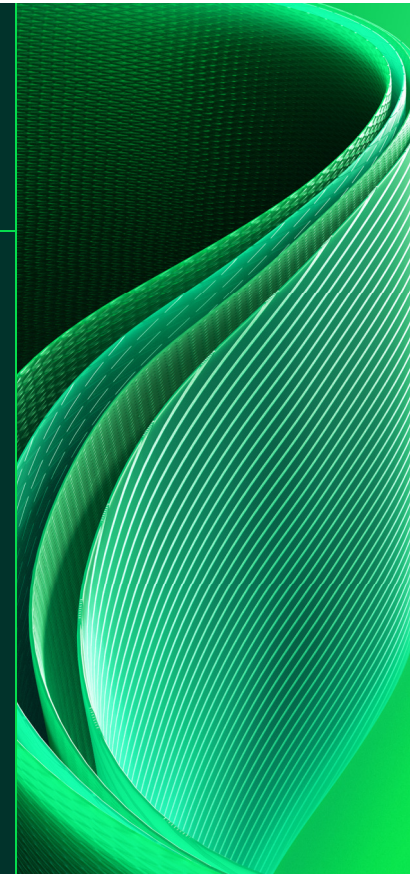


Reviewing Activity Based Funding outcomes at the time of coding

Judy Finn

May, 2024

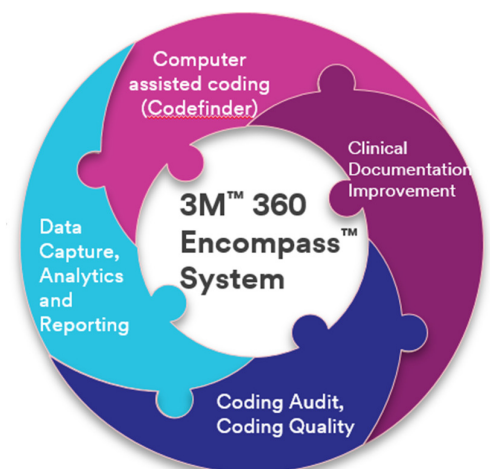
© Solventum 2024. All rights reserved.



Codefinder & National Weighted Activity Units (NWAU)

Codefinder – a software tool providing:

- Coding
- Grouping (AR-DRG Assignment)
- Edits
- Calculates NWAU - the unit used for Activity Based Funding
- Clinical Documentation Improvement Reference



Typical steps using Codefinder

- Assign codes



- Resolve edits
- Queries/Clinical Documentation Improvement
- Review DRG assignment
- Review estimated reimbursement (NWAU)

Unexpected NWAU results

- Missing data or Incorrectly mapped data
- Not understanding the NWAU calculation > Unexpected NWAU

Missing or incorrect data

| ICD-10-AM/ACHI Summary | | Age: 0 | Sex: Female | Admit Date: 02/07/2023 | Separ Date: 14/07/2023 | LOS: 12 | DSP: Home/Other (90) |
|---|--|--------|-------------|------------------------|------------------------|---------|----------------------|
| New South Wales DRG PCCL/ECCS and MDC Information | | | | | | | |
| P68B | Neonate, Admission Weight >= 2500g without Significant GI or Ventilation >= 96 Hours, >= 37 Complete Weeks Gestation, Major Complexity | | | | | | |
| 3 | Episode Clinical Complexity Score | | | | | | |
| 015 | Newborns and Other Neonates | | | | | | |
| Additional DRG Information | | | | | | | |
| DRG Version: 11.0 | | | | | | | |
| Estimated Reimbursement – NSW Activity Based Funding | | | | | | | |
| NSW Price | \$ 0.00 | | | | | | |
| Weighted Activity Unit | 0.0000 | | | | | | |
| Base Weight | 0.0000 | | | | | | |
| Gross Weighted Activity Unit | 0.0000 | | | | | | |
| Indigenous Status | (4) - Neither Aboriginal nor Torres Strait Islander origin | | | | | | |
| Patient Status | (0) LookupNum 0 Not Valid for Table CLAIM STATUS Table | | | | | | |
| Funding Source | 1 Health service budget (not covered elsewhere) | | | | | | |
| Number of Qualified Days | 0 | | | | | | |
| Admit Mode | (3) Other | | | | | | |
| Care Type | Newborn care | | | | | | |
| Charlson Score | 0 | | | | | | |
| Weighted Activity Unit wo HAC | 0.0000 | | | | | | |
| Efficient Price wo HAC | 0.00 | | | | | | |
| ICD-10-AM Principal Diagnosis | | | | | | | |
| Code | Description | | | | | | |
| P122 | Epicranial subaponeurotic haemorrhage due to birth trauma | | | | | | |
| ICD-10-AM Additional Diagnoses | | | | | | | |
| Code | Description | | | | | | |
| P033 | Fetus and newborn affected by delivery by vacuum extractor [ventouse] | | | | | | |
| Z380 | Singleton, born in hospital | | | | | | |
| L8937 | Pressure injury, stage IV, heel | | | | | | |

