



EMS Indicator-Based Code Groupings

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In EMS documentation, there are several fields where the EMS personnel can document an ICD10CM code describing the patient's condition. These include:

- primary impression (eSituation.11): the patient's primary problem or most significant condition which led to the management given to the patient (treatments, medications, or procedures)
- secondary impression (eSituation.12)
- primary symptom (eSituation.09)
- other associated symptoms (eSituation.10)
- cause of injury (eInjury.01)

It is important to acknowledge that EMS personnel typically do not have access to select specific ICD10CM codes or to view the ICD10CM code descriptions. Most documentation software provides an "EMS Label" over the ICD10CM code. The method for selecting what ICD10CM codes to use, and the labelling of ICD10CM codes for EMS use is unstandardized. The use of truncated codes that would normally not be acceptable for hospital discharge billing purposes is very common in EMS data. Therefore, these indicators are more broadly defined than what would be used with hospital discharge data.

Notes about using these groupings:

1. Search the EMS record for any mention of an included ICD10CM code in any of the above fields OR search just the primary impression field if you want more focused results
2. These groups are NOT mutually exclusive
3. If a truncated code is listed, the truncated code and all sub-codes are included

Substance Use Indicators

All Substance-Related

F10–F19	Mental and behavioral disorders due to psychoactive substance use
T36–T50	Poisoning by, adverse effect of, and underdosing of drugs, medicaments and biological substances
T51–T65 (excluding T63)	Toxic effects of substances chiefly nonmedicinal as to source – excluding contact with venomous animals and plants
G62.1, G31.2, G72.1, I42.6, K29.2, K70, K85.2, K86.0	Alcohol-induced disease
Q86.0, P04.3, O35.4, O99.31	Fetal alcohol syndrome; Maternal care for (suspected) damage to fetus from alcohol; Alcohol use complicating pregnancy, childbirth, puerperium
O35.5, O99.32	Maternal care for (suspected) damage to fetus from drugs; Drug use complicating pregnancy, childbirth, puerperium
F55	Abuse of non-psychoactive substances
ITICD047	Overdose/drug ingestion (ImageTrend value, not ICD10CM)

REGEX: ^ITICD047|^F1\\d|^T3[6-9]|^T4\\d|^T50|T5[1-9]|T6[0-245]|^G621|^G312|^G721|^I426|^K292|^K70|^K852|^K860|^Q860|^P04|^O35[45]|^O993[12]|^F55



Alcohol-Related

F10.1	Alcohol Abuse
F10.2	Alcohol Dependence
F10.9	Alcohol Use
G62.1	Alcoholic Polyneuropathy
G31.2	Degeneration of nervous system due to alcohol
G72.1	Alcoholic myopathy
I42.6	Alcoholic Cardiomyopathy
K29.2	Alcoholic Gastritis
K70	Alcoholic liver disease
K85.2	Alcohol-induced acute pancreatitis
K86.0	Alcohol-induced chronic pancreatitis
Q86.0, P04.3, O35.4	Fetal alcohol syndrome and maternal care for (suspected) fetal alcohol damage
O99.31	Alcohol use complicating pregnancy, childbirth, and the puerperium
T51.0	Toxic effect of ethanol

REGEX: ^F10|^T510|^G621|^G312|^G721|^I426|^K292|^K70|^K852|^K860|^Q860|^P043|^O354|^O9931

Cannabis-Related

F12.1	Cannabis Abuse
F12.2	Cannabis Dependence
F12.9	Cannabis Use
T40.7	Poisoning by, adverse effect of and underdosing of cannabis

^F12|^T407

Opioid-Related

F11.1	Opioid Abuse
F11.2	Opioid Dependence
F11.9	Opioid Use
T40.0	Poisoning by, adverse effect of and underdosing of opium
T40.1	Poisoning by and adverse effect of heroin
T40.2	Poisoning by, adverse effect of and underdosing of other opioids
T40.3	Poisoning by, adverse effect of and underdosing of methadone
T40.4	Poisoning by, adverse effect of and underdosing of other synthetic narcotics
T40.6	Poisoning by, adverse effect of and underdosing of other and unspecified narcotics

REGEX: ^F11|^T40[0-46]

Stimulant-Related

F14.1	Cocaine Abuse
F14.2	Cocaine Dependence
F14.9	Cocaine Use
F15.1	Other Stimulant Abuse
F15.2	Other Stimulant Dependence
F15.9	Other Stimulant Use
T40.5	Poisoning by, adverse effect of and underdosing of cocaine
T40.5	Poisoning by, adverse effect of and underdosing of psychostimulants

