UCSF

UC San Francisco Previously Published Works

Title

Prevalence of behavioral health disorders and associated chronic disease burden in a commercially insured health system: findings of a case-control study

Permalink

https://escholarship.org/uc/item/23d5290v

Journal

General Hospital Psychiatry, 37(2)

ISSN

0163-8343

Authors

Young, John Q Kline-Simon, Andrea H Mordecai, Donald J et al.

Publication Date

2015-03-01

DOI

10.1016/j.genhosppsych.2014.12.005

Peer reviewed

FI SEVIER

Contents lists available at ScienceDirect

General Hospital Psychiatry

journal homepage: http://www.ghpjournal.com



Psychiatric-Medical Comorbidity

The Psychiatric–Medical Comorbidity section will focus on the prevalence and impact of psychiatric disorders in patients with chronic medical illness as well as the prevalence and impact of medical disorders in patients with chronic psychiatric illness.

Prevalence of behavioral health disorders and associated chronic disease burden in a commercially insured health system: findings of a case–control study



John Q. Young, M.D., M.P.P. ^{a,*}, Andrea H. Kline-Simon, M.S. ^b, Donald J. Mordecai, M.D. ^c, Constance Weisner, Dr.Ph., M.S.W. ^{b,d}

- ^a Department of Psychiatry, Hofstra North Shore-LIJ School of Medicine, 75-59 263rd Street, Glen Oaks, NY 11004, USA
- ^b Division of Research, Kaiser Permanente Northern California, 2000 Broadway, 3rd Floor, Oakland, CA 94612, USA
- ^c The Permanente Medical Group, Kaiser Permanente Northern California, 5755 Cottle Road, San Jose, CA 95123, USA
- Department of Psychiatry, University of California, 401 Parnassus Avenue, Box 0984, San Francisco CA 94143, USA

ARTICLE INFO

Article history: Received 12 July 2014 Revised 10 December 2014 Accepted 15 December 2014

Keywords:
Behavioral/mental health disorders
Co-occurring conditions
Chronic conditions
Epidemiology
Health system

ABSTRACT

Objective: The objective was to examine prevalence of behavioral health disorders (BHDs) and co-occurring chronic medical conditions in a 3.4 million-member integrated health system.

Method: Clinical databases identified 255,993 patients diagnosed with the most prevalent BHDs (cases): depression, anxiety, substance use, bipolar spectrum and attention deficit and hyperactivity (ADHD); non-BHD matched controls were created for all unique cases. Cases and controls were compared for prevalence of general medical conditions and specific chronic diseases and the Charlson Comorbidity Index (CMI).

Results: The five most common BHDs were depression (58%), anxiety (42%), substance use (16%), bipolar spectrum (6%) and ADHD (4%). Compared to controls, patients with depression (80.1% vs. 66.3%), anxiety (78.0% vs. 63.0%), substance use (74.0% vs. 59.9%), bipolar (75.3% vs. 60.7%) and ADHD (60.6% vs. 53.1%; all P<.001) had significantly higher prevalence of any medical comorbidities. Excluding ADHD, BHD cases had higher prevalence of selected chronic diseases and average CMI.

Conclusions: BHDs in a largely commercially insured, employment-based health system are common and associated with a disproportionately higher burden of chronic medical disease and associated 10-year mortality risk rate. Given that co-occurrence of behavioral and medical conditions leads to elevated symptom burden, functional impairment, and healthcare costs, these findings highlight the importance of developing effective collaborative models of care in (nonpublic) employment-based health systems.

© 2015 Elsevier Inc. All rights reserved.

1. Introduction

The nation's health care system faces a mandate to improve quality in multiple dimensions, including those identified by the Institute of Medicine: safety, timeliness, effectiveness, efficiency, equitability and patient centeredness [1]. Expenditures and gaps in health care delivery in general are not evenly distributed throughout the population; only 5% of the population account for half of all health care spending [2], and quality varies considerably across conditions and settings [3]. An effective response to the quality mandate will require a focus on subgroups of patients who have severe or multiple health conditions associated with significantly higher costs and poorer outcomes [4]. Patients with co-occurring behavioral and medical

* Corresponding author. E-mail address: JYoung9@NSHS.edu (J.Q. Young). conditions represent such a population. In the National Comorbidity Survey Replication, more than 68% of adults with a behavioral disorder report having at least one general medical disorder, and 29% of those with a medical disorder had a comorbid mental health condition [5–7].

Research has documented the high rates of psychiatric comorbidity among specific medical conditions, such as HIV [8], diabetes [9,10], asthma [11] and chronic medical illnesses [12]. Conversely, studies have reported high rates of medical comorbidity among patients with psychiatric illness [13–16]. The co-occurrence of behavioral and medical conditions leads to elevated symptom burden, functional impairment, decreased length and quality of life, and increased costs [5,6]. For patients with comorbid behavioral and medical conditions, problems with quality of care occur when they are treated in a primary care and/or specialty mental health setting [5]. Even more concerning, premature mortality is elevated two- to fourfold [17–19]. In response to these findings, care delivery models have been developed for patients with comorbid medical and psychiatric conditions. The most effective have been collaborative care approaches that use a

All authors declare no conflict of interest.

multidisciplinary team to screen and track mental health conditions in primary care [20–22]. These models build on the Chronic Care Model [23]. Yet, even as these models are promoted, the gaps in our knowledge about co-occurrence may have important implications for how these collaborative models are structured.

Research to date on the prevalence of co-occurring medical and psychiatric conditions has focused on national surveys, specific illnesses, disease-focused clinics (such as depression or diabetes) or claims data for health insurance populations, such as Medicaid or Medicare. To our knowledge, no prior study has focused on a large patient population with a predominately (nonpublic) employment-based insurance that receives treatment in an integrated health care system. Examining co-occurrence in this setting addresses several important gaps in the existing literature. First, employed patients in an integrated health care system represent an important and distinct subpopulation of patients receiving care in the delivery model promoted by health care reform. Second, this kind of system generates encounter-based rather than claims-based data. The data are generated from all clinical departments (e.g., primary care, specialty clinics and emergency rooms) within a comprehensive system of care.

