Cancer Research Consortium of West Michigan P: 616.391.1230 | 800.336.6299 | www.crcwm.org

# FAST FACTS

### **NRG-GU009**: PARALLEL PHASE III RANDOMIZED TRIALS FOR HIGH RISK PROSTATE CANCER EVALUATING DE-INTENSIFICATION FOR LOWER GENOMIC RISK AND INTENSIFICATION OF CONCURRENT THERAPY FOR HIGHER GENOMIC RISK WITH RADIATION (PREDICT-RT\*)

#### Prior to Step 1 Registration Eligibility Criteria

- 1. Pathologically proven diagnosis of adenocarcinoma of prostate cancer within 180 days prior to registration.
- 2. High-risk disease defined as having at least one or more of the following:
  - PSA>20 ng/mL prior to starting ADT Note: Patients receiving a 5-alpha reductase inhibitor (ex. finasteride) at the time of enrollment are eligible. The baseline PSA valueshould be doubled for PSAs taken while on 5-alpha reductase inhibitors and the medication should be discontinued prior to randomization but a washout period is not required.
  - cT3a-T4 by digital exam or imaging (AJCC 8th Ed.)
  - Gleason Score of 8-10
  - Node positive by conventional imaging with a short axis of at least 1.0 cm
- 3. Appropriate stage for study entry based on the following diagnostic workup:
  - History/physical examination within 120 days prior to registration
  - Bone imaging within 120 days prior to registration
     Note: To be eligible, patient must have no definitive evidence of bone metastases (M0)
     on bone scan or NaF PET within 120 days prior to registration (Negative Na F PET/CT or
     Negative Axumin or Choline PET or Negative fluciclovine, choline or PSMA PET within
     120 days prior to registration is an acceptable substitute if they have been performed).
     Patients who have bone metastases established only fluciclovine, choline, or PSMA PET
     but not definitive on bone scan or NaF PET will still be eligible.
  - CT or MRI of the pelvis within 120 days prior to registration (Negative fluciclovine, choline, or PSMA PET within 120 days prior to registration is an acceptable substitute). As with bone staging, nodal staging for trial purposes will be based off of conventional imaging findings only.
  - Patients with confirmed N1 metastases on conventional imaging (CT/MRI) as defined by >10mm on short axis are eligible but will be automatically assigned to the intensification study. Patients who are positive by fluciclovine, choline, or PSMA PET (i.e. N1),but whose nodes do not meet traditional size criteria for positivity(i.e. they measure ≤10mm on either the CT or MRI portion of the PET or on a dedicated CT or MRI)will not be considered N1 for the trial and will not automatically be assigned to the intensification study.
- 4. Age ≥ 18
- 5. ECOG Performance Status of 0-2 within 120 days prior to registration
- 6. Adequate hematologic function within 120 days prior to registration defined as follows:
  - Hemoglobin 2 9.0 g/dL, independent of transfusion and/or growth factors

- Platelet count  $\ge$  100 x 10<sup>3</sup>/µL, independent of transfusion and/or growth factors
- 7. Adequate renal function within 120 days prior to registration defined as follows: Creatinine Clearance (CrCl) ≥30 mL/min estimated by Cockcroft-Gault Equation:

CrCl (mL/min) =  $\frac{[140 - age (years)] \times weight (kg)}{72 \times serum creatinine (mg / dL)}$ 

For Black patients whose renal function is not considered adequate by the formula above, an alternative formula that takes race into account (Chronic Kidney Disease Epidemiology Collaboration CKD-EPI formula) may be used for calculating creatinine clearance for trial eligibility:

 $CrCl = 141 \times min(S_{Cr}/\kappa, 1)^{-0.411} \times max(S_{Cr}/\kappa, 1)^{-1.209} \times 0.993^{Age} \times 1.159$  [if black] where: Scr is serum creatinine in mg/dL,

 $\kappa$  is 0.9 for males, min indicates the minimum of Scr/ $\kappa$  or 1, and max indicates the maximum of Scr/ $\kappa$  or 1

A calculator for this formula is available at: <u>https://www.niddk.nih.gov/health-</u> information/professionals/clinical-tools-patient-management/kidney-disease/laboratoryevaluation/glomerular-filtration-rate-calculators/ckd-epi-adults-conventional-units Fither a CrCl > 20 ml/min or calculated CEP > 20 will make a patient eligible

Either a CrCl  $\ge$  30 ml/min or calculated GFR  $\ge$  30 will make a patient eligible.

