

SUBSTANCE RELATED DISORDERS

Includes Substance Abuse, Substance Abuse in Remission and Substance Dependence; Does Not Include Substance Use Disorders and Tobacco Use Disorders. For Alcohol Related Disorders, see condition specific case definition.

Background

This case definition was developed by the Armed Forces Health Surveillance Division (AFHSD) for the purpose of descriptive epidemiological reports on mental disorders and mental health problems among active duty Service members.¹ The reports provide a comprehensive look at the status of mental health in the Services and provide in depth information on numbers, rates, and trends of substance related disorders and other mental health diagnoses.

Clinical Description

Substance *abuse* is a maladaptive pattern of substance use leading to clinically significant impairment or distress. The abuse is usually manifested by one or more of the following, occurring within a 12-month period: recurrent substance use resulting in a failure to fulfill major role obligations, use in situations that are physically hazardous, substance-related legal problems, and continued substance use despite persistent or recurrent social and interpersonal problems caused or exacerbated by the effects of the substance.

Substance *dependence* is a maladaptive pattern of substance abuse leading to clinically significant impairment, distress, and hardship. There is a pattern of repeated substance use that often results in tolerance, withdrawal, and compulsive substance use behavior. There are persistent desires and unsuccessful efforts to cut down or control use, and a great deal of time is spent in activities necessary to obtain the substance, use the substance, or recover from its effects. Denial of a substance abuse related problem is an inherent component of dependence.²

Case Definition and Incidence Rules

For surveillance purposes, a case of a substance related disorder is defined as:

- *One hospitalization* with a case defining diagnosis of a substance use disorder (see ICD9 and ICD10 code lists below) in the *first or second* diagnostic position; or
- *Two outpatient or Theater Medical Data Store (TMDS) medical encounters*, within 180 days of each other, with a case defining diagnosis of a substance use disorder (see ICD9 and ICD10 code lists below) in the *first or second* diagnostic position; or
- *One outpatient medical encounter in a psychiatric or mental health care specialty setting*, defined by Medical Expense and Performance Reporting System (MEPRS) code BF, with a case defining diagnosis of a substance use disorder (see ICD9 and ICD10 code lists below) in the *first or second* diagnostic position.

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¹ Armed Forces Health Surveillance Division. Mental health disorders and mental health problems, active component, U.S. Armed Forces, 2016-2020. *Medical Surveillance Monthly Report (MSMR)*. August 2021; Vol. 28 (8): 2-9.

² American Psychiatric Association. Adjustment Disorders. *Diagnostic and Statistical Manual of Mental Disorders, Fifth Edition (DSM-5)*. Arlington, VA: 2013.



Case Definition and Incidence Rules *(continued)*

Incidence rules:

For individuals who meet the case definition:

- The incidence date is considered the date of the first hospitalization or outpatient medical encounter that includes a case defining diagnosis of a substance use disorder.
- An individual is considered an incident case *once per lifetime*.

Exclusions:

- None

Codes

The following ICD9 and ICD10 codes are included in the case definition:

Substance Abuse

Condition	ICD-10-CM Codes	ICD-9-CM Codes
Opioid abuse	<i>F11.1 (opioid abuse...)</i>	<i>305.5 (opioid abuse...)</i>
	F11.10 (uncomplicated)	- 305.50 (unspecified) - 305.51 (continuous) - 305.52 (episodic)
	F11.11 (in remission); <i>added 2022</i>	- 305.53 (in remission)
	F11.12 (opioid abuse, with intoxication...)	<i>Translation does not yield exact match. Multiple ICD9 codes are required to identify condition</i>
	- F11.120 (uncomplicated)	
	- F11.121 (with delirium)	
	- F11.122 (with perceptual disturbance)	
	- F11.129 (unspecified)	
	F11.13 (opioid abuse with withdrawal); <i>new 2021</i>	
	F11.14 (opioid abuse with opioid-induced mood disorder)	
	F11.15 (opioid abuse with opioid-induced psychotic disorder...)	
	- F11.150 (with delusions)	
	- F11.151 (with hallucinations)	
		<i>(continued on next page)</i>



	- F11.159 (unspecified)	
	F11.18 (opioid abuse with other opioid-induced disorder...)	<i>Translation does not yield exact match. Multiple ICD9 codes are required to identify condition.</i>
	- F11.181 (with opioid induced sexual dysfunction)	
	- F11.182 (with opioid-induced sleep disorder)	
	- F11.188 (with other opioid-induced disorder)	
	F11.19 (opioid abuse with unspecified opioid-induced disorder)	