To address these gaps, we examine the prevalence of behavioral health (and co-occurring medical) conditions in a large integrated health system that primarily serves patients with employment-based insurance. We compare the burden of medical co-morbidity and chronic diseases among those health plan members with a behavioral health condition to matched members without. This provides the opportunity to examine the robustness of the behavioral and medical disease nexus in this subpopulation compared to the other subpopulations more commonly studied.

2. Methods

2.1. Setting

Kaiser Permanente of Northern California (KPNC) is a nonprofit, integrated health care delivery system providing comprehensive health services to more than 3.4 million members, 44% of the commercially insured population in the region. Eighty-eight percent of members are commercially insured, 10% through Medicare and 2% through Medicaid. KPNC operates over 54 outpatient clinics and 16 hospitals. Most behavioral health services are provided internally rather than contracted to outside vendors. All persons included in this study were drawn from KPNC membership.

2.2. Study participants

Institutional review board approval was obtained from the Kaiser Research Foundation Institute for this retrospective database-only study. Initially, all KPNC patients aged 18 + with any behavioral health diagnoses (BHDs) in 2010 were identified. Automated clinical databases were used to identify all outpatient visits (including those in specialty clinics), hospitalizations and emergency department visits at KPNC facilities between January 1, 2010, and December 31, 2010, where a patient had a BHD. The BHDs used for this study included both mental health and substance use disorders: depressive disorders, bipolar spectrum disorders, anxiety disorders, attention deficit hyperactivity disorders (ADHD), autism spectrum disorders, personality disorders, substance use disorders, dementia, schizophrenia spectrum disorders and other psychoses [see Appendix A for International Classification of Diseases, Ninth Revision (ICD-9) codes relevant to this paper]. These categories were selected based on collaborations with NIMH's Mental Health Research Network [24] and KPNC's Regional Mental Health leadership. The first mention for each BHD during the study period was included, so patients in the sample could have multiple BHDs over the 1-year study period (i.e., the BHD groups are not mutually exclusive). The prevalence rates of BHDs were examined among all adult KPNC patients, Patients insured by Medicare or Medicaid were excluded from the study.

2.3. Analytical sample

The subsequent analyses were limited to a subsample of KPNC patients, comprised of those with the five most prevalent BHDs (SubBHD Cohort): depressive disorder, anxiety disorder, substance use disorder, bipolar spectrum disorder and ADHD. Controls were created for all unique patients in the SubBHD cohort matching one-to-one on gender, age and medical home facility — the latter accounting for any potential differences in services offered or types of conditions by geographic region. Matched controls were non-BHD KPNC patients pulled from the same automated clinical databases above using similar logic. The analytical sample resulted in 255,993 unique mental health cases and 255,993 unique matched controls for a total sample size of 511,986.

2.4. Measures

2.4.1. Patient characteristics

Demographic variables pulled from the KPNC automated clinical databases included gender, age, race/ethnicity and patient's medical home facility. Median household income was geocoded based on the member's address and should be considered a characteristic of the member's neighborhood, not individual data.

2.4.2. Psychiatric diagnoses

To understand the burden of psychiatric illness among those patients with one of the five most prevalent BHDs, we examined comorbid psychiatric conditions in the SubBHD sample; all psychiatric diagnoses noted during visits made to any department in the health plan over the course of the study period were included. We examined depressive disorders, bipolar spectrum disorders, anxiety disorders, ADHDs, autism spectrum disorders, personality disorders, substance use disorders, dementia, schizophrenia spectrum disorders and other psychoses. ICD-9 codes for these conditions can be found in the appendix (see Appendix A).

2.4.3. Medical comorbidities

The ICD-9 categories were used to examine the medical comorbidities for the SubBHD sample and their matched controls. First, frequencies for all of the ICD-9 categories were run against the SubBHD sample only; all medical diagnoses noted during visits in 2010 were included. After examining these results, the most pertinent categories were selected and used for the final analyses. The final ICD-9 categories were as follows: infectious and parasitic diseases (ICD-9-CM codes: 001-139 inclusive); neoplasms (ICD-9-CM codes: 140-239 inclusive); endocrine, nutritional and metabolic diseases, and immunity disorders (ICD-9-CM codes: 240–279 inclusive); diseases of the blood and blood-forming organs (ICD-9-CM codes: 280–289 inclusive); diseases of the nervous system and sense organs (ICD-9-CM codes: 320-389 inclusive); diseases of the circulatory system (ICD-9-CM codes: 390-459 inclusive); diseases of the respiratory system (ICD-9-CM codes: 460-519 inclusive); diseases of the digestive system (ICD-9-CM codes: 520-579 inclusive); diseases of the genitourinary system (ICD-9-CM codes: 580-629 inclusive); diseases of the skin and subcutaneous tissue (ICD-9-CM codes: 680-709 inclusive); diseases of the musculoskeletal system and connective tissue (ICD-9-CM codes: 710–739 inclusive). We examined the prevalence of each of final ICD-9 categories. We also created an indicator for the percent of patients who had any medical comorbidity by BHD.

