

How to establish MDS data elements and codes from IDB-FDS records

Version of 24 April 2018. For details (e.g. inclusion/exclusion criteria) see IDB operating manual, FDS and MDS data dictionary.

1) Input/output formats

INPUT: FDS data elements		Proposed FDS var. name	Nb. char.	Position start	Position end	Format	Type
FDS core module	Recording country	reccfds	2	1	2	nn	Numeric
	Unique national record number	numfds	7	3	9	nnnnnnn	Numeric
	Age of patient	agefds	3	10	12	nnn	Numeric
	Sex of patient	sexfds	1	13	13	n	Numeric
	Country of permanent residence	cntrfds	2	14	15	nn	Numeric
	Date of injury	datifds	8	16	23	yyyymmdd	Date
	Time of Injury	timifds	2	24	25	nn	Numeric
	Date of attendance	datafds	8	26	33	yyyymmdd	Date
	Time of attendance	timafds	2	34	35	nn	Numeric
	Treatment and follow-up	treatfds	2	36	37	nn	Numeric
	Intent	intfds	1	38	38	n	Numeric
	Transport injury event	transfds	1	39	39	n	Numeric
	Place of occurrence	placfds	5	40	44	nn.nn	Numeric
	Mechanism of injury	mecafds	5	45	49	nn.nn	Numeric
	Activity when injured	actfds	4	50	53	nn.n	Numeric
	Underlying object/substance/product triggering the injury event	unprofds	7	54	60	nn.nnnn	Numeric
	Direct object/substance/product producing the injury	diprofds	7	61	67	nn.nnnn	Numeric
	Intermediate object/substance/product involved in another way	inprofds	7	68	74	nn.nnnn	Numeric
	Type 1 of injury	tinjfds1	2	75	76	nn	Numeric
	Type 2 of injury (if applicable)	tinjfds2	2	77	78	nn	Numeric
Part 1 of the body injured	bodyfds1	4	79	82	n.nn	Numeric	
Part 2 of the body Injured (if applicable)	bodyfds2	4	83	86	n.nn	Numeric	
Narrative (optional)	narrfds	200	87	286	200n	Alphanumeric	
Provider (hospital) code (optional)	hospfds	3	310	312	nnn	Numeric	
Admission module	Number of days in hospital	hdaysfds	3	287	289	nnn	Numeric
Violence module	Relation victim/perpetrator	pvicfds	1	290	290	n	Numeric

	Sex of perpetrator	psexfds	1	291	291	n	Numeric
	Age of perpetrator	pagefds	1	292	292	n	Numeric
	Context of assault	contfds	1	293	293	n	Numeric
Self-harm module	Proximal risk factor	proxfds	1	294	294	n	Numeric
	Previous intentional self-harm	prevfds	1	295	295	n	Numeric
Transport module	Mode of transport	motrfds	4	296	299	nn.n	Numeric
	Role of injured person	rolinfds	1	300	300	n	Numeric
	Counterpart	countfds	4	301	304	nn.n	Numeric
Sport module	Type of sport/exercise activity	sportfds	5	305	309	nn.nn	Numeric
	Provider (hospital) code (optional)	hospfds	3	310	312	nnn	Numeric
OUTPUT: MDS data elements		Rec. MDS var. name	Nb. char .	Position start	Position end	Format	Type
MDS core module	Recording country	reccrmds	2	1	2	nn	Numeric
	Provider (hospital) code (optional)	hospmads	3	3	5	nn	Numeric
	Unique national record number	nummds	7	6	12	nnnnnnn	Numeric
	Age category of patient	agemds	2	13	14	nn	Numeric
	Sex of patient	sexmds	1	15	15	n	Numeric
	Permanent country of residence (optional)	cntrmds	1	16	16	n	Numeric
	Month of attendance	mumds	2	17	18	nn	Alphanumeric
	Year of attendance	yumds	4	19	22	nnnn	Alphanumeric
	Treatment and follow-up	treatmds	1	23	23	n	Numeric
	Type of injury 1 (primary injury)	tinjmds1	2	24	25	nn	Numeric
	Type of injury 2 (secondary injury)	tinjmads2	2	26	27	nn	Numeric
	Part of the body injured 1 (primary injury)	bodymds1	2	28	29	nn	Numeric
	Part of the body injured 2 (secondary injury)	bodymds2	2	30	31	nn	Numeric
	Intent	intmds	1	32	32	n	Numeric
	Location (place) of occurrence	placmds	1	33	33	n	Numeric
	Mechanism of injury	mecamds	1	34	34	n	Numeric
	Activity when injured	actmds	1	35	35	n	Numeric
Narrative (optional)	narrmds	120	36	155	120n	Alphanumeric	