Condition	ICD-10-CM Codes	ICD-9-CM Codes
Cannabis abuse	F12.1 (cannabis abuse...)	305.2 (cannabis abuse...)
	F12.10 (uncomplicated)	- 305.20 (unspecified) - 305.21 (continuous) - 305.22 (episodic)
	F12.11 (in remission); <i>added 2022</i>	- 305.23 (in remission)
	F12.12 (cannabis abuse with intoxication...)	<i>Translation does not yield exact match. Multiple ICD9 codes are required to identify condition.</i>
	- F12.120 (uncomplicated)	
	- F12.121 (with delirium)	
	- F12.122 (with perceptual disturbance)	
	- F12.129 (unspecified)	
	F12.13 (cannabis abuse with withdrawal); <i>new 2021</i>	
	F12.15 (cannabis abuse with psychotic disorder...)	
	- F12.150 (with delusions)	
	- F12.151 (with hallucinations)	
	- F12.159 (unspecified)	
	F12.18 (cannabis abuse with other cannabis-induced disorder...)	
	- F12.180 (with cannabis-induced anxiety disorder)	
	- F12.188 (with other cannabis-induced disorder)	
	F12.19 (cannabis abuse with unspecified cannabis-induced disorder)	<i>(continued on next page)</i>



Condition	ICD-10-CM Codes	ICD-9-CM Codes
Sedative, hypnotic or anxiolytic abuse	<i>F13.1 (sedative, hypnotic or anxiolytic-related abuse)</i>	<i>305.4 (sedative, hypnotic or anxiolytic abuse...)</i>
	F13.10 (uncomplicated)	- 305.40 (unspecified) - 305.41 (continuous) - 305.42 (episodic)
	F13.11 (in remission); <i>added 2022</i>	305.43 (in remission)
	F13.12 (sedative, hypnotic or anxiolytic abuse with intoxication...)	<i>Translation does not yield exact match. Multiple ICD9 codes are required to identify condition.</i>
	- F13.120 (uncomplicated)	
	- F13.121 (with delirium)	
	- F13.129 (unspecified)	
	F13.13 (sedative, hypnotic or anxiolytic abuse with withdrawal...); <i>new 2021</i>	
	- F13.130 (uncomplicated)	
	- F13.131 (with delirium)	
	- F13.132 (with perceptual disturbance)	
	- F13.139 (unspecified)	
	F13.14 (sedative, hypnotic or anxiolytic abuse with sedative, hypnotic or anxiolytic mood disorder)	
	F13.15 (sedative, hypnotic or anxiolytic abuse with sedative, hypnotic or anxiolytic psychotic disorder)	
	- F13.150 (with delusions)	
	- F13.151 (with hallucinations)	
	- F13.159 (unspecified)	
	F13.18 (sedative, hypnotic or anxiolytic abuse with other sedative, hypnotic or anxiolytic-induced disorders...)	
	- F13.180 (with sedative, hypnotic or anxiolytic-induced anxiety disorder)	
	- F13.181 (with sedative, hypnotic or anxiolytic-induced sexual dysfunction)	
- F13.182 (with sedative, hypnotic or anxiolytic-induced sleep disorder)		
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	- F13.188 (with other sedative, hypnotic or anxiolytic-induced disorder)	
	F13.19 (sedative, hypnotic or anxiolytic abuse with unspecified sedative, hypnotic or anxiolytic-induced disorder)	<i>Translation does not yield exact match. Multiple ICD9 codes are required to identify condition.</i>

Condition	ICD-10-CM Codes	ICD-9-CM Codes
Cocaine abuse	<i>F14.1 (cocaine abuse...)</i>	<i>305.6 (cocaine abuse...)</i>
	F14.10 (uncomplicated)	- 305.60 (unspecified) - 305.61 (continuous) - 305.62 (episodic)
	F14.11 (in remission); <i>added 2022</i>	- 305.63 (in remission)
	F14.12 (cocaine abuse with intoxication...)	<i>Translation does not yield exact match. Multiple ICD9 codes are required to identify condition.</i>
	- F14.120 (uncomplicated)	
	- F14.121 (with delirium)	
	- F14.122 (with perceptual disturbance)	
	- F14.129 (unspecified)	
	F14.13 (cocaine abuse, unspecified with withdrawal); <i>new 2021</i>	
	F14.14 (cocaine abuse with cocaine-induced mood disorder)	
	F14.15 (cocaine abuse with cocaine-induced psychotic disorder...)	
	- F14.150 (with delusions)	
	- F14.151 (with hallucinations)	
	- F14.159 (unspecified)	
	F14.18 (cocaine abuse with other cocaine-induced disorder...)	
	- F14.180 (with cocaine-induced anxiety disorder)	
	- F14.181 (with cocaine-induced sexual dysfunction)	
	- F14.182 (with cocaine induced sleep disorder)	
	- F14.188 (with other cocaine-induced disorder)	
	F14.19 (cocaine abuse with unspecified cocaine-induced disorder)	