2.4.4. Chronic medical conditions

As with the psychiatric and medical comorbidities, diagnoses noted during visits made over the course of the study period were used to code the chronic medical conditions for both the SubBHDs and matched controls. Fourteen chronic conditions were investigated and coded as follows: arthritis if ICD-9-CM codes were in the range of 710–719 inclusive; hypertension if ICD-9-CM codes were in the range of 401–405 inclusive, with the exception of diagnosis codes 402.01, 402.11, 402.91, 404.01 and 404.11; chronic pain if ICD-9-CM code was 338.2; diabetes

mellitus if ICD-9-CM code was 250; asthma if ICD-9-CM code was 493; ischemic heart disease if ICD-9-CM codes were in the range of 410-414 inclusive; congestive heart failure if ICD-9-CM codes were equal to 402.01, 402.11, 402.91, 404.01, 404.11 or 428; stroke/cerebrovascular accident if ICD-9-CM codes were in the range 430-434 inclusive; epilepsy if ICD-9-CM code was 345; Parkinson's disease if ICD-9-CM code was 332; end-stage renal disease if ICD-9-CM code was 585.6; HIV if patient was in the HIV registry; osteoporosis if ICD-9-CM code was 733.3; chronic obstructive pulmonary disease if ICD-9-CM codes equal 490-492 inclusive, 494-496 inclusive or 500-508 inclusive. These conditions are all common chronic conditions among the mental health population [12,25]. We examined the prevalence of each chronic condition by specific BHD. In addition, the Charlson Comorbidity Index was calculated to examine the cumulative burden of medical comorbidity. The Charlson Comorbidity Index is a weighted score of 17 conditions which predicts the risk of 10-year mortality for patients with a range of these diagnosis-based comorbid conditions [26,27].

2.5. Analysis

All analyses were performed using SAS software, version 9.3 (SAS Institute Inc., Cary, NC, USA); statistical significance was defined at P<.05. The BHD prevalence rate was first calculated for each BHD among all adult KPNC patients. We then focused on our subsample (SubBHDs) and used frequencies to examine the psychiatric comorbidities. Differences in patient characteristics, medical comorbidities and chronic medical conditions for each of the five BHDs in the SubBHD sample were examined comparing the SubBHD patients to their matched controls. Frequencies and means were used to summarize the patient characteristics, medical comorbidities and chronic conditions. χ^2 tests were used to examine differences between the SubBHDs and matched controls for the categorical variables, and t tests were used to examine differences in the means of the continuous covariates.

3. Results

3.1. Patient characteristics

Sixty-two percent of the combined SubBHD cohort and matched controls sample were women, the average age was 47, and median household income was \$61,946. Fifty-six percent of the sample was white, 8% African American, 12% Asian, 17% Hispanic, 1% American Indian or a Pacific Islander, and 6% unknown (not shown). The SubBHD cohort and the matched controls had similar demographic characteristics with a few

exceptions. The matched controls had higher median household income (\$62,499 vs. \$61,385; P<.001), more Asian patients (17% vs. 8%) and fewer white patients (51% vs. 61%) than the SubBHD cohort. All other race categories were similar (Ps<.0001, not shown). There were no significant differences in gender or age between the SubBHD cohort and the matched controls as they were matched based on these characteristics.

3.2. Psychiatric diagnoses

In 2010, BHDs were common among adult KPNC members with a health plan visit; 15% had at least one BHD; of those, 28% had multiple BHDs. Among all of those with a BHD, the five most common disorders (the SubBHD sample) were depression (58%), anxiety (42%), substance use (16%), bipolar spectrum (6%) and ADHD (4%) (not shown). In our SubBHD sample (patients with at least one of the five most prevalent BHDs), 29% had at least one psychiatric comorbidity. Among those, individuals with bipolar disorder had more psychiatric comorbidities than any other psychiatric condition examined in the SubBHD sample (Table 1).

3.3. Medical comorbidities and chronic conditions

Compared to the matched controls, each of the most prevalent BHDs [depression (80.1% vs. 66.3 %), anxiety (78.0% vs. 63.0%), substance use (74.0% vs. 59.9%), bipolar spectrum disorder (75.3% vs. 60.7%) and ADHD (60.6% vs. 53.1%; all *Ps*<.001)] had significantly more patients with any medical comorbidities based on the ICD-9 categories. This was true across all ICD-9 categories examined, with the exception being Diseases of the Circulatory system and Neoplasms for the ADHD comparison, which did not differ (Table 2).

We had similar findings with respect to the burden of chronic conditions. With the exception of ADHD and bipolar disorder, each specific BHD had a significantly higher prevalence of each chronic condition compared to the matched controls. Those with ADHD diagnoses did not significantly differ in the chronic conditions related to the circulatory system (hypertension, ischemic heart disease, congestive heart failure and stroke/cerebrovascular accident), Parkinson's disease or osteoporosis. However, there were significant differences between those with ADHD and their matched controls for the other chronic conditions. Patients with bipolar disorder did not significantly differ from their matched controls in prevalence of end-stage renal disease or osteoporosis. We also examined the Charlson Comorbidity Index and found that patients in the SubBHD sample had a significantly higher average Charlson Comorbidity index compared to their controls across all conditions examined (Table 3).

Table 1Co-occurring psychiatric comorbidity among each of the five most prevalent behavioral health disorders

	SubBHD cohort					
	Depression spectrum $(n=151,815)$	Anxiety spectrum (n=114,886)	Substance use $(n=45,461)$	Bipolar spectrum (n=14,943)	ADHD (n=11,846)	Total SubBHD cohort (n=255,993)
BHD disorders						
Depression disorder (%)	-	42.5	33.0	28.2	40.4	59.3
Anxiety disorder (%)	32.1	_	24.6	31.7	30.1	44.9
Substance use (%)	9.9	9.7	_	19.2	9.2	17.8
Bipolar spectrum (%)	2.8	4.1	6.3	-	7.9	5.8
ADHD (%)	3.2	3.1	2.4	6.3	_	4.6
Dementia (%)	1.3	1.0	0.8	1.0	0.9	1.0
Other psychoses (%)	1.2	1.2	3.1	5.7	1.0	1.2
Schizophrenia spectrum (%)	0.6	0.7	1.7	4.7	0.6	0.8
Personality disorder (%)	2.0	2.2	3.0	8.2	2.6	1.6
Autism (%)	0.1	0.2	0.1	0.4	1.2	0.2
Psychiatric comorbidities ^a						
1 or more psychiatric comorbidities	41.8	50.0	47.4	58.7	59.5	29.4 ^a
2 or more psychiatric comorbidities	9.0	11.5	20.5	29.8	25.4	6.1
3 or more psychiatric comorbidities	1.9	2.4	5.3	11.7	6.6	1.3

Diagnoses are not mutually exclusive, and therefore comparisons between behavioral health disorder groups cannot be made.

