

# Orthopedic Surgery Service Jawda Guidance

Version 4.2

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#### **Executive Summary**

The Department of Health– Abu Dhabi (DOH) is the regulatory body of the healthcare sector in the Emirate of Abu Dhabi and ensures excellence in healthcare for the community by monitoring the health status of its population.

The Emirate of Abu Dhabi is experiencing a substantial growth in the number of hospitals, centers and clinics. This is ranging from school clinics and mobile units to internationally renowned specialist and tertiary academic centers. Although, access and quality of care has improved dramatically over the last couple of decades, mirroring the economic upturn and population boom of Emirate of Abu Dhabi, however challenges remain in addressing further improvements.

The main challenges that are presented with increasingly dynamic population include an aging population with increased expectation for treatment, utilization of technology and diverse workforce leading to increased complexity of healthcare provision in Abu Dhabi. All of this results in an increased and inherent risk to quality and patient safety.

DOH has developed dynamic and comprehensive quality framework in order to bring about improvements across the health sector. This guidance relates to the quality indicators that DOH is mandating the quarterly reporting against by the operating general and specialist hospitals in Abu Dhabi.

The guidance sets out the full definition and method of calculation for patient safety and clinical effectiveness indicators. For enquiries about this guidance, please contact <a href="mailto:jawda@DoH.gov.ae">jawda@DoH.gov.ae</a>

This document is subject for review and therefore it is advisable to utilize online versions available on the DOH at all times.

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#### **About this Guidance**

The guidance sets out the definitions and reporting frequency of JAWDA Orthopedic Surgery (OS) performance indicators. Department of Health (DoH) with consultation of local and international Orthopedic surgeon professionals has developed Orthopedic surgery performance indicators that are aimed for assessing the degree to which a provider competently and safely delivers the appropriate clinical services to the patient within the optimal time period.

The Orthopedic indicators in this guidance include measures to monitor morbidity and mortality in patients undergoing Orthopedic surgeries i.e., (surgical site infections for selected measures, readmission to operating room and hospitals, patient safety, emergency visits, and use of blood). Orthopedic surgeons are the most qualified professionals to develop and evaluate quality of care measures for patients with musculoskeletal conditions. Therefore, it is crucial that Orthopedic surgeons retain a leadership position in defining quality of Orthopedic care.

#### Who is this guidance for?

All DoH licensed healthcare facilities providing Orthopedic services in the Emirate of Abu Dhabi.

#### How do I follow this guidance?

Each provider will nominate one member of staff to coordinate, collect, monitor and report Orthopedic surgery quality performance indicators data as per communicated dates. The nominated healthcare facility lead must in the first instance e-mail their contact details (if different from previous submission) to <a href="mailto:jawda@doh.gov.ae">jawda@doh.gov.ae</a> and submit the required quarterly quality performance indicators through Jawda online portal.

#### What are the Regulation related to this guidance?

- Legislation establishing the Health Sector
- As per DoH Policy for Quality and Patient Safety issued January 15th 2017, this
  guidance applies to all DOH Licensed Hospital Healthcare Facilities in the Emirate of
  Abu Dhabi in accordance with the requirements set out in this Standard

#### Glossary

**INPATIENT:** Is a beneficiary registered and admitted to a hospital for bed occupancy for purposes of receiving healthcare services and is medically expected to remain confined overnight and for a period in excess of 12 consecutive hours.

- Daycase admission is not included in INPATIENT.
- Beds excluded from the inpatient bed complement:
  - o **Beds/cots for healthy newborns**
  - Beds in Day Care units, such as surgical, medical, pediatric day care, interventional radiology
  - Beds in Dialysis units
  - o Beds in Labor Suites (e.g. birthday beds, birthing chairs)
  - Beds in Operating Theatre
  - o Temporary beds such as stretchers
  - Chairs, Cots or Beds used to accommodate sitters, parents, guardians accompanying patients or sick children and healthy baby accompanying a hospitalized breast-feeding mother
  - Beds closed during renovation of patient care areas when approved by the competent authority

**DAYCASE**: Daycase beds, also known as observation beds, are beds used in Day Care units such as surgical, medical, pediatric day care interventional radiology. They are not included in the inpatient bed complement.