- 8. Adequate hepatic function within 120 days prior to registration defined as follows:
  - Total bilirubin ≤ 1.5 x institutional upper limit of normal (ULN) (Note: In subjects with Gilbert's syndrome, if total bilirubin is >1.5 × ULN, measure direct and indirect bilirubin and if direct bilirubin is ≤1.5 × ULN, subject is eligible)
  - AST(SGOT) or ALT(SGPT) ≤ 2.5 × institutional ULN
  - Serum albumin ≥ 3.0 g/dL
- 9. The patient must agree to use a condom (even men with vasectomies) and another effective method of birth control if he is having sex with a woman of childbearing potential or agree to use a condom if he is having sex with a woman who is pregnant while on study drug and for 3 months following the last dose of study drug.
- 10. Human immunodeficiency virus (HIV)-infected patients on effective anti-retroviral therapy with undetectable viral load within 6 months are eligible for this trial and have a CD4 count ≥ 200 cells/microliter within 60 days prior to registration. *Note: HIV testing is not required for eligibility for this protocol.* Of note, for patients with HIV in the intensification trial randomized to apalutamide, HAART may need to be adjusted to medications that do not interact with apalutamide.
- 11. For patients with evidence of chronic hepatitis B virus (HBV) infection, the HBV viral load must be undetectable after or on suppressive therapy within 60 days prior to registration, if indicated. *Note: HBV viral testing is not required for eligibility for this protocol.*
- 12. Patients with a prior or concurrent malignancy whose natural history or treatment does not have the potential to interfere with the safety or efficacy assessment of the investigational regimen are eligible for this trial. *Note: Any patient with a cancer (other than keratinocyte carcinoma or carcinoma in situ or low-grade non-muscle invasive bladder cancer) who has been disease-free for less than 3 years must contact the Principal Investigator.*
- 13. The patient or a legally authorized representative must provide study-specific informed consent prior to study entry.

# **Ineligibility Criteria**

- 1. Definitive radiologic evidence of metastatic disease outside of the pelvic nodes (M1a, M1b or M1c) on conventional imaging (i.e. bone scan, CT scan, MRI)
- 2. Prior systemic chemotherapy within ≤3 years prior to registration; note that prior chemotherapy for a different cancer is allowed (completed > 3 years prior to registration)
- 3. Prior radical prostatectomy
- 4. Prior radiotherapy to the region of the study cancer that would result in overlap of radiation therapy fields
- 5. Current use of 5-alpha reductase inhibitor. NOTE: If the alpha reductase inhibitor is stopped prior to randomization the patient is eligible
- 6. History of any of the following:
  - Seizure disorder;
  - Current severe or unstable angina;
  - New York Heart Association Functional Classification III/IV (Note: Patients with known history or current symptoms of cardiac disease, or history of treatment with cardiotoxic agents, should have a clinical risk assessment of cardiac function using the New York Heart Association Functional Classification.)
  - History of any condition that in the opinion of the investigator, would preclude participation in this study
- 7. Evidence of any of the following at registration:
  - Active uncontrolled infection requiring IV antibiotics
  - Baseline severe hepatic impairment (ChildPugh Class B & C)
  - Inability to swallow oral pills
  - Any current condition that in the opinion of the investigator, would preclude participation in this study
- Prior pharmacologic androgen ablation for prostate cancer is allowed only if the onset of androgen ablation (both LHRH agonist and oral anti-androgen) is ≤ 60 days prior to registration; Please note: baseline PSA must be obtained prior to the start of any ADT.

#### Prior to Step 2 Randomization

# **Eligibility Criteria**

- **1.** Confirmation of Decipher score.
- 2. Patients with a history of hepatitis C virus (HCV) infection must have been treated and cured. For patients with HCV infection who are currently on treatment, they are eligible if they have an undetectable HCV viral load within 60 days prior *Note: Apalutamide may interfere with HCV drugs. Patients on HCV medications should alert their infectious diseases physician if they get randomized to apalutamide due to the possibility that apalutamide can affect the bioavailability of some HCV medications. HCV viral testing is not required for eligibility for this protocol*

#### For patients entering the Intensification Cohort ONLY:

**3.** Patients must discontinue or substitute concomitant medications known to lower the seizure threshold at least 30 days prior to Step 2 randomization (see list under prohibited medications in Section 5.3.2).

#### Ineligibility Criteria

Patients with any of the following conditions are NOT eligible for this study.

1. Evidence of known gastrointestinal disorder affecting absorption of oral medications at registration.

### For patients entering the Intensification Cohort ONLY:

3. Presence of uncontrolled hypertension (persistent systolic blood pressure [BP]  $\geq$ 160 mmHg or diastolic BP  $\geq$ 100 mmHg). Subjects with a history of hypertension are allowed, provided that BP is controlled to within these limits by anti-hypertensive treatment.