^a Among all patients with a BHD, 29% had one or more psychiatric comorbidities. Among the five most prevalent BHDs, the proportion of patients with at least one psychiatric comorbidity ranged from 42% to 60%.

Table 2Medical comorbidity associated with the five most prevalent behavioral health disorders

	Depression spectrum (n=151,815)	Matched controls	Anxiety spectrum (n=114,886)	Matched controls	Substance use $(n=45,461)$	Matched controls	Bipolar spectrum $(n=14,943)$	Matched controls	ADHD (n=11,846)	Matched controls	Total SubBHD sample (n=255,993)	Total matched controls
Infectious and parasitic diseases (%)	17.7	11.3***	17.3	11.2***	19.9	11.2***	18.5	11.3***	15.6	12.3***	17.1	11.2***
Neoplasms (%)	13.7	10.8***	12.9	9.8***	10.7	9.1***	10.7	9.2***	8.2	7.6	12.8	10.3***
Endocrine, nutritional, and metabolic diseases and immunity disorders (%)	50.5	36.2***	44.7	32.4***	45.2	32.0***	46.8	30.3***	25.6	22.0***	46.8	34.3***
Diseases of the blood and blood-forming organs (%)	9.6	4.3***	8.0	4.0***	14.3	3.3***	8.3	4.0***	3.7	3.0**	9.0	4.0***
Diseases of the nervous system and sense organs (%)	54.4	41.1***	50.5	38.7***	45.8	36.7***	51.2	37.2***	39.8	32.0***	50.2	39.6***
Diseases of the circulatory system (%)	39.8	30.5***	36.4	26.6***	41.5	26.7***	32.1	24.1***	17.0	16.3	38.1	28.7***
Diseases of the respiratory system (%)	37.9	26.1***	37.9	25.7***	33.8	24.5***	36.1	25.2***	32.2	24.9***	36.3	25.7***
Diseases of the digestive system (%)	35.5	20.4***	36.3	18.9***	36.8	18.2***	32.4	17.9***	20.7	14.4***	34.4	19.6***
Diseases of the genitourinary system (%)	33.9	24.6***	31.9	23.3***	27.3	19.8***	32.0	22.5***	22.0	18.2***	31.3	23.3***
Diseases of the skin and subcutaneous tissues (%)	32.2	26.8.***	31.6	25.8***	26.6	25.0***	30.4	25.0***	28.4	24.7***	30.8	26.3***
Diseases of the musculoskeletal system and connective tissue (%)	50.2	37.0***	47.5	34.6***	43.8	33.0***	45.6	33.1***	35.6	27.8***	47.0	35.5***
Any medical comorbidities (%)	80.1	66.3***	78.0	63.0***	74.0	59.9***	75.3	60.7***	60.6	53.1***	77.3	64.21 ***

^{* &}lt; .05.

4. Discussion

BHDs are highly prevalent in this health system. Fifteen percent of members with a health plan visit in 2010 had at least one BHD. By far, the most common were depression and anxiety. Moreover, among patients with BHD, psychiatric comorbidity is common; of those patients with a BHD, 28% had multiple BHDs. Among the five most prevalent BHDs, the proportion of patients with at least one psychiatric comorbidity ranged from 42% to 60%. Finally, those patients with a BHD carry a disproportionately high medical disease burden. With only a few exceptions, the proportion of BHD patients with a medical illness, including common chronic conditions, was significantly higher than non-BHD patients. Risk of 10-year mortality as calculated by the Charlson Index was found to be significantly higher for those with any of the BHDs examined compared to their matched controls. Thus, similar to studies of other patient subpopulations, BHDs in a largely commercially insured, employment-based health system are common and associated with a higher burden of chronic medical disease.

At the same time, these results differ from some of the other large data sets. For example, disabled Medicaid beneficiaries have a prevalence rate of psychiatric illness ranging from nearly 29% to 49%, depending on

whether the claims-based data include pharmacy data in addition to diagnostic codes [28]. This higher proportion likely reflects both a more vulnerable patient population and methodology that better captures patients being treated for a psychiatric illness without an associated diagnostic code. In that same data set, the Medicaid (nondisabled) aged population's prevalence of psychiatric illness more closely mirrored the prevalence in this study: 10.4% (diagnostic data only) or 35.9% (diagnostic plus pharmacy data). Our encounter data were based on ICD-9 coding and therefore are more similar to the diagnosis-only data from the Medicaid data set. The US National Comorbidity Survey Replication, which is based on a face-to-face household survey, reported a 26% any Diagnostic and Statistical Manual of Mental Disorders, Fourth Edition, disorder prevalence [29], and others have reported around 30% [30]. Given that fewer than half of people with a psychiatric illness receive treatment [31,32], these estimates are fairly consistent with the 15% prevalence observed in this study, which includes a patient population more representative of the general US population but only captures those who made a health plan visit.

This study has several limitations. As with other studies that have used claims-based data, our study only captures patients with behavioral health disorders noted in their visits during the study period. This

^{** &}lt; .01.

^{*** &}lt; .001.

