

# I-DUNC National Summary Report

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# 1 Demographic Data

Table 1: Summary of National Data

Demographics

| Summary Statistic                  | National Data |
|------------------------------------|---------------|
| <b>Total Number of Patients</b>    |               |
| Patients, n                        | 877           |
| <b>Gender Distribution</b>         |               |
| Men, n                             | 561           |
| Women, n                           | 316           |
| <b>Age at Diagnosis</b>            |               |
| Mean ± Standard Deviation          | 72±9          |
| <b>Smoking Status Distribution</b> |               |
| Current Smoker, n                  | 167           |
| Ex-Smoker, n                       | 260           |
| Non-Smoker, n                      | 239           |
| Unknown Smoking Status, n          | 211           |

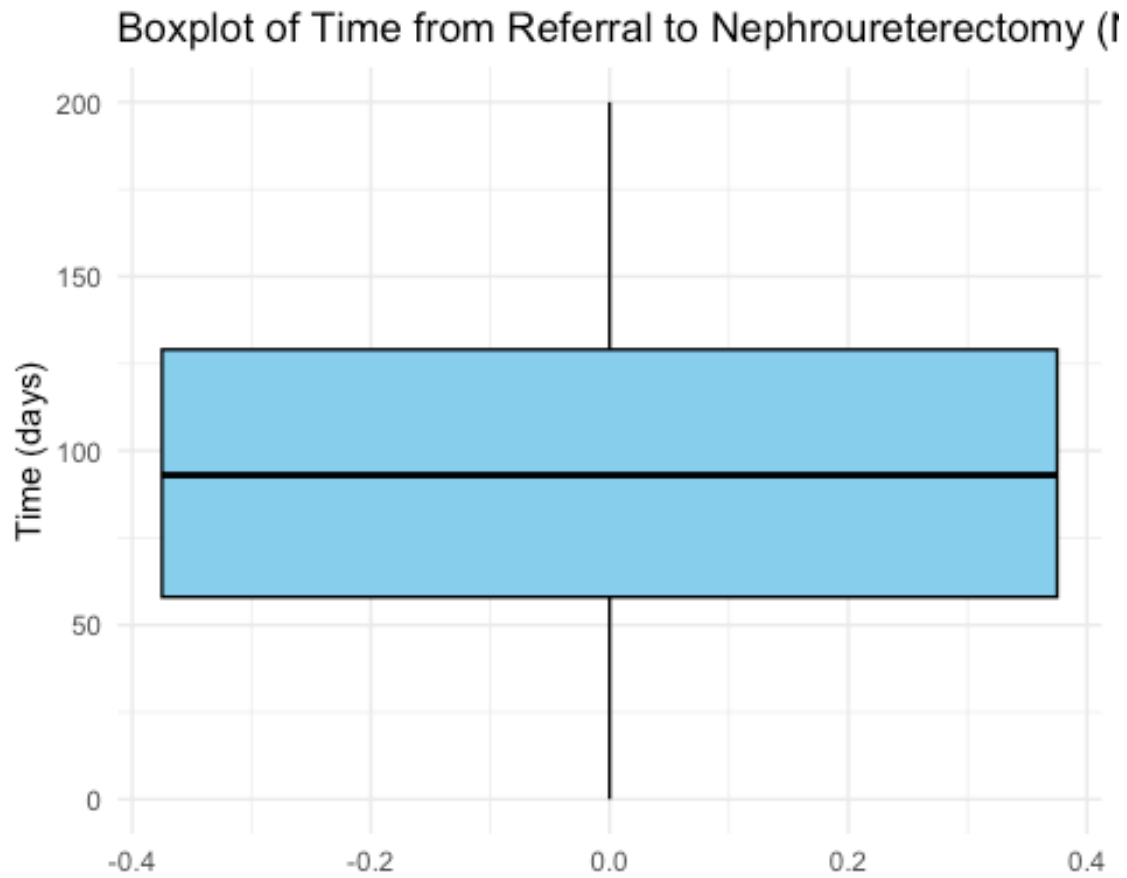
## 2 Primary Outcomes

### 2.1 Overall Time from Referral to Nephroureterectomy

Table 2: National Data Summary

Time from Referral to Nephroureterectomy

| Metric              | National Data |
|---------------------|---------------|
| Median Time (days)  | 105           |
| Interquartile Range | 65-162        |



