

Getting Started

Installation Refer to the **PCS Clinical Audit Tool®** Quick Reference Guide for installation instructions and an overview of CAT features.

CKD Graph

Overview Target population is patients >= 15 years with a CKD diagnosis and without a history of renal dialysis or kidney transplant¹

CKD Management Graph

A stacked bar chart showing the % of patients that have a recorded value for each of the management items: Blood Pressure, BMI, HbA1c (if Diabetic), LDL, Total Cholesterol, Smoking, ACE/ARB prescribed, Statin prescribed.

Dark Green = Recorded

Light Green = Recorded and at target²

Light Green = Recorded and not at target

Red = Not Recorded



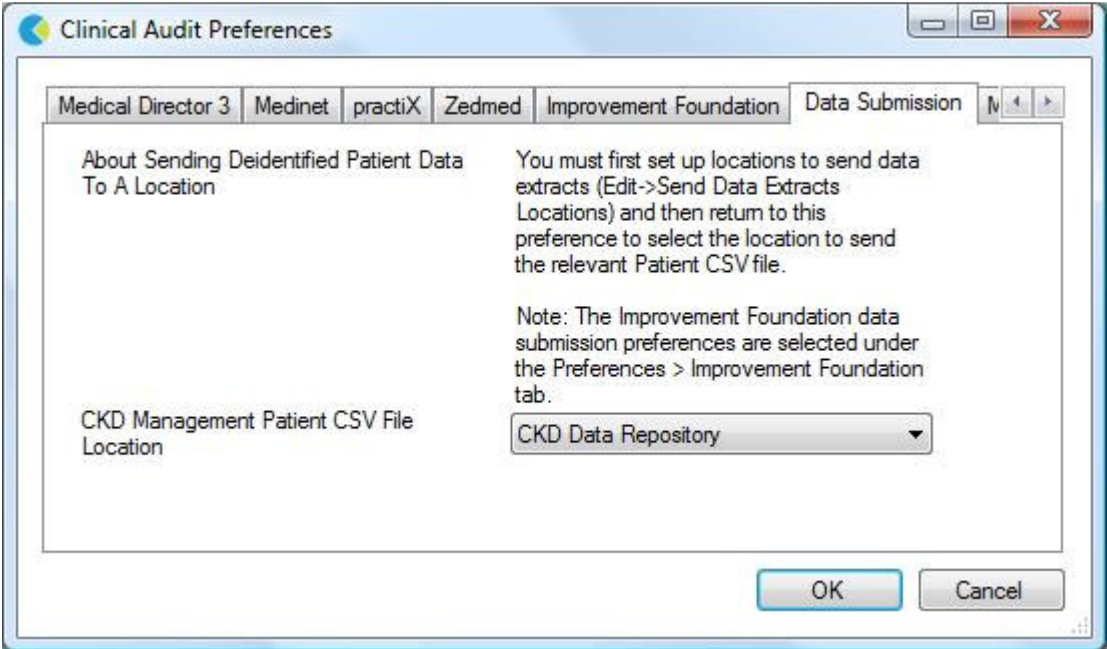
¹ Refer to diagnosis codes at the end of this guide

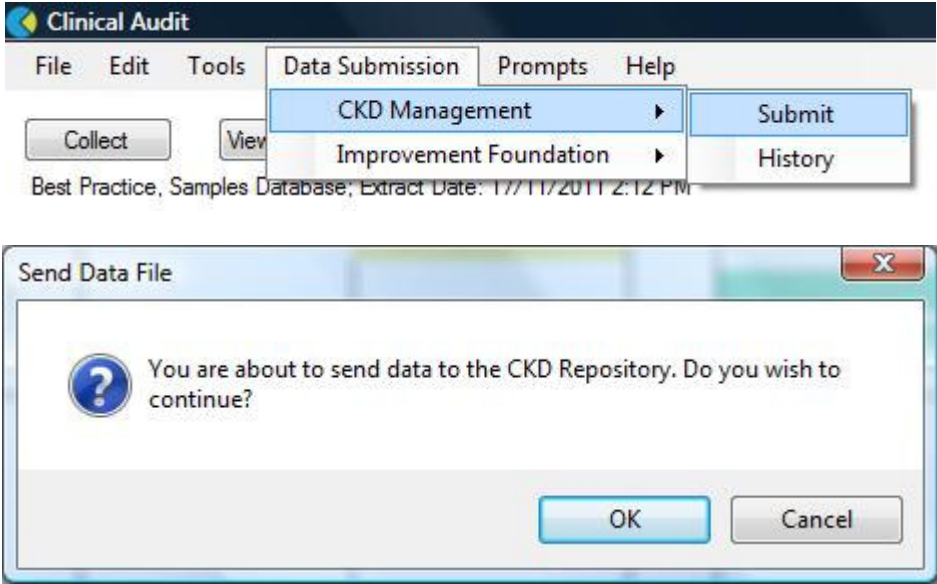
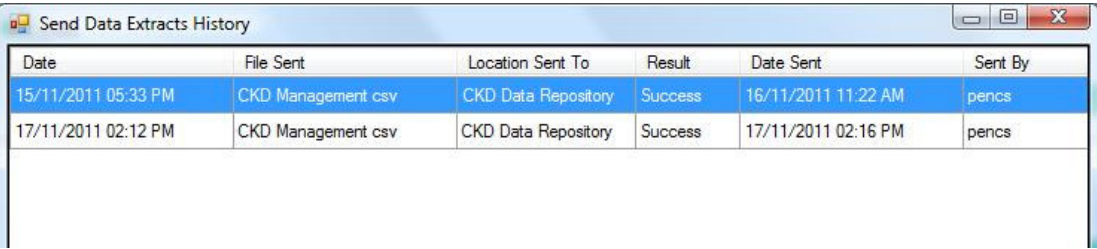
² Refer to target values at the end of this guide

