NON-METASTATIC MUSCLE-INVASIVE BLADDER CANCER: Treatment Algorithm

**Staging**
- CT abdomen/pelvis with IV contrast
- Chest imaging (X-ray or CT with IV contrast)
- Laboratory evaluation (CMP, CBC)
- Exam under anesthesia

**Alternatives**
- PET scan, if indicated (equivocal staging exams and/or biopsy not feasible)
- Bone scan, if indicated (elevated alkaline phosphatase and/or pain complaints)
- MRI imaging, if indicated (CT contrast imaging cannot be performed)

**DIAGNOSIS: NON-METASTATIC MUSCLE INVASIVE BLADDER CANCER**

**Multidisciplinary Approach**
- Neoadjuvant chemotherapy
- Radical cystectomy
- Bladder preserving options

**Surveillance after Radical Cystectomy**
- pT2 or less or ypT2N0
  - Cmp, CBC, B12
  - CT abdomen/pelvis every 6-12 months for 2-3 years
  - Option for annual upper tract imaging with CT or ultrasound to year 5

- ypsT2N0
  - Labs per T2
  - CT abdomen/pelvis every 3-6 months for 3 years
  - Annual chest imaging

**pT2 or pN+**
- Clinical trial
- Labs per T2
- CT abdomen/pelvis every 3-6 months for 1-3 years
- Annual chest imaging

**p> T2 or N+**
- Consider adjuvant chemo-therapy
- Follow-up as per <T2

**Cisplatin-Based Neoadjuvant Chemotherapy**
- Labs per T2
- CT abdomen/pelvis every 3-6 months for 3 years
- Annual chest imaging

**Partial Cystectomy with Pelvic Lymphadenectomy**
- Neoadjuvant chemotherapy recommended

**Maximal TURBT**
- Maximal TURBT
- Radiation sensitizing chemotherapy
- XRT

**Surveillance**
- Cystoscopy every 3 months for 1 year, then 6-12 months
- CT abdomen/pelvis and CR every 3-6 months for 2 years, then annually

**Palliative Care**
- Patient unwilling or unfit for treatment

**Cisplatin Eligible**
- Patient unwilling or unfit for treatment

**Complete Chemotherapy/XRT**
- Complete response

**Persistant/Recurrent Invasive Disease**
- Maximal TURBT

**Complete Response**
- Patient desires bladder preservation

**Non-Metastatic Muscle-Invasive Bladder Cancer**

**Complete Radiographic Response**
- Complete radiographic response

**Recycled/Persistent Invasive Disease**
- Recycled/persistent invasive disease

**Patient Desires Bladder Preservation**
- Patient desires bladder preservation

**Cisplatin Ineligible**
- Patient unwilling or unfit for treatment

**Preferred Option**
- Patient desires bladder preservation

**CT abdomen/pelvis with IV contrast**

**CXR= chest X-ray; p= pathologic stage; TURBT= trans-urethral resection of bladder tumor; XRT= external beam radiation therapy; yp= pathologic stage after neoadjuvant chemotherapy**