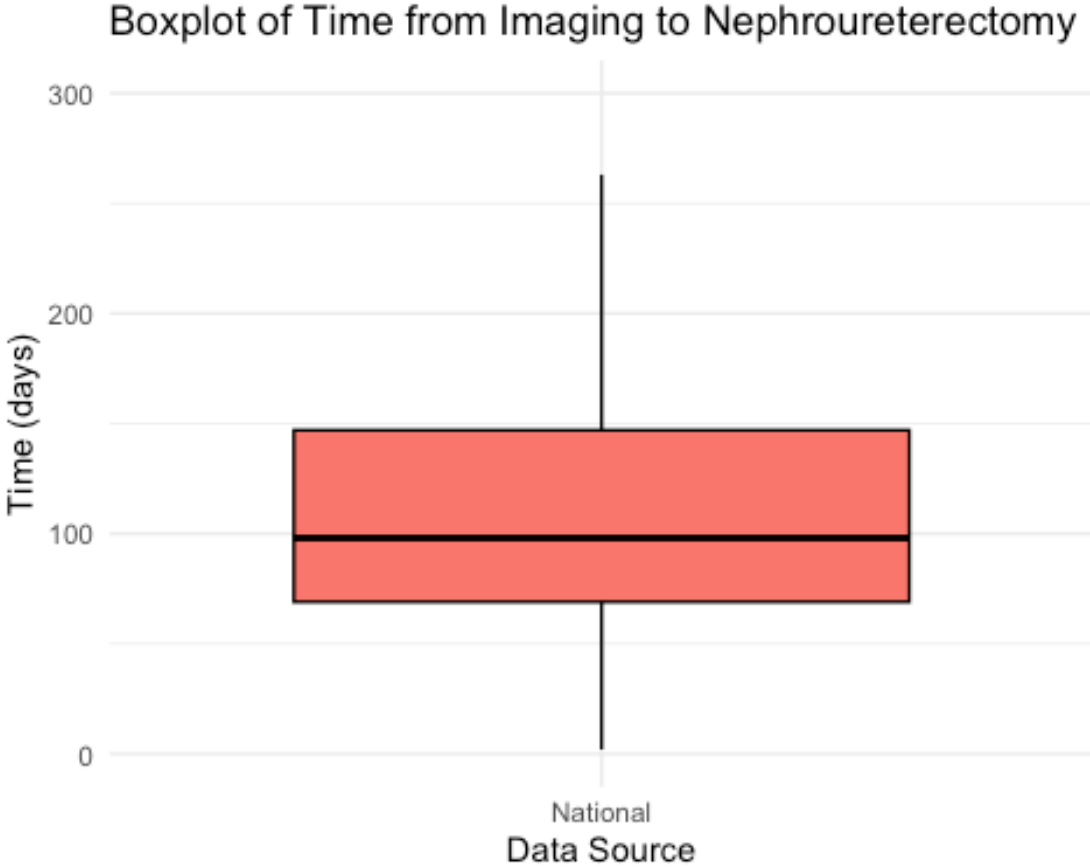
## 2.2 Overall Time from Imaging to Nephroureterectomy

Table 3: National Data Summary

Time from Imaging to Nephroureterectomy

| Metric              | National Data |
|---------------------|---------------|
| Median Time (days)  | 103           |
| Interquartile Range | 71-161        |

### 2.2.1 Boxplot of Time from Imaging to Nephroureterectomy for Unit



## 2.3 Number of Patients undergoing Ureteroscopy Prior to Nephroureterectomy

Table 4: National Data Summary

Ureteroscopy Summary

| Metric                                 | National Data |
|--|---------------|
| Patients undergoing Ureteroscopy, n    | 538           |
| Total Patients, n                      | 877           |
| Proportion undergoing Ureteroscopy (%) | 61            |

## 2.4 Time from Referral to Nephroureterectomy in Ureteroscopy vs No Ureteroscopy

Table 5: National Data Summary

Time from Referral to Nephroureterectomy in URS vs No URS

| Metric                 | National Data |
|------------------------|---------------|
| <b>No Ureteroscopy</b> |               |
| Median Time, (days)    | 84            |
| Interquartile range    | 56-127        |
| <b>Ureteroscopy</b>    |               |
| Median Time, (days)    | 126           |
| Interquartile range    | 75-184        |

## 2.5 Time from Imaging to Nephroureterectomy in Ureteroscopy vs No Ureteroscopy

Table 6: National Data Summary

Time from Imaging to Nephroureterectomy in URS vs No URS

| Metric                 | National Data |
|------------------------|---------------|
| <b>No Ureteroscopy</b> |               |
| Median Time, (days)    | 77            |
| Interquartile range    | 54-107        |
| <b>Ureteroscopy</b>    |               |
| Median Time, (days)    | 130           |
| Interquartile range    | 86-190        |

