



دائرة الصحة  
DEPARTMENT OF HEALTH

# **JAWDA Performance Quarterly KPI Profile (Dental Clinic & Centers) March 2018**

|  |   |
|--|---|
| <p><b>KPI Description (title):</b></p> | <p><b>Complications following dental surgical and non-surgical extraction procedure</b></p>   |
|  | <p>Patient Safety</p>   |
| <p><b>Sub-domain</b></p>               | <p>Complication</p>   |
| <p><b>Definition:</b></p>              | <p>Percentage of surgical and non-surgical tooth extraction complication detected within 14 days from the procedure date.</p>   |
| <p><b>Calculation:</b></p>             | <p><b><u>Numerator:</u></b> Number of detected complications within 14 days of a surgical and non-surgical extraction procedure on the same tooth.</p> <p><b>Complications to be considered:</b></p> <ul style="list-style-type: none"> <li>• Prolonged limitation of mouth opening (Trismus) (Other post procedural complications and disorders of digestive system)</li> <li>• Prolonged bleeding from extraction site;             <ul style="list-style-type: none"> <li>○ Post procedural hemorrhage and hematoma of a digestive system organ or structure following a digestive system procedure)</li> </ul> </li> <li>• Post-op infection             <ul style="list-style-type: none"> <li>○ Infection following a procedure, initial encounter)</li> <li>○ Infection following a procedure, subsequent encounter)</li> <li>○ Infection following a procedure, sequela)</li> <li>○ Alveolitis of jaws, Alveolar osteitis, Dry Socket)</li> </ul> </li> <li>• Nerve damage             <ul style="list-style-type: none"> <li>○ Other post procedural complications and disorders of digestive system)</li> <li>○ Injury of trigeminal nerve, unspecified side, initial encounter)</li> <li>○ Injury of trigeminal nerve, unspecified side, subsequent encounter)</li> <li>○ Injury of trigeminal nerve, unspecified side, sequela)</li> <li>○ Injury of trigeminal nerve, right side, initial encounter)</li> <li>○ Injury of trigeminal nerve, right side, subsequent encounter)</li> <li>○ Injury of trigeminal nerve, right side, sequela)</li> <li>○ Injury of trigeminal nerve, left side, initial encounter)</li> <li>○ Injury of trigeminal nerve, left side, subsequent encounter)</li> <li>○ Injury of trigeminal nerve, left side, sequela)</li> </ul> </li> </ul> |

- Bony flakes.
  - Inflammatory conditions of jaws)
    - Applicable To:
      - Osteitis of jaw(s)
      - Osteomyelitis (neonatal) jaw(s)
      - Osteoradionecrosis jaw(s)
      - Periostitis jaw(s)
      - Sequestrum of jaw bone
- Jaw dislocation.
  - Dislocation of jaw, initial encounter)
  - Dislocation of jaw, subsequent encounter)
  - Dislocation of jaw, sequela)
  - Post procedural hemorrhage and hematoma of a musculoskeletal structure following other procedure),
- Jaw fracture during third molars surgeries.
  - Fracture of mandible)
- Avulsion, luxation or extrusion of tooth
- Cut Tongue/ cheek while operating

**Denominator:** Total number of all surgical and non-surgical tooth extraction procedures done during the reporting period.

**CDA Dental Procedure Codes for Denominator:**

**Non-surgical extraction:**

- 71101 - Removals, (Extractions), Erupted Teeth, Single tooth, Uncomplicated
- 71109 - Removals, (Extractions), Erupted Teeth, Each additional tooth, same quadrant, same appointment
- 72311 - Removals, (Extractions), Residual Roots, First tooth
- 72319 - Removals, (Extractions), Residual Roots Each additional tooth, same quadrant

