EMS Primary Impression Groupings

In EMS documentation, the primary impression represents the EMS personnel's impression of the patient's primary problem or most significant condition which led to the management given to the patient (treatments, medications, or procedures). The primary impression is analogous to a primary diagnosis and is used to group/classify EMS calls.

Notes about using these groupings:
1. Search the primary impression field (eSituation.11) of the EMS record for an included ICD-10-CM code
2. These groups are mutually exclusive
3. If a truncated code is listed, the truncated code and all sub-codes are included

Abdominal & Digestive/Gastrointestinal (GI)

R10-R19	Symptoms and signs involving the digestive system and abdomen
K00-K90, K92-K95	Diseases of the digestive system
ITICD.052	Flank pain (ImageTrend Value, not ICD10CM)

REGEX: ^R1|^K(?!91)\d+|^ITICD052

Abuse/Neglect/Assault

T74	Adult and child abuse, neglect and other maltreatment, confirmed
T76	Adult and child abuse, neglect and other maltreatment, suspected
T35-T50 with intent character 3	Assault Poisoning by, adverse effect of and underdosing of drugs, medicaments and biological substances
T51-T65 with intent character 3	Assault Toxic effects of substances chiefly nonmedicinal as to source

REGEX: ^T7[46]|
((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])

Alcohol, Drug, or Other Substance Exposure

ITICD047	Overdose/drug ingestion (ImageTrend value, not ICD10CM)
F10-F19	Mental and behavioral disorders due to psychoactive substance use
T36-T50 with intent character 1,4,5,6 Or truncated codes	Unintentional, Undetermined intent, Adverse Effect, underdosing Poisoning by, adverse effect of and underdosing of drugs, medicaments and biological substances
T51-T62, T64-T65 with intent character 1,4 Or truncated codes	Unintentional, Undetermined intent Toxic effects of substances chiefly nonmedicinal as to source (excluding contact with venomous animals and plants)

REGEX: ^ITICD047|^F1\d|
(T3[679]9|T414|T427|T4[3579]9)[1456]|(?!(T3[679]9|T414|T427|T4[3579]9))(T3[6-9]|T4[0-9]|T50)..[1456]|
((T3[679]9|T414|T427|T4[3579]9)$|(?!(T3[679]9|T414|T427|T4[3579]9))(T3[6-9]|T4[0-9]|T50).{0,2}$)|
(((T5[1-46-9]|T6[0-25])9|(T58|T61)[01]|T64[08])[1456]|(?!((T5[1-46-9]|T6[0-25])9|(T58|T61)[01]|T64[08]))(T5[1-9]|T6[0-245])..[1456])|
(((T5[1-46-9]|T6[0-35])9|(T58|T61)[01]|T64[08])$|(?!((T5[1-46-9]|T6[0-35])9|(T58|T61)[01]|T64[08]))(T5[1-9]|T6[0-5]).{0,2}$)

Blood Related

D50-D77, D80-D89	Diseases of the blood and blood-forming organs and certain disorders involving the immune mechanism
Z79.0	Long term (current) use of anticoagulants and antithrombotics/antiplatelets

REGEX: ^D[568]\d|^D7[0-7]|^Z790

Burn/Corrosion

T20-T28, T30-T32	Burns and corrosions
L55	Sunburn

REGEX: ^T2\d|^T3[0-2]|^L55

Cancer/Neoplasms

C00-D49	Neoplasms
R97	Abnormal tumor markers

REGEX: ^C\d|^D[0-4]|^R97

Cardiovascular/Circulatory

I00-I5A, I70-I96, I98-I99	Diseases of the circulatory system
R00-R03	Abnormalities of heart beat, Cardiac murmurs and other cardiac sounds, Abnormal blood-pressure reading without diagnosis
Z95	Presence of cardiac and vascular implants and grafts
R07.9	Chest Pain, Unspecified