## 2.6 Post-operative Mitomycin-C

Table 7: National Data Summary

Mitomycin C Administration

| Metric                            | National Data |
|-----------------------------------|---------------|
| Patients Receiving MMC, n         | 383           |
| Total Patients, n                 | 877           |
| Proportion Receiving MMC (%)      | 44            |
| Median time from NU to MMC (days) | 8             |
| Interquartile range               | 2-14          |

## 2.7 Proportion of patients who received chemotherapy for T2 or higher disease

Table 8: National Data Summary

Chemotherapy for T2 or Higher Disease

| Metric                                | National Data |
|---------------------------------------|---------------|
| Patients Receiving Chemotherapy, n    | 176           |
| Total Patients, n                     | 382           |
| Proportion Receiving Chemotherapy (%) | 46            |

### 3 Secondary outcomes

#### 3.1 Proportion of Patients with Bladder Recurrence

Table 9: National Data Summary

Bladder Recurrence Rates

| Metric                                 | National Data |
|--|---------------|
| Bladder Recurrence, n                  | 171           |
| Total Patients, n                      | 877           |
| Proportion with Bladder Recurrence (%) | 19            |

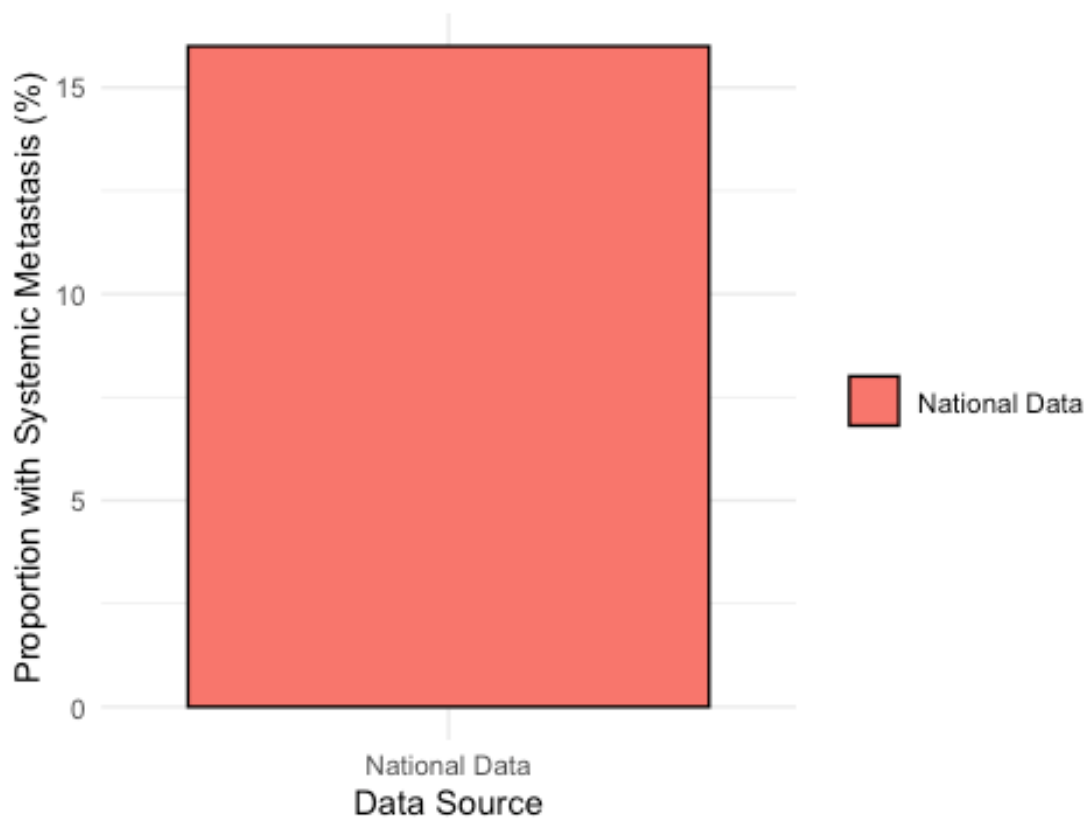
#### 3.2 Proportion of Patients with Systemic Metastasis

Table 10: National Data Summary

Systemic Metastasis Rates

| Metric                                  | National Data |
|---|---------------|
| Systemic Metastasis, n                  | 138           |
| Total Patients, n                       | 877           |
| Proportion with Systemic Metastasis (%) | 16            |