**LONG TERM CARE PATIENTS**: They will be reported under LTCF Jawda Guidance. **Service codes (not limited to)**: 17-13, 17-14, 17-15, 17-16, 17-27, 17-28, 17-30, 17-31, self-pay LTC, etc.

### **Orthopedic Surgery Quality Indicators**

KPI Description (title):	Surgical site infection (SSI) for Knee Arthroplasty surgery
m i bescription (title).	procedure
Domain	Safety
Indicator Type	Outcome
Definition:	Percentage of inpatients meeting <u>CDC NHSN SSI infection criteria</u> within 90 days of Knee arthroplasty procedure. <u>Numerator</u> : Count total number of surgical site infections detected ≤90 days of the knee arthroplasty procedures.
Calculation and criteria to define SSI	ICD CODES: T81.42XA, T81.42XD, T81.42XS, T81.43XA, T81.43XD, T81.43XS, T81.49XA, T81.49XD, T81.49XS.
	Surgical Site Infection Criteria:
	Deep Incisional, or Organ/Space SSI:  Date of event occurs ≤90 days following the operative procedure (where day 1 = the procedure date)
	AND involves deep soft tissues of the incision (for example, fascial and muscle layers)
	patient has at least one of the following:  a) purulent drainage from the deep incision  b) a deep incision that is deliberately opened or aspirated by a surgeon, physician* or physician designee or spontaneously dehisces AND organism(s) identified from the deep soft tissues of the incision by a culture or non-culture based microbiologic testing method which is performed for purposes of clinical diagnosis or treatment or culture or nonculture based microbiologic testing method is not performed. A culture or nonculture-based test from the deep soft tissues of the incision that has a negative finding does not meet this criterion. AND patient. has at least one of the following signs or symptoms: fever (>38°C); localized pain or tenderness  c) an abscess or other evidence of infection involving the deep incision detected on gross anatomical exam, histopathologic exam, or imaging test.
	Organ/Space SSI Infection occurs within 90 days after the operative procedure (where day 1 = the procedure date) AND
	Infection involves any part of the body deeper than the fascial/muscle layers, that is opened or manipulated during the operative procedure,  AND

	Patient has at least one of the following:
	a) purulent drainage from a drain that is placed into the
	organ/space (e.g., closed suction drainage system, open drain, T-tube drain, CT guided drainage)
	b) organisms are identified from an aseptically obtained fluid or
	tissue in the organ/space by a culture or non-culture based
	microbiologic testing method c) an abscess or other evidence of infection involving the
	organ/space that is detected on gross anatomical or
	histopathology exam, or imaging test evidence suggestive of infection,
	AND
	meets at least one criterion for a specific organ/space infection site listed
	in Chapter 17, Surveillance Definitions for Specific Types of Infections
	<u><b>Denominator</b></u> : Count total number inpatient knee arthroplasty
	procedures during the reporting period.
	<b>Guidance</b> : Count separately
	a) Elective/planned
	b) Urgent/unplanned/emergency
	Denominator Inclusion:
	1. Primary knee arthroplasty
	2. Revised knee arthroplasty
	3. Knee arthroplasty with prosthesis.
	4. Knee arthroplasty without prosthesis.
	Knee Arthroplasty surgery CPT codes: 27437, 27438, 27440, 27441,
	27442, 27443, 27445, 27446, 27447, 27486, 27487.
Donouting Eugeneman	Overstonly
Reporting Frequency: Unit of Measure:	Quarterly (%) percentage of SSI per 100 Knee arthroplasty procedure
International comparison	2024 NHSN Patient Safety Component Manual (cdc.gov)
if available	2024 WHOM Fallette Surety Component Wallatin (Cac.gov)
Desired Direction	Lower is better
	Notes for all providers
Data Source	Captured by infection control team/ nursing as part of regular
	surveillance activities and infection control documentation.
	Patient's records
	<ul> <li>Hospital internal mortality and morbidity</li> </ul>