| ICD-10-AM/ACHI Summary | | Age: 0 | Sex: Female | Admit Date: 02/07/2023 | Separ Date: 14/07/2023 | LOS: 12 | DSP: Home/Other (90) |
|---|--|--------|-------------|------------------------|------------------------|---------|----------------------|
| New South Wales DRG PCCL/ECCS and MDC Information | | | | | | | |
| P68B | Neonate, Admission Weight >= 2500g without Significant GI or Ventilation >= 96 Hours, >= 37 Complete Weeks Gestation, Major Complexity | | | | | | |
| 3 | Episode Clinical Complexity Score | | | | | | |
| 015 | Newborns and Other Neonates | | | | | | |
| Additional DRG Information | | | | | | | |
| DRG Version: 11.0 | | | | | | | |
| Estimated Reimbursement – NSW Activity Based Funding | | | | | | | |
| NSW Price | \$ 8827.92 | | | | | | |
| Weighted Activity Unit | 1.4635 | | | | | | |
| Base Weight | 1.6822 | | | | | | |
| Gross Weighted Activity Unit | 1.6822 | | | | | | |
| HAC Group | (1) Pressure injury | | | | | | |
| HAC Complexity Group | Low | | | | | | |
| HAC Adjustment | 0.1300 | | | | | | |
| HAC Risk Adjustment | 0.21868600 | | | | | | |
| Paediatric Adjustment | 1.0000 | | | | | | |
| Indigenous Status | (4) - Neither Aboriginal nor Torres Strait Islander origin | | | | | | |
| Patient Status | (3) Long Stay Outlier | | | | | | |
| Funding Source | 1 Health service budget (not covered elsewhere) | | | | | | |
| Number of Qualified Days | 12 | | | | | | |
| Admit Mode | (3) Other | | | | | | |
| Care Type | Newborn care | | | | | | |
| Charlson Score | 0 | | | | | | |
| Weighted Activity Unit wo HAC | 1.6822 | | | | | | |
| Efficient Price wo HAC | 10147.03 | | | | | | |
| ICD-10-AM Principal Diagnosis | | | | | | | |
| Code | Description | | | | | | |
| P122 | Epicranial subaponeurotic haemorrhage due to birth trauma | | | | | | |
| ICD-10-AM Additional Diagnoses | | | | | | | |
| Code | Description | | | | | | |
| P033 | Fetus and newborn affected by delivery by vacuum extractor [ventouse] | | | | | | |
| Z380 | Singleton, born in hospital | | | | | | |
| L8937 | Pressure injury, stage IV, heel | | | | | | |

Incorrectly mapped funding source data

| ICD-10-AM/ACHI Summary | |
|---|--|
| Age: 63 Sex: Female Admit Date: 02/09/2023 Separ Date: 02/09/2023 LOS: 1 DSP: Home/Other (99) | |
| Messages/Edits | |
| New South Wales DRG PCCL/ECCS and MDC Information | |
| R63Z | Pharmacotherapy for Neoplastic Disorders |
| 0 | Episode Clinical Complexity Score |
| 017 | Neoplastic Disorders (Haematological and Solid Neoplasms) |
| Additional DRG Information | |
| DRG Version: 11.0 | |
| Estimated Reimbursement – NSW Activity Based Funding | |
| NSW Price | \$ 1313.54 |
| Weighted Activity Unit | 0.2178 |
| Base Weight | 0.3172 |
| Gross Weighted Activity Unit | 0.3172 |
| Private Patient Accommodation Adjustment | 0.0471 |
| Private Patient Service Adjustment | 0.0523 |
| Indigenous Status | (4) - Neither Aboriginal nor Torres Strait Islander origin |
| Patient Status | (4) Inlier |
| Funding Source | 9 Private health insurance |
| Number of Qualified Days | 0 |
| Admit Mode | (3) Other |
| Care Type | Acute care |
| Charlson Score | 0 |
| Weighted Activity Unit wo HAC | 0.2178 |
| Efficient Price wo HAC | 1313.54 |
| ICD-10-AM Principal Diagnosis | |
| Code | Description |
| Z511 | Pharmacotherapy session for neoplasm |
| ICD-10-AM Additional Diagnoses | |
| Code | Description |
| C671 | Malignant neoplasm of dome of bladder |
| ACHI Procedures | |
| Code | Description |
| 9619900 | [1920] Intravenous administration of pharmacological agent, antineoplastic agent |

