**Supplemental Figure 1. Screenshot of data capture screen**

Please answer ALL of the following questions:

**Relevant History**

**Race Please check if patient has any of these**

○ Non-black **diagnoses**:

○ Black

□ Benign prostatic hyperplasia

**History of recurrent urinary tract infections** □ Abdominal or pelvic cancer

○ Yes □ Neurogenic bladder

○ No □ Single functional kidney

□ Previous pelvic surgery

**Prior history of hydronephrosisA** □ None of the above

○ Yes

○ No

**History of congestive heart failure**

○ Yes

○ No

**History of prerenal acute kidney injury, use of pressors or history of sepsis**

○ Yes

○ No

**Exposure to nephrotoxic medicationsB**

○ Yes

○ No

Definitions

1. History of hydronephrosis: documented history of hydronephrosis in the medical record or any imaging history of hydronephrosis within the past 2 years
2. Nephrotoxic medications may include aspirin (>81 mg/d), diuretic, angiotensin-converting enzyme inhibitor, intravenous vancomycin

**Supplemental Figure 1. Performance of Licurse Model using Various Cutoff Values for Sensitivity Analysis**

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| **HN a Outcome** | **Cutoff of 1 (<1)** | | **Cutoff of 2 (<2)** | | **Cutoff of 3 (<3)** | |
|  | With HN | Without HN | With HN | Without HN | With HN | Without HN |
| Low risk, No of patients | 2 | 51 | 7 | 169 | 28 | 366 |
| Medium/High risk, No of patients | 104 | 621 | 99 | 503 | 78 | 306 |
| *Test performance* |  |  |  |  |  | |
| Sensitivity, % (95% CI) | 98.1 (93.4 – 99.5) | | 93.4 (87.0 – 96.8) | | 73.6 (64.4 – 81.0) | |
| Specificity, % (95% CI) | 7.6 (5.8 – 9.8) | | 25.1 (22.0 – 28.6) | | 54.4 (50.7 – 58.2) | |
| Negative predictive value, % | 96.2 (87.2 – 99.0) | | 96.0 (92.0 – 98.1) | | 92.9 (89.9 – 95.0) | |
|  |  |  |  |  |  | |
| **HNRI a Outcome** | With HNRI | Without HNRI | With HNRI | Without HNRI | With HNRI | Without HNRI |
| Low risk, No of patients | 0 | 53 | 2 | 174 | 7 | 387 |
| Medium/High risk, No of patients | 23 | 702 | 21 | 581 | 16 | 368 |
| *Test performance* |  |  |  |  |  | |
| Sensitivity, % (95% CI) | 100 (85.7 – 100) | | 91.3 (73.2 – 97.6) | | 69.6 (49.1 – 84.4) | |
| Specificity, % (95% CI) | 7.0 (5.4 – 9.1) | | 23.0 (20.2 – 26.2) | | 51.3 (47.7 – 54.8) | |
| Negative predictive value, % | 100 (93.2 – 100) | | 98.9 (96.0 – 99.7) | | 98.2 (96.4 – 99.1) | |