Proportion with Systemic Metastasis



### 3.3 Margin rates

Table 11: National Data Summary

Positive Margin Rates

| Metric  | National Data |
|---|---------------|
| <b>Overall Margins, n</b>   |               |
| Positive or Equivocal Margin, n   | 118           |
| Total Patients, n   | 877           |
| Proportion with Positive or Equivocal Margin (%)                          | 13            |
| <b>Proportion of Positive/Equivocal Margins subdivided by T-Stage (%)</b> |               |
| pT2 or higher   | 25            |
| pTis/Ta   | 5             |
| pT1   | 6             |

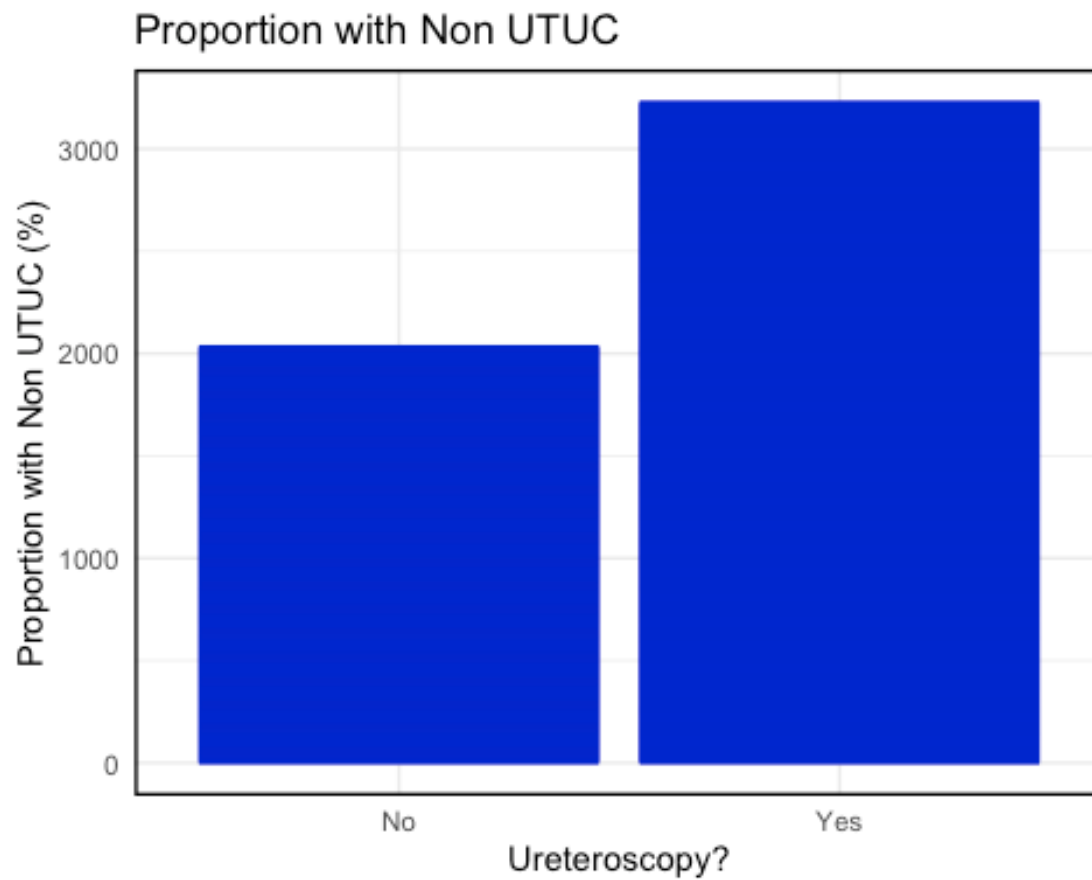


### 3.4 Rate of Non UTUC on Histology

Table 12: Comparison of National Data

Rate of Non UTUC in URS and No URS groups

| Metric                       | National Data |
|------------------------------|---------------|
| <b>No Ureteroscopy</b>       |               |
| Non UTUC, n                  | 29            |
| Total Patients, n            | 339           |
| Proportion with Non UTUC (%) | 9             |
| <b>Ureteroscopy</b>          |               |
| Non UTUC, n                  | 28            |
| Total Patients, n            | 538           |
| Proportion with Non UTUC (%) | 5             |



### 3.5 Biopsy Rates in Group undergoing Ureteroscopy Prior to Nephroureterectomy

Table 13: Comparison of National Data

Ureteroscopic Biopsy Summary

| Metric   | National Data |
|--|---------------|
| Ureteroscopic Biopsy Performed, n                              | 450           |
| Total Patients undergoing Attempted Diagnostic Ureteroscopy, n | 538           |
| Proportion Undergoing Ureteroscopic Biopsy (%)                 | 84            |
| Positive Biopsy Results, n                                     | 383           |
| Proportion with Positive Biopsy Results, %                     | 71            |