| <p>CKD Management Graph > Worksheet</p> | <p>The worksheet provides a report of all the management items for the target population.</p> <p>From the CKD Management Graph</p> <ul style="list-style-type: none"> • Tick 'Select All' • Click 'Worksheet' <p>Some additional items of relevance are included: ACR, eGFR and Diabetes diagnosis.</p> | <p>Reidentify Report [patient count = 6] - CKD MANAGEMENT WORKSHEET</p> <p>Selected: CKD Management (BP: Not Recorded, BMI: Not Recorded, LDL: Not Recorded, Tchol: Not Recorded, Smoking: Not At Target, ACE/ARB: Recorded, Statin: Recorded, Statin: Not Recorded, ACE/ARB: Not Recorded, BP: Not At Target, LDL: Not At Target, Tchol: Not At Target, BMI: At Target, BMI: Not At Target, HbA1c: At Target, LDL: At Target, Tchol: At Target, HbA1c: Not At Target, BP: At Target, Smoking: At Target)</p> <table border="1"> <thead> <tr> <th>ID</th> <th>Surname</th> <th>First Name</th> <th>Sex</th> <th>D.O.B</th> <th>ACR</th> <th>eGFR</th> <th>BP</th> <th>BMI</th> <th>Diabetes</th> <th>HbA1c</th> <th>LDL</th> <th>TCHOL</th> <th>Smoking</th> <th>ACE/ARB</th> <th>Statin</th> </tr> </thead> <tbody> <tr> <td>6680</td> <td>BO6680</td> <td>B6680</td> <td>M</td> <td>06/02/1930</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td>Ex Smoker</td> <td>√</td> <td>√</td> </tr> <tr> <td>13497</td> <td>Lo13497</td> <td>Y13497</td> <td>M</td> <td>10/01/1927</td> <td></td> <td></td> <td>123/65</td> <td>26.17</td> <td>Y</td> <td>7.2</td> <td>1.8</td> <td>3.6</td> <td>Never Smoked</td> <td>√</td> <td>√</td> </tr> <tr> <td>14227</td> <td>Lo14227</td> <td>G14227</td> <td>M</td> <td>20/02/1933</td> <td></td> <td></td> <td>133/66</td> <td>27.12</td> <td></td> <td></td> <td>2.1</td> <td>3.2</td> <td>Ex Smoker</td> <td>√</td> <td>√</td> </tr> <tr> <td>1602</td> <td>Ma1602</td> <td>M1602</td> <td>F</td> <td>17/12/1949</td> <td></td> <td></td> <td>151/89</td> <td>23.69</td> <td></td> <td></td> <td>4.0</td> <td>6.6</td> <td>Ex Smoker</td> <td></td> <td></td> </tr> <tr> <td>28336</td> <td>ON28336</td> <td>S28336</td> <td>M</td> <td>13/06/1941</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td>Ex Smoker</td> <td>√</td> <td></td> </tr> <tr> <td>2360</td> <td>Wa2360</td> <td>L2360</td> <td>M</td> <td>09/01/1927</td> <td>57.60</td> <td></td> <td>999/69</td> <td>29.91</td> <td>Y</td> <td>6.0</td> <td>2.4</td> <td>3.8</td> <td>Ex Smoker</td> <td></td> <td>√</td> </tr> </tbody> </table> <p>Extract Details: Practice Name: MELB2-234 Medical Director, version 3 Extract Date: 15/11/2011 Patient Count: 13026 Printed: 16/11/2011 4:49 PM Clinical Audit - Not