Condition	ICD-10-CM Codes	ICD-9-CM Codes
Other stimulant abuse	F15.1 (other stimulant abuse...)	305.7 (amphetamine or related acting sympathomimetic abuse...)
	F15.10 (uncomplicated)	- 305.70 (unspecified) - 305.71 (continuous) - 305.72 (episodic)
	F15.11 (in remission); <i>added 2022</i>	- 305.73 (in remission)
	F15.12 (other stimulant abuse with intoxication...)	<i>Translation does not yield exact match. Multiple ICD9 codes are required to identify condition.</i>
	- F15.120 (uncomplicated)	
	- F15.121 (with delirium)	
	- F15.122 (with perceptual disturbance)	
	- F15.129 (unspecified)	
	F15.13 (other stimulant abuse with withdrawal); <i>new 2021</i>	
	F15.14 (other stimulant abuse with stimulant-induced mood disorder)	
	F15.15 (other stimulant abuse with stimulant-induced psychotic disorder...)	
	- F15.150 (with delusions)	
	- F15.151 (with hallucinations)	
	- F15.159 (unspecified)	
	F15.18 (other stimulant abuse with other stimulant-induced disorder...)	
	- F15.180 (with stimulant-induced anxiety disorder)	
	- F15.181 (with stimulant-induced sexual dysfunction)	
	- F15.182 (with stimulant induced sleep disorder)	
	- F15.188 (with other stimulant-induced disorder)	
	F15.19 (other stimulant abuse with unspecified stimulant-induced disorder)	

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Condition	ICD-10-CM Codes	ICD-9-CM Codes
Hallucinogen abuse	<i>F16.1 (hallucinogen abuse...)</i>	<i>305.3 (hallucinogen abuse...)</i>
	F16.10 (uncomplicated)	- 305.30 (unspecified) - 305.31 (continuous) - 305.32 (episodic)
	F16.11 (in remission); <i>added 2022</i>	- 305.33 (in remission)
	F16.12 (hallucinogen abuse with intoxication...)	<i>Translation does not yield exact match. Multiple ICD9 codes are required to identify condition.</i>
	- F16.120 (uncomplicated)	
	- F16.121 (with delirium)	
	- F16.122 (with perceptual disturbance)	
	- F16.129 (unspecified)	
	F16.14 (hallucinogen abuse with hallucinogen-induced mood disorder)	
	F16.15 (hallucinogen abuse with hallucinogen-induced psychotic disorder...)	
	- F16.150 (with hallucinogen-induced psychotic disorder with delusions)	
	- F16.151 (with hallucinogen-induced psychotic disorder with hallucinations)	
	- F16.159 (with hallucinogen-induced psychotic disorder; unspecified)	
	F16.18 (hallucinogen abuse with other hallucinogen-induced disorder...)	
	- F16.180 (with hallucinogen-induced anxiety disorder)	
	- F16.183 (with hallucinogen persisting perception disorder)	
- F16.188 (with other hallucinogen-induced disorder)		
F16.19 (hallucinogen abuse with unspecified hallucinogen-induced disorder)		

Condition	ICD-10-CM Codes	ICD-9-CM Codes
Inhalant abuse	<i>F18.1 (inhalant abuse...)</i>	<i>305.9 (other, mixed, or unspecified drug abuse...)</i>
	F18.10 (uncomplicated)	- 305.90 (unspecified) - 305.91 (continuous) <i>(continued on next page)</i>



		- 305.92 (episodic)
	F18.11 (in remission); <i>added 2022</i>	- 305.93 (in remission)
	F18.12 (inhalant abuse with intoxication...)	<i>Translation does not yield exact match. Multiple ICD9 codes are required to identify condition</i>
	- F18.120 (uncomplicated)	
	- F18.121 (with delirium)	
	- F18.129 (unspecified)	
	F18.14 (inhalant abuse with inhalant -induced mood disorder)	
	F18.15 (inhalant abuse with inhalant -induced psychotic disorder...)	
	- F18.150 (with delusions)	
	- F18.151 (with hallucinations)	
	- F18.159 (unspecified)	
	F18.17 (inhalant abuse with inhalant-induced dementia)	
	F18.18 (inhalant abuse with other inhalant - induced disorder...)	
	- F18.180 (with other inhalant-induced anxiety disorder)	
	- F18.188 (with other inhalant-induced disorder)	
	F18.19 (inhalant abuse with unspecified inhalant-induced disorder)	