REGEX: ^I[0-578]\w|^I9[0-689]|^R0[0-3]|^Z95|^R079

Complications of Surgical and Medical Care

T80-T88	Complications of surgical and medical care, not elsewhere classified
G89.18	Other acute postprocedural pain
D78	Intraoperative and postprocedural complications of the spleen
E89	Postprocedural endocrine and metabolic complications and disorders, not elsewhere classified
G97	Intraoperative and postprocedural complications and disorders of nervous system, not elsewhere classified
H59	Intraoperative and postprocedural complications and disorders of eye and adnexa, not elsewhere classified
H95	Intraoperative and postprocedural complications and disorders of ear and mastoid process, not elsewhere classified
I97	Intraoperative and postprocedural complications and disorders of circulatory system, not elsewhere classified
J95	Intraoperative and postprocedural complications and disorders of respiratory system, not elsewhere classified
K91	Intraoperative and postprocedural complications and disorders of digestive system, not elsewhere classified
L76	Intraoperative and postprocedural complications of skin and subcutaneous tissue
M96	Intraoperative and postprocedural complications and disorders of musculoskeletal system, not elsewhere classified
N99	Intraoperative and postprocedural complications and disorders of genitourinary system, not elsewhere classified

REGEX: ^T8[0-8]|^G8918|^D78|^E89|^G97|^H59|^H95|^I97|^J95|^K91|^L76|^M96|^N99

Dependence/Mobility

Z74	Problems related to care provider dependency
Z99	Dependence on enabling machines and devices, not elsewhere classified
Z91.81	History of Falling
R54	Age-related physical debility

REGEX: ^Z74|^Z99|^Z9181|^R54

Endocrine, nutritional and metabolic

E00-E88	Endocrine, nutritional and metabolic diseases
R73	Elevated blood glucose level

REGEX: ^E[0-7].|^E8[0-8]|^R73

Environment

T33-T34	Frostbite
T63 with intent character 1,4 Or truncated codes	Unintentional, undetermined intent Toxic effect of contact with venomous animals and plants
T66-T70, T73, T75	Radiation sickness, Effects of heat and light, Hypothermia, Other effects of reduced temperature, Effects of air pressure and water pressure, Effects of other deprivation, Effects of lightning, drowning, vibration, motion sickness, electrocution and other external causes
T78	Anaphylactic shock and allergic reactions, Other adverse effects, not elsewhere classified
Z77	Other contact with and (suspected) exposures hazardous to health

REGEX: ^T3[34]|^T6[6-9]|^T7[0358]|^Z77|^T639[14]|(?!T639)T63..[14]|T63.?$

Eye & Ear

H00-H58	Diseases of the eye and adnexa
H60-H94	Diseases of the ear and mastoid process

REGEX: ^H[0-46-8].|^H5[0-8]|^H9[0-4]

Genetic

Q00-Q99	Congenital malformations, deformations and chromosomal abnormalities
Z87.7	Personal history of (corrected) congenital malformations

REGEX: ^Q..|^Z877

Genitourinary

N00-N98	Diseases of the genitourinary system
R30-R39	Symptoms and signs involving the genitourinary system
R80-R82	Abnormal findings on examination of urine, without diagnosis

REGEX: ^N[0-8].|^N9[0-8]|^R3.|^R8[0-2]

Illness, Fever, Infectious Diseases

A00-B99	Certain infectious and parasitic diseases
R50	Fever of other and unknown origin
R59	Enlarged lymph nodes
R65	Symptoms and signs specifically associated with systemic inflammation and infection
R69	Illness, unspecified
U071, Z20.828, Z20.822, Z20.9, Z86.16	COVID-19 related

REGEX: ^[AB]..|^R5[09]|^R6[59]|^Z2[012]|^U071|^Z8616

Injury

S00-S99	Injuries
G89.11	Acute pain due to trauma
R58	Hemorrhage, not elsewhere classified Hemorrhage due to trauma
T07	Injuries involving multiple body regions
T14 (excluding T14.91)	Injury of unspecified body region
T71	Asphyxiation
T79	Certain early complications of trauma
Z89	Acquired absence of limb
T15-T19	Effects of foreign body entering through natural orifice

REGEX: ^S..|^G8911|^R58|^T07|^T14(?!91).*|^T7[19]|^Z89|^T1[5-9]

Malaise

R53	Malaise and fatigue

REGEX: ^R53

Mental Health/Behavioral

T14.91	Suicide Attempt
Z73	Problems related to life management difficulty
F01-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 Symptoms and signs involving emotional state Symptoms and signs involving appearance and behavior
T36-T50 with intent character 2	Intentional self harm Poisoning by, adverse effect of and underdosing of drugs, medicaments and biological substances
T51 -T65 with intent character 2	intentional self harm Toxic effects of substances chiefly nonmedicinal as to source