2) Transcoding directives FDS>MDS

Recording country (FDS)		Recording country (MDS)	
		FDS=MDS	
Provider (hospital) code (FDS) optional		Hospital code (MDS)	
		FDS=MDS; code 999, if not provided	
Unique national record number (FDS)		Unique national record number (MDS)	
		FDS=MDS	
Age of patient (FDS)		Age category (MDS)	
000	<1 year	01	<1 year
001-004	1-4 years	02	1-4 years
005-009	5-9 years	03	5-9 years
010-014	10-14 years	04	10-14 years
etc.
080-084	80-84 years	18	80-84
≥085	85+ years	19	85+
999	unknown	99	Unknown
Sex of patient (FDS)		Sex of patient (MDS)	
		FDS=MDS	
Country of permanent residence (FDS)		Permanent country of residence (MDS)	
Recording country = Country of permanent residence		1	Country of residence is the same as recording country
Recording country ≠ Country of permanent residence		2	Country of residence is not the same as recording country
Recording country = 99;		9	Unknown
Country of permanent residence = 99		9	Unknown
Date of attendance (FDS)		Month of attendance (MDS)	
nnnn01nn	January	01	January
nnnn02nn	February	02	February
nnnn03nn	March	03	March
nnnn04nn	April	04	April
nnnn05nn	May	05	May
nnnn06nn	June	06	June
nnnn07nn	July	07	July
nnnn08nn	August	08	August
nnnn09nn	September	09	September

nnnn10nn	October	10	October
nnnn11nn	November	11	November
nnnn12nn	December	12	December
nnnn99nn	Unknown	99	Unknown
Date of attendance (FDS)		Year of attendance (MDS)	
Xxxxxnnnn	Year	xxxx	Year
9999nnnn	unknown	9999	Unknown
Treatment and follow up (FDS)		Treatment and follow up (MDS)	
01	Examined and sent home without treatment	2	Not admitted to hospital
02	Sent home after treatment	2	Not admitted to hospital
03	Treated and referred to general practitioner for further treatment	2	Not admitted to hospital
04	Treated and referred for further treatment as an outpatient	2	Not admitted to hospital
05	Treated and admitted to this hospital	1	Admitted to this or another hospital
06	Transferred to another hospital	2	Admitted to this or another hospital
07	Deceased before arrival/deceased at Emergency Department	2	Not admitted to hospital
08	Deceased during hospitalisation	1	Admitted to this or another hospital
98	Other	2	Not admitted to hospital
99	Unknown	9	Unknown
Type of injury 1 and 2 (FDS)		Nature of injury 1 and 2 (MDS)	
01	No injury diagnosed	Not a case in IDB-MDS: To be excluded	
02	Contusion, bruise	01	Contusion, bruise
03	Abrasion	02	Open wound and abrasion
04	Open wound	02	Open wound and abrasion
05	Fracture	03	Fracture
06	Luxation, dislocation	04	Dislocation and subluxation
07	Distortion, sprain	05	Sprain and strain
08	Crushing injury	98	Other
09	Traumatic amputation	98	Other
10	Concussion	06	Concussion/brain injury
11	Other specified brain injury	06	Concussion/brain injury
12	Consequences of foreign body entering through natural orifice	07	Foreign body
13	Suffocation (asphyxia)	98	Other
14	Burns, scalds	08	Burns, scalds