| ICD-10-AM/ACHI Summary | |
|---|--|
| Age: 63 Sex: Female Admit Date: 02/09/2023 Separ Date: 02/09/2023 LOS: 1 DSP: Home/Other (99) | |
| Messages/Edits | |
| New South Wales DRG PCCL/ECCS and MDC Information | |
| R63Z | Pharmacotherapy for Neoplastic Disorders |
| 0 | Episode Clinical Complexity Score |
| 017 | Neoplastic Disorders (Haematological and Solid Neoplasms) |
| Additional DRG Information | |
| DRG Version: 11.0 | |
| Estimated Reimbursement – NSW Activity Based Funding | |
| NSW Price | \$ 1913.35 |
| Weighted Activity Unit | 0.3172 |
| Base Weight | 0.3172 |
| Gross Weighted Activity Unit | 0.3172 |
| Indigenous Status | (4) - Neither Aboriginal nor Torres Strait Islander origin |
| Patient Status | (4) Inlier |
| Funding Source | 1 Health service budget (not covered elsewhere) |
| Number of Qualified Days | 0 |
| Admit Mode | (3) Other |
| Care Type | Acute care |
| Charlson Score | 0 |
| Weighted Activity Unit wo HAC | 0.3172 |
| Efficient Price wo HAC | 1913.35 |
| ICD-10-AM Principal Diagnosis | |
| Code | Description |
| Z511 | Pharmacotherapy session for neoplasm |
| ICD-10-AM Additional Diagnoses | |
| Code | Description |
| C671 | Malignant neoplasm of dome of bladder |
| ACHI Procedures | |
| Code | Description |
| 9619900 | [1920] Intravenous administration of pharmacological agent, antineoplastic agent |

Unexpected NWAU

Private patient, NWAU = 0

$$\begin{aligned}
 \text{NWAU} &= \text{Base weight} \times \text{Indigenous adj} - \text{private pt adj} - \text{HAC adj} \\
 &= 0.3333 \times 4\% - 0.3693 - 0.043329 \\
 &= 0.3466320 - 0.412629 \\
 &= <0
 \end{aligned}$$

| ICD-10-AM/ACHI Summary | |
|--|--|
| Age: 83 Gender: Male Admit Date: 23/07/2023 Separ Date: 28/07/2023 LOS: 5 DSP: Nursing Home (21) | |
| F73B | Syncope and Collapse, Minor Complexity |
| 2 | Inlier Wgt 0.3333 Lower Bound 1 Upper Bound 5 Same Day 0.0000 ALOS 1.5 |
| | Episode Clinical Complexity Score |
| 005 | Diseases and Disorders of the Circulatory System |
| Additional DRG Information | |
| DRG Version: 11.0 | |
| Estimated Reimbursement – National Activity Based Funding | |
| National Price | \$ 0.00 |
| Weighted Activity Unit | 0.0000 |
| Base Weight | 0.3333 |
| Gross Weighted Activity Unit | 0.3466 |
| HAC Group | 1 |
| HAC Complexity Group | Low |
| HAC Adjustment | 0.1300 |
| HAC Risk Adjustment | 0.04332900 |
| Indigenous Adjustment | 0.0400 |
| Private Patient Accommodation Adjustment | 0.3090 |
| Private Patient Service Adjustment | 0.0603 |
| Indigenous Status | (1) - Aboriginal but not Torres Strait Islander origin |
| Patient Status | (4) Inlier |
| Funding Source | 9 Private health insurance |
| Number of Qualified Days | 0 |
| Admit Mode | (3) Other |
| Care Type | Acute care |
| Charlson Score | 0 |
| Weighted Activity Unit w/o HAC | 0.0000 |
| Efficient Price w/o HAC | 0.00 |
| ICD-10-AM Principal Diagnosis | |
| Code | Description |
| 1. R55 | Syncope and collapse |
| ICD-10-AM Additional Diagnoses | |
| Code | Description |
| 2. I10 | Essential (primary) hypertension |
| 3. O6833 | Pressure injury, stage IV, upper back |

Reductions:

| | |
|------------------------|----------|
| Private pt accomm adj | 0.3090 |
| Private pt service adj | 0.0603 |
| HAC | 0.043329 |