KPI Description (title):	Surgical site infection (SSI) for Hip Arthroplasty procedure
Domain	Safety
Indicator Type	Outcome
Definition:	Percentage of inpatients meeting <u>CDC NHSN SSI infection criteria</u> within 90 days of Hip arthroplasty procedure.
	Numerator: Count total number of surgical site infections detected within 90 days of the hip arthroplasty procedure.
Calculation and criteria to define SSI	ICD CODES: T81.42XA, T81.42XD, T81.42XS, T81.43XA, T81.43XD, T81.43XS, T81.49XA, T81.49XD, T81.49XS
	<b>The 90-day timeframe:</b> The date the patient exits the OR is POD1, the next calendar day is POD2, etc.
	Surgical Site Infection Criteria: Deep Incisional, or Organ/Space SSI:
	Date of event occurs $\leq 90$ days following the operative procedure (where day 1 = the procedure date)
	involves deep soft tissues of the incision (for example, fascial and muscle layers)  AND
	patient has at least one of the following:  a) purulent drainage from the deep incision  b) a deep incision that is deliberately opened or aspirated by a surgeon, physician* or physician designee or spontaneously dehisces AND organism(s) identified from the deep soft tissues of the incision by a culture or non-culture based microbiologic testing method which is performed for purposes of clinical diagnosis or treatment or culture or nonculture based microbiologic testing method is not performed. A culture or nonculture-based test from the deep soft tissues of the incision that has a negative finding does not meet this criterion. AND patient. has at least one of the following signs or symptoms: fever (>38°C) localized pain or tenderness.  c) an abscess or other evidence of infection involving the deep incision detected on gross anatomical exam, histopathologic exam, or imaging test.  Organ/Space SSI  Infection occurs within 90 days after the operative procedure (where day 1 = the procedure date)  AND
	Infection involves any part of the body deeper than the fascial/muscle layers, that is opened or manipulated during the operative procedure,  AND
	Patient has at least one of the following:

	a) purulent drainage from a drain that is placed into the
	organ/space (e.g., closed suction drainage system, open drain, T-
	tube drain, CT guided drainage)
	b) organisms are identified from an aseptically-obtained fluid or
	tissue in the organ/space by a culture or non-culture based
	microbiologic testing method
	c) an abscess or other evidence of infection involving the
	organ/space that is detected on gross anatomical or
	histopathology exam, or imaging test evidence suggestive of infection,
	AND
	meets at least one criterion for a specific organ/space infection site listed
	in Chapter 17, Surveillance Definitions for Specific Types of Infections
	<b>Denominator:</b> Count total number of inpatient hip arthroplasty
	procedures during the reporting period
	Guidance: Count separately
	a) Elective/planned
	b) Urgent/unplanned/emergency
	Denominator Inclusion:
	1. Primary hip arthroplasty
	2. Revised hip arthroplasty.
	3. Hip arthroplasty with prosthesis.
	4. Hip arthroplasty without prosthesis.
	Hin Authmonlasty proceedings CDT godes: 27125, 27120, 27122
	Hip Arthroplasty procedure CPT codes: 27125, 27130, 27132, 27134, 27137, 27139, 27336
Reporting Frequency:	27134, 27137, 27138, 27236. Quarterly
Unit of Measure:	(%) percentage of SSI per 100 hip arthroplasty procedure
International comparison	2024 NHSN Patient Safety Component Manual (cdc.gov)
if available	2024 INTOIN Facient Safety Component Midfludi (Cuc.gov)
Desired Direction	Lower is better
	Notes for all providers
Data Source	Captured by infection control team/ nursing as part of regular
	surveillance activities and infection control documentation
	Patient's records
	Hospital internal mortality and morbidity