Table 3Chronic conditions associated with the five most prevalent behavioral health disorders

	Depression spectrum (n=151,815)	Matched controls	Anxiety spectrum (n=114,886)	Matched controls	Substance use $(n=45,461)$	Matched controls	Bipolar spectrum (n=14,943)	Matched controls	ADHD (n=11,846)	Matched controls	Total SubBHD sample (n=255,993)	Total matched controls
Arthritis (%)	24.8	17.2***	21.7	15.3***	20.4	14.6***	21.7	14.8***	15.6	11.6***	22.4	16.2***
Hypertension (%)	32.2	24.8***	28.5	21.2***	33.1	21.4***	24.0	19.1***	11.5	12.0	30.5	23.2***
Chronic pain (%)	12.4	3.0***	11.2	2.7***	15.6	2.8***	12.9	2.9***	6.6	2.2***	10.8	2.8***
Diabetes mellitus (%)	12.8	9.3***	9.1	8.1***	10.8	8.7***	10.9	7.5***	3.7	4.6**	11.1	8.8***
Asthma (%)	14.6	8.0***	14.0	7.5***	12.2	7.1***	15.9	7.4***	12.7	7.2***	13.4	7.7***
Ischemic heart disease (%)	5.1	2.6***	3.8	2.0***	5.4	2.8***	2.7	1.8***	1.0	1.0	4.6	2.5***
Congestive heart failure (%)	2.5	0.9***	1.7	0.7***	3.3	0.8***	1.5	0.6***	0.3	0.3	2.2	0.8***
Stroke/ cerebrovascular accident (%)	1.4	0.5***	1.0	0.4***	1.9	0.4***	0.8	0.3***	0.3	0.2	1.3	0.4***
Epilepsy (%)	1.3	0.4***	1.1	0.4***	2.1	0.4***	2.0	0.4***	1.0	0.5***	1.2	0.4***
Parkinson's disease (%)	0.4	0.1***	0.3	0.2***	0.2	0.1***	0.7	0.1***	0.1	0.0	0.4	0.1***
End-stage renal disease (%)	0.4	0.2***	0.2	0.1*	0.4	0.2***	0.2	0.2	0.0	0.1*	0.3	0.2***
HIV (%)	0.9	0.2***	0.6	0.3***	1.0	0.4***	1.0	0.3***	0.7	0.3***	0.8	0.3***
Osteoporosis (%)	2.4	2.1***	2.1	1.6***	1.2	0.8***	1.2	1.3	0.5	0.5	2.1	1.8***
Chronic obstructive pulmonary disease (%)	6.5	3.1***	5.6	2.8***	8.5	2.8***	6.7	2.4***	3.0	1.8***	6.1	3.0***
Charlson Index [mean (SD)]	.5 (1.1)	.3 (.8)***	.4 (0.9)	.3 (.8)***	.4 (1.1)	.3 (.8)***	.4 (0.9)	.3 (.8)***	.20 (.6)	.17 (.6)**	.4 (1.1)	.3 (.8)***

^{* &}lt; .05.

methodology is vulnerable to under-estimation especially with regards to behavioral health disorders. Moreover, we know that a significant proportion of patients with behavioral disorders do not receive treatment [33]. Therefore, the BHD prevalence data in our study likely underestimate the actual prevalence. Future studies could address whether the addition of pharmacy-based prescription data improves the prevalence estimates. Another possible limitation of our method is that we only required a single mention of a diagnosis to link the patient with that diagnosis. This could result in an overestimation of the true prevalence if diagnoses only mentioned one time are more likely to be inaccurate. However, we do not suspect this. The single-mention methodology is well established [34–37]. And even if this methodology resulted in an overestimation, it would affect both arms of the case control and, therefore, would likely not affect our finding of a difference between the two arms. In addition, this study also does not examine whether there are specific diagnostic dyads and/or triads that are especially common — a possible focus for future studies. Finally, it is unclear whether the impact of these comorbidities on health care costs and outcomes is attenuated in an integrated health system like the one studied in which care is already highly managed, especially in comparison to study populations that are treated in largely a fee-for-service environment. This knowledge gap will be important for future studies to address.

Regardless of how these results compare to other patient populations and health systems, the finding is striking — BHDs are highly prevalent, and even more concerning, these patients have a significantly higher medical comorbidity burden and associated risk of 10-year mortality rate. Given how the co-occurrence of behavioral and medical conditions leads to elevated symptom burden, functional impairment, decreased length and quality of life, and increased costs [5,6], these findings highlight the importance of developing and implementing collaborative models of care in (nonpublic) employment-based health systems that are effective at treating patients with comorbid BHD and medical conditions. Many models have emerged ranging from enhanced coordination to colocation of services to full integration [38]. All of these efforts share

the concept of organizing care in a medical home in which a health care team (not one individual) provides stepped care with disease and population health management protocols. The high prevalence of multiple psychiatric disorders also argues for lifestyle interventions that focus on behavioral issues in general rather than specific diagnoses, a focus that would be greatly welcomed by primary care physicians. In the employment-based insurance population captured in this study, it is important to focus on depression and anxiety disorders. Important questions include whether outcome measures and even treatment protocols can be developed that are transdiagnostic (i.e., include both anxiety and depression together), the role of Internet-based cognitive behavioral therapy, the relative mix of individual versus group-based treatments and the extent to which the medical record is fully open.

Acknowledgments

This study was supported by Sidney R. Garfield Memorial Fund. We thank Agatha Hinman, B.A., for editorial assistance.

Appendix A

Anxiety disorders	
300.00	Anxiety disorder NOS
300.01	Panic disorder without agoraphobia
300.02	Generalized anxiety disorder
300.2	Phobia, unspecified
300.21	Panic disorder with agoraphobia
300.22	Agoraphobia without history of panic disorder
300.23	Social phobia (social anxiety disorder)
300.29	Specific phobia
300.3	Obsessive compulsive disorder

(continued on next page)

^{** &}lt; .01.

^{*** &}lt; .001.