Published(3.1.999.6) - Pen Computer Systems Pty Ltd</p> | ID | Surname | First Name | Sex | D.O.B | ACR | eGFR | BP | BMI | Diabetes | HbA1c | LDL | TCHOL | Smoking | ACE/ARB | Statin | 6680 | BO6680 | B6680 | M | 06/02/1930 | | | | | | | | | Ex Smoker | √ | √ | 13497 | Lo13497 | Y13497 | M | 10/01/1927 | | | 123/65 | 26.17 | Y | 7.2 | 1.8 | 3.6 | Never Smoked | √ | √ | 14227 | Lo14227 | G14227 | M | 20/02/1933 | | | 133/66 | 27.12 | | | 2.1 | 3.2 | Ex Smoker | √ | √ | 1602 | Ma1602 | M1602 | F | 17/12/1949 | | | 151/89 | 23.69 | | | 4.0 | 6.6 | Ex Smoker | | | 28336 | ON28336 | S28336 | M | 13/06/1941 | | | | | | | | | Ex Smoker | √ | | 2360 | Wa2360 | L2360 | M | 09/01/1927 | 57.60 | | 999/69 | 29.91 | Y | 6.0 | 2.4 | 3.8 | Ex Smoker | | √ |
|---|---|--|-----|------------|------------|------|--------|-------|----------|-------|-----|----------|--------------|---------|--------|---------|---------|--------|------|--------|-------|---|------------|--|--|--|--|--|--|--|--|-----------|---|---|-------|---------|--------|---|------------|--|--|--------|-------|---|-----|-----|-----|--------------|---|---|-------|---------|--------|---|------------|--|--|--------|-------|--|--|-----|-----|-----------|---|---|------|--------|-------|---|------------|--|--|--------|-------|--|--|-----|-----|-----------|--|--|-------|---------|--------|---|------------|--|--|--|--|--|--|--|--|-----------|---|--|------|--------|-------|---|------------|-------|--|--------|-------|---|-----|-----|-----|-----------|--|---|
| ID | Surname | First Name | Sex | D.O.B | ACR | eGFR | BP | BMI | Diabetes | HbA1c | LDL | TCHOL | Smoking | ACE/ARB | Statin | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 6680 | BO6680 | B6680 | M | 06/02/1930 | | | | | | | | | Ex Smoker | √ | √ | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 13497 | Lo13497 | Y13497 | M | 10/01/1927 | | | 123/65 | 26.17 | Y | 7.2 | 1.8 | 3.6 | Never Smoked | √ | √ | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 14227 | Lo14227 | G14227 | M | 20/02/1933 | | | 133/66 | 27.12 | | | 2.1 | 3.2 | Ex Smoker | √ | √ | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 1602 | Ma1602 | M1602 | F | 17/12/1949 | | | 151/89 | 23.69 | | | 4.0 | 6.6 | Ex Smoker | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 28336 | ON28336 | S28336 | M | 13/06/1941 | | | | | | | | | Ex Smoker | √ | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 2360 | Wa2360 | L2360 | M | 09/01/1927 | 57.60 | | 999/69 | 29.91 | Y | 6.0 | 2.4 | 3.8 | Ex Smoker | | √ | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |

Sending CKD Data to the Repository

| | |
|----------------------------|--|
| <p>CKD CSV File</p> | <p>Sending data to the CKD Repository requires the user to have a licence code for this functionality switched on. The functionality described in this section will only be visible if the user has the licence code.</p> <p>The CKD CSV file is created when a CAT extract file is loaded. It is saved in the same folder as the CAT extract file.</p> <p>Data items included in the file are: Patient ID, Practice ID, DOB, Postcode, Gender, ATSI, Smoking status, Diagnosis List, Medications List, BMI/Date, ACR/Date, eGFR/Date, LDL/Date, TCholesterol/Date, BP/date</p> |
|----------------------------|--|

| | | |
|---|--|---|
| <p>Configuring the Repository Location</p> | <p>Step 1: From the CAT menu choose Edit > Send Data Extracts Locations</p> <p>Type Location Name = CKD Data Repository</p> <p>Configuration parameters will be advised to users with a licence code.</p> | |
| | <p>Step 2: From the CAT menu choose Edit > Preferences Click the Data Submission tab</p> <p>Select the CKD Data Repository location you have configured in the 'CKD Management Patient CSV File Location' drop down list. This is the location the file will be sent to.</p> <p>Click OK</p> |  |

| <p>Sending the Data</p> | <p>From the CAT menu choose Edit > Data Submission Choose the CKD Management submenu Click Submit</p> <p>You will be prompted to continue Click OK</p> <p>You will be notified when the submission had completed successfully or if there has been an error.</p> |  | | | | | | | | | | | | | | | | | | |
|---------------------------------------|---|--|---------|---------------------|------------------|--------|-----------|---------|---------------------|--------------------|---------------------|---------|---------------------|-------|---------------------|--------------------|---------------------|---------|---------------------|-------|
| <p>Data Submission History</p> | <p>From the CAT menu choose Edit > Data Submission Choose the CKD Management submenu Click History</p> <p>You will be able to view all the submissions you have made.</p> <p>This screen also provides a message column that displays a success if submission was sent or an error message if the submission failed.</p> |  <table border="1" data-bbox="848 865 1938 971"> <thead> <tr> <th>Date</th> <th>File Sent</th> <th>Location Sent To</th> <th>Result</th> <th>Date Sent</th> <th>Sent By</th> </tr> </thead> <tbody> <tr> <td>15/11/2011 05:33 PM</td> <td>CKD Management csv</td> <td>CKD Data Repository</td> <td>Success</td> <td>16/11/2011 11:22 AM</td> <td>pencs</td> </tr> <tr> <td>17/11/2011 02:12 PM</td> <td>CKD Management csv</td> <td>CKD Data Repository</td> <td>Success</td> <td>17/11/2011 02:16 PM</td> <td>pencs</td> </tr> </tbody> </table> | Date | File Sent | Location Sent To | Result | Date Sent | Sent By | 15/11/2011 05:33 PM | CKD Management csv | CKD Data Repository | Success | 16/11/2011 11:22 AM | pencs | 17/11/2011 02:12 PM | CKD Management csv | CKD Data Repository | Success | 17/11/2011 02:16 PM | pencs |
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| 17/11/2011 02:12 PM | CKD Management csv | CKD Data Repository | Success | 17/11/2011 02:16 PM | pencs | | | | | | | | | | | | | | | |

| Diagnosis Codes | |
|--------------------------|--|
| CKD | <p>Chronic Kidney Disease - Stage 1 Chronic Kidney Disease - Stage 2 Chronic Kidney Disease - Stage 3 Chronic Kidney Disease - Stage 4 Chronic Kidney Disease - Stage 5 CKD (Chronic Kidney Disease) Stage 1 CKD (Chronic Kidney Disease) Stage 2 CKD (Chronic Kidney Disease) Stage 3 CKD (Chronic Kidney Disease) Stage 4 CKD (Chronic Kidney Disease) Stage 5 Kidney Disease - Chronic - Stage 1 Kidney Disease - Chronic - Stage 2 Kidney Disease - Chronic - Stage 3 Kidney Disease - Chronic - Stage 4 Kidney Disease - Chronic - Stage 5 Kidney failure - chronic</p> <p>Chronic Renal Failure Chronic Renal Failure - Hyperparathyroidism Renal Disease - Chronic - Stage 1 Renal Disease - Chronic - Stage 2 Renal Disease - Chronic - Stage 3 Renal Disease - Chronic - Stage 4 Renal Disease - Chronic - Stage 5 Renal insufficiency – chronic Dialysis - haemodialysis Haemodialysis Hemodialysis Renal dialysis</p> |
| Renal Dialysis | <p>Dialysis - haemodialysis Haemodialysis Hemodialysis Renal dialysis</p> |
| Kidney Transplant | <p>Kidney transplant Renal transplant Surgery - Kidney transplant Transplant - kidney</p> |

| Management Item Targets | | |
|--------------------------------|--|---|
| Item | Target | Timeframe |
| Blood Pressure | If ACR in last 12 months > 3.5 mg/mmol female or > 2.5 mg/mmol male: BP <= 130/80 mmHg Otherwise: BP <= 140/90 mmHg | BP in last 12 months ACR in last 12 months (Note if ACR is not recorded or older than 12 months then BP is checked against 140/90 target value) |
| BMI | 18.5 – 24.9 | Weight in last 12 months Height recorded |
| HbA1c | If Diabetic: < 7% | HbA1c in last 12 months |
| LDL | < 2.5 mmol/L | LDL in last 12 months |
| Total Cholesterol | < 4.0 mmol/L | Total Cholesterol in last 12 months |
| Smoking | Non smoker, never smoked or ex smoker | Smoking recorded |