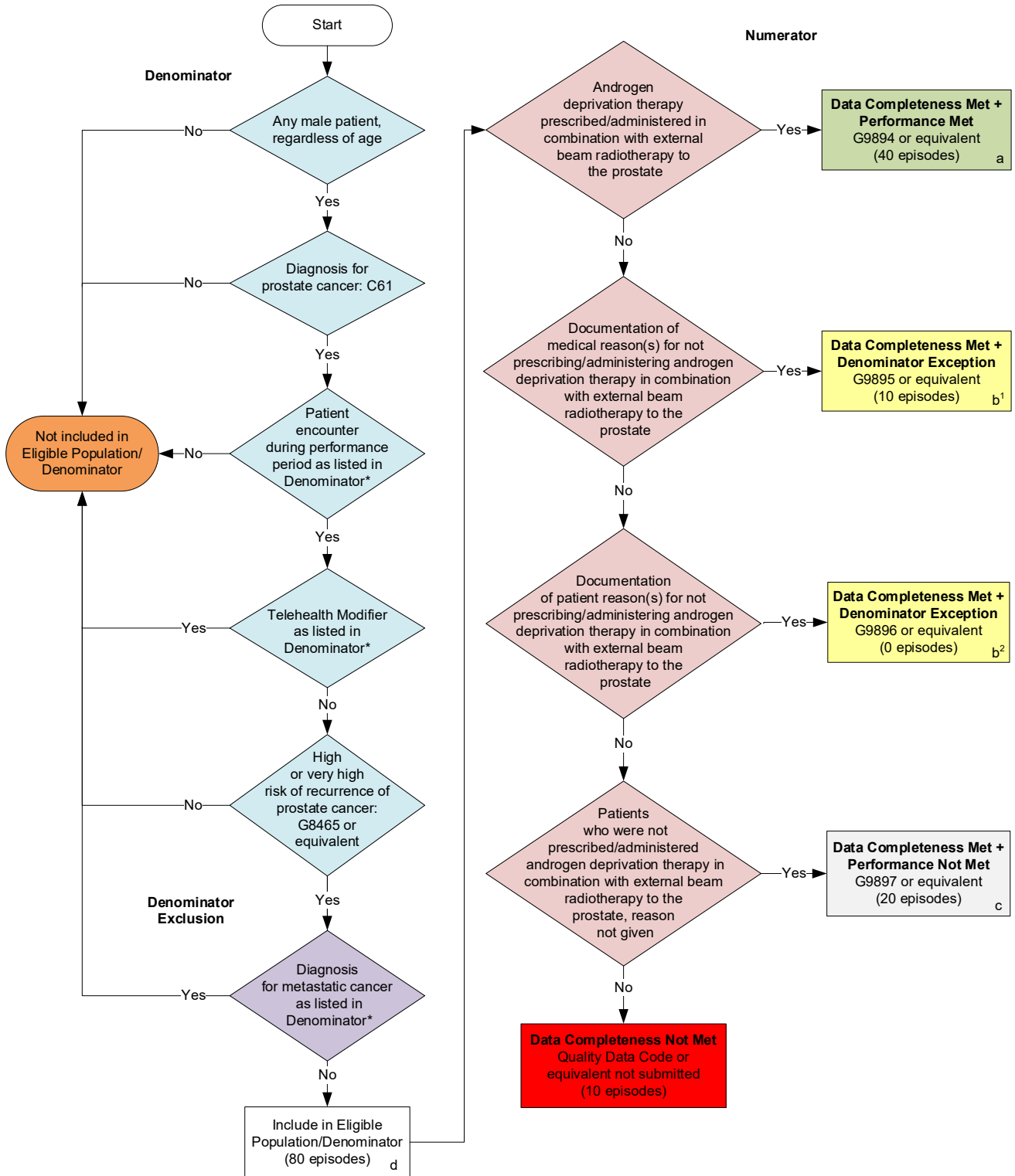
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2024 Clinical Quality Measure Flow for Quality ID #104: Prostate Cancer: Combination Androgen Deprivation Therapy for High Risk or Very High Risk Prostate Cancer

Disclaimer: Refer to the measure specification for specific coding and instructions to submit this measure.