KPI Description (title):	All-Cause 30-Day Readmission for Planned Knee
Domain	Arthroplasty  Effectiveness
	Outcome
Indicator Type	Rate of unplanned emergency readmission for adult inpatients (18 years)
Definition:	and over undergoing a planned Knee arthroplasty within 30 days of discharge.
Calculation:	Numerator: Total number of adult inpatients (18+) with unplanned readmission to any healthcare facility within 30 days of being discharged from hospital for having a planned Knee arthroplasty procedure.
Guituitiviii	Numerator guidance: If a patient has multiple readmissions within 30 days of index discharge, only the first is considered as readmission count for numerator.
	<b><u>Denominator:</u></b> Total number of discharged adult inpatients with planned Knee arthroplasty surgery during the reporting period.
	Denominator Inclusion:
	Primary knee arthroplasty.
	Revised knee arthroplasty.
	<ul> <li>Knee arthroplasty with prosthesis.</li> </ul>
	<ul> <li>Knee arthroplasty without prosthesis.</li> </ul>
	Denominator Exclusions:
	Patients who are discharged against medical advice.
	<ul> <li>Patients having a planned knee arthroplasty procedure during the index hospitalization and subsequently transferred to another acute care facility.</li> <li>Episodes with a discharge of death.</li> </ul>
	Records with an invalid discharge date or time.
	Readmissions within 30 days from the index discharge.
	<b>Knee Arthroplasty surgery CPT codes:</b> 27437, 27438, 27440, 27441, 27442, 27443, 27445, 27446, 27447, 27486, 27487.
Reporting Frequency:	Quarterly
Unit of Measure:	Rate per 100 discharged adult patients with planned knee arthroplasty
International comparison if available	AHRQ, American Association Academy of Orthopedic Surgeons, UCLA Health
<b>Desired Direction</b>	Lower is better
	Notes for all providers
Data Source	Hospital internal adverse event and incident reporting system
	Mortality and morbidity record
	Hospital patient data and record

	All-Cause 30-Day Readmission for Planned Hip
KPI Description (title):	Arthroplasty.
Domain	Effectiveness
Indicator Type	Outcome
	Rate of unplanned emergency readmission for adult patients 18 years and
<b>Definition:</b>	over undergoing a planned hip arthroplasty within 30 days of discharge.
Calculation:	Numerator: Total number of adult inpatients (18+) with unplanned readmission to any healthcare facility within 30 days of being discharged from hospital for having a planned hip arthroplasty procedure.  Numerator guidance: If a patient has multiple readmissions within 30
	days of index discharge, only the first is considered as readmission count for numerator.  Denominator: Total number of discharged adult inpatients with
	planned Hip arthroplasty surgery during the reporting period.
	<b>Denominator Inclusion:</b>
	Primary hip arthroplasty.
	Revised hip arthroplasty.
	Hip arthroplasty with prosthesis.
	Hip arthroplasty without prosthesis.
	<b>Hip Arthroplasty procedure CPT codes</b> : 27125, 27130, 27132, 27134, 27137, 27138, 27236
	Denominator Exclusions:
	Patients who are discharged against medical advice
	<ul> <li>Patients having a planned hip arthroplasty procedure during the index hospitalization and subsequently transferred to another acute care facility.</li> </ul>
	<ul> <li>Episodes with a discharge of death</li> </ul>
	<ul> <li>Records with an invalid discharge date or time.</li> </ul>
	<ul> <li>Readmissions within 30 days from the index discharge.</li> </ul>
Reporting Frequency:	Quarterly
Unit of Measure:	Rate per 100 discharged adult patients with planned hip arthroplasty
International comparison	AHRQ, American Association Academy of Orthopedic Surgeons, UCLA
if available	<u>Health</u>
Desired Direction	Lower is better
	Notes for all providers
Data Source	<ul> <li>Hospital internal adverse event and incident reporting system</li> </ul>
	Mortality and morbidity record
	Hospital patient data and record