Condition	ICD-10-CM Codes	ICD-9-CM Codes
Other psychoactive substance abuse	<i>F19.1 (other psychoactive substance abuse...)</i>	305.8 (antidepressant type abuse...)
	F19.10 (uncomplicated)	- 305.80 (unspecified) - 305.81 (continuous) - 305.82 (episodic)
	F19.11 (in remission); <i>added 2022</i>	- 305.83 (in remission)
	F19.12 (other psychoactive substance abuse with intoxication...)	<i>Translation does not yield exact match. Multiple ICD9 codes are required to identify condition.</i>
	- F19.120 (uncomplicated)	
	- F19.121 (with delirium)	
	- F19.122 (with perceptual disturbance)	
	- F19.129 (with intoxication; unspecified)	
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F19.13 (other psychoactive substance abuse with withdrawal...); <i>new 2021</i>	<i>Translation does not yield exact match. Multiple ICD9 codes are required to identify condition.</i>
- F19.130 (uncomplicated)	
- F19.131 (with delirium)	
- F19.132 (with perceptual disturbance)	
- F19.139 (unspecified)	
F19.14 (other psychoactive substance abuse with psychoactive substance-induced mood disorder)	
F19.15 (other psychoactive substance abuse with other psychoactive substance -induced psychotic disorder...)	
- F19.150 (with delusions)	
- F19.151 (with hallucinations)	
- F19.159 (unspecified)	
F19.16 (other psychoactive substance abuse with psychoactive substance-induced persisting amnesic disorder)	
F19.17 (other psychoactive substance abuse with psychoactive substance-induced persisting dementia)	
F19.18 (other psychoactive substance abuse with other psychoactive substance-induced disorder...)	
- F19.180 (with psychoactive substance-induced anxiety disorder)	
- F19.181 (with psychoactive substance-induced sexual dysfunction)	
- F19.182 (with psychoactive substance - induced sleep disorder)	
- F19.188 (with other psychoactive substance-induced disorder)	
F19.19 (other psychoactive substance abuse with unspecified psychoactive substance -induced disorder)	

Substance Dependence

Condition	ICD-10-CM Codes	ICD-9-CM Codes
Opioid dependence	<i>F11.2 (opioid dependence...)</i>	<i>304.0 (opioid type dependence...)</i> <i>(continued on next page)</i>



- F11.20 (uncomplicated)	- 304.00 (unspecified) - 304.01 (continuous) - 304.02 (episodic)
- F11.21 (in remission)	- 304.03 (in remission)
F11.22 (opioid dependence with intoxication...)	<i>Translation does not yield exact match. Multiple ICD9 codes are required to identify condition.</i>
- F11.220 (uncomplicated)	
- F11.221 (with delirium)	
- F11.222 (with perpetual disturbance)	
- F11.229 (unspecified)	
F11.23 (with withdrawal)	
F11.24 (with opioid-induced mood disorder)	
F11.25 (opioid dependence with opioid-induced psychotic disorder...)	
- F11.250 (with delusions)	
- F11.251 (with hallucinations)	
- F11.259 (unspecified)	
F11.28 (opioid dependence with other opioid-induced disorder)	
- F11.281 (with opioid-induced sexual dysfunction)	
- F11.282 (with opioid-induced sleep disorder)	
- F11.288 (with other opioid-induced disorder)	
F11.29 (opioid dependence with unspecified opioid-induced disorder)	

Condition	ICD-10-CM Codes	ICD-9-CM Codes
Cannabis dependence	<i>F12.2 (cannabis dependence...)</i>	<i>304.3 (cannabis dependence...)</i>
	- F12.20 (uncomplicated)	- 304.30 (unspecified) - 304.31 (continuous) - 304.32 (episodic)
	- F12.21 (in remission)	- 304.33 (in remission)
	F12.22 (cannabis dependence with intoxication...)	<i>Translation does not yield exact match. Multiple ICD9 codes are required to identify condition.</i>
	- F12.220 (uncomplicated)	



