

## SUBSTANCE RELATED DISORDERS

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

### Background

This case definition was developed by the Armed Forces Health Surveillance Center (AFHSC) Medical Surveillance Monthly Report (MSMR) staff for the purpose of descriptive epidemiological reports on mental disorders and mental health problems among active duty Service members.<sup>1</sup> 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 use disorders and other mental health diagnoses that fall within the range of ICD-9-CM codes 290-319 (mental disorders).

### 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.<sup>2</sup>

### Case Definition and Incidence Rules

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

- *One hospitalization* with any of the defining diagnoses of a substance use disorder (see ICD9 and ICD10 code lists below) in the *first or second* diagnostic position; or
- *Two outpatient medical encounters, within 180 days* of each other, with any of the defining diagnoses 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 any of the defining diagnoses of a substance use disorder (see ICD9 and ICD10 code lists below) in the *first or second* diagnostic position.

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<sup>1</sup> Armed Forces Health Surveillance Center. Mental Disorders and Mental Health Problems, Active Component, U.S. Armed Forces, January 2000 – December 2009. *Medical Surveillance Monthly Report (MSMR)*. 2010 November; Vol.17 (11): 6- 12.

<sup>2</sup> American Psychiatric Association Diagnostic and Statistical Manual of Mental Disorders. Fourth Edition, 1994.



### Case Definition and Incidence Rules (cont.)

#### 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 diagnosis of a substance use disorder.
- An individual is considered an incident case *once per surveillance period*.

#### Exclusions:

- None

### Codes

The following ICD-9 codes are included in the case definition:

#### Drug Dependence

Condition	ICD-10-CM Codes	ICD-9-CM Codes
Opioid dependence	F11.2 (Opioid dependence)	304.0x (opioid type dependence)
	F11.20 (opioid dependence, uncomplicated)	- 304.00 (opioid type dependence; unspecified) - 304.01 (opioid type dependence; continuous) - 304.02 (opioid type dependence, episodic)
	F11.21 (opioid dependence, in remission)	- 304.03 (opioid type dependence; in remission)
	F11.22 (opioid dependence with intoxication)	--
	- F11.220 (opioid dependence with intoxication; uncomplicated) - F11.221 (opioid dependence with intoxication with delerium) - F11.222 (opioid dependence with intoxication with perpetual disturbance) - F11.229 (opioid dependence with intoxication; unspecified)	*
	F11.23 (opioid dependence with withdrawal)	*
	F11.24 (opioid dependence with opioid-induced mood disorder)	*

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	F12.25 (cannabis dependence with psychotic disorder)	--
	- F12.250 (cannabis dependence with psychotic disorder with delusions) - F12.251 (cannabis dependence with psychotic disorder with hallucinations) - F12.259 (cannabis dependence with psychotic disorder; unspecified)	*
	F12.28 (cannabis dependence with other cannabis-induced disorder)	--
	- F12.280 (cannabis dependence with cannabis-induced anxiety disorder) - F12.288 (cannabis dependence with other cannabis-induced disorder)	*
	F12.29 (cannabis dependence with unspecified cannabis -induced disorder)	*

\* ICD9↔ICD10 translation did not yield a code relevant to the code set

Condition	ICD-10-CM Codes	ICD-9-CM Codes
<b>Sedative, hypnotic or anxiolytic dependence</b>	F13.2 (Sedative, hypnotic or anxiolytic-related dependence)	304.1x (sedative, hypnotic or anxiolytic dependence)
	F13.20 (sedative, hypnotic or anxiolytic dependence; uncomplicated)	- 304.10 (sedative, hypnotic or anxiolytic dependence; unspecified) - 304.11 (sedative, hypnotic or anxiolytic dependence; continuous) - 304.12 (sedative, hypnotic or anxiolytic dependence, episodic)
	F13.21 (sedative, hypnotic or anxiolytic dependence; in remission)	- 304.13 (sedative, hypnotic or anxiolytic dependence; in remission)
	F13.22 (sedative, hypnotic or anxiolytic dependence with intoxication)	--
	- F13.220 (sedative, hypnotic or anxiolytic dependence with intoxication; uncomplicated) - F13.221 (sedative, hypnotic or anxiolytic dependence with intoxication with delerium) - F13.229 (sedative, hypnotic or anxiolytic dependence with intoxication; unspecified)	*
	F13.23 (sedative, hypnotic or anxiolytic dependence with withdrawal)	*