KPI Description (title):	All-Cause 30-Day Readmission for selected Orthopedic
	surgery admission
Domain	Effectiveness
Indicator Type	Outcome
	Rate of all-cause 30-day readmission within 30 days of Orthopedic surgery
Definition:	discharge
Calculation:	<u>Numerator:</u> Total number of adult inpatients (18+) with unplanned readmission to any healthcare facility within 30 days of being discharged from hospital for having orthopedic surgery procedure.
Carculation.	Numerator guidance: If a patient has multiple readmissions within 30 days of index discharge, only the first is considered as readmission count for numerator.
	<u>Denominator:</u> Total number of discharged adult (18+) inpatients with planned Orthopedic procedure during the reporting period ( <i>See Appendix –A Selected Orthopedic Procedure Code</i> )
	Guidance: Count separately
	a) Elective/planned Hip Surgeries
	b) Elective/planned Knee Surgeries
	c) Elective/planned other selected orthopedic surgeries
	Denominator Exclusions:
	<ul> <li>Patients who are discharged against medical advice</li> </ul>
	<ul> <li>Patients having a planned any of selected orthopedic procedure in the Appendix -A during the index hospitalization and subsequently transferred to another acute care facility.</li> </ul>
	Exclude the cases of Planned Knee arthroplasty surgery.
	• Exclude the cases of Planned Hip arthroplasty surgery (27125,
	27130, 27132, 27134, 27137, 27138, 27236).
	• Episodes with a discharge of death.
	Records with an invalid discharge date or time.
	Readmissions within 30 days from the index discharge
Reporting Frequency:	Quarterly
Unit of Measure:	Rate per 100 selected discharged patients with planned Orthopedic Surgery
International comparison if available	AHRQ, American Association Academy of Orthopedic Surgeons, UCLA Health
Desired Direction	Lower is better
	Notes for all providers
Data Source	<ul> <li>Hospital internal adverse event and incident reporting system</li> <li>Mortality and morbidity record</li> </ul>
	Hospital patient data and record

KPI Description (title):	Unplanned return to operating room within 30 days of all
	elective Orthopedic procedure
Domain Towns	Effectiveness
Indicator Type	Outcome  Details of natural to an austine mean within 20 down of the abortion with an alice
Definition:	Rate of return to operating room within 30 days of the elective orthopedic
Calculation:	procedure.  Numerator: Total number of adult inpatients (18+) who had unplanned return to operating room within 30 days of all elective orthopedic procedure.
carculation.	The 30-day timeframe: The date the patient exits the OR is POD0, etc.
	Numerator exclusions:
	<ul> <li>Planned subsequent operative procedure (in the same encounter or separate encounter) among cases with clear documentation preoperatively of a staged procedure.</li> </ul>
	<u>Denominator:</u> Total number of discharged adult (18+) inpatients with elective planned Orthopedic procedure during the reporting period (See Appendix –A Selected Orthopedic Procedure Code).
	Guidance: Count separately
	a) Elective/planned Hip Surgeries
	b) Elective/planned Knee Surgeries
	c) Elective/planned other selected orthopedic surgeries
	Denominator Exclusions:
	Patients who are discharged against medical advice.
	<ul> <li>Patients having a planned any of selected orthopedic procedure</li> </ul>
	in the Appendix -A during the index hospitalization and
	subsequently transferred to another acute care facility.
	Urgent or Emergent index procedure.
Reporting Frequency:	Quarterly
Unit of Measure:	Rate per 100 adult patients undergoing elective orthopedic procedure
International comparison	AHRQ, American Association Academy of Orthopedic Surgeons, UCLA
if available	Health
	https://www.ahrq.gov/sites/default/files/wysiwyg/hai/tools/surgery/final-
	report.pdf
<b>Desired Direction</b>	Lower is better
	Notes for all providers
Data Source	Hospital internal adverse event and incident reporting system
	Mortality and morbidity record
	Hospital patient data and record