- F12.221 (with delirium)	
- F12.222 (with perceptual disturbance)	
- F12.229 (unspecified)	
F12.23 (with withdrawal)	
F12.25 (cannabis dependence with psychotic disorder...)	
- F12.250 (with delusions)	
- F12.251 (with hallucinations)	
- F12.259 (unspecified)	
F12.28 (cannabis dependence with other cannabis-induced disorder)	
- F12.280 (with cannabis-induced anxiety disorder)	
- F12.288 (with other cannabis-induced disorder)	
F12.29 (with unspecified cannabis-induced disorder)	

Condition	ICD-10-CM Codes	ICD-9-CM Codes
Sedative, hypnotic or anxiolytic dependence	<i>F13.2 (sedative, hypnotic or anxiolytic-related dependence...)</i>	<i>304.1 (sedative, hypnotic or anxiolytic dependence...)</i>
	F13.20 (uncomplicated)	- 304.10 (unspecified) - 304.11 (continuous) - 304.12 (episodic)
	F13.21 (in remission)	- 304.13 (in remission)
	F13.22 (sedative, hypnotic or anxiolytic dependence with intoxication...)	<i>Translation does not yield exact match. Multiple ICD9 codes are required to identify condition.</i>
	- F13.220 (uncomplicated)	
	- F13.221 (with delirium)	
	- F13.229 (unspecified)	
	F13.23 (sedative, hypnotic or anxiolytic dependence with withdrawal...)	
	- F13.230 (uncomplicated)	
	- F13.231 (with delirium)	
	- F13.232 (with perceptual disturbance)	
	- F13.239 (unspecified)	



F13.24 (sedative, hypnotic or anxiolytic dependence with sedative, hypnotic or anxiolytic-induced mood disorder)	<i>Translation does not yield exact match. Multiple ICD9 codes are required to identify condition.</i>
F13.25 (sedative, hypnotic or anxiolytic dependence with sedative, hypnotic or anxiolytic-induced psychotic disorder...)	
- F13.250 (with delusions)	
- F13.251 (with hallucinations)	
- F13.259 (unspecified)	
F13.26 (sedative, hypnotic or anxiolytic dependence with sedative, hypnotic or anxiolytic-induced <i>persisting amnesic disorder</i>)	
F13.27 (sedative, hypnotic or anxiolytic dependence with sedative, hypnotic or anxiolytic-induced <i>persisting dementia</i>)	
F13.28 (sedative, hypnotic or anxiolytic dependence with other sedative, hypnotic or anxiolytic-induced disorder...)	
- F13.280 (or anxiolytic-induced anxiety disorder)	
- F13.281 (or anxiolytic-induced sexual dysfunction)	
- F13.282 (or anxiolytic-induced sleep disorder)	
- F13.288 (or anxiolytic-induced disorder)	
F13.29 (sedative, hypnotic or anxiolytic dependence with <i>unspecified</i> sedative, hypnotic or anxiolytic-induced disorder)	

Condition	ICD-10-CM Codes	ICD-9-CM Codes
Cocaine dependence	<i>F14.2 (cocaine dependence...)</i>	<i>304.2 (cocaine dependence...)</i>
	F14.20 (uncomplicated)	- 304.20 (unspecified) - 304.21 (continuous) - 304.22 (episodic)
	F14.21 (in remission)	- 304.23 (in remission)
	F14.22 (cocaine dependence with intoxication...)	<i>Translation does not yield exact match. Multiple ICD9 codes are required to identify condition.</i>
	- F14.220 (uncomplicated)	
	- F14.221 (with delirium)	
	- F14.222 (with perceptual disturbance)	
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- F14.229 (unspecified)	
F14.23 (cocaine dependence with withdrawal)	
F14.24 (cocaine dependence with cocaine - induced mood disorder)	
F14.25 (cocaine dependence with cocaine-induced psychotic disorder...)	
- F14.250 (with delusions)	
- F14.251 (with hallucinations)	
- F14.259 (unspecified)	
F14.28 (cocaine dependence with other cocaine-induced disorder...)	
- F14.280 (with cocaine-induced anxiety disorder)	
- F14.281 (with cocaine-induced sexual dysfunction)	
- F14.282 (with cocaine-induced sleep disorder)	
- F14.288 (with other cocaine-induced disorder)	
F14.29 (cocaine dependence with unspecified cocaine-induced disorder)	