Depressive disorders

(continued)

(continued)	Depressive disorders	
Anxiety disorders	296.2 Major de	pression, single episode, unspecified
	296.20 Major de	pression, single episode, unspecified
309.20 Adjustment disorders with anxiety	296.21 Major de	pression, single episode, mild
309.21 Separation anxiety disorder	,	pression, single episode, moderate
309.24 Adjustment disorder with anxiety	,	pression, single episode, severe without psychosis
309.81 Posttraumatic stress disorder		pression, single episode, severe with psychosis
308.3 Acute stress disorder	,	pression, single episode, in partial remission
Attention deficit disorders	,	pression, single episode, in full remission
	,	pression, recurrent, unspecified
314.00 Attention deficit disorder, inattentive type	,	•
314.01 Attention deficit disorder, hyperactive/impulsive or combined type		pression, recurrent, unspecified
314.1 Hyperkinesis with developmental delay	,	pression, recurrent, mild
314.2 Hyperkinetic conduct disorder of childhood		pression, recurrent, moderate
314.8 Other specific manifests hyperkinetic syndrome, child		pression, recurrent, severe without psychosis
314.9 Attention deficit disorder NOS		pression, recurrent, severe with psychosis
Autism spectrum disorders	,	pression, recurrent, in partial remission
	296.36 Major de	pression, recurrent, in full remission
299.01 Autistic disorder, residual state		depressive disorder
299.10 Childhood disintegrative disorder	298.0 Depressiv	ve-type psychosis
299.11 Childhood disintegrative disorder, residual state	300.4 Dysthym	ia
299.80 Asperger's disorder/pervasive developmental disorder	301.12 Chronic of	lepressive personality disorder
299.00 Autistic disorder, current or active state	311 Depressiv	ve disorder NOS
Bipolar spectrum disorders	309.0 Adjustme	ent disorder with depressed mood
200.00 Pictor Library and a citate and a cita		d depressive reaction
296.00 Bipolar I disorder, single manic episode, unspecified	_	ent disorder with mixed anxiety and depressed mood
296.01 Bipolar I disorder, single manic episode, mild	Other psychoses	and disposace with minica anniety and depressed mood
296.02 Bipolar I disorder, single manic episode, moderate	Other psychoses	
296.03 Bipolar I disorder, single manic episode, severe without psychosis	297.1	Delusional disorder
296.04 Bipolar I disorder, single manic episode, severe with psychosis	297.3	Shared psychotic disorder
296.05 Bipolar I disorder, single manic episode, in partial remission	298.8	Brief psychotic disorder
296.06 Bipolar I disorder, single manic episode, in full remission	298.9	Psychotic disorder NOS
296.1 Manic recurrent episode	Personality disorder	·
296.10 Manic disorder recurrent episode unspecified		
296.11 Recurrent manic disorder, mild	301.0	Paranoid personality disorder
296.12 Recurrent manic disorder, moderate	301.1	Affective personality disorder, unspecified
296.13 Recurrent manic disorder, severe	301.11	Chronic hypomanic personality disorder
296.14 Manic affective disorder, recurrent episode, severe, specified as with	301.12	Chronic depressive personality disorder
psychotic behavior	301.13	Cyclothymic disorder
296.15 Manic affective disorder, recurrent episode, in partial or unspecified	301.2	Schizoid personality disorder
remission	301.20	Schizoid personality disorder, unspecified
296.16 Recurrent manic disorder, full remission	301.21	Introverted personality
	301.22	Schizotypal personality disorder
296.40 Bipolar I disorder, most recent episode manic, unspecified	301.3	Explosive
296.41 Bipolar I disorder, most recent episode manic, mild	301.4	Obsessive compulsive (personality disorder)
296.42 Bipolar I disorder, most recent episode manic, moderate	301.5	Histrionic personality disorder
296.43 Bipolar I disorder, most recent episode manic, severe without psychosis	301.50	Histrionic personality disorder, unspecified
296.44 Bipolar I disorder, most recent episode manic, severe with psychosis	301.51	Chronic factitious illness with physical symptoms
296.45 Bipolar I disorder, most recent episode manic, in partial remission	301.52	Other histrionic personality disorder
296.46 Bipolar I disorder, most recent episode manic, in full remission	301.6	Dependent personality disorder
296.50 Bipolar I disorder, most recent episode depressed, unspecified	301.7	Antisocial personality disorder
296.51 Bipolar I disorder, most recent episode depressed, mild		
296.52 Bipolar I disorder, most recent episode depressed, moderate	301.8	Other personality disorder
296.53 Bipolar I disorder, most recent episode depressed, severe without	301.81	Narcissistic personality disorder
psychosis	301.82	Avoidant personality disorder
296.54 Bipolar I disorder, most recent episode depressed, severe with psychosis	301.83	Borderline personality disorder
296.55 Bipolar I disorder, most recent episode depressed, in partial remission	301.84	Passive-aggressive personality
296.56 Bipolar I disorder, most recent episode depressed, in full remission	301.89	Other personality disorders
296.60 Bipolar I disorder, most recent episode mixed, unspecified	301.9	Unspecified personality disorder
296.61 Bipolar I disorder, most recent episode mixed, mild	Schizophrenia spectrum diso	rders
296.62 Bipolar I disorder, most recent episode mixed, moderate	205.0 Cimals transactions	haania
296.63 Bipolar I disorder, most recent episode mixed, moderate	295.0 Simple-type schizop	
296.64 Bipolar I disorder, most recent episode mixed, severe without psychosis	295.00 Simple-type schizop	
	295.01 Simple-type schizop	
296.65 Bipolar I disorder, most recent episode mixed, in partial remission	295.02 Simple-type schizop	
296.66 Bipolar I disorder, most recent episode mixed, in full remission		hrenia, subchronic with acute exacerbation
296.7 Bipolar I disorder, most recent episode unspecified	1 21 1	hrenia, chronic with acute exacerbation
296.80 Bipolar disorder NOS	295.05 Simple-type schizop	
296.81 Atypical manic disorder	295.1 Disorganized-type se	chizophrenia
296.89 Bipolar II disorder	295.10 Disorganized-type se	
301.11 Chronic hypomanic disorder	295.11 Disorganized-type se	chizophrenia, subchronic
301.13 Cyclothymic disorder	295.12 Disorganized-type se	chizophrenia, chronic
Dementia		chizophrenia, subchronic with acute exacerbation
200 0 Sanila demantia uncomplicated		chizophrenia, chronic with acute exacerbation
290.0 Senile dementia uncomplicated	295.15 Disorganized-type se	•
290.1 Presenile dementia	295.2* Catatonic-type schiz	
290.2 Senile dementia with depressive features	295.20 Catatonic-type schiz	
290.3 Senile dementia with delirium	295.21 Catatonic-type schiz	
290.4 Vascular dementia	295.21 Catatonic-type schiz	
290.8 Other specified senile psychotic conditions		ophrenia, subchronic with acute exacerbation
290.9 Unspecified senile psychotic condition		
780.93 Memory loss		ophrenia, chronic with acute exacerbation
	295.25 Catatonic-type schiz	opinema, in remission