KPI Description (title):	Emergency room visit within 30 days of planned all
M i Description (title).	elective orthopedic procedure
Domain	Effectiveness
Indicator Type	Outcome
	Rate of emergency room visit within 30 days of being discharge from
Definition:	hospital for having a planned Orthopedic surgery.
Calculation:	<u>Numerator:</u> Total number of adult inpatients (18+) with emergency visit within 30 days of being discharged from hospital for having a planned orthopedic surgery.
	The 30-day timeframe: Discharge Day is day 0
	<b>Denominator:</b> Total number of discharged adult (18+) inpatients with elective planned Orthopedic procedure during the reporting period (See Appendix –A Selected Orthopedic Procedure Code).
	<i>Guidance</i> : Count separately
	a) Elective/planned Hip Surgeries
	b) Elective/planned Knee Surgeries
	c) Elective/planned other selected orthopedic surgeries
	<u>Denominator Exclusions:</u>
	<ul> <li>Patients who are discharged against medical advice.</li> </ul>
	<ul> <li>Patients having a planned any of selected orthopedic procedure</li> </ul>
	in the Appendix -A during the index hospitalization and
	subsequently transferred to another acute care facility.
	Urgent or Emergent index procedure.
Reporting Frequency:	Quarterly
Unit of Measure:	Rate per 100 discharged adult patients with emergency visits
International comparison	AHRQ, American Association Academy of Orthopedic Surgeons, UCLA
if available	<u>Health</u>
<b>Desired Direction</b>	Lower is better
	Notes for all providers
Data Source	Hospital internal adverse event and incident reporting system
	Mortality and morbidity record
	Hospital patient data and record

KPI Description (title):	Mortality within 90 days of all elective Orthopedic
Krī Description (title).	procedure
Domain	Effectiveness
Indicator Type	Outcome
	Rate of all mortality within 90 days of elective Orthopedic procedure.
Definition:	
	Numerator: Total number of deaths among adults (18+) during the
	inpatient hospital stay or within 90 days of the discharge date of the
Calculation	denominator cases
Calculation:	
	<b>Denominator:</b> Total number of discharged adult (18+) inpatients with
	elective planned Orthopedic procedure during the reporting period (See
	Appendix –A Selected Orthopedic Procedure Code).
	Guidance: Count separately
	a) Elective/planned Hip Surgeries
	b) Elective/planned Knee Surgeries
	c) Elective/planned other selected orthopedic surgeries
	c) Elective/planned other selected of thopedic surgeries
Reporting Frequency:	Quarterly
Unit of Measure:	Rate per 100 deaths among adult elective Orthopedic procedure.
International comparison	AHRQ, American Association Academy of Orthopedic Surgeons, UCLA
if available	<u>Health</u>
	90-Day all-cause mortality can be predicted following a total knee replacement: an
	international, network study to develop and validate a prediction model - PMC (nih.gov)
Desired Direction	Lower is better
	Notes for all providers
Data Source	Hospital internal adverse event and incident reporting system
	Mortality and morbidity record
	Hospital patient data and record

	Blood transfusion within 7 days of all elective Orthopedic
KPI Description (title):	procedure
Domain	Safe
Indicator Type	Outcome
	Rate of blood transfusion within 7 days of elective Orthopedic procedure.
Definition:	
	Numerator: Total number of adult inpatients (18 and older) having blood
	transfusion within 7 days of elective Orthopedic procedure.
Calculation:	<b>The 7-day timeframe:</b> The date the patient exits the OR is P0D0, etc. Report transfusions which take place from the time the patient exits the OR (P0D0) through and including P0D7
	Numerator guidance: If a patient has multiple blood transfusions within 7 days of elective Orthopedic procedure, only the first is considered as blood transfusion count for numerator.
	Blood Transfusion CPT codes: 36455, 36430
	Report transfusion of packed red blood cells (PRBC's) only.
	Do not report transfusion of other blood products.
	<b><u>Denominator:</u></b> Total number of adult (18+) inpatients with
	elective/planned Orthopedic procedure during the reporting period ( <b>See Selected Orthopedic Procedure Codes Appendix A</b> ).
	Guidance: Count separately
	a) Elective/planned Hip Surgeries
	b) Elective/planned Knee Surgeries
	c) Elective/planned other selected orthopedic surgeries
	Denominator Exclusions:
	• Revision hip surgery ( <i>CPT codes: 27134, 27137, 27138</i> )
	Sarcoma surgery
	<ul> <li>Hip or trauma surgery in obese patients <i>ICD-10 CM codes</i>: E66.01, E66.09, E66.1, E66.2, E66.8, E66.9</li> </ul>
	Trauma surgery in patients with significant initial blood loss.
Reporting Frequency:	Quarterly
Unit of Measure:	Rate per 100 planned Orthopedic surgery procedure having blood
	transfusion
International comparison	AHRQ, American Association Academy of Orthopedic Surgeons, UCLA
if available	<u>Health</u>
	10. Massive Bleeding Protocols - The Transfusion Service Perspective
	The International Society of Blood Transfusion (ISBT)
Desired Direction	Lower is better
Data Carria	Notes for all providers
Data Source	Hospital internal adverse event and incident reporting system
	Mortality and morbidity record
	Hospital patient data and record