Unexpected NWAU value

| ICD-10-AM/ACHI Summary | |
|--|---|
| Age: 58 Sex: Female Admit Date: 02/09/2023 Separ Date: 14/09/2023 LOS: 12 DSP: Home/Other (90) | |
| New South Wales DRG PCCL/ECCS and MDC Information | |
| E40B | Respiratory System Disorders with Ventilator Support, Minor Complexity |
| 2 | Episode Clinical Complexity Score |
| 004 | Diseases and Disorders of the Respiratory System |
| Additional DRG Information | |
| DRG Version: 11.0 | |
| Estimated Reimbursement – NSW Activity Based Funding | |
| NSW Price | \$ 93649.82 |
| ICD-10-AM Principal Diagnosis | |
| Code | Description |
| 2. J128 | Other viral pneumonia |
| ICD-10-AM Additional Diagnoses | |
| Code | Description |
| 2. U0712 | Coronavirus disease 2019 [COVID-19], virus identified, symptomatic |
| 1. Z290 | Isolation |
| ACHI Procedures | |
| Code | Description |
| 1388201 | [569] Management of continuous ventilatory support, more than 24 hours but less than 96 hours |
| 9251510 | [1910] Sedation, ASA 10 |

| ICD-10-AM/ACHI Summary | |
|--|---|
| Age: 58 Sex: Female Admit Date: 02/09/2023 Separ Date: 14/09/2023 LOS: 12 DSP: Home/Other (90) | |
| New South Wales DRG PCCL/ECCS and MDC Information | |
| E40A | Respiratory System Disorders with Ventilator Support, Major Complexity |
| 2.5 | Episode Clinical Complexity Score |
| 004 | Diseases and Disorders of the Respiratory System |
| Additional DRG Information | |
| DRG Version: 11.0 | |
| Estimated Reimbursement – NSW Activity Based Funding | |
| NSW Price | \$ 93304.18 |
| ICD-10-AM Principal Diagnosis | |
| Code | Description |
| 2. J128 | Other viral pneumonia |
| ICD-10-AM Additional Diagnoses | |
| Code | Description |
| 2. U0712 | Coronavirus disease 2019 [COVID-19], virus identified, symptomatic |
| 1. Z290 | Isolation |
| 2. B370 | Candidal stomatitis |
| ACHI Procedures | |
| Code | Description |
| 1388201 | [569] Management of continuous ventilatory support, more than 24 hours but less than 96 hours |
| 9251510 | [1910] Sedation, ASA 10 |

The calculation

LOS=12days ICU hours= 287

| New South Wales DRG PCCL/ECCS and MDC Information | |
|---|--|
| E40B | Respiratory System Disorders with Ventilator Support, Minor Complexity |
| 2 | Episode Clinical Complexity Score |
| 004 | Diseases and Disorders of the Respiratory System |
| Additional DRG Information | |
| DRG Version: 11.0 | |
| Estimated Reimbursement -- NSW Activity Based Funding | |
| NSW Price | \$ 93649.82 |
| Weighted Activity Unit | 15.5255 |
| Base Weight | 2.9836 |
| Gross Weighted Activity Unit | 15.5255 |
| ICU Adjustment | 12.5419 |
| Indigenous Status | (4) - Neither Aboriginal nor Torres Strait Islander origin |
| Patient Status | (4) Inlier |
| Funding Source | 1 Health service budget (not covered elsewhere) |
| Number of Qualified Days | 0 |
| Admit Mode | (3) Other |
| Care Type | Acute care |
| Charlson Score | 0 |
| COVID-19 diagnosis | Yes |

| New South Wales DRG PCCL/ECCS and MDC Information | |
|---|--|
| E40A | Respiratory System Disorders with Ventilator Support, Major Complexity |
| 2.5 | Episode Clinical Complexity Score |
| 004 | Diseases and Disorders of the Respiratory System |
| Additional DRG Information | |
| DRG Version: 11.0 | |
| Estimated Reimbursement -- NSW Activity Based Funding | |
| NSW Price | \$ 93304.18 |
| Weighted Activity Unit | 15.4682 |
| Base Weight | 2.9263 |
| Gross Weighted Activity Unit | 15.4682 |
| ICU Adjustment | 12.5419 |
| Indigenous Status | (4) - Neither Aboriginal nor Torres Strait Islander origin |
| Patient Status | (2) Short Stay Outlier |
| Funding Source | 1 Health service budget (not covered elsewhere) |
| Number of Qualified Days | 0 |
| Admit Mode | (3) Other |
| Care Type | Acute care |
| Charlson Score | 0 |
| COVID-19 diagnosis | Yes |

$$\begin{aligned} \text{NWAU} &= 2.9836 + (.0437 \times 287) \\ &= 15.5255 \end{aligned}$$

$$\begin{aligned} \text{NWAU} &= 2.9263 + (.0437 \times 287) \\ &= 15.4682 \end{aligned}$$

Summary

- Codefinder provides visibility of NWAU
- Scrutiny of the NWAU contributes to data integrity but increases time taken to code
- Helps ensure the hospital receives its entitled funding