	<ul style="list-style-type: none"> <li>- F13.282 (sedative, hypnotic or anxiolytic dependence with sedative, hypnotic or anxiolytic-induced <u>sleep</u> disorder)</li> <li>- F13.288 (sedative, hypnotic or anxiolytic dependence with <u>other</u> sedative, hypnotic or anxiolytic-induced disorder)</li> </ul>	
	F13.29 (sedative, hypnotic or anxiolytic dependence with unspecified sedative, hypnotic or anxiolytic-induced disorder)	*

\* ICD9↔ICD10 translation did not yield a code relevant to the code set

Condition	ICD-10-CM Codes	ICD-9-CM Codes
<b>Cocaine dependence</b>	F14.2 (cocaine dependence)	304.2x (cocaine dependence)
	F14.20 (cocaine dependence, uncomplicated)	<ul style="list-style-type: none"> <li>- 304.20 (cocaine dependence; unspecified)</li> <li>- 304.21 (cocaine dependence; continuous)</li> <li>- 304.22 (cocaine dependence, episodic)</li> </ul>
	F14.21 (cocaine dependence, in remission)	- 304.23 (cocaine dependence; in remission)
	F14.22 (cocaine dependence with intoxication)	--
	<ul style="list-style-type: none"> <li>- F14.220 (cocaine dependence with intoxication; uncomplicated)</li> <li>- F14.221 (cocaine dependence with intoxication with delirium)</li> <li>- F14.222 (cocaine dependence with intoxication with perceptual disturbance)</li> <li>- F14.229 (cocaine dependence with intoxication; unspecified)</li> </ul>	*
	F14.23 (cocaine dependence with withdrawal)	*
	F14.24 (cocaine dependence with cocaine-induced mood disorder)	*
	F14.25 (cocaine dependence with cocaine-induced psychotic disorder)	--
	<ul style="list-style-type: none"> <li>- F14.250 (cocaine dependence with cocaine-induced psychotic disorder with delusions)</li> <li>- F14.251 (cocaine dependence with cocaine-induced psychotic disorder with hallucinations)</li> </ul>	*



	- F14.259 (cocaine dependence with cocaine-induced psychotic disorder; unspecified)	
	F14.28 (cocaine dependence with other cocaine-induced disorder)	--
	- F14.280 (cocaine dependence with cocaine-induced anxiety disorder) - F14.281 (cocaine dependence with cocaine-induced sexual dysfunction) - F14.282 (cocaine dependence with cocaine-induced sleep disorder) - F14.288 (cocaine dependence with other cocaine-induced disorder)	*
	F14.29 (cocaine dependence with unspecified cocaine-induced disorder)	*

\* ICD9↔ICD10 translation did not yield a code relevant to the code set

Condition	ICD-10-CM Codes	ICD-9-CM Codes
<b>Other stimulant dependence</b>	F12.2 (other stimulant dependence)	304.4x (amphetamine and other psychostimulant dependence)
	F15.20 (other stimulant dependence, uncomplicated)	- 304.40 (amphetamine and other psychostimulant dependence; unspecified) - 304.41 (amphetamine and other psychostimulant dependence; continuous) - 304.42 (amphetamine and other psychostimulant dependence, episodic)
	F15.21 (other stimulant dependence, in remission)	- 304.43 (amphetamine and other psychostimulant dependence; in remission)
	F15.22 (other stimulant dependence with intoxication)	--
	- F15.220 (other stimulant dependence with intoxication; uncomplicated) - F15.221 (other stimulant dependence with intoxication with delirium) - F15.222 (other stimulant dependence with intoxication with perceptual disturbance) - F15.229 (other stimulant dependence with intoxication; 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)	--
	<ul style="list-style-type: none"> <li>- F15.250 (other stimulant dependence with stimulant-induced psychotic disorder with delusions)</li> <li>- F15.251 (other stimulant dependence with stimulant-induced psychotic disorder with hallucinations)</li> <li>- F15.259 (other stimulant dependence with stimulant-induced psychotic disorder; unspecified)</li> </ul>	*
	F15.28 (other stimulant dependence with stimulant-induced disorder)	--
	<ul style="list-style-type: none"> <li>- F15.280 (other stimulant dependence with stimulant-induced anxiety disorder)</li> <li>- F15.281 (other stimulant dependence with stimulant-induced sexual dysfunction)</li> <li>- F15.282 (other stimulant dependence with stimulant-induced sleep disorder)</li> <li>- F15.288 (other stimulant dependence with other stimulant-induced disorder)</li> </ul>	*
	F15.29 (other stimulant dependence with unspecified stimulant-induced disorder)	*