### Appendix-A (Selected Orthopedic Procedure Code)

Procedure Name	CPT Code
JOINTS	
Hip Arthroplasty	27125, 27130, 27132, 27134, 27137, 27138, 27236
Knee Arthroplasty	27438, 27440, 27441, 27442, 27443, 27445, 27446, 27447, 27486, 27487
Shoulder Replacement	23470, 23472, 23473, 23474
SPINE	
	22532, 22533, 22534, 22548, 22551, 22552, 22554, 22556, 22558, 22585,
Spinal Fusion	22586, 22590, 22595, 22600, 22610, 22612, 22614, 22630, 22632, 22633,
	22634, 22800, 22802, 22804, 22808, 22810, 22812
FRACTURE SURGERY	
	27215, 27216, 27217, 27218, 27220, 27222, 27226, 27227, 27228, 27230,
Hip	27232, 27235, 27238, 27240, 27244, 27246, 27248, 27254, 27258, 27259,
	27267, 27268, 27269
	27506, 27507, 27509, 27511, 27513, 27514, 27519, 27524, 27535, 27536,
Lauren Fretzen itar	27750, 27752, 27756, 27758, 27759, 27760, 27762, 27766, 27767, 27768,
Lower Extremity	27769, 27780, 27781, 27784, 27786, 27788, 27792, 27808, 27810, 27814,
	27816, 27818, 27822, 27823, 27824, 27825, 27826, 27827, 27828
SPORTS	
Shoulder Arthroscopy	29806, 29807, 29819, 29820, 29821, 29822, 29823, 29824, 29825, 29826,
Shoulder Artinoscopy	29827, 29828
Knee Arthroscopy	29866, 29867, 29868, 29871, 29873, 29874, 29875, 29876, 29877, 29879,
Knee Artinoscopy	29880, 29881, 29882, 29883, 29884, 29885, 29886, 29887, 29888, 29889
ONCOLOGY	
	21013, 21014, 21554, 21556, 21932, 21933, 22900, 22901, 23073, 23076,
Soft Tissue Tumor	24073, 24076, 25073, 25076, 26113, 26116, 27045, 27048, 27328, 27339,
	27619, 27634, 28041, 28045
	21030, 21040, 23140, 23145, 23146, 23150, 23155, 23156, 24110, 24115,
Curettage of Bone	24116, 24120, 24125, 24126, 25120, 25125, 25126, 25130, 25135, 25136,
curettage of bone	26200, 26205, 26210, 26215, 27355, 27356, 27357, 27358, 27635, 27637,
	27638, 28100, 28102, 28103, 28104, 28106, 28107, 28108
	21045, 21630, 21632, 23200, 23210, 23220, 24150, 24152, 25115, 25116,
Radical Resection of Bone	25170, 26145, 26250, 26260, 26262, 27075, 27076, 27077, 27078, 27365,
	27645, 27646, 27647, 28062, 28171, 28173, 28175
HAND	
Carpal Tunnel Release	64721, 29848, 20526, 64708, 25290, 25115
Trigger Finger	26055, 26145, 26440
FOOT & ANKLE	
Hammertoe	28285, 28043, 64632
Bunionectomy	<i>28292, 28291, 28295</i> 28296, 28297, 28298, 28299

#### References

- 1. <u>Definition of an NHSN Operative Procedure</u>
- 2. <u>Surgical Site Infection (SSI) Even</u>
- 3. NHSN Operative Procedure Category Mappings to ICD-10-PCS and CPT Codes. (www.cdc.gov/nhsn/xls/cpt-pcm-nhsn.xlsx/)