**Surgical extraction:**

- **Removals, (Extractions), Erupted Teeth**  
(71201, 71209, 71211, 71219)
- **Removals, (Extractions), Surgical** (72111, 72119, 72211, 72219, 72221, 72229, 72231, 72239, 72321, 72329, 72331, 72339 -

|                             |                  |
|-----------------------------|------------------|
| <b>Reporting Frequency:</b> | Quarterly        |
| <b>Unit of Measure:</b>     | % of performance |

|  |  |
|--|--|
| <b>International comparison if available</b> | Developed by Abu Dhabi DoH with consideration of international standards.<br><a href="https://www.oralhealthgroup.com/features/complications-during-and-after-surgical-removal-of-third-molars/">https://www.oralhealthgroup.com/features/complications-during-and-after-surgical-removal-of-third-molars/</a> |
| <b>Desired direction:</b>                    | Lower is better  |
| <b>Notes for all facilities</b>              |  |
| <b>Data Source/ Report Name:</b>             | <ul style="list-style-type: none"> <li>- Administrative and medical records.</li> <li>- Claims</li> </ul>  |

|  |   |
|--|---|
| <p><b>KPI Description (title):</b></p> | <p>Failures following dental implant surgical procedure</p>   |
| <p><b>Domain</b></p>                   | <p>Patient Safety</p>   |
| <p><b>Sub-domain</b></p>               | <p>Complication</p>   |
| <p><b>Definition:</b></p>              | <p>Percentage of failures detected within 90 days from the implant procedure date among adult aged 18 and older.</p>  |
| <p><b>Calculation:</b></p>             | <p><b><u>Numerator:</u></b> Number of failures detected on the same tooth within 90 days from implant procedure date among adult aged 18 and older.</p> <p><b>Inclusion complication Criteria:</b></p> <ul style="list-style-type: none"> <li>• Nerve damage and altered sensation related to implant procedure.</li> <li>• Unintentional cut, puncture, perforation or hemorrhage during surgical and medical care</li> <li>• Anesthesia of skin</li> <li>• Paresthesia of skin</li> <li>• Unspecified complication of internal prosthetic device, implant and graft</li> <li>• Osseointegration failure of dental implant</li> <li>• Post-osseointegration biological failure of dental implant</li> <li>• Post-osseointegration mechanical failure of dental implant</li> <li>• Other endosseous dental implant failure (</li> </ul> <p><b><u>Denominator:</u></b> Total number of implant procedures performed among adult aged 18 and older during the reporting period.</p> <p><b>Implant Procedure Codes for the denominator:</b></p> <ul style="list-style-type: none"> <li>• Surgical Installation of Implant with Cover Screw, per Implant (79931)</li> <li>• Surg Installation of Implant with Healing Transmucosal Element, per Implant (79932)</li> <li>• Surg Installation of Implant with Final Transmucosal Element, per Implant (79933)</li> <li>• Surg Reentry, Removal of Healing Screw, Placing of Healing Transmucosal Element, per Implant (79934)</li> <li>• Surg Reentry, Removal of Healing Screw ,Placing Final Stnd Transmucosal Element, per Implant (79935)</li> </ul> |

|  |  |
|--|--|
|  | <ul style="list-style-type: none"> <li>• Surg Reentry, Removal of Healing Screw,Placing Final Custom Transmucosal Element, per Implant 79936</li> <li>• Surgical Installation of Implant, Osseointegrated, Root Form, Single Component (79941)</li> <li>• Installation of Provisional Implant, per Implant (79951)</li> </ul>  |
| <b>Reporting Frequency:</b>                  | Quarterly  |
| <b>Unit of Measure:</b>                      | % of performance   |
| <b>International comparison if available</b> | <p>Developed by Abu Dhabi-DoH with considerations to international standards</p> <p><a href="https://www.webmd.com/oral-health/guide/dental-implants#1-4">https://www.webmd.com/oral-health/guide/dental-implants#1-4</a></p> <p><a href="https://www.aaid.com/about/Press_Room/Dental_Implants_FAQ.html">https://www.aaid.com/about/Press_Room/Dental_Implants_FAQ.html</a></p> |
| <b>Desired direction:</b>                    | Lower is better  |
| <b>Notes for all facilities</b>              |  |
| <b>Data Source/ Report Name:</b>             | <ul style="list-style-type: none"> <li>- Administrative and medical records.</li> <li>- Claims</li> </ul>  |