15	Corrosion (chemical)	08	Burns, scalds
16	Electrocution	98	Other
17	Radiation (sunlight, X-rays)	98	Other
18	Frostbite	98	Other
19	Injury to nerves and spinal cord	09	Injury to muscle and tendon, blood vessels and nerves
20	Injury to blood vessels	09	Injury to muscle and tendon, blood vessels and nerves
21	Injury to muscle and tendon	09	Injury to muscle and tendon, blood vessels and nerves
22	Injury to internal organs	10	Injury to internal organs
23	Poisoning	11	Poisoning
97	Multiple injuries	12	Multiple injuries
98	Other specified type of injury	98	Other
99	Unspecified type of injury	99	Unknown
Part of body injured 1 and 2 (FDS)		Part of body injured 1 and 2 (MDS)	
1.10	Eye area	03	Eye
1.2x	Face, other and unknown part	02	Face (excl. eye)
1.30	Brain	01	Head/skull
1.40	Skull	01	Head/skull
1.98	Other specified part of the head	01	Head/skull
1.99	Unspecified part of the head	01	Head/skull
2.xx	Neck, throat	04	Neck
3.10	Thoracic spine	05	Thoracic/lumbar spine
3.2x	Organs trunk	08	Internal organs
3.3x	Thorax	06	Chest wall
3.40	Abdomen, lower back, lumbar spine and pelvis	07	Abdominal wall
3.41	Abdomen, external	07	Abdominal wall
3.42	Lower spine (lumbar and sacral)	05	Thoracic/lumbar spine
3.43	Lower back, buttocks	07	Abdominal wall
3.44	Pelvis	09	Pelvis
3.48	Abdomen, other specified	07	Abdominal wall
3.49	Abdomen, unspecified	07	Abdominal wall
3.98	Trunk, other specified	98	Other
3.99	Trunk, unspecified	98	Other
4.10	Collar bone	10	Upper arm/shoulder
4.20	Shoulder	10	Upper arm/shoulder
4.30	Upper arm, humerus	10	Upper arm/shoulder

4.40	Elbow	11	Elbow
4.50	Forearm, lower arm	12	Lower arm
4.60	Wrist	13	Wrist
4.70	Hand, fingers	14	Hand
4.71	Hand	14	Hand
4.72	Fingers	15	Fingers
4.98	Upper extremities, other specified	98	Other
4.99	Upper extremities, unspecified	98	Other
5.10	Hip	16	Hip
5.20	Upper leg, thigh	17	Upper leg
5.30	Knee	18	Knee
5.40	Lower leg	19	Lower leg
5.50	Ankle	20	Ankle
5.60	Foot and toes	21	Foot
5.61	Foot	21	Foot
5.62	Toes	22	Toes
5.98	Lower extremities, other specified	98	Other
5.99	Lower extremities, unspecified	98	Other
7.10	Multiple body parts affected	23	Multiple body parts
7.20	Whole body affected	23	Multiple body parts
9.10	Organs, level not specified	98	Other
9.98	Body part, other specified	98	Other
9.99	Body part, unspecified	99	Unknown
Intent (FDS)		Intent (MDS)	
1	Unintentional	1	Accidental (unintentional) injury
2	Intentional self-harm	2	Deliberate (intentional) self-harm
3	Assault	3	Assault related injury
4	Unknown intent	3	Assault related injury
5	Undetermined intent	9	Unknown intent
8	Other specified intent	9	Unknown intent
9	Unspecified intent	9	Unknown intent
Place of occurrence (FDS)		Location (setting) of injury (MDS)	
01.xx	Home	3	Home
02.xx	Residential institution	8	Other
03.xx	Medical service area	8	Other
04.xx	School, education area	2	Education establishment and area