REGEX: ^F1[45]^T405|^T436



Withdrawal-Related

F10-F19 with 5 th character of 3	Substance use, abuse, dependence with withdrawal
T36-T50 with intent character of 6	Underdosing of drugs, medicaments and biological substances

REGEX: ^F1\d\d3|((T3[679]9|T414|T427|T4[3579]9)[6])|(?!(T3[679]9|T414|T427|T4[3579]9))(T3[6-9]|T4[0-9]|T50)..[6])

Generic Drug Overdose Codes

These non-specific codes are commonly used in EMS data collection software to indicate a drug overdose

F19	Other psychoactive substance related disorders
T50.9	Poisoning by, adverse effect of and underdosing of other and unspecified drugs, medicaments and biological substances
T65.9	Toxic effect of unspecified substance

REGEX: ^F19|^T509|^T659

Mental Health Indicators

All Mental Health-Related

Note that this indicator includes T36-T65 self-harm and assault. It does not include substance use of other intents or truncated substance use codes.

F00–F09, F20–F99	Mental, behavioral, and neurodevelopmental disorders excluding those due to psychoactive substance use
R44–R46	Other symptoms and signs involving general sensations and perceptions, emotional state, appearance, behavior
Z73	Problems related to life-management difficulty
Z86.5	Personal history of mental and behavioral disorders
T14.91	Suicide attempt
O99.34, O90.6	Other mental disorders complicating pregnancy, childbirth, and the puerperium; postpartum mood disturbance
T71 (intent=2 or 3)	Self-harm or assault by asphyxiation
T36–T50 (intent=2 or 3)	Self-harm or assault by drugs, medicaments, and biological substances
T51–T65 (intent=2 or 3)	Self-harm or assault by substances chiefly nonmedicinal as to source
X71–X83	Self-harm
X92–Y09	Assault
T74, T76	Adult and child abuse, neglect, and other maltreatment
Y38	Terrorism

REGEX: ^F[02-9]\d|^R4[4-6]|^Z865|^Z73|^T1491|^O9934|^O906|^T71..[23]|^X7[1-9]|^X8[0-3]|^X9[2-9]|^Y0[0-9]|^T7[46]|^Y38|((T3[679]9|T414|T427|T4[3579]9)[23])|(?!(T3[679]9|T414|T427|T4[3579]9))(T3[6-9]|T4[0-9]|T50)..[23])|(((T5[1-46-9]|T6[0-35])9|(T58|T61)[01]|T64[08])[23])|(?!(T5[1-46-9]|T6[0-35])9|(T58|T61)[01]|T64[08]))(T5[1-9]|T6[0-5])..[23])

Psychotic disorder-Related

F06.0–F06.2	Psychotic or catatonic disorders due to known physiological condition
F20–F29	Schizophrenia, schizotypal, delusional, and other non-mood psychotic disorders

REGEX: ^F06[0-2]|^F2\d

Mood Disorder-Related

F30–F39	Mood [affective] disorders
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F06.3	Mood disorder due to known physiological condition
O90.6	Postpartum mood disturbance
R45.2	Unhappiness
R45.3	Demoralization and apathy
R45.81	Low self-esteem
R45.84	Anhedonia

REGEX: ^F3\\d|^F063|^O906|^R45[23]^R458[14]

Anxiety Disorder-Related

F06.4	Anxiety disorder due to known physiological condition
F40–F48	Anxiety, dissociative, stress-related, somatoform and other nonpsychotic mental disorders
F93.0	Separation anxiety disorder of childhood
F94.0	Selective mutism
F94.8, F94.9	Other and unspecified childhood disorders of social functioning
R46.6	Undue concern and preoccupation with stressful events
R45.0	Nervousness
R45.1	Restlessness and agitation
R45.82	Worries

REGEX: ^F064|^F4\\d|^F930|^F94[089]^R466|^R45[01]^R4582

Assault-Related

T71 (intent = 3)	Asphyxiation (assault)
X92–Y09	Assault
T74, T76	Adult and child abuse, neglect and other maltreatment
Y38	Terrorism
R45.850	Homicidal ideations
R45.4	Irritability and anger
R45.5	Hostility
R45.6	Violent behavior
T36–T50 (intent = 3)	Poisoning by drugs, medicaments and biological substances (assault)
T51–T65 (intent = 3)	Toxic effects of non-medicinal substances (assault)

REGEX: ^T71..3|^X9[2-9]^Y0[0-9]^T7[46]^Y38|^R45850|^R45[456]