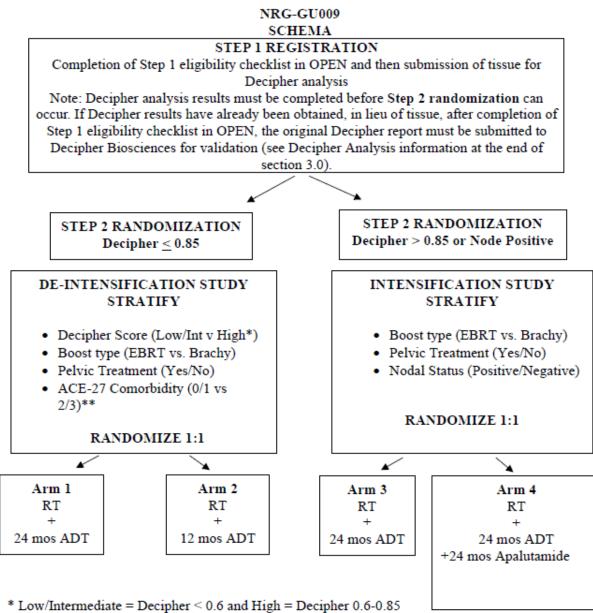
#### Mandatory

#### **Decipher Analysis**

# MUST BE COMPLETED PRIOR TO STEP 2 RANDOMIZATION

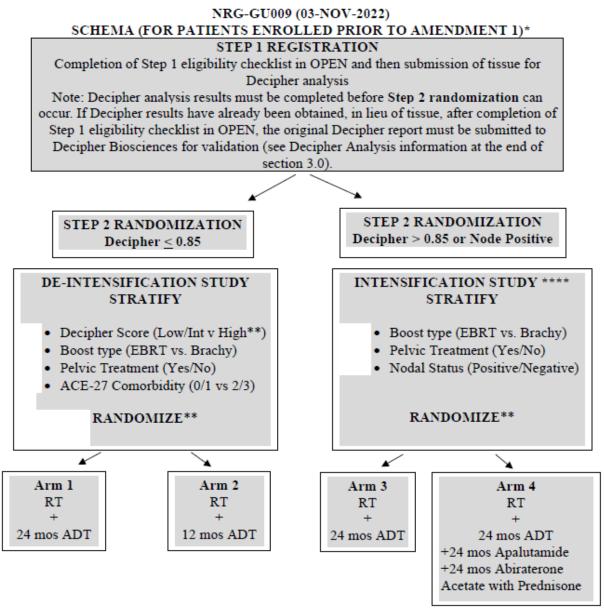
Submission of tumor tissue sample from the prostate biopsy is required for all patients without a prior Decipher score. For patients who have not undergone prior Decipher analysis, submission of the specimen to Decipher Biosciences should be done as soon as possible after Step 1 registration as these results can take up to 21 days after the specimen is received at Decipher Biosciences.

Tissue submission should occur as soon as possible after Step 1 Registration and then Step 2 Randomization must occur within 90 days of Step 1. If Decipher results have already been obtained, in lieu of tissue, results (redacted original report) must be submitted to Decipher Biosciences for validation (see section 10.1.1 for specific instructions). The Decipher results must be obtained prior to proceeding to complete Step 2 randomization as these results are used to stratify the patient. If a Decipher result cannot be obtained then the patient will be ineligible. NOTES: Results will be conveyed to NRG headquarters for patient stratification and randomization within 21 business days after Decipher Biosciences receives sufficient material for analysis. Once results of the Decipher analysis are made known to NRG headquarters, the registering site will be contacted by NRG HQ with an email to proceed to Step 2 randomization. **Do not proceed to Step 2 without this notification.** If the specimen was inadequate for analysis Decipher Biosciences will contact the site directly for more material and if none can be provided then the patient will be deemed ineligible to proceed to protocol therapy. The site will need to complete Step 2 to enter the reason why the patient cannot be randomized.



\*\* http://comogram.org/assets/files/ace-27 ctr ver rtog web.pdf

<u>Note:</u> A radiation treatment approach change post registration involving the pelvic lymph node treatment or prostate boost type stratification factors will result in a protocol deviation. RT = radiation therapy; ADT = androgen deprivation therapy



\* For patients randomized to Arm 4 who choose to remain on abiraterone acetate with prednisone and apalutamide (for patients who choose to switch to apalutamide alone, see the revised trial schema above)

\*\* Low/Intermediate = Decipher < 0.6 and High = Decipher 0.6-0.85 \*\*\*Randomization is 1:1

Note: A radiation treatment approach change post registration involving the pelvic lymph node treatment or prostate boost type stratification factors will result in a protocol deviation. RT = radiation therapy; ADT = androgen deprivation therapy