Condition	ICD-10-CM Codes	ICD-9-CM Codes
Other stimulant dependence	<i>F15.2 (other stimulant dependence...)</i>	<i>304.4 (amphetamine and other psychostimulant dependence...)</i>
	F15.20 (uncomplicated)	- 304.40 (unspecified) - 304.41 (continuous) - 304.42 (episodic)
	F15.21 (in remission)	- 304.43 (in remission)
	F15.22 (other stimulant dependence with intoxication...)	<i>Translation does not yield exact match. Multiple ICD9 codes are required to identify condition.</i>
	- F15.220 (uncomplicated)	
	- F15.221 (with delirium)	
	- F15.222 (with perceptual disturbance)	
	- F15.229 (unspecified)	
F15.23 (other stimulant dependence with withdrawal)		
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	F15.24 (other stimulant dependence with stimulant-induced mood disorder)	
	F15.25 (other stimulant dependence with stimulant-induced psychotic disorder...)	
	- F15.250 (with delusions)	
	- F15.251 (with hallucinations)	
	- F15.259 (unspecified)	
	F15.28 (other stimulant dependence with stimulant-induced disorder...)	
	- F15.280 (with stimulant-induced anxiety disorder)	
	- F15.281 (with stimulant-induced sexual dysfunction)	
	- F15.282 (with stimulant-induced sleep disorder)	
	- F15.288 (with other stimulant-induced disorder)	
	F15.29 (other stimulant dependence with unspecified stimulant-induced disorder)	

Condition	ICD-10-CM Codes	ICD-9-CM Codes
Hallucinogen dependence	F16.2 (hallucinogen dependence)	304.5 (hallucinogen dependence...)
	F16.20 (uncomplicated)	- 304.50 (unspecified) - 304.51 (continuous) - 304.52 (episodic)
	F16.21 (in remission)	- 304.53 (in remission)
	F16.22 (hallucinogen dependence with intoxication...)	<i>Translation does not yield exact match. Multiple ICD9 codes are required to identify condition.</i>
	- F16.220 (uncomplicated)	
	- F16.221 (with delirium)	
	- F16.229 (unspecified)	
	F16.24 (hallucinogen dependence with intoxication with hallucinogen-induced mood disorder)	
	F16.25 (hallucinogen dependence with hallucinogen-induced psychotic disorder...)	
	- F16.250 (with delusions)	
- F16.251 (with hallucinations)		

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- F16.259 (unspecified)	
F16.28 (hallucinogen dependence with other hallucinogen-induced disorder...)	
- F16.280 (with hallucinogen-induced anxiety disorder)	
- F16.283 (with hallucinogen persisting perception disorder)	
- F16.288 (with other hallucinogen-induced disorder)	
F16.29 (hallucinogen dependence with unspecified hallucinogen-induced disorder)	

Condition	ICD-10-CM Codes	ICD-9-CM Codes
Inhalant dependence	<i>F18.2 (inhalant dependence...)</i>	<i>304.6 (other specified drug dependence)</i>
	F18.20 (uncomplicated)	- 304.60 (unspecified)
	F18.21 (in remission)	- 304.63 (in remission)
	F18.22 (inhalant dependence with intoxication...)	<i>Translation does not yield exact match. Multiple ICD9 codes are required to identify condition.</i>
	- F18.220 (uncomplicated)	
	- F18.221 (with delirium)	
	- F18.229 (unspecified)	
	F18.24 (inhalant dependence with inhalant - induced mood disorder)	
	F18.25 (inhalant dependence with inhalant - induced psychotic disorder...)	
	- F18.250 (with delusions)	
	- F18.251 (with hallucinations)	
	- F18.259 (unspecified)	
	F18.27 (inhalant dependence with inhalant-induced dementia)	
	F18.28 (inhalant dependence with other inhalant-induced disorder...)	
	- F18.280 (with inhalant-induced anxiety disorder)	
	- F18.288 (with other inhalant-induced disorder)	
F18.29 (inhalant dependence with unspecified inhalant-induced disorder)		

