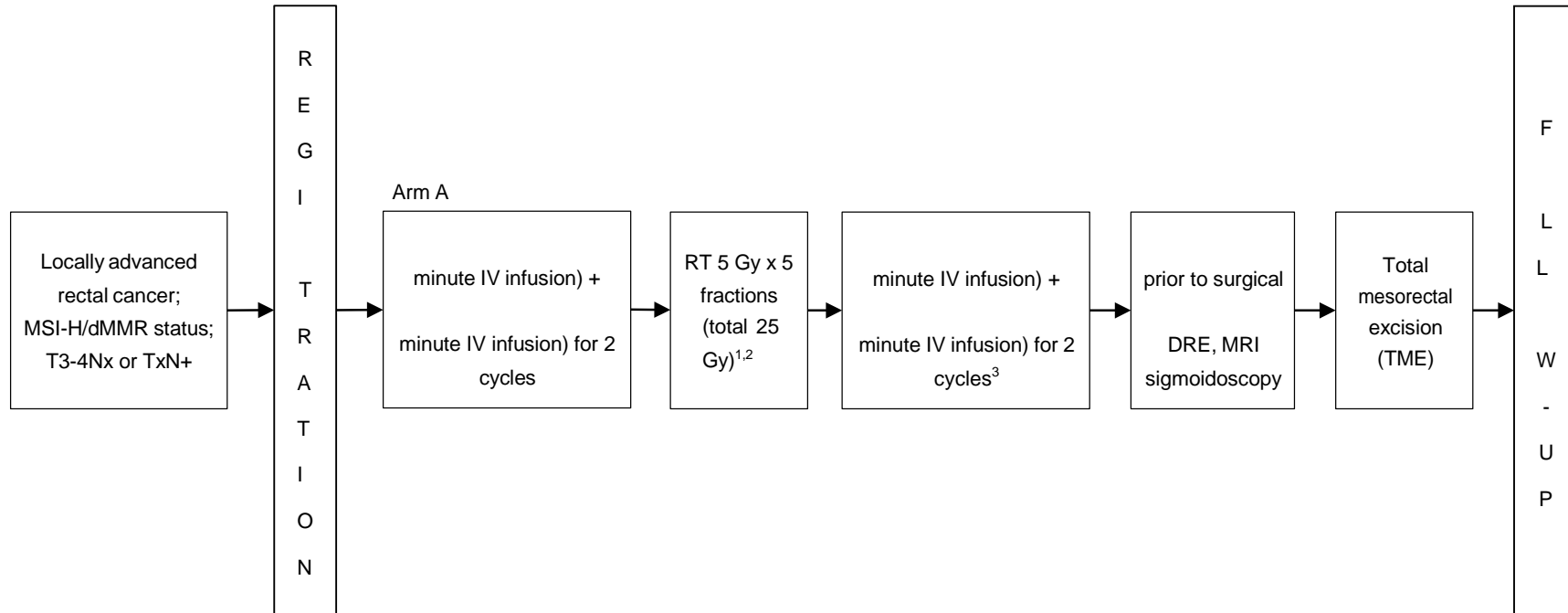


Schema



1 cycle = 28 days

Accrual Goal: 31

1. Please see Section 5.2 for details of radiation therapy.
2. Radiation to start at least 2 weeks but no longer than 6 weeks after completion of cycle 2 of nivolumab/ipilimumab.
3. Cycle 3 of nivolumab/ipilimumab to start within 2-6 weeks of completion of radiation therapy.

3. Selection of Patients

Each of the criteria in the checklist that follows must be met in order for a patient to be considered eligible for this study. Use the checklist to confirm a patient's eligibility. For each patient, this checklist must be photocopied, completed and maintained in the patient's chart.

In calculating days of tests and measurements, the day a test or measurement is done is considered Day 0. Therefore, if a test is done on a Monday, the Monday four weeks later would be considered Day 28.

ECOG-ACRIN Patient No. _____

Patient's Initials (L, F, M) _

Physician Signature and Date _____

NOTE: CTEP Policy does not allow for the issuance of waivers to any protocol specified criteria (http://ctep.cancer.gov/protocolDevelopment/policies_deviations.htm). Therefore, all eligibility criteria listed in Section 3 must be met, without exception. The registration of individuals who do not meet all criteria listed in Section 3 can result in the participant being censored from the analysis of the study, and the citation of a major protocol violation during an audit.

All questions regarding clarification of eligibility criteria must be directed to the Group's Executive Officer (EA.ExecOfficer@jimmy.harvard.edu) or the Group's Regulatory Officer (EA.RegOfficer@jimmy.harvard.edu).

NOTE: Institutions may use the eligibility checklist as source documentation if it has been reviewed, signed, and dated prior to registration by the treating physician.

3.1 Eligibility Criteria

- ____ 3.1.1 Patient must be \geq 18 years of age.
- ____ 3.1.2 Patient must have histologically confirmed adenocarcinoma of the rectum with the inferior margin within 15 cm from the anal verge based on colonoscopy and/or flexible sigmoidoscopy.
- ____ 3.1.3 Patient must have T3-4Nx or TxN+ disease (Stage II or III) based on magnetic resonance imaging of the pelvis and computed tomography of the chest and abdomen. These baseline scans must be done within 28 days prior to registration.
- ____ 3.1.4 Patient must have MSI-H (microsatellite instability-high) or dMMR (deficient mismatch repair) tumors based on immunohistochemistry or PCR (Polymerase Chain Reaction).
- ____ 3.1.5 Patient must have ECOG Performance status 0-2.
- ____ 3.1.6 Patient must not have previously received chemotherapy or immunotherapy for rectal cancer.
- ____ 3.1.7 Patient must not have previously received radiotherapy to the pelvis.
- ____ 3.1.8 Patient must have the ability to understand and the willingness to sign a written informed consent document. Patients with impaired decision-

making capacity (IDMC) who have a legally authorized representative (LAR) or caregiver and/or family member available will also be considered eligible.