|  |  |
|--|--|
| <p><b>KPI Description (title):</b></p> | <p>Complications following first endodontic routine root canal treatment and retreatment procedures.</p>   |
| <p><b>Domain</b></p>                   | <p>Outcome</p>   |
| <p><b>Sub-domain</b></p>               | <p>Patient Safety</p>  |
| <p><b>Definition:</b></p>              | <p>Percentage of failures detected within 90 days from the first endodontic routine root canal treatment and retreatment procedures among adult aged 18 and older.</p>   |
| <p><b>Calculation:</b></p>             | <p><b><u>Numerator:</u></b> Number of failures detected on the same tooth within 90 days from the first endodontic routine root canal treatment and retreatment procedures among adults aged 18 and older.</p> <p><b>Failures to be included:</b></p> <ol style="list-style-type: none"> <li>1- Endodontic under fill.</li> <li>2- Acute apical periodontitis of endodontic origin.</li> <li>3- Chronic apical periodontitis of endodontic origin (peri- apical radiolucency had become bigger from the initial x-ray taken pre operatively before the 1<sup>st</sup> initiated treatment.</li> <li>4- Apical abscess with or without fistula.</li> <li>5- Nerve damage, altered sensation, related to extrusion of endodontic.</li> <li>6- Root canal obturation material into Inferior alveolar nerve canal.</li> <li>7- Non treated perforation of root canal system (that was not present in the pre-operative peri-apical x-ray).</li> <li>8- Additional resorption of the root (that was not present in the pre-operative peri-apical x-ray or that was present but has augmented in extension and size).</li> <li>9- Cellulitis (facial swelling) related to the root canal treated tooth. (can take more than 90 days).</li> <li>10- Radicular Cyst.</li> <li>11- Unspecified diseases of pulp and periapical tissue.</li> <li>12- Other periarticular pathology associated with previous endodontic treatment. To be considered</li> </ol> <p><b><u>Denominator:</u></b> Total number of the endodontic root canal procedures done among adult aged 18 and older during the reporting period.</p> |

|  |   |
|--|---|
|  | <p><b>Codes for all endodontics procedures for the denominator:</b></p> <ul style="list-style-type: none"> <li>• 33111 RCT Perm./Retained Primary Tooth, 1 Canal</li> <li>• 33112 RCT Perm./Retained Primary Tooth, 1 Canal, Difficult Access</li> <li>• 33113 RCT Perm./Retained Primary Tooth, 1 Canal, Exceptional Anatomy</li> <li>• 33114 RCT Perm./Retained Primary Tooth, 1 Canal, Calcified Canal</li> <li>• 33121 RCT Perm./Retained Primary Tooth, 2 Canals</li> <li>• 33122 RCT Perm./Retained Primary Tooth, 2 Canals, Difficult Access</li> <li>• 33123 RCT Perm./Retained Primary Tooth, 2 Canals, Exceptional Anatomy</li> <li>• 33124 RCT Perm./Retained Primary Tooth, 2 Canals, Calcified canals</li> <li>• 33131 RCT Perm./Retained Primary Tooth, 3 Canals</li> <li>• 33132 RCT Perm./Retained Primary Tooth, 3 Canals, Difficult Access</li> <li>• 33133 RCT Perm./Retained Primary Tooth, 3 Canals, Exceptional Anatomy</li> <li>• 33134 RCT Perm./Retained Primary Tooth, 3 Canals, Calcified canals</li> <li>• 33141 RCT Perm./Retained Primary Tooth, 4 or more Canals</li> <li>• 33142 RCT Perm./Retained Primary Tooth, 4 Canals, Difficult Access</li> <li>• 33143 RCT Perm./Retained Primary Tooth, 4 Canals, Exceptional Anatomy</li> <li>• 33144 RCT Perm./Retained Primary Tooth, 4 Canals, Calcified canals</li> </ul> |
| <b>Reporting Frequency:</b>                  | Quarterly   |
| <b>Unit of Measure:</b>                      | % of performance  |
| <b>International comparison if available</b> | Developed by Abu Dhabi DoH with considerations to international standards.<br><a href="https://www.ncbi.nlm.nih.gov/pmc/articles/PMC3168915">https://www.ncbi.nlm.nih.gov/pmc/articles/PMC3168915</a>   |
| <b>Desired direction:</b>                    | Lower is better   |
| <b>Notes for all facilities</b>              |   |
| <b>Data Source/ Report Name:</b>             | <ul style="list-style-type: none"> <li>- Administrative and medical records.</li> <li>- Claims</li> </ul>   |