

Indicator: Fractures

Data Sources	Definition	Numerator	Denominator	Comments	Covariates
SA APC, SA NAEC, NSW APDC, NSW EDDC, QLD EDC, QHAPDC, VEMD, VAED, MBS, NDI.	Proportion of home care recipients who had experienced at least one fracture (1).	Number of home care recipients who had a fracture requiring an emergency department presentation or hospitalisation (Table 1), or secondary diagnosis where onset is not during the hospitalisation, the external cause of the hospitalisation is fall, treatment for which MBS paid for (Table 2), and deaths from fractures (Table 1).	Number of home care recipients.		Age, sex, dementia, osteoporosis ¹ , number of health conditions excluding osteoporosis/Paget's (Table 3).

¹Osteoporosis diagnosis ascertained from Rx-Risk-V in 6 months prior to home care episode (for list of osteoporosis medications, see Table 3).

SA APC: South Australian Admitted Patient Care; **SA NAEC:** South Australian Non-Admitted Emergency Care; **NSW APDC:** New South Wales Admitted Patient Data Collection; **NSW EDDC:** New South Wales Emergency Department Data Collection; **VAED:** Victorian Admitted Episodes Dataset; **VEMD:** Victorian Emergency Minimum Dataset; **QLD EDC:** Queensland Emergency Department Collection; **QHAPDC:** Queensland Hospital Admitted Patient Data Collection; **MBS:** Medicare Benefits Schedule; **NDI:** National Death Index.

Table 1. Fractures, descriptions and ICD-10-AM codes.

Description	Code
Open wound (of any part of head) communicating with a fracture	S01.81
Fractures of skull and facial bones	S02*
Open wound (of any part of neck) communicating with a fracture	S11.81
Fractures of neck	S12*
Open wound (of any part of thorax) communicating with a fracture	S21.81
Fracture of rib(s), sternum and thoracic spine	S22*
Open wound (of any part of lower back and pelvis) communicating with a fracture	S31.81
Fracture of lumbar spine and pelvis	S32*
Open wound (of any part of shoulder and upper arm) communicating with a fracture	S41.81
Fracture of shoulder and upper arm	S42*
Open wound (of any part of forearm) communicating with a fracture	S51.81
Fracture of forearm	S52*
Open wound (of any part of wrist and hand) communicating with a fracture	S61.81
Fracture of wrist and hand level	S62*
Open wound (of any part of hip and thigh) communicating with a fracture	S71.81
Fracture of femur	S72*
Open wound (of any part of lower leg) communicating with a fracture	S81.81

Fracture of lower leg including ankle	S82*
Open wound (of any part of ankle and foot) communicating with a fracture	S91.81
Fracture of foot, except ankle	S92*
Fractures involving multiple body regions	T02*
Fracture of spine, level unspecified	T08*
Fracture of upper limb, level unspecified	T10*
Fracture of lower limb, level unspecified	T12*
Fracture of unspecified body region	T14.2*

ICD-10-AM: International Classification of Diseases, Tenth Revision, Australian Modification.

Table 2. Non-surgical and Surgical Treatment of Fractures, Descriptions and MBS Codes.

MBS Item Group	MBS Subgroup	MBS Subheading	Codes
O09: Oral and Maxillofacial Services Treatment of Fractures			53400, 53403, 53406, 53409, 53410, 53411, 53412, 53413, 53414, 53415, 53416, 53418, 53419, 53422, 53423, 53424, 53425, 53427, 53429, 53439, 53458, 53459, 53460
T08: Therapeutic Procedures-Surgical Operations	T0803: Vascular	13: Interventional Radiology Procedures	35401
	T0807: Neurosurgical	5: Cranio-Cerebral Injuries	39606, 39609, 39610, 39612, 39615
	T0808: Ear, Nose and Throat		41888
	T0813-Plastic and Reconstructive Surgery	5: Oral and Maxillofacial Surgery	45975, 45978, 45981, 45984, 45987, 45990, 45993, 45996
	T0814: Hand Surgery		46442

	T0815: Orthopaedic	2: Treatment of Fractures	47300, 47301, 47303, 47304, 47306, 47307, 47309, 47310, 47312, 47313, 47315, 47316, 47318, 47319, 47321, 47324, 47327, 47330, 47333, 47336, 47339, 47342, 47345, 47348, 47351, 47354, 47357, 47360, 47361, 47362, 47363, 47364, 47366, 47367, 47369, 47370, 47372, 47373, 47375, 47378, 47381, 47384, 47385, 47386, 47387, 47390, 47393, 47396, 47399, 47402, 47405, 47408, 47411, 47414, 47417, 47420, 47423, 47426, 47429, 47432, 47435, 47438, 47441, 47444, 47447, 47450, 47451, 47453, 47456, 47459, 47462, 47465, 47466, 47467, 47468, 47471, 47474, 47477, 47480, 47483, 47486, 47489, 47492, 47495, 47498, 47501, 47504, 47507, 47510, 47511, 47514, 47516, 47519, 47525, 47528, 47531, 47534, 47537, 47540, 47543, 47546, 47549, 47552, 47555, 47558, 47559, 47561, 47564, 47565, 47566, 47567, 47568, 47570, 47573, 47576, 47579, 47582, 47585, 47588, 47591, 47594, 47595, 47597, 47600, 47603, 47606, 47609, 47612, 47615, 47618, 47621, 47624, 47627, 47630, 47633, 47636, 47637, 47639, 47642, 47645, 47648, 47651, 47654, 47657, 47663, 47666, 47672, 47678, 47681, 47684, 47687, 47690, 47693, 47696, 47699, 47702, 47703, 47735, 47738, 47741, 47753, 47756, 47762, 47765, 47768, 47771, 47774, 47777, 47780, 47783, 47786, 47789
		4: Bone Grafts	48203
		5: Osteotomy and Osteectomy	48433, 48435
		11: Hip	47491, 47522, 49315, 49336
	T0817: Spinal Surgery		51110

MBS: Medicare Benefits Schedule.

Table 3. Osteoporosis medications, descriptions and ATC codes.

Description ¹	Code
Bisphosphonates and bisphosphonate combinations	M05BA01–M05BB05
Strontium ranelate	M05BX03
Denosumab	M05BX04
Raloxifene	G03XC01
Teriparatide	H05AA02

¹Determined using 6 months of PBS prescription data prior to prior to home care package episode (Rx-Risk-V).

ATC: Anatomical Therapeutic Chemical Classification System.

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Any enquires about, or comments on, this Technical Specification document should be directed to:

Registry of Senior Australians (ROSA) Research Centre
South Australian Health and Medical Research Institute
PO Box 11060, Adelaide SA 5001
Ph: +61 (08) 8128 4662 Email: ROSA.OMS@sahmri.com
Website: <https://rosaresearch.org/>

References

1. MDS 3.0 Quality Measures USER'S MANUAL. Prepared for: The Centers for Medicare & Medicaid Services under Contract No. HHSM500- 2013-13015I (HHSM-500-T0001).