((T3[679]9|T414|T427|T4[3579]9)[3]|(?!(T3[679]9|T414|T427|T4[3579]9))(T3[6-9]|T4[0-9]|T50)..[3])|

((T5[1-46-9]|T6[0-35]9|(T58|T61)[01]|T64[08])[3]|(?!(T5[1-46-9]|T6[0-35]9|(T58|T61)[01]|T64[08]))(T5[1-9]|T6[0-5])..[3])

Self-Harm-Related

T71 (intent character = 2)	Asphyxiation (intentional self-harm)
X71–X83	Intentional self-harm
R45.851	Suicidal ideations
T14.91	Suicide attempt
R45.88	Nonsuicidal self-harm
T36–T50 (intent char= 2)	Poisoning by drugs, medicaments and biological substances (intentional self-harm)
T51–T65 (intent char= 2)	Toxic effects of non-medicinal substances (intentional self-harm)

REGEX: ^T71..2|^X7[1-9]^X8[0-3]^T1491|^R45851|^R4588|

((T3[679]9|T414|T427|T4[3579]9)[2]|(?!(T3[679]9|T414|T427|T4[3579]9))(T3[6-9]|T4[0-9]|T50)..[2])|

((T5[1-46-9]|T6[0-35]9|(T58|T61)[01]|T64[08])[2]|(?!(T5[1-46-9]|T6[0-35]9|(T58|T61)[01]|T64[08]))(T5[1-9]|T6[0-5])..[2])



Cardiovascular Indicators

Stroke

I60	Nontraumatic subarachnoid hemorrhage
I61	Nontraumatic intracerebral hemorrhage
I63	Cerebral infarction
G45	Transient cerebral ischemic attacks and related syndromes
G46.3, G46.4	Brain stem stroke syndrome, Cerebellar stroke syndrome

REGEX: ^I6[013]^G45^G46[34]

Cardiac Chest Pain

I20-I25	Ischemic heart diseases
R07.9	Chest pain, unspecified

REGEX: ^I2[0-5]|R079

ST-Elevated Myocardial Infarction (STEMI)

I21.0-I21.3	ST elevation (STEMI) myocardial infarction
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REGEX: ^I21[0-3]

Cardiac Arrest

I46	Cardiac Arrest
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REGEX: ^I46

Injury Indicators

Traumatic Brain Injury (TBI)

S09.90	Unspecified injury of head
S02, S06	Fracture of skull and facial bones, Intracranial injury
S04.02-S04.04	Injury of optic chiasm, optic tract and pathways, or visual cortex
S07.1	Crushing injury of skull
T74.4	Shaken baby syndrome

REGEX: ^S0990|^S0[26]|^S040[2-4]|^S071|^T744

Trauma

This includes burns/corrosions, cold injuries

S00-S99	Anatomic Injuries
G89.11	Acute pain due to trauma
R58	Hemorrhage, not elsewhere classified
O71.9	Obstetric Trauma, unspecified
T71	
T79	Certain early complications of trauma, not elsewhere classified
T15-T19	Foreign bodies
T20-T34, L55	Burns, corrosions, frostbite
T07, T14.8, T14.90	Injury, unspecified
Z89	Acquired absence of limb

REGEX: ^S\d\d|^G8911|^R58|^O719|^T7[19]|^T1[5-9]|^T2\d|^T3[0-4]|^L55|^T07|^T14(?|91)\d|^Z89



Motor Vehicle Crash

Excludes animal riders, railway & streetcar occupants injured, water transport, and air transport. Includes ATVs and snowmobiles

V02-V04, V09.0, V09.2, V09.3-	Pedestrian injured in MVC
V12-V14, V19.0-V19.2, V19.4-V19.9 V19	Pedal Cycle rider injured in MVC
V20-V79, V83-V89	Motor vehicle occupant injured
V98-V99	Other/unspecified transport accidents
Y32	Other/Unspecified Transport accidents
Y03, Y02.0	MVC Assault
X82, X81.0	MVC self-harm

REGEX: ^V[01][2-4]|^V09[023]|^V19[0-24-9]|^V19\b|^V[2-7]|^V8[3-9]|^V9[89]|^Y32|^Y03|^Y020|^X82|^X810

Other Indicators

Respiratory Failure

R06.81	Apnea, not elsewhere classified
J96.0, J96.9	Acute respiratory failure, Respiratory failure, unspecified

REGEX: ^R0681|^J96[09]

Altered Mental Status

R41.82	Altered mental status, unspecified
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REGEX: ^R4182