05.xx		Sports and athletics area	8	Other
06.xx		Transport area: public highway, street or road	1	Road
07.xx		Transport area: other	8	Other
08.xx		Industrial or construction area	8	Other
09.xx		Farm or other place of primary production	8	Other
10.xx		Recreational area, cultural area or public building	8	Other
11.xx		Commercial area (non-recreational)	8	Other
12.xx		Countryside	8	Other
98.98		Other specified place of occurrence	8	Other
99.99		Unspecified place of occurrence	9	Unknown
Mechanism of injury (FDS)			Mechanism of injury (MDS)	
Transport injury event = 1 (yes) and Place = 6 (Public highway, street, road) and Object = 01.xx (Land transport vehicle)	01.2x-99.xx		1	Road traffic injuries
Transport injury event ≠ 1 (no) and/or Place ≠ 6 (no public highway, street, road) and/or Object ≠ 01.xx (no land vehicle)	01.2x	Contact with object or animal	8	Other
	01.3x	Contact with person	8	Other
	01.4x	Crushing	8	Other
	01.5x	Falling, stumbling, jumping, pushed	2	Fall
	01.6x	Abrading, rubbing	8	Other
	01.8x	Other specified contact with blunt force	8	Other
	01.9x	Unspecified contact with blunt force	8	Other
	02.xx	Piercing/penetrating force	3	Cut/pierce
	03.xx	Other mechanical force	8	Other
	04.11, 04.12, 04.13, 04.14	Contact with hot liquid, hot steam, other gas, hot object or solid substance, fire or flames	5	Burn/scald
	04.15-04.19	Heating other	8	Other
	04.2x	Cooling	8	Other
	04.8x	Other specified thermal mechanism	8	Other
	04.9x	Unspecified thermal mechanism	8	Other
05.xx	Threat to breathing	8	Other	
06.1x	Poisoning by chemical or other substance	4	Poisoning	

	06.2x	Corrosion by chemical or other substance	5	Burn/scald
	06.8x	Other specified effect of exposure to chemical or other substance	8	Other
	06.9x	Unspecified effect of exposure to chemical or other substance	8	Other
	07.xx	Physical over-exertion	8	Other
	08.xx	Exposure to (effect of) weather, natural disaster or other force of nature	8	Other
	98.xx	Other specified mechanism of injury	8	Other
	99.xx	Unspecified mechanism of injury	9	Unknown
Activity when injured (FDS)			Activity when injured (MDS)	
01.x		Paid work	1	Paid Work
02.x		Unpaid work	8	Other
03.1		Physical education class, school sports	2	Sports
03.8		Other specified education	8	Other
03.9		Unspecified education	8	Other
04.x		Sports and exercise during leisure time	2	Sports
05.x		Leisure or play	8	Other
06.x		Vital activity	8	Other
07.x		Being taken care of	8	Other
08.x		Travelling not elsewhere classified	8	Other
98.x		Other specified activity	8	Other
99.9		Unspecified activity	9	Unknown
Narrative (FDS) optional			Narrative (MDS)	
			FDS=MDS; leave blank, if not provided	

3) Codebook MDS

Variable name	Format	Variable label	Value label
reccrmds	F2.0*	Recording country	3 Austria 5 Belgium 6 Bulgaria 7 Switzerland 8 Cyprus 9 Czech Republic 10 Germany 11 Denmark 12 Estonia 13 Spain 14 Finland 15 France 16 Greece 17 Croatia 18 Hungary 19 Ireland 20 Iceland 21 Italy 22 Liechtenstein 23 Lithuania 24 Luxembourg 25 Latvia 27 Montenegro 28 Macedonia 29 Malta 30 Netherlands 31 Norway 32 Poland 33 Portugal 34 Romania 35 Sweden 36 Slovenia 37 Slovakia 38 Turkey 39 United Kingdom 99 Unspecified reporting country
hospmds	F2.0	Provider (hospital) code (optional)	1 to 99
nummds	F7.0	Unique national record number	1 to 9999999
agemds	F2.0	Age category of patient	1 '<1' 2 '1 - 4' 3 '5 - 9' 4 '10 -14' 5 '15-19' 6 '20 - 24' 7 '25 -29' 8 '30 -34' 9 '35 - 39' 10 '40 - 44' 11 '45 - 49' 12 '50 -54' 13 '55 - 59' 14 '60 - 64' 15 '65 - 69' 16 '70-74' 17 '75-79' 18 '80-84' 19 '85+' 99 'Unknown'
sexmds	F1.0	Sex of patient	1 "Male" 2 "Female" 9 "Unknown".