\* ICD9↔ICD10 translation did not yield a code relevant to the code set

Condition	ICD-10-CM Codes	ICD-9-CM Codes
<b>Hallucinogen dependence</b>	--	304.5x (hallucinogen dependence)
	F16.20 (hallucinogen dependence, uncomplicated)	<ul style="list-style-type: none"> <li>- 304.50 (hallucinogen dependence; unspecified)</li> <li>- 304.51 (hallucinogen dependence; continuous)</li> <li>- 304.52 (hallucinogen dependence, episodic)</li> </ul>
	F16.21 (hallucinogen dependence, in remission)	- 304.53 (hallucinogen dependence; in remission)
	F16.22 (hallucinogen dependence with intoxication)	--
	<ul style="list-style-type: none"> <li>- F16.220 (hallucinogen dependence with intoxication; uncomplicated)</li> <li>- F16.221 (hallucinogen dependence with intoxication with delirium)</li> </ul>	*

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	- F16.229 (hallucinogen dependence with intoxication; unspecified)	
	F16.24 (hallucinogen dependence with hallucinogen-induced mood disorder)	*
	F16.25 (hallucinogen dependence with hallucinogen-induced psychotic disorder)	--
	- F16.250 (hallucinogen dependence with hallucinogen-induced psychotic disorder with delusions) - F16.251 (hallucinogen dependence with hallucinogen-induced psychotic disorder with hallucinations) - F16.259 (hallucinogen dependence with hallucinogen-induced psychotic disorder; unspecified)	*
	F16.28 (hallucinogen dependence with other hallucinogen-induced disorder)	--
	- F16.280 (hallucinogen dependence with hallucinogen-induced anxiety disorder) - F16.283 (hallucinogen dependence with hallucinogen persisting perception disorder) - F16.288 (hallucinogen dependence with other hallucinogen-induced disorder)	*
	F16.29 (hallucinogen dependence with unspecified hallucinogen-induced disorder)	*

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Condition	ICD-10-CM Codes	ICD-9-CM Codes
<b>Inhalant dependence</b>	F18.2 Inhalant dependence	304.5x (hallucinogen dependence)
	F18.20 (inhalant dependence, uncomplicated)	- 304.60 (other specified drug dependence; unspecified) - 304.61 (hallucinogen dependence; continuous) - 304.62 (hallucinogen dependence, episodic)
	F18.21 (inhalant dependence, in remission)	- 304.33 (hallucinogen dependence; in remission)
	F18.22 (inhalant dependence with intoxication)	--

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	<ul style="list-style-type: none"> <li>- F18.220 (inhalant dependence with intoxication; uncomplicated)</li> <li>- F18.221 (inhalant dependence with intoxication with delirium)</li> <li>- F18.229 (inhalant dependence with intoxication; unspecified)</li> </ul>	*
	F18.24 (inhalant dependence with inhalant-induced mood disorder)	*
	F18.25 (inhalant dependence with inhalant-induced psychotic disorder)	--
	<ul style="list-style-type: none"> <li>- F18.250 (inhalant dependence with inhalant-induced psychotic disorder with delusions)</li> <li>- F18.251 (inhalant dependence with inhalant-induced psychotic disorder with hallucinations)</li> <li>- F18.259 (inhalant dependence with inhalant-induced psychotic disorder; unspecified)</li> </ul>	*
	F18.27 (inhalant dependence with inhalant-induced dementia)	*
	F18.28 (inhalant dependence with other inhalant-induced disorder)	--
	<ul style="list-style-type: none"> <li>- F18.280 (inhalant dependence with inhalant-induced anxiety disorder)</li> <li>- F18.288 (inhalant dependence with other inhalant-induced disorder)</li> </ul>	*
	F18.29 (inhalant dependence with unspecified inhalant-induced disorder)	*

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Condition	ICD-10-CM Codes	ICD-9-CM Codes
<b>Other psychoactive substances dependence</b>	F19.2 (Other psychoactive substance dependence)	304.6x (other specified drug dependence) 304.7x (combinations of opioid type drug with any other) 304.8x (combinations of drug dependence excluding opioid type drug) 304.9x (unspecified drug dependence)
	F19.20 (other psychoactive substance dependence, uncomplicated)	- 304.60 (other specified drug dependence; unspecified) - 304.61 (other specified drug dependence; continuous)  (continued on next page)



