## Quality Performance Indicators Kidney Cancer

<table>
<thead>
<tr>
<th>MEASURE</th>
<th>DESCRIPTION</th>
<th>EXCLUSIONS</th>
<th>TARGET</th>
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</table>
| Time from referral received to discussion in renal MDT <31 days | Numerator = Number of patients discussed in renal MDM within 31 days of entry to the pathway  
Denominator = All referrals                                                                                                         | • Patients who refuse treatment or request deferment  
• Patients who die before discussion                                                                                                         | 95%    |
| Time from referral received to first treatment < 62 days     | Numerator = Number of patients who receive first treatment within 62 days of entry to the pathway  
Denominator = All patients                                                                                                                | • Patients who refuse treatment or request deferment  
• Patients who die before treatment  
• Patients unfit / unsuitable for treatment                                                                                               | 85%    |
| TNM Staging                                                  | Numerator = Number of patients diagnosed with renal cell cancer who were clinically TNM staged before first treatment  
Denominator = All patients                                                                                                               |                                                                                                                                             | 100%   |
| Patient Satisfaction                                         | Numerator = Number of patients rating their overall satisfaction with the service as good, very good or excellent in the annual patient satisfaction survey  
Denominator = All patients surveyed                                                                                                        | • Patients who do not return survey                                                                                                         | 75%    |
| Nephron Sparing Surgery in T1a Disease                       | Numerator = Number of patients with T1aN0M0 tumours undergoing nephron sparing surgery as first treatment  
Denominator = Number of patients with T1aN0M0 tumours undergoing surgery as first treatment                                                                 | • Patients who refuse treatment  
• Patients who receive RFA/cryotherapy  
• Patients receiving supportive care only  
• Patients receiving active surveillance                                                                                                       | 40%    |
<table>
<thead>
<tr>
<th>Measure</th>
<th>Numerator</th>
<th>Denominator</th>
<th>Key Points</th>
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<tbody>
<tr>
<td>30 Day Mortality After Surgery or Ablation</td>
<td>Number of patients who undergo minimally invasive or operative treatment as first treatment who die within 30 days</td>
<td>All patients who undergo minimally invasive or operative treatment as first treatment</td>
<td>Patients who died before treatment</td>
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<tr>
<td>Proportion of patients undergoing minimal access rather than open surgery</td>
<td>Number of patients undergoing surgery as first treatment who have minimal access surgery</td>
<td>Number of patients undergoing surgery as first treatment</td>
<td>Emergency surgery</td>
</tr>
<tr>
<td>Proportion of patients requiring perioperative or postoperative renal replacement therapy</td>
<td>Number of patients requiring perioperative or postoperative renal replacement therapy</td>
<td>All patients undergoing surgery</td>
<td>Patients on renal replacement therapy pre-operatively</td>
</tr>
<tr>
<td>Number of surgeons carrying out fewer than 20 nephrectomies or partial nephrectomies per annum (open / laparoscopic / robotic)</td>
<td></td>
<td></td>
<td>0</td>
</tr>
<tr>
<td>Systemic Therapy in Advanced or Metastatic Disease</td>
<td>Number of patients for whom at least 12 months have elapsed since diagnosis who receive systemic therapy as their first treatment within 12 months of diagnosis</td>
<td>All patients with advanced or metastatic disease at diagnosis in whom at least 12 months have elapsed since diagnosis</td>
<td>Performance status 2 or worse at diagnosis</td>
</tr>
<tr>
<td>1 Year Survival T1 Kidney Cancer (includes surveillance, ablation and surgery)</td>
<td>Number of patients with T1 cancer at diagnosis for whom at least one year has elapsed since diagnosis who are alive one year after diagnosis</td>
<td></td>
<td>Patients who have refused systemic treatment</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>Patients enrolled in clinical trials</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>1 Year Survival T1 Kidney Cancer (includes surveillance, ablation and surgery)</td>
</tr>
<tr>
<td>Denominator = All patients with T1 cancer at diagnosis for whom at least one year has elapsed since diagnosis</td>
<td>Mean change in eGFR following partial nephrectomy (laparoscopic or robotic) at 6 months</td>
<td></td>
<td></td>
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<td>-------------------------------------------------</td>
<td>---------------------------------------------------------------------------</td>
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<tr>
<td>$\Delta eGFR = \frac{eGFR \text{ at diagnosis} - eGFR \text{ at 6 months}}{eGFR \text{ at diagnosis}}$</td>
<td>$\bullet$ Patients on renal replacement therapy pre-operatively</td>
<td></td>
<td></td>
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<tr>
<td>Mean $\Delta eGFR$ for all patients undergoing partial nephrectomy for whom at least 6 months have elapsed since surgery</td>
<td>10%</td>
<td></td>
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<table>
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<tr>
<th>Median length of stay for laparoscopic radical and laparoscopic partial nephrectomy low – moderate RENAL score</th>
<th>4 days</th>
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<tr>
<th>Median length of stay for laparoscopic partial nephrectomy high RENAL score</th>
<th>5 days</th>
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<table>
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<tr>
<th>2 Year Survival Metastatic Kidney Cancer</th>
<th>Numerator = Number of patients with metastatic cancer at diagnosis for whom at least 2 years have elapsed since diagnosis who are alive 2 years after diagnosis</th>
</tr>
</thead>
<tbody>
<tr>
<td>Denominator = Number of patients with metastatic cancer at diagnosis for whom at least 2 years have elapsed since diagnosis</td>
<td>50%</td>
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