SAMPLE CALCULATIONS

Data Completeness =

$$\frac{\text{Performance Met (a=40 episodes) + Denominator Exception (b}^1\text{+b}^2\text{=10 episodes) + Performance Not Met (c=20 episodes)}}{\text{Eligible Population / Denominator (d=80 episodes)}} = \frac{70 \text{ episodes}}{80 \text{ episodes}} = 87.50\%$$

Performance Rate=

$$\frac{\text{Performance Met (a=40 episodes)}}{\text{Data Completeness Numerator (70 episodes) – Denominator Exception (b}^1\text{+b}^2\text{=10 episodes)}} = \frac{40 \text{ episodes}}{60 \text{ episodes}} = 66.67\%$$

*See the posted measure specification for specific coding and instructions to submit this measure.

NOTE: Submission Frequency: Episode

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The measure diagrams were developed by CMS as a supplemental resource to be used in conjunction with the measure specifications. They should not be used alone or as a substitution for the measure specification

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**2024 Clinical Quality Measure Flow Narrative for Quality ID #104:
Prostate Cancer: Combination Androgen Deprivation Therapy for
High Risk or Very High Risk Prostate Cancer**

Disclaimer: Refer to the measure specification for specific coding and instructions to submit this measure.

1. Start with Denominator
2. Check *Any male patient, regardless of age*:
 - a. If *Any male patient, regardless of age* equals No, do not include in *Eligible Population/Denominator*. Stop processing.
 - b. If *Any male patient, regardless of age* equals Yes, proceed to check *Diagnosis for prostate cancer*.
3. Check *Diagnosis for prostate cancer*:
 - a. If *Diagnosis for prostate cancer* equals No, do not include in *Eligible Population/Denominator*. Stop processing.
 - b. If *Diagnosis for prostate cancer* equals Yes, proceed to check *Patient encounter during the performance period as listed in the Denominator**.
4. Check *Patient encounter during the performance period as listed in the Denominator**:
 - a. If *Patient encounter during the performance period as listed in the Denominator** equals No, do not include in *Eligible Population/Denominator*. Stop processing.
 - b. If *Patient encounter during the performance period as listed in the Denominator** equals Yes, proceed to check *Telehealth Modifier as listed in Denominator**.
5. Check *Telehealth Modifier as listed in Denominator**:
 - a. If *Telehealth Modifier as listed in Denominator** equals Yes, do not include in *Eligible Population/Denominator*. Stop processing.
 - b. If *Telehealth modifier as listed in Denominator** equals No, proceed to check *High or very high risk of recurrence of prostate cancer*.
6. Check *High or very high risk of recurrence of prostate cancer*:
 - a. If *High or very high risk of recurrence of prostate cancer* equals No, do not include in *Eligible Population/Denominator*. Stop processing.
 - b. If *High or very high risk of recurrence of prostate cancer* equals Yes, proceed to check *Diagnosis of metastatic cancer as listed in Denominator**.
7. Check *Diagnosis for metastatic cancer as listed in Denominator**:
 - a. If *Diagnosis for metastatic cancer as listed in Denominator** equals Yes, do not include in *Eligible Population/Denominator*. Stop processing.
 - b. If *Diagnosis for metastatic cancer as listed in Denominator** equals No, include in the *Eligible Population/Denominator*.