		<ul style="list-style-type: none"> <li>- 304.62 (other specified drug dependence, episodic)</li> <li>-----</li> <li>- 304.70 (combinations of opioid type drug with any other; unspecified)</li> <li>- 304.71 (combinations of opioid type drug with any other; continuous)</li> <li>- 304.72 (combinations of opioid type drug with any other, episodic)</li> <li>-----</li> <li>- 304.80 (combinations of drug dependence excluding opioid type drug; unspecified)</li> <li>- 304.81 (combinations of drug dependence excluding opioid type drug; continuous)</li> <li>- 304.82 (combinations of drug dependence excluding opioid type drug, episodic)</li> <li>-----</li> <li>- 304.90 (unspecified drug dependence; unspecified)</li> <li>- 304.91 (unspecified drug dependence; continuous)</li> <li>- 304.92 (unspecified drug dependence, episodic)</li> </ul>
	F19.21 (other psychoactive substance dependence, in remission)	<ul style="list-style-type: none"> <li>- 304.63 (other specified drug dependence; in remission)</li> <li>- 304.73 (combinations of opioid type drug with any other; in remission)</li> <li>- 304.83 (combinations of drug dependence excluding opioid type drug; in remission)</li> <li>- 304.93 (unspecified drug dependence; in remission)</li> </ul>
	F19.22 (other psychoactive substance dependence with intoxication)	--
	<ul style="list-style-type: none"> <li>- F19.220 (other psychoactive substance dependence with intoxication; uncomplicated)</li> <li>- F19.221 (other psychoactive substance dependence with intoxication with delirium)</li> <li>- F19.222 (other psychoactive substance dependence with intoxication with perceptual disturbance)</li> <li>- F19.229 (other psychoactive substance dependence with intoxication; unspecified)</li> </ul>	<p style="text-align: center;">*</p> <p style="text-align: right;"><i>(continued on next page)</i></p>



F19.23 (other psychoactive substance dependence with withdrawal)	*
<ul style="list-style-type: none"> <li>- F19.230 (other psychoactive substance dependence with withdrawal; uncomplicated)</li> <li>- F19.231 (other psychoactive substance dependence with withdrawal with delerium)</li> <li>- F19.232 (other psychoactive substance dependence with withdrawal with perceptual disturbance)</li> <li>- F19.239 (other psychoactive substance dependence with withdrawal; unspecified)</li> </ul>	*
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)	--
<ul style="list-style-type: none"> <li>- F19.250 (other psychoactive substance dependence with psychoactive substance -induced psychotic disorder with delusions)</li> <li>- F19.251 (other psychoactive substance dependence with psychoactive substance -induced psychotic disorder with hallucinations)</li> <li>- F19.259 (other psychoactive substance dependence with psychoactive substance -induced psychotic disorder; unspecified)</li> </ul>	*
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)	--
<ul style="list-style-type: none"> <li>- F19.280 (other psychoactive substance dependence with psychoactive substance -induced anxiety disorder)</li> <li>- F19.281 (other psychoactive substance dependence with psychoactive substance -induced sexual dysfunction)</li> <li>- F19.282 (other psychoactive substance dependence with psychoactive substance -induced sleep disorder)</li> </ul>	*

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	- F19.288 (other psychoactive substance dependence with other psychoactive substance-induced disorder)	
	F19.29 (other psychoactive substance dependence with unspecified psychoactive substance-induced disorder)	- *

\* ICD9↔ICD10 translation did not yield a code relevant to the code set

### *Drug Abuse*

Condition	ICD-10-CM Codes	ICD-9-CM Codes
<b>Opioid abuse</b>	F11.1 (opioid abuse)	305.5x (opioid abuse)
	F11.10 (opioid abuse, uncomplicated)	- 305.50 (opioid; unspecified) - 305.51 (opioid; continuous) - 305.52 (opioid, episodic) - 305.53 (opioid; in remission)
	F11.12 (opioid abuse, with intoxication)	--
	- F11.120 (opioid abuse, with intoxication; uncomplicated) - F11.121 (opioid abuse, with intoxication with delerium) - F11.122 (opioid abuse, with intoxication with perceptual disturbance) - F11.129 (opioid abuse, with intoxication; unspecified)	*
	F11.14 (opioid abuse with opioid-induced mood disorder)	*
	F11.15 (opioid abuse with opioid-induced psychotic disorder)	--
	- F11.150 (opioid abuse with opioid-induced psychotic disorder, with delusions) - F11.151 (opioid abuse with opioid-induced psychotic disorder, with hallucinations) - F11.159 (opioid abuse with opioid-induced psychotic disorder; unspecified)	*
	F11.18 (opioid abuse with other opioid-induced disorder)	--
	- F11.181 (opioid abuse with opioid induced sexual dysfunction) - F11.182 (opioid abuse with opioid-induced sleep disorder)	*
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	- F11.188 (opioid abuse with other opioid-induced disorder)	
	F11.19 (opioid abuse with unspecified opioid-induced disorder)	*