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Condition	ICD-10-CM Codes	ICD-9-CM Codes
Other psychoactive substances dependence	F19.2 (other psychoactive substance dependence...)	304.7 (combinations of opioid type drug with any other drug dependence...) - 304.70 (unspecified) - 304.71 (continuous) - 304.72 (episodic)
		304.8 (combinations of drug dependence excluding opioid type drug...) - 304.80 (unspecified) - 304.81 (continuous) - 304.82 (episodic) 304.9 (unspecified drug dependence...) - 304.90 (unspecified) - 304.91 (continuous) - 304.92 (episodic)
	F19.20 (uncomplicated)	- 304.60 (above) - 304.61 (continuous) - 304.62 (episodic)
	F19.21 (in remission)	- 304.63 (other specified drug dependence; in remission) - 304.73 (combinations of opioid type drug with any other drug dependence; in remission) - 304.83 (combinations of drug dependence excluding opioid type drug; in remission) - 304.93 (unspecified drug dependence; in remission)
	F19.22 (other psychoactive substance dependence with intoxication...)	Translation does not yield exact match. Multiple ICD9 codes are required to identify condition.
	- F19.220 (uncomplicated)	
	- F19.221 (with delirium)	
	- F19.222 (with perceptual disturbance)	
	- F19.229 (unspecified)	
	F19.23 (other psychoactive substance dependence with withdrawal...)	
	- F19.230 (uncomplicated)	
	- F19.231 (with delirium)	



- F19.232 (with perceptual disturbance)	
- F19.239 (unspecified)	
F19.24 (other psychoactive substance dependence with psychoactive substance - induced mood disorder)	
F19.25 (other psychoactive substance dependence with other psychoactive substance-induced psychotic disorder...)	
- F19.250 (with delusions)	
- F19.251 (with hallucinations)	
- F19.259 (unspecified)	
F19.26 (other psychoactive substance dependence with psychoactive substance - induced persisting amnesic disorder)	
F19.27 (other psychoactive substance dependence with psychoactive substance-induced persisting dementia)	
F19.28 (other psychoactive substance dependence with other psychoactive substance-induced disorder...)	
- F19.280 (with psychoactive substance - induced anxiety disorder)	
- F19.281 (with psychoactive substance - induced sexual dysfunction)	
- F19.282 (with psychoactive substance - induced sleep disorder)	
- F19.288 (with other psychoactive substance-induced disorder)	
F19.29 (other psychoactive substance dependence with unspecified psychoactive substance-induced disorder)	

Development and Revisions

- In November 2014 the case definition was updated to include ICD10 codes.
- This case definition was developed in November of 2010 by the Armed Forces Health Surveillance Center (AFHSC) *Medical Surveillance Monthly Report (MSMR)* staff for an article on mental disorders and mental health problems among active duty Service members.¹ The case definition was developed based on reviews of the ICD9 codes, the scientific literature, and previous AFHSC analyses.

Case Definition and Incidence Rule Rationale

- To increase the specificity of the case definition for outpatient encounters, two such encounters with the defining diagnoses are required. The period of 180 days was established to allow for the



likelihood that “true” cases of substance use disorders would have a second encounter within that interval.

- This requirement of two outpatient medical encounters to identify a case may underestimate the incidence and prevalence of substance abuse and dependence because, in the Armed Forces, some affected individuals may purposefully avoid seeking care for their disorders, so estimates of incidence derived from health care encounters will not capture all cases.
- For the purposes of counting new incident cases, AFHSD uses a once per lifetime incidence rule unless a specific timeframe is more appropriate and is specified, (e.g., individuals may be counted as an incident case once every 365 days). Historically, a "once per surveillance period" incidence rule was used due to limited data in the Defense Medical Surveillance System (DMSS), but that is no longer necessary.

Code Set Determination and Rationale:

- In March 2022, new IC10 codes F10.13 [0,1,2,9] (alcohol abuse with withdrawal...) were added to the code set. ICD10 F[11-16, 19].11 (substance abuse, in remission) codes were also added. These codes were inadvertently omitted in previous versions of the code set.
- The code set and groupings of mental health disorder-specific diagnoses used in this case definition are based on code sets developed by Garvey *et al*³ and Seal *et al*.⁴ The final code set was selected after a review of the scientific literature and of the relevant codes in the International Classification of Diseases, 9th and 10th Revisions.
- This case definition groups abuse and dependence together for the purposes of the analyses and reports dealing with all mental disorders. For other analyses focusing on abuse or dependence individually, or on a specific substance, researchers may wish to consider a more sensitive case definition.
- ICD-9 code 305.1 (tobacco use disorder) / ICD10 F17.200 (nicotine dependence, unspecified, uncomplicated) is not included in the code set because this disorder is not associated with the significant impairment, distress, or hardship present in the other disorders in this case definition. Tobacco use is, however, marked by the typical characteristics of dependence and by major risks to the user’s physical health. Investigators may want to consider ICD10 F17 (nicotine dependence); Tobacco use converts to Z72.0 (tobacco use) under category Z72 (problems related to lifestyle).

Reports

The AFHSD reports on substance related disorders in the following reports:

- Periodic *MSMR* articles.
- Annually: *MSMR* article on the “Absolute and relative morbidity burdens attributable to various illnesses and injuries U.S. Armed Forces” (see *Comments* section below).