8. Denominator Population:
 - Denominator Population is all Eligible Patients in the Denominator. Denominator is represented as Denominator in the Sample Calculation listed at the end of this document. Letter d equals 80 episodes in the Sample Calculation.
9. Start Numerator
10. Check *Androgen deprivation therapy prescribed/administered in combination with external beam radiotherapy to the prostate*:
 - a. If *Androgen deprivation therapy prescribed/administered in combination with external beam radiotherapy to the prostate* equals Yes, include in *Data Completeness Met and Performance Met*.
 - *Data Completeness Met and Performance Met* letter is represented in the Data Completeness and Performance Rate in the Sample Calculation listed at the end of this document. Letter a equals 40 episodes in the Sample Calculation.
 - b. If *Androgen deprivation therapy prescribed/administered in combination with external beam radiotherapy to the prostate* equals No, proceed to check *Documentation of medical reason(s) for not prescribing/administering androgen deprivation therapy in combination with external beam radiotherapy to the prostate*.
11. Check *Documentation of medical reason(s) for not prescribing/administering androgen deprivation therapy in combination with external beam radiotherapy to the prostate*.
 - a. If *Documentation of medical reason(s) for not prescribing/administering androgen deprivation therapy in combination with external beam radiotherapy to the prostate* equals Yes, include in *Data Completeness Met and Denominator Exception*.
 - *Data Completeness Met and Denominator Exception* is represented in the Data Completeness and Performance Rate in the Sample Calculation listed at the end of this document. Letter b¹ equals 10 episodes in the Sample Calculation.
 - b. If *Documentation of medical reason(s) for not prescribing/administering androgen deprivation therapy in combination with external beam radiotherapy to the prostate* equals No, proceed to check *Documentation of patient reason(s) for not prescribing/administering androgen deprivation therapy in combination with external beam radiotherapy to the prostate*.
12. Check *Documentation of patient reason(s) for not prescribing/administering androgen deprivation therapy in combination with external beam radiotherapy to the prostate*:
 - a. If *Documentation of patient reason(s) for not prescribing/administering androgen deprivation therapy in combination with external beam radiotherapy to the prostate* equals Yes, include in the *Data Completeness Met and Denominator Exception*.
 - *Data Completeness Met and Denominator Exception* letter is represented in the Data Completeness and Performance Rate in the Sample Calculation listed at the end of this document. Letter b² equals 0 episodes in the Sample Calculation.
 - b. If *Documentation of patient reason(s) for not prescribing/administering androgen deprivation therapy in combination with external beam radiotherapy to the prostate* equals No, proceed to check *Patients who were not prescribed/administered androgen deprivation therapy in combination with external beam radiotherapy to the prostate, reason not given*.

13. Check *Patients who were not prescribed/administered androgen deprivation therapy in combination with external beam radiotherapy to the prostate, reason not given*:

a. If *Patients who were not prescribed/administered androgen deprivation therapy in combination with external beam radiotherapy to the prostate, reason not given* equals Yes, include in the *Data Completeness Met and Performance Not Met*.

- *Data Completeness Met and Performance Not Met* letter is represented in the Data Completeness in the Sample Calculation listed at the end of this document. Letter c equals 20 episodes in the Sample Calculation.

b. If *Patients who were not prescribed/administered androgen deprivation therapy in combination with external beam radiotherapy to the prostate, reason not given* equals No, proceed to check *Data Completeness Not Met*.

14. Check *Data Completeness Not Met*:

- If *Data Completeness Not Met*, the Quality Data Code or equivalent was not submitted. 10 episodes have been subtracted from the Data Completeness Numerator in the Sample Calculation.

Sample Calculations

Data Completeness equals Performance Met (a equals 40 episodes) plus Denominator Exception (b¹ plus b² equals 10 episodes) plus Performance Not Met (c equals 20 episodes) divided by Eligible Population / Denominator (d equals 80 episodes). All equals 70 episodes divided by 80 episodes. All equals 87.50 percent.

Performance Rate equals Performance Met (a equals 40 episodes) divided by Data Completeness Numerator (70 episodes) minus Denominator Exception (b¹ plus b² equals 10 episodes). All equals 40 episodes divided by 60 episodes. All equals 66.67 percent.

*See the posted measure specification for specific coding and instructions to submit this measure.

NOTE: Submission Frequency: Episode

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