## **4 Notes**

- Medians and interquartile ranges have been used as the data is not normally distributed.
- Individual unit feedback on the above metrics was sent to the Clinical Lead for Urology in all participating units (see below) to allow benchmarking against the national data and to drive quality improvement
- The audit collected data on the management and outcomes of patients undergoing nephroureterectomy for upper tract urothelial carcinoma.

| <b>Participating Units</b>                                    |
|---|
| East Midlands Chesterfield Royal Hospital                     |
| East Midlands Leicester General Hospital                      |
| East Midlands Lincoln County Hospital                         |
| East Midlands Northampton General Hospital                    |
| East Midlands Nottingham City Hospital                        |
| East Midlands Royal Derby Hospital                            |
| East of England Addenbrooke's Hospital, Cambridge             |
| East of England Broomfield Hospital, Chelmsford               |
| East of England Lister Hospital, Stevenage                    |
| East of England Norfolk and Norwich University Hospital       |
| East of England Southend Hospital                             |
| Kent, Surrey, Sussex Darent Valley Hospital, Kent             |
| Kent, Surrey, Sussex East Surrey Hospital, Redhill            |
| Kent, Surrey, Sussex Eastbourne District General Hospital     |
| Kent, Surrey, Sussex Frimley Park Hospital                    |
| Kent, Surrey, Sussex Kent & Canterbury Hospital               |
| Kent, Surrey, Sussex Princess Royal Hospital, Hayward's Heath |
| Kent, Surrey, Sussex St Peter's Hospital, Chertsey            |
| London, North Charing Cross Hospital, London                  |
| London, North Royal Free Hospital, London                     |
| London, North Royal Marsden Hospital, London                  |
| London, South Guy's and Thomas's Hospital                     |
| London, South Kingston Hospital, London                       |
| London, South St George's Hospital, London                    |
| North East Freeman Hospital, Newcastle                        |
| North East Sunderland Royal Hospital                          |
| North East The James Cook University Hospital, Middlesbrough  |
| North East University Hospital of North Tees                  |
| North West Aintree University Hospital, Liverpool             |
| North West Arrowe Parke Hospital, Wirral                      |
| North West Manchester Royal Infirmary                         |
| North West Royal Liverpool & Broadgreen University Hospitals  |
| North West Royal Preston Hospital                             |
| North West Stepping Hill Hospital, Stockport                  |
| North West Whiston Hospital                                   |
| North West Wythenshawe Hospital, Manchester                   |
| Northern Ireland Altnagelvin Area Hospital, Londonderry       |
| Northern Ireland Belfast City Hospital                        |
| Northern Ireland Craigavon Area Hospital, Portadown           |
| Scotland Queen Elizabeth University Hospital, Glasgow         |
| Scotland Raigmore Hospital, Inverness                         |

| <b>Participating Units</b>                                  |
|---|
| Scotland Western General Hospital, Edinburgh                |
| South Central Basingstoke & North Hampshire Hospital        |
| South Central Churchill Hospital, Oxford                    |
| South Central Queen Alexandra Hospital, Portsmouth          |
| South Central Royal Berkshire Hospital                      |
| South Central Royal Bournemouth General Hospital            |
| South Central Salisbury District Hospital                   |
| South Central Wycombe Hospital, High Wycombe                |
| South West Cheltenham General Hospital                      |
| South West Derriford Hospital, Plymouth                     |
| South West Musgrove Park Hospital, Taunton                  |
| South West Royal Cornwall Hospital, Truro                   |
| South West Royal Devon & Exeter Hospital                    |
| South West Southmead Hospital, Bristol                      |
| Wales Glangwili General Hospital, Carmarthen                |
| Wales Morriston Hospital, Swansea                           |
| Wales Prince Philip Hospital, Llanelli                      |
| Wales University Hospital of Wales, Cardiff                 |
| West Midlands Alexandra Hospital, Redditch                  |
| West Midlands Hereford County Hospital                      |
| West Midlands New Cross Hospital, Wolverhampton             |
| West Midlands Royal Stoke University Hospitals              |
| West Midlands Russells Hall Hospital Dudley                 |
| West Midlands University Hospital, Coventry                 |
| Yorkshire & Humber Airedale Hospital                        |
| Yorkshire & Humber Bradford Royal Infirmary                 |
| Yorkshire & Humber Pinderfields General Hospital, Wakefield |
| Yorkshire & Humber Royal Hallamshire Hospital, Sheffield    |
| Yorkshire & Humber Scunthorpe General Hospital              |