- _____ 3.1.9 Patient must not have had major surgery performed within 28 days prior to registration.
- _____ 3.1.10 Patient must not have a history of interstitial lung disease (e.g., pneumonitis or pulmonary fibrosis) or evidence of interstitial lung disease on baseline chest CT scan.
- _____ 3.1.11 Patient must not have a serious active infection requiring IV antibiotics at time of registration.
- _____ 3.1.12 Patient must agree to not receive live vaccines while on this study.
- _____ 3.1.13 Patient must not have active autoimmune disease or history of autoimmune disease that might recur, which may affect vital organ function or require immune suppressive treatment including chronic prolonged systemic corticosteroids (defined as corticosteroid use of duration one month or greater). These include but are not limited to patients with a history of immune related neurologic disease, multiple sclerosis, autoimmune (demyelinating) neuropathy, Guillain-Barre syndrome, myasthenia gravis; systemic autoimmune disease such as SLE, connective tissue diseases, scleroderma, inflammatory bowel disease (IBD), Crohn's, ulcerative colitis, and patients with a history of toxic epidermal necrolysis (TEN), Stevens-Johnson syndrome, or anti-phospholipid syndrome. Patients with any of these are ineligible for this study because of the risk of recurrence or exacerbation of disease.
- _____ 3.1.14 Patient must not have a condition requiring systemic treatment with either corticosteroids (>10 mg daily prednisone equivalents) or other immunosuppressive medications within 14 days prior to registration. Inhaled or topical steroids and adrenal replacement doses <10 mg daily prednisone equivalents are permitted in the absence of active autoimmune disease. Patients are permitted to use topical, ocular, intra-articular, intranasal, and inhalational corticosteroids (with minimal systemic absorption). Physiologic replacement doses of systemic corticosteroids are permitted, even if <10 mg/day prednisone equivalents. A brief course of corticosteroids for prophylaxis (e.g., contrast dye allergy) or for treatment of non-autoimmune conditions (e.g., delayed-type hypersensitivity reaction caused by contact allergen) is permitted.
- _____ 3.1.15 Patient must not be pregnant or breast-feeding due to the potential harm to an unborn fetus and possible risk for adverse events in nursing infants with the treatment regimens being used.

All patients of childbearing potential must have a blood test or urine study within 2 weeks prior to registration to rule out pregnancy. A repeat pregnancy test must be done within 72 hours prior to first dose of treatment if the baseline test was done outside the 72 hour window.

A patient of childbearing potential is defined as anyone, regardless of sexual orientation or whether they have undergone tubal ligation, who

meets the following criteria: 1) has achieved menarche at some point, 2) has not undergone a hysterectomy or bilateral oophorectomy; or 3) has not been naturally postmenopausal (amenorrhea following cancer therapy does not rule out childbearing potential) for at least 24 consecutive months (i.e., has had menses at any time in the preceding 24 consecutive months).

Patient of child bearing potential? _____(Yes or No)

Date of blood test or urine study: _____

_____ 3.1.16 Patients of childbearing potential and sexually active patients must not expect to conceive or father children by using accepted and effective method(s) of contraception or by abstaining from sexual intercourse for at least one month (female patients) or one week (male patients) prior to the start of study drug and continue for 5 months after the last dose of study drug (for female patients). Investigators must counsel patients on the importance of pregnancy prevention and the implications of an unexpected pregnancy.

_____ 3.1.17 Patient must have adequate organ and marrow function as defined below (these labs must be obtained ≤ 14 days prior to protocol registration):

_____ Leukocytes $\geq 3,000/\text{mCL}$

Leukocytes: _____ Date of Test: _____

_____ Absolute neutrophil count (ANC) $\geq 1,500/\text{mCL}$

ANC: _____ Date of Test: _____

_____ Platelets $\geq 100,000/\text{mCL}$

Platelets: _____ Date of Test: _____

_____ Total bilirubin \leq institutional upper limit of normal (ULN)

Total bilirubin: _____ Institutional ULN: _____

Date of Test: _____

_____ AST(SGOT)/ALT(SGPT) $\leq 2.5 \times$ institutional ULN

AST: _____ Institutional ULN: _____

Date of Test: _____

ALT: _____ Institutional ULN: _____

Date of Test: _____

_____ Creatinine $\leq 1.5 \times$ institutional ULN

Creatinine _____ Institutional ULN: _____

Date of Test: _____

_____ 3.1.18 Human immunodeficiency virus (HIV)-infected patients on effective anti-retroviral therapy with undetectable viral load within 6 months of registration are eligible for this trial.

- _____ 3.1.19 For patients with evidence of chronic hepatitis B virus (HBV) infection, the HBV viral load must be undetectable on suppressive therapy, if indicated.
- _____ 3.1.20 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.
- _____ 3.1.21 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.
- _____ 3.1.22 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. To be eligible for this trial, patients should be class 2B or better.

Physician Signature Date

OPTIONAL: This signature line is provided for use by institutions wishing to use the eligibility checklist as source documentation.