Salation we demokes Salation process parameter type schiegopherma, surgectived Salation process parameter type schiegopherma, surgectived Salation process parameter type schiegopherma, surgectived Salation process proc	(continue	d)	(continue	ed)
Paramolet pres estimopherinal, sumpsecified 222,9 Paramolet pres chizopherinal, subchronic 222,9 Imperiented disciplination of the presented of the p	Schizop	hrenia spectrum disorders	Substan	nce use disorders
Paramoli-type schrophrenia, subchronic	295.3	Schizophrenia, paranoid type	292.85	Drug-induced sleep disorders
Passand lype schrappierus, character 933 Akanind dependence syndrome 934, 935, 937 Passand lype schrappierus, scheronic with acute excentation 930, 94, 94, 94, 94, 94, 94, 94, 94, 94, 94				1 0
Jack Jaranold-type schapybrenia, subchronic with acute cacerbation Jack Jaranold-type schapybrenia, in remission Jack John Jack Jack Jack Jack Jack Jack Jack Jack				
Paranold-type schapphrenia, the remission 9303 Acute accordance 9303 Paranold-type schapphrenia, the remission 9303 Acute accordance				•
Sexual progression in actualisms, memission Single Schrophrenism in actualisms, memission Single Schrophrenism in actualisms, memission Single Schrophrenism in actualisms, memission Schrophrenism disorder, memission Schrophrenism disorder, controlled Single Schrophrenism disorder, controlled Single Schrophrenism disorder, controlled Single Schrophrenism disorder, controlled Schrophrenis disorder, controlled Schrop				
Schzophreniform disorder, subschromic 29542 Schzophreniform disorder, subschromic 29542 Schzophreniform disorder, subschromic 29543 Schzophreniform disorder, subschromic 29545 Schzophreniform disorder, subschromic 29545 Schzophreniform disorder, subschromic 29545 Schzophreniform disorder, subschromic 29545 Schzophreniform disorder, in remission 29545 Schzophreniform disorder, in remission 2955 Latent schzophrenia, unspecified 29546 Latent schzophrenia, unspecified 29545 Latent schzophrenia, unspecified 29545 Latent schzophrenia, unspecified 29546 Latent schzophrenia, unspecified 29546 Latent schzophrenia, in remission 29545 Latent schzophrenia, in remission 29546 Schzophrenie disorders, residual type, unspecified 29540 Schzophrenie disorders, residual type, unspecified 29541 Schzophrenie disorders, residual type, unspecified 29542 Schzophrenie disorders, residual type, unspecified 29543 Schzophrenie disorders, residual type, unspecified 29545 Schzophrenie disorders, residual type, unspecified 29545 Schzophrenie disorders, residual type, unspecified 29546 Schzophrenie disorders, residual type, unspecified 29547 Schzophrenie disorders, residual type, unspecified 29548 Schzophrenie disorders, residual type, unspecified 29549 Schzophrenie disorders, residual type, unspecified 29549 Schzophrenie disorders, residual type, unspecified 29540 Schzophreni				
29543 Schizophreniform disorder, subchronic 29543 Schizophreniform disorder, chronic with acute exacerbation 29545 Schizophreniform disorder, chronic with acute exacerbation 29554 Schizophreniform disorder, chronic with acute exacerbation 29554 Schizophrenic disorders, remove with acute exacerbation 29555 Latent schizophrenia, suchronic with acute exacerbation 29556 Schizophrenia, chronic with acute exacerbation 2956 Schizophrenia, chronic with acute exacerbation 2957 Schizophrenia, chronic with acute exacerbation 2958 Schizophrenia disorder, remission 2959 Schizophrenia, chronic with acute exacerbation 2959 Schizophrenia disorders, residual type, unspecified 2950 Schizophrenic disorders, residual type, unspecified 2951 Schizophrenia disorders, residual type, unspecified 2952 Schizophrenic disorders, residual type, unspecified 2953 Schizophrenic disorders, residual type, unspecified 2954 Schizophrenic disorders, residual type, unspecified 2955 Schizophrenic disorders, residual type, unspecified 2956 Schizophrenic disorders, residual type, unspecified 2957 Schizophrenic disorders, residual type, unspecified 2958 Schizophrenic disorders, residual type, unspecified 2959 Schizophrenic disorders, residual type, unspecified 2950 Schizophrenic disorders, residual type, unspecified 2951 Schizophrenic disorders, residual type, unspecified 2952 Schizophrenic disorders, residual type, unspecified 2953 Schizophrenic disorders, residual type, unspecified 2954 Schizophrenic disorders, residual type, unspecified 2955 Schizophrenic disorders, residual type, unspecified 2956 Schizophrenic disorders, residual type, unspecified 2957 Schizophrenic disorders, residual type, unspecified 2958 Schizophrenic disorders, residual type, unspecified 2959 Schizophrenic disorders, residual type, unspecified 2950 Schizophrenic disorders, residual type, unspecified 2951 Schizophrenic disorders, residual type, unspecified 2952 Schizophrenic disorders, residual type, unspecified 2953 Schizophrenic disorders, residual type, unspecified 2954 Schiz			303.02	Acute alcoholic intoxication in alcoholism, episodic