#### Summary of Changes 2025 V4

KPI#	Changes
Glossary	Added Glossary in page 5
	Rephrased all Denominator to Inpatient populations
ALL KPIs	Revised Domains and Indicator Types
OS001	<ul> <li>Revised Titles</li> <li>Revised denominator: Count total number knee arthroplasty procedures during</li> </ul>
	the reporting period.  o Denominator Inclusion:
	<ul> <li>Denominator inclusion.</li> <li>Primary knee arthroplasty</li> </ul>
	<ul> <li>Revised knee arthroplasty</li> </ul>
	<ul> <li>Knee arthroplasty with prosthesis.</li> </ul>
	<ul> <li>Knee arthroplasty without prosthesis.</li> </ul>
	Updated NHSN reference
	Added Guidance: Count separately
	Elective/planned
	Urgent/unplanned/emergency
OS002	Revised denominator: Denominator: Count total number of all patients who had surgery
	for any of the following hip arthroplasty procedure during the reporting period.
	Denominator Inclusion:
	Primary hip arthroplasty
	Revised hip arthroplasty.
	Hip arthroplasty with prosthesis.
	Hip arthroplasty without prosthesis.
	Updated NHSN reference
	Added Guidance: Count separately
	Elective/planned
	Urgent/unplanned/emergency
OS003	Revised Titles
	<ul> <li>Revised denominator: Count total number knee arthroplasty procedures during</li> </ul>
	the reporting period.
	<ul> <li>Denominator Inclusion:</li> </ul>
	<ul> <li>Primary knee arthroplasty</li> </ul>
	<ul> <li>Revised knee arthroplasty</li> </ul>
	<ul> <li>Knee arthroplasty with prosthesis.</li> </ul>
	<ul> <li>Knee arthroplasty without prosthesis.</li> </ul>
	Updated NHSN reference
OS004	Revised denominator: Denominator: Count total number of all patients who had surgery
	for any of the following hip arthroplasty procedure during the reporting period.
	Denominator Inclusion:
	Primary hip arthroplasty
	Revised hip arthroplasty.
	Hip arthroplasty with prosthesis.

	Hip arthroplasty without prosthesis.	
	Updated NHSN reference	
OS005-	Added Guidance: Count separately	
OS009	a) Elective/planned Hip Surgeries	
	b) Elective/planned Knee Surgeries	
0.000.6	c) Elective/planned other selected orthopedic surgeries	
OS006	Added numerator timeframe: The 30-day timeframe: The date the patient	
	exits the OR sis PODO	
	Added elective Orthopedic procedures on the title	
OS007	Added numerator timeframe: The 30-day timeframe: Discharge Day is day 0	
OS008	Revised in Numerator: Total number of deaths among adults (18+) during the	
	hospital stay or within 90 days of the discharge date of the denominator cases	
OS009	Added elective Orthopedic procedures on the title	
	Added Numerator details:	
	<ul> <li>The 7-day timeframe: The date the patient exits the OR is PODO, etc.</li> </ul>	
	Report transfusions which take place from the time the patient exits the OR (PODO) through and including POD7	
	Numerator guidance: If a patient has multiple blood transfusions	
	within 6 days of elective Orthopedic procedure, only the first is	
	considered as blood transfusion count for numerator.	
	Blood Transfusion CPT codes: 36455, 36430	
	Report transfusion of packed red blood cells (PRBC's) only.	
	Do not report transfusion of other blood products.	
Appendix A	Refined format and codes	

### **Summary of Changes V4.1**

KPI#	Changes
OS002,	
OS004,	
Appendix A	Added CPT code: 27236

#### **Summary of Changes V4.2**

KPI #	Changes
	Added codes-Exclude the cases of <b>Planned Hip arthroplasty surgery</b> (27125, 27130,
	27132, 27134, 27137, 27138, 27236).
OS005	
	Removed from: Denominator exclusion- Cases with clear documentation
	preoperatively of a staged procedure or planned subsequent operative encounter
	Added in the Manager Fredrice Division
	Added in the: Numerator Exclusion- Planned subsequent operative procedure (in the same encounter or separate encounter) among cases with clear documentation
	preoperatively of a staged procedure
OS006	preoperatively of a staged procedure