cntrmds	F1.0	Permanent country of residence (optional)	1 Country of residence is the same as recording country 2 Country of residence is not the same as recording country 9 Unknown
mumds	F2.0	Month of attendance	1 January 2 February 3 March 4 April 5 May 6 June 7 July 8 August 9 September 10 October 11 November 12 December 99 Unknown
yumds	F4.0	Year of attendance	2017; 2018; etc
treatmds	F2.0	Treatment and follow-up	1 Admitted to hospital 2 Not admitted to hospital 9 Unknown
tinjmds1	F2.0	Type of injury 1 (primary injury)	1 Contusion, bruise 2 Open wound and abrasion 3 Fracture 4 Dislocation and subluxation 5 Sprain and strain 6 Concussion/brain injury 7 Foreign body 8 Burns and scalds 9 Injury to muscle and tendon, blood vessels and nerves 10 Injury to internal organs 11 Poisoning 12 Multiple injuries 98 Other 99 Unknown
tinjmads2	F2.0	Type of injury 2 (secondary injury)	0 No second injury or multi-trauma patient (nature of injury 1 coded as 12) 1 Contusion, bruise 2 Open wound and abrasion 3 Fracture 4 Dislocation and subluxation 5 Sprain and strain 6 Concussion/brain injury 7 Foreign body 8 Burns and scalds 9 Injury to muscle and tendon, blood vessels and nerves 10 Injury to internal organs 11 Poisoning 12 Multiple injuries 98 Other 99 Unknown
bodymds1	F2.0	Part of the body injured 1 (primary injury)	1 Head/skull 2 Face (excl. eye) 3 Eye 4 Neck 5 Thoracic/lumbar spine 6 Chest wall 7 Abdominal wall 8 Internal organs 9 Pelvis 10 Upper arm/shoulder 11 Elbow 12 Lower arm 13 Wrist 14 Hand

			15 Fingers 16 Hip 17 Upper leg 18 Knee 19 Lower leg 20 Ankle 21 Foot 22 Toes 23 Multiple body parts 98 Other 99 Unknown
bodymds2	F2.0	Part of the body injured 2 (secondary injury)	0 No second injury, or multi-trauma patient (nature of injury 1 coded as 12) 1 Head/skull 2 Face (excl. eye) 3 Eye 4 Neck 5 Thoracic/lumbar spine 6 Chest wall 7 Abdominal wall 8 Internal organs 9 Pelvis 10 Upper arm/shoulder 11 Elbow 12 Lower arm 13 Wrist 14 Hand 15 Fingers 16 Hip 17 Upper leg 18 Knee 19 Lower leg 20 Ankle 21 Foot 22 Toes 23 Multiple body parts 98 Other 99 Unknown
intmds	F1.0	Intent	1 Accidental (unintentional) injury 2 Deliberate (intentional) self-harm 3 Assault related injury 9 Unknown intent
placmds	F1.0	Location (place) of occurrence	1 Road 2 Educational establishment 3 Home 8 Other 9 Unknown
mecamds	F1.0	Mechanism of injury	1 Road traffic injuries 2 Fall 3 Cut/pierce 4 Poisoning 5 Thermal mechanism (Burn/Scald) 8 Other 9 Unknown
actmds	F1.0	Activity when injured	1 Paid work 2 Sports 8 Other 9 Unknown
narrmds	A120.0	Narrative (optional)	