29545 Shizophreniform disorder, chronic with acute exacerbation 29545 Stizophreniform disorder, enhennic with acute exacerbation 29545 Stizophreniform disorder, in emission 29545 Stizophreniform disorder, in emission 29551 Latent schizophrenia, unspecified 29552 Latent schizophrenia, unspecified 29553 Latent schizophrenia, unspecified 29553 Latent schizophrenia, unspecified 29554 Latent schizophrenia, unspecified 29555 Latent schizophrenia, unspecified 29556 Stizophrenic disorders residual type, unspecified 29556 Stizophrenic disorders residual type, unspecified 2956 Stizophrenic disorders residual type, unspecified 29576 Stizophrenic disorders residual type, schronic 2958 Stizophrenic disorders residual type, chronic with acute exacerbation 2958 Stizophrenic disorders residual type, chronic with acute exacerbation 2959 Stizophrenic disorders residual type, chronic with acute exacerbation 2959 Stizophrenic disorders residual type, chronic with acute exacerbation 2950 Stizophrenic disorders residual type, chronic with acute exacerbation 2951 Stizophrenic disorders residual type, chronic with acute exacerbation 2952 Stizophrenic disorders residual type, chronic with acute exacerbation 2953 Stizophrenic disorders residual type, chronic with acute exacerbation 2954 Stizophrenic disorders residual type, chronic with acute exacerbation 2955 Stizophrenic disorders residual type, chronic with acute exacerbation 2956 Stizophrenic disorders residual type, chronic with acute exacerbation 2957 Stizophrenic disorders residual type, chronic with acute exacerbation 2958 Stizophrenic disorders with acute exacerbation 2958 Stizophrenic disorders with acute exacerbation 2959 Stizophrenic disorders with acute exacer				
Schzophreniform disorder, suchronic with acute exacerbation 2934 Schzophreniform disorder, incremission 2935 International process of the p		*		*
Schizophreniform disorder, tromic with acute exacerbation 303.93 (other and unspecified alcohold dependence, in remission 304.03 (opiol-type dependence, continuous 305.95 (opiol-type dependence,				
Schizophreniform disorder, in remission 255.5 Latent schizophrenia, unspecified 256.5 Latent schizophrenia, unspecified 257.5 Latent schizophrenia, unspecified 258.6 Latent schizophrenia, subchronic with acute exacerbation 258.6 Latent schizophrenia, subchronic with acute exacerbation 258.6 Latent schizophrenia, remission 258.6 Schizophrenia, residual type, unspecified 258.6 Schizophrenia, residual type, unspecified 258.6 Schizophrenia (remission) 258.7 Schizoffictive (remission) 258.7 Schizoffictive (remission) 258.8 Ober specified (remission) 258.7 Schizoffictive disorder, unspecified 258.7 Schizoffictive disorder, unspecified 258.7 Schizoffictive disorder, unspecified 258.8 Other specified types of schizophrenia, unspecified 258.8 Other specified types of schizophrenia, unspecified 258.9 Unspecified schizophrenia, hardward and exacerbation 258.9 Unspecified schizophrenia, hardward exacerbation 258.9 Unspecified schizophrenia, hardward exacerbation 258.9 Unspecified schizophrenia, hardward exacerbation 258.1 Northward exacerbation and prov				
19550 Latent schizophrenia, suspecified 29551 Latent schizophrenia, subpecified 29552 Latent schizophrenia, chronic 29553 Latent schizophrenia, chronic 29553 Latent schizophrenia, chronic 29553 Latent schizophrenia, chronic with acute exacerbation 29565 Latent schizophrenia, from with acute exacerbation 29575 Latent schizophrenia, from with acute exacerbation 29585 Latent schizophrenia, from with acute exacerbation 29585 Latent schizophrenia, from with acute exacerbation 29585 Latent schizophrenia, from with acute exacerbation 29586 Schizophrenia disorders, residual type, unspecified 29586 Schizophrenia disorders, residual type, chronic 29586 Schizophrenia disorders, residual type, chronic 29586 Schizophrenia disorders, residual type, chronic with acute exacerbation 2968 Schizophrenia disorders, residual type, chronic with acute exacerbation 2968 Schizophrenia disorders, residual type, chronic with acute exacerbation 2968 Schizophrenia disorders, residual type, chronic with acute exacerbation 2969 Schizophrenia disorders, residual type, chronic with acute exacerbation 2960 Schizophrenia disorders, residual type, chronic with acute exacerbation 2960 Schizophrenia disorders, residual type, chronic with acute exacerbation 2961 Schizophrenia disorders, residual type, chronic with acute exacerbation 2962 Schizophrenia disorders, residual type, chronic with acute exacerbation 2963 Schizophrenia disorders, residual type, chronic with acute exacerbation 2964 Schizophrenia disorders, residual type, chronic with acute exacerbation 2965 Schizophrenia disorders, residual type, chronic with acute exacerbation 2965 Schizophrenia disorders, subspecified 2966 Schizophrenia, subchronic with acute exacerbation 2967 Schizophrenia disorders, subchronic with acute exacerbation 2968 Other specified specified schizophrenia, unspecified 2968 Other specified specified schizophrenia, unspecified 2969 Schizophrenia, unspecified 2969 Schizophrenia, unchronic with acute exacerbation 2960 Unspecified schizophrenia, unchronic with acute exac			303.93	
19551 Latent schizophrenia, shorbronic 29552 Latent schizophrenia, shorbronic with acute exacerbation 3960 Opioid-type dependence, continuous 39610 Opioid-type dependence, continuous 39653 Latent schizophrenia, him emission 39610 Opioid-type dependence, prisodic 39610 Opioid-type dependence, prisodic 39610 Opioid-type dependence, in remission 39610 Schizophrenia disorders, residual type, subchronic 39610 Schizophrenia disorders, residual type, subchronic with acute exacerbation 39610 Schizophrenia disorders, residual type, subchronic with acute exacerbation 39610 Schizophrenia disorders, residual type, subchronic with acute exacerbation 39610 Schizophrenia disorders, residual type, subchronic with acute exacerbation 39610 Schizophrenia disorders, residual type, subchronic with acute exacerbation 39610 Schizophrenia disorders, residual type, subchronic with acute exacerbation 39610 Schizophrenia disorder, chronic with acute exacerbation 39610 Schizophrenia disorder, chronic with acute exacerbation 39611 Schizophrenia disorder, chronic with acute exacerbation 39612 Cocaine dependence