³ Garvey Wilson A, Messer S, Hoge C. U.S. military mental health care utilization and attrition prior to the wars in Iraq and Afghanistan. *Soc Psychiatry Psychiatr Epidemiol*. 2009; 44(6):473-481.

⁴ Seal KH, Bertenthal D, Miner CR, Sen S, Marmar C. Bringing the War Back Home: Mental Health Disorders Among 103 788 US Veterans Returning From Iraq and Afghanistan Seen at Department of Veterans Affairs Facilities. *Arch Intern Med*. March 12, 2007; 167(5):476-482.



- Quarterly: AFHSD Mental Health Report for the Department of Defense (Office of the Assistant Secretary of Defense for Health Affairs);⁵ this report describes the incidence rates of, and proportions of the population affected by, major depression, bipolar disorder, alcohol dependence, substance dependence and post-traumatic stress disorder. The case definition and code sets used for this report differ slightly from the case definition for alcohol related disorders documented here.

Review

Feb 2022	Case definition reviewed and updated by the AFHSD Surveillance Methods and Standards (SMS) working group.
Mar 2019	Case definition reviewed and updated by the Armed Forces Health Surveillance Branch (AFHSB) SMS working group.
Jul 2012	Case definition reviewed and adopted by AFHSC SMS working group.
Nov 2010	Case definition developed by the AFHSC <i>MSMR</i> staff.

Comments

Burden of Disease Reports:

The AFHSD articles and reports on the “burden” of illness and injury in the U.S. Armed Forces group all illness and injury-specific diagnoses, defined by ICD9 and ICD10 codes, into 142 burden of disease-related conditions and 25 categories based on a modified version of the classification system developed for the Global Burden of Disease (GBD) Study.⁶ In general, the GBD system groups diagnoses with common pathophysiologic or etiologic bases and/or significant international health policymaking importance.

The AFHSD disaggregates some diagnoses that are grouped into single categories in the GBD system, (e.g., mental disorders), to increase the military relevance of the results. The category of mental health disorders is separated into the following sub-categories of “disorders”: anxiety, substance abuse, adjustment, mood, tobacco dependence, psychotic, personality, somatoform, and all other mental disorders.⁷

Because reports on disease burden are based on the total numbers of medical encounters for specific conditions, a slightly different case definition is used for burden analyses. The case definition requires capturing only the diagnosis in the primary (first) diagnostic position of each record of an inpatient or outpatient medical encounter. Each individual is allowed only one medical encounter per condition per day, and inpatient encounters are prioritized over outpatient encounters on the same day. Case defining codes are any ICD9 codes between 001 and 999, any ICD10 codes between A00 and T88, ICD10 codes beginning with Z37 (outcome of delivery), and DoD unique personal history codes DoD 0101-0105.

Comprehensive AFHSD Mental Health Reports:

For analyses and reports requiring data on *all* mental disorders, AFHSD includes *all* mental health diagnoses that fall within the range of ICD9 codes 290-319 / ICD10 codes F01-F99 (mental disorders) in the first or second diagnostic position. The following diagnoses are excluded from the analysis.

⁵ Armed Forces Health Surveillance Center. Selected mental health disorders among active component members, U.S. Armed Forces, 2007-2010. *Medical Surveillance Monthly Report (MSMR)*. 2010 November; 17(11): 2-5.

⁶ The global burden of disease: A comprehensive assessment of mortality and disability from diseases, injuries, and risk factors in 1990 and projected to 2020. Murray, CJ and Lopez, AD, eds. Harvard School of Public Health (on behalf of the World Health Organization and The World Bank), 1996:120-2.

⁷ Armed Forces Health Surveillance Division. Absolute and relative morbidity burdens attributable to various illnesses and injuries, active component, *Medical Surveillance Monthly Report (MSMR)*. May 2021; Vol. 28 (5): 2-9.



- ICD9 310.2 / ICD10 F07.81 (post-concussion syndrome)
- ICD9 305.1 / ICD10 F17* (tobacco use disorder / nicotine dependence) is not included as tobacco-cessation efforts are widespread within primary care clinics in the military and this diagnosis is not treated as a mental health disorder.
- ICD9 317*-319* / ICD10 F70-F79 (mental retardation)
- ICD9 315* / ICD10 F80*-F82*, F88-F89 (specific delays in development)
- ICD9 299* / ICD10 F84* (pervasive developmental disorders)