\* ICD9↔ICD10 translation did not yield a code relevant to the code set

Condition	ICD-10-CM Codes	ICD-9-CM Codes	
<b>Cannabis abuse</b>	F12.1 (cannabis abuse)	305.2x (cannabis abuse)	
	F12.10 (cannabis abuse, uncomplicated)	- 305.20 (cannabis abuse; unspecified)	
	F12.10 (above); or F12.90 (cannabis use, unspecified, uncomplicated)	- 305.21 (cannabis abuse; continuous) - 305.22 (cannabis abuse, episodic) - 305.23 (cannabis abuse; in remission)	
	F12.12 (cannabis abuse with intoxication)	--	
	- F12.120 (cannabis abuse with intoxication; uncomplicated) - F12.121 (cannabis abuse with intoxication with delirium) - F12.122 (cannabis abuse with intoxication with perceptual disturbance) - F12.129 (cannabis abuse with intoxication; unspecified)	*	
	F12.15 (cannabis abuse with psychotic disorder)	--	
	- F12.150 (cannabis abuse with psychotic disorder, with delusions) - F12.151 (cannabis abuse psychotic disorder, with hallucinations) - F12.159 (cannabis abuse with psychotic disorder; unspecified)	*	
	F12.18 (cannabis abuse with other cannabis-induced disorder)	--	
	- F12.180 (cannabis abuse with cannabis-induced anxiety disorder) - F12.188 (cannabis abuse with other cannabis-induced disorder)	*	
	F12.19 (cannabis abuse with unspecified cannabis-induced disorder)	*	
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\* ICD9↔ICD10 translation did not yield a code relevant to the code set



Condition	ICD-10-CM Codes	ICD-9-CM Codes
<b>Sedative, hypnotic or anxiolytic abuse</b>	F13.1 (Sedative, hypnotic or anxiolytic-related abuse)	305.4x (sedative, hypnotic or anxiolytic abuse)
	F13.10 (sedative, hypnotic or anxiolytic abuse; uncomplicated)	<ul style="list-style-type: none"> <li>- 305.40 (sedative, hypnotic or anxiolytic abuse; unspecified)</li> <li>- 305.41 (sedative, hypnotic or anxiolytic abuse; continuous)</li> <li>- 305.42 (sedative, hypnotic or anxiolytic abuse, episodic)</li> <li>- 305.43 (sedative, hypnotic or anxiolytic abuse; in remission)</li> </ul>
	F13.12 (sedative, hypnotic or anxiolytic abuse with intoxication)	--
	<ul style="list-style-type: none"> <li>- F13.120 (sedative, hypnotic or anxiolytic abuse with intoxication; uncomplicated)</li> <li>- F13.121 (sedative, hypnotic or anxiolytic abuse with intoxication with delirium)</li> <li>- F13.129 (sedative, hypnotic or anxiolytic abuse with intoxication; unspecified)</li> </ul>	*
	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)	--
	<ul style="list-style-type: none"> <li>- F13.150 (sedative, hypnotic or anxiolytic abuse with sedative, hypnotic or anxiolytic psychotic disorder, with delusions)</li> <li>- F13.151 (sedative, hypnotic or anxiolytic abuse with sedative, hypnotic or anxiolytic psychotic disorder, with hallucinations)</li> <li>- F13.159 (sedative, hypnotic or anxiolytic abuse with sedative, hypnotic or anxiolytic psychotic disorder; unspecified)</li> </ul>	*
	F13.18 (sedative, hypnotic or anxiolytic abuse with other sedative, hypnotic or anxiolytic-induced disorder)	--
	<ul style="list-style-type: none"> <li>- F13.180 (sedative, hypnotic or anxiolytic abuse with sedative, hypnotic or anxiolytic-induced anxiety disorder)</li> </ul>	*

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	<ul style="list-style-type: none"> <li>- F13.181 (sedative, hypnotic or anxiolytic abuse with sedative, hypnotic or anxiolytic-induced sexual dysfunction)</li> <li>- F13.182 (sedative, hypnotic or anxiolytic abuse with sedative, hypnotic or anxiolytic-induced sleep disorder)</li> <li>- F13.188 (sedative, hypnotic or anxiolytic abuse with other sedative, hypnotic or anxiolytic-induced disorder)</li> </ul>	
	F13.19 (sedative, hypnotic or anxiolytic abuse with unspecified sedative, hypnotic or anxiolytic-induced disorder)	*

\* ICD9↔ICD10 translation did not yield a code relevant to the code set

Condition	ICD-10-CM Codes	ICD-9-CM Codes
<b>Cocaine abuse</b>	F14.1 (Cocaine abuse)	305.6x (cocaine abuse)
	F14.10 (cocaine abuse, uncomplicated)	<ul style="list-style-type: none"> <li>- 305.60 (cocaine; unspecified)</li> <li>- 305.61 (cocaine; continuous)</li> <li>- 305.62 (cocaine, episodic)</li> <li>- 305.63 (cocaine; in remission)</li> </ul>
	F14.12 (cocaine abuse with intoxication)	--
	<ul style="list-style-type: none"> <li>- F14.120 (cocaine abuse with intoxication; uncomplicated)</li> <li>- F14.121 (cocaine abuse with intoxication delirium)</li> <li>- F14.122 (cocaine abuse with intoxication with perceptual disturbance)</li> <li>- F14.129 (cocaine abuse with intoxication; unspecified)</li> </ul>	*
	F14.14 (cocaine abuse with cocaine-induced mood disorder)	*
	F14.15 (cocaine abuse with cocaine-induced psychotic disorder)	--
	<ul style="list-style-type: none"> <li>- F14.150 (cocaine abuse with cocaine-induced psychotic disorder with delusions)</li> <li>- F14.151 (cocaine abuse with cocaine-induced psychotic disorder with hallucinations)</li> <li>- F14.159 (cocaine abuse with cocaine-induced psychotic disorder; unspecified)</li> </ul>	*



	F14.18 (cocaine abuse with other cocaine-induced disorder)	--
	<ul style="list-style-type: none"> <li>- F14.180 (cocaine abuse with other cocaine-induced anxiety disorder)</li> <li>- F14.181 (cocaine abuse with other cocaine-induced sexual dysfunction)</li> <li>- F14.182 (cocaine abuse with other cocaine induced sleep disorder)</li> <li>- F14.188 (cocaine abuse with other cocaine-induced disorder)</li> </ul>	*
	F14.19 (cocaine abuse with unspecified cocaine-induced disorder)	*

\* ICD9↔ICD10 translation did not yield a code relevant to the code set

Condition	ICD-10-CM Codes	ICD-9-CM Codes
<b>Other stimulant abuse</b>	--	305.7x (amphetamine or related acting sympathomimetic abuse)
	F15.10 (other stimulant abuse, uncomplicated)	<ul style="list-style-type: none"> <li>- 305.70 (amphetamine or related acting sympathomimetic abuse; unspecified)</li> <li>- 305.71 (amphetamine or related acting sympathomimetic abuse; continuous)</li> <li>- 305.72 (amphetamine or related acting sympathomimetic abuse, episodic)</li> <li>- 305.73 (amphetamine or related acting sympathomimetic abuse; in remission)</li> </ul>
	F15.12 (other stimulant abuse with intoxication)	--
	<ul style="list-style-type: none"> <li>- F15.120 (other stimulant abuse with intoxication; uncomplicated)</li> <li>- F15.121 (other stimulant abuse with intoxication delirium)</li> <li>- F15.122 (other stimulant abuse with intoxication with perceptual disturbance)</li> <li>- F15.129 (other stimulant abuse with intoxication; unspecified)</li> </ul>	*
	F15.14 (other stimulant abuse with stimulant-induced mood disorder)	*
	F15.15 (other stimulant abuse with stimulant-induced psychotic disorder)	--
	<ul style="list-style-type: none"> <li>- F15.150 (other stimulant abuse with stimulant-induced psychotic disorder with delusions)</li> </ul>	*



	<ul style="list-style-type: none"> <li>- F15.151 (other stimulant abuse with stimulant-induced psychotic disorder with hallucinations)</li> <li>- F15.159 (other stimulant abuse with stimulant-induced psychotic disorder; unspecified)</li> </ul>	
	F15.18 (other stimulant abuse with other stimulant-induced disorder)	--
	<ul style="list-style-type: none"> <li>- F15.180 (other stimulant abuse with stimulant-induced anxiety disorder)</li> <li>- F15.181 (other stimulant abuse with stimulant-induced sexual dysfunction)</li> <li>- F15.182 (other stimulant abuse with stimulant induced sleep disorder)</li> <li>- F15.188 (other stimulant abuse with other stimulant-induced disorder)</li> </ul>	*
	F15.19 (other stimulant abuse with unspecified stimulant-induced disorder)	*

\* ICD9↔ICD10 translation did not yield a code relevant to the code set

Condition	ICD-10-CM Codes	ICD-9-CM Codes
<b>Hallucinogen abuse</b>	F16.1 (Hallucinogen abuse)	305.3x (hallucinogen abuse)
	F16.10 (hallucinogen abuse, uncomplicated)	<ul style="list-style-type: none"> <li>- 305.30 (hallucinogen abuse; unspecified)</li> <li>- 305.31 (hallucinogen abuse; continuous)</li> <li>- 305.32 (hallucinogen abuse, episodic)</li> <li>- 305.33 (hallucinogen abuse; in remission)</li> </ul>
	F16.12 (hallucinogen abuse with intoxication)	--
	<ul style="list-style-type: none"> <li>- F16.120 (hallucinogen abuse with intoxication; uncomplicated)</li> <li>- F16.121 (hallucinogen abuse with intoxication with delirium)</li> <li>- F16.122 (hallucinogen abuse with intoxication with perceptual disturbance)</li> <li>- F16.129 (hallucinogen abuse with intoxication; unspecified)</li> </ul>	*
	F16.14 (hallucinogen abuse with hallucinogen-induced mood disorder)	*
	F16.15 (hallucinogen abuse with hallucinogen-induced psychotic disorder)	--

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	<ul style="list-style-type: none"> <li>- F16.150 (hallucinogen abuse with hallucinogen-induced psychotic disorder with delusions)</li> <li>- F16.151 (hallucinogen abuse with hallucinogen-induced psychotic disorder with hallucinations)</li> <li>- F16.159 (hallucinogen abuse with hallucinogen-induced psychotic disorder; unspecified)</li> </ul>	*
	F16.18 (hallucinogen abuse with other hallucinogen-induced disorder)	--
	<ul style="list-style-type: none"> <li>- F16.180 (hallucinogen abuse with hallucinogen-induced anxiety disorder)</li> <li>- F16.183 (hallucinogen abuse with hallucinogen persisting perception disorder)</li> <li>- F16.188 (hallucinogen abuse with other hallucinogen-induced disorder)</li> </ul>	*
	F16.19 (hallucinogen abuse with unspecified hallucinogen-induced disorder)	*

\* ICD9↔ICD10 translation did not yield a code relevant to the code set

Condition	ICD-10-CM Codes	ICD-9-CM Codes
<b>Inhalant abuse</b>	F18.1 (Inhalant abuse)	305.9x (other, mixed, or unspecified drug abuse)
	F18.10 (inhalant abuse, uncomplicated)	<ul style="list-style-type: none"> <li>- 305.90 (other, mixed, or unspecified drug abuse; unspecified)</li> <li>- 305.91 (other, mixed, or unspecified drug abuse; continuous)</li> <li>- 305.92 (other, mixed, or unspecified drug abuse; episodic)</li> <li>- 305.93 (other, mixed, or unspecified drug abuse; in remission)</li> </ul>
	F18.12 (inhalant abuse with intoxication)	--
	<ul style="list-style-type: none"> <li>- F18.120 (inhalant abuse with intoxication; uncomplicated)</li> <li>- F18.121 (inhalant abuse with intoxication with delirium)</li> <li>- F18.129 (inhalant abuse with intoxication; unspecified)</li> </ul>	*
	F18.14 (inhalant abuse with inhalant - induced mood disorder)	*
	F18.15 (inhalant abuse with inhalant - induced psychotic disorder)	--



	<ul style="list-style-type: none"> <li>- F18.150 (inhalant abuse with inhalant - induced psychotic disorder with delusions)</li> <li>- F18.151 (inhalant abuse with inhalant - induced psychotic disorder with hallucinations)</li> <li>- F18.159 (inhalant abuse with inhalant - induced psychotic disorder; unspecified)</li> </ul>	*
	F18.17 (inhalant abuse with inhalant-induced dementia)	*
	F18.18 (inhalant abuse with other inhalant - induced disorder)	--
	<ul style="list-style-type: none"> <li>- F18.180 (inhalant abuse with other inhalant-induced anxiety disorder)</li> <li>- F18.188 (inhalant abuse with other inhalant-induced disorder)</li> </ul>	*
	F18.19 (inhalant abuse with unspecified inhalant-induced disorder)	*

\* ICD9↔ICD10 translation did not yield a code relevant to the code set

Condition	ICD-10-CM Codes	ICD-9-CM Codes
<b>Other psychoactive substance abuse</b>	F19.1 (Other psychoactive substance abuse)	305.8x (antidepressant type abuse)
	F19.10 (other psychoactive substance abuse, uncomplicated)	<ul style="list-style-type: none"> <li>- 305.80 (antidepressant type abuse; unspecified)</li> <li>- 305.81 (antidepressant type abuse; continuous)</li> <li>- 305.82 (antidepressant type abuse, episodic)</li> <li>- 305.83 (antidepressant type abuse; in remission)</li> </ul>
	F19.12 (other psychoactive substance abuse with intoxication)	--
	<ul style="list-style-type: none"> <li>- F19.120 (other psychoactive substance abuse with intoxication; uncomplicated)</li> <li>- F19.121 (other psychoactive substance abuse with intoxication with delirium)</li> <li>- F19.122 (other psychoactive substance abuse with intoxication with perceptual disturbance)</li> <li>- F19.129 (other psychoactive substance abuse with intoxication; unspecified)</li> </ul>	*
	F19.14 (other psychoactive substance abuse with psychoactive substance-induced mood disorder)	*

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F19.15 (other psychoactive substance abuse with other psychoactive substance - induced psychotic disorder)	--
- F19.150 (other psychoactive substance abuse with psychoactive substance - induced psychotic disorder with delusions) - F19.151 (other psychoactive substance abuse with psychoactive substance - induced psychotic disorder with hallucinations) - F19.159 (other psychoactive substance abuse with psychoactive substance-induced psychotic disorder; unspecified)	*
F19.16 (other psychoactive substance abuse with psychoactive substance-induced persisting amnestic 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 (other psychoactive substance abuse with psychoactive substance - induced anxiety disorder) - F19.181 (other psychoactive substance abuse with psychoactive substance - induced sexual dysfunction) - F19.182 (other psychoactive substance abuse with psychoactive substance induced sleep disorder) - F19.188 (other psychoactive substance abuse with other psychoactive substance -induced disorder)	*
F19.19 (other psychoactive substance abuse with unspecified psychoactive substance - induced disorder)	*

\* ICD9↔ICD10 translation did not yield a code relevant to the code set

### **Development and Revisions**

- In November of 2014 the case definition was updated to include ICD10 codes.
- This case definition was developed in November of 2010 by AFHSC MSMR staff for a MSMR article on mental disorders and mental health problems among active duty Service members.<sup>1</sup> 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.

### *Code Set Determination and Rationale:*

- 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.*<sup>3</sup> and Seal *et al.*<sup>4</sup> The final code set was selected after a review of the scientific literature and of the relevant codes in the International Classification of Diseases, 9<sup>th</sup> Revision.
- 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**

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AFHSC reports on substance related disorders in the following reports:

- Periodic MSMR articles on mental disorders and associated hospitalizations, outpatient medical encounters, and post-deployment illnesses.
- Annually: MSMR article on the “Absolute and relative morbidity burdens attributable to various illnesses and injuries U.S. Armed Forces” (see *Comments* section below).
- Quarterly: AFHSC Mental Health Report for the Department of Defense (Office of the Assistant Secretary of Defense for Health Affairs);<sup>5</sup> 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 substance use disorders documented here.

<sup>3</sup> 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.

<sup>4</sup> 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.

<sup>5</sup> 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.



## Review

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Nov 2014	Case definition reviewed and updated by the AFHSC Surveillance Methods and Standards (SMS) working group.
July 2012	Case definition reviewed and adopted by AFHSC Surveillance Methods and Standards working group.
Nov 2010	Case definition developed and reviewed by AFHSC MSMR staff.

## Comments

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*Burden of Disease Reports:* AFHSC 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 ICD-9-CM codes, into 139 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.<sup>6</sup> In general, the GBD system groups diagnoses with common pathophysiologic or etiologic bases and/or significant international health policymaking importance.

The AFHSC 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.<sup>7</sup>

Because reports on disease burden are based on the total number of medical encounters for a specific condition, a slightly different case definition is used for these analyses. The case definition requires only “one inpatient or outpatient medical encounter with any defining ICD9 codes between 001 and 999” and uses the diagnosis in the *primary* diagnostic position only. An individual is allowed one medical encounter per condition per day.

*Comprehensive AFHSC Mental Health Reports:* For analyses and reports requiring data on *all* mental disorders, AFHSC includes all mental health diagnoses that fall within the range of ICD-9-CM codes 290-319 (mental disorders) with a few exceptions.

- ICD9 code 305.1 (tobacco use disorder) 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 codes 299.xx (pervasive developmental disorders) and ICD9 codes 317.xx -319.xx (mild, other, and unspecified intellectual disabilities) are not included as these conditions do not represent mental health disorders that AFHSC is trying to track with these reports.

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<sup>6</sup> 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.

<sup>7</sup> Armed Forces Health Surveillance Center. Absolute and Relative Morbidity Burdens Attributable to Various Illnesses and Injuries, U.S. Armed Forces, 2011. *Medical Surveillance Monthly Report (MSMR)*. 2012 April; Vol.19 (4): 4-9.