REGEX: ^T1491|^Z73|^F[02-9]\d|^R4[4-6]|
((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])

Musculoskeletal and connective tissue

M00-M99 (excluding M96, M25.5, M54, M79.(1,2,6,7))	Diseases of the musculoskeletal system and connective tissue (excluding codes included in complications of med/surg care and pain)

REGEX: ^M(?!96|255|54|79[1267])\d+

Neurological and Level of Consciousness

I60-I69	Cerebrovascular diseases
R25-R29	Symptoms and signs involving the nervous and musculoskeletal systems
R40-R43	Somnolence, stupor and coma
	Other symptoms and signs involving cognitive functions and awareness
	Dizziness and giddiness
	Disturbances of smell and taste
R47	Speech disturbances, not elsewhere classified
R51, R55, R56	Headache
	Syncope and collapse
	Convulsions, not elsewhere classified
G00-G83, G90-G96, G98-G99	Diseases of the nervous system (excluding Pain NEC)
Z82.3	Family History of Stroke

REGEX: ^I6[0-9]|^R2[5-9]|^R4[0-378]|^R5[156]|^G[0-7]\d|^G8[0-3]|^G9[0-689]|^Z823

Observation/Exam

Z00-Z13	Persons encountering health services for examinations
Z23, Z28, Z29	Immunization, Prophylaxis
Z71.1	Person with feared health complaint in whom no diagnosis is made
Z51.89	Encounter for other specified aftercare

REGEX: ^Z0.|^Z1[0-3]|^Z2[389]|^Z711|^Z5189

Obstetric

O00-O9A	Pregnancy, childbirth and the puerperium (includes obstetric trauma)
P00-P96	Certain conditions originating in the perinatal period
Z30-Z39	Persons encountering health services in circumstances related to reproduction

REGEX: ^O..|^P..|^Z3.

Obvious Death

R99	Ill-defined and unknown cause of mortality

REGEX: ^R99

Pain

G89 (except G89.11 And G89.18)	Pain, not elsewhere classified
R52	Pain, unspecified
M25.5	Pain in Joint
R07(.0, .1, .2, .8)	Pain in throat, Chest pain on breathing, Precordial pain, Other chest pain- Pain - Chest (presumed non-cardiac)
R07 truncated code	
M54	Dorsalgia
M79.1, M79.2, M79.6, M79.7	Myalgia, Neuralgia, Pain in limb, hand, foot, fingers and toes, Fibromyalgia

REGEX: (?!(G891[18]))(^G89)|^R52|^M255|^M54|^M79[1267]|^R07[^9]|^R07$

Respiratory

R04-R06, R09	Hemorrhage from respiratory passages, Cough, Abnormalities of breathing, Other symptoms and signs involving the circulatory and respiratory system
J00-J94, J96-J99	Diseases of the respiratory system

REGEX: ^R0[4-69]|^R49|^J[0-8]|^J9[0-46-9]

Shock

R57	Shock, not elsewhere classified

REGEX: ^R57

Skin and subcutaneous tissue

L00-L54, L56-L75, L80-L99	Diseases of the skin and subcutaneous tissue
R20-R23	Symptoms and signs involving the skin and subcutaneous tissue

REGEX: ^L[0-4689].|^L5[0-46-9]|^L7[0-5]|^R2[0-3]

Unspecific symptoms

R60	Edema, not elsewhere classified
R61	Generalized hyperhidrosis
R62	Lack of expected normal physiological development in childhood and adults
R63	Symptoms and signs concerning food and fluid intake
R64	Cachexia
R68	Other general symptoms and signs

REGEX: ^R6[0-48]

Excluded from eSituation.11 by the NEMSIS data standard

R70-R99 excluding R73, R80-R82, R97, R99	Edema, not elsewhere classified
U00-Y99 excluding U07.1	Generalized hyperhidrosis

REGEX: ?!(R73|R9[79]|R8[0-2]))(^R[7-9]\d)|(?!(U071))(^[U-Y]\d)