ADJUSTMENT DISORDERS

Does Not Include Acute Stress Reaction or Post Traumatic Stress Disorder (PTSD); For PTSD, See “Post-Traumatic Stress Disorder” Case Definition.

Background

This case definition was developed by the Armed Forces Health Surveillance Branch (AFHSB) for the purpose of descriptive epidemiological reports on mental disorders and mental health problems among active duty Service members. 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 adjustment disorders and other mental health diagnoses.

Clinical Description

An adjustment disorder is a psychological response to an identifiable stressor or group of stressors that cause(s) significant emotional or behavioral symptoms. Symptoms cause marked distress in excess of what would normally be expected in response to a stressful life event. Symptoms must occur within 3 months of the stressor and not related to another mental health disorder or part of normal grieving.

Case Definition and Incidence Rules

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

- One hospitalization with a case defining diagnoses of adjustment 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 a case defining diagnoses of adjustment 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 diagnoses of adjustment disorder (see ICD9 and ICD10 code list below) in the first or second diagnostic position.

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 adjustment disorder.

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

- An individual is considered an incident case *once per surveillance period.*

**Exclusions:**
- None

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### Codes

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

<table>
<thead>
<tr>
<th>Condition</th>
<th>ICD-10-CM Codes</th>
<th>ICD-9-CM Codes</th>
</tr>
</thead>
<tbody>
<tr>
<td>Adjustment Disorders</td>
<td>F43.2 (adjustment disorders)</td>
<td>309 (adjustment reaction)</td>
</tr>
<tr>
<td></td>
<td>- F43.20 (adjustment disorder, unspecified)</td>
<td>309.9 (unspecified adjustment reactions)</td>
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<td></td>
<td>- F43.21 (adjustment disorder with depressed mood)</td>
<td>309.0 (adjustment disorder with depressed mood)</td>
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<td>309.1 (prolonged depressive reaction)</td>
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<td></td>
<td>- F43.22 (adjustment disorder with anxiety)</td>
<td>309.24 (adjustment disorder with anxiety)</td>
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<tr>
<td></td>
<td>- F43.23 (adjustment disorder with mixed anxiety and depressed mood)</td>
<td>309.28 (adjustment disorder with mixed anxiety and depressed mood)</td>
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<tr>
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<td>- F43.24 (adjustment disorder with disturbance of conduct)</td>
<td>309.3 (adjustment disorder with disturbance of conduct)</td>
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<td></td>
<td>- F43.25 (adjustment disorder with mixed disturbance of emotions and conduct)</td>
<td>309.4 (adjustment disorder with mixed disturbance of emotions and conduct)</td>
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<tr>
<td></td>
<td>- F43.29 (adjustment disorder with other symptoms)</td>
<td>309.29 (other adjustment reactions with predominant disturbance of other emotions)</td>
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<tr>
<td>F43.8 (other reactions to severe stress)</td>
<td></td>
<td>309.8 (other specified adjustment reactions)</td>
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<td></td>
<td>- 309.82 (adjustment reaction with physical symptoms)</td>
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<td></td>
<td>- 309.83 (adjustment reaction with withdrawal)</td>
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<td></td>
<td>- 309.89 (other specified adjustment reaction)</td>
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<tr>
<td>F43.9 (reaction to severe stress, unspecified)</td>
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<td>309.9 (above)</td>
</tr>
</tbody>
</table>

*Translated codes not relevant to code set.*

<table>
<thead>
<tr>
<th></th>
<th>ICD-9-CM Codes</th>
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</thead>
<tbody>
<tr>
<td></td>
<td>309.2 (adjustment reaction with predominant disturbance of other emotions)</td>
</tr>
<tr>
<td></td>
<td>- 309.21 (separation anxiety disorder)</td>
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</tbody>
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Development and Revisions

- In December of 2014 the case definition was updated to include ICD10 codes.

- This case definition was developed in November of 2010 by AFHSC Medical Surveillance Monthly Report (MSMR) staff for an article on mental disorders and mental health problems among active duty Service members. 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 adjustment disorder would have a second encounter within that interval. Also, adjustment disorders generally do not persist for longer than 6 months.

Code Set Determination and Rationale

- In September 2018, ICD10 codes F93.0 (separation anxiety disorder of childhood), F94.8 (other childhood disorders of social functioning) and F94.9 (childhood disorder of social functioning, unspecified) were removed from the code set. In ICD10, the codes refer to specific disorders of childhood rather than to adjustment reactions. No retroactive changes to the corresponding ICD9 codes were made.

- ICD9 code 309.21 / ICD10 F93.0 (separation anxiety disorder) is included in the code set as data show there are approximately 125 cases/year.

- ICD9 code 309.22 / ICD10 F94.8 (emancipation disorder of adolescence and early adult life) is included with approximately 10 cases/year.

- ICD9 309.23 (specific academic or work inhibition) / ICD10 F94.8 (other childhood disorders of social functioning) and ICD10 F94.9 (childhood disorder of social functioning, unspecified) is included in the code set with 120-595 cases/year and a trend that is increasing over time. In ICD10 these codes are specific to pediatric patients aged 0-17.

- ICD9 308* / ICD10 F43.0 (acute reaction to stress) is not included in this code set because adjustment disorders by definition are marked by a symptoms lasting longer than 1 month.

- ICD9 309.81/ICD10 F43.1 (post-traumatic stress disorder) is not included this code set. PTSD is not included in the code set because (1) it is generally categorized as an anxiety disorder - not an adjustment disorder - provoked by severe psychological trauma; (2) adjustment disorders may occur in response to stressors of lesser severity; and (3) the symptoms of PTSD differ from those of adjustment disorders and tend to last longer.
• 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 Revision.

Reports

AFHSB reports on adjustment 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).

Review

<table>
<thead>
<tr>
<th>Date</th>
<th>Case definition reviewed and updated by:</th>
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<tbody>
<tr>
<td>Sept 2018</td>
<td>AFHSB Surveillance Methods and Standards (SMS) working group.</td>
</tr>
<tr>
<td>Dec 2014</td>
<td>AFHSB Surveillance Methods and Standards (SMS) working group.</td>
</tr>
<tr>
<td>Jul 2012</td>
<td>AFHSB Surveillance Methods and Standards working group.</td>
</tr>
<tr>
<td>Nov 2010</td>
<td>AFHSB Surveillance Methods and Standards working group.</td>
</tr>
</tbody>
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Comments

Burden of Disease Reports:

AFHSB 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.⁵ In general, the GBD system groups diagnoses with common pathophysiologic or etiologic bases and/or significant international health policymaking importance.

The AFHSB 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.⁶

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 AFHSB Mental Health Reports:**

For analyses and reports requiring data on all mental disorders, AFHSB 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.

- Codes ICD9 310.2 / ICD10 F07.81 (post-concussion syndrome)
- Codes 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.
- Codes ICD9 317*-319* / ICD10 F70-F79 (mental retardation)
- Codes ICD9 315* / ICD10 F80*-F82*, F88-F89 (specific delays in development)
- Codes ICD9 299*/ICD10 F84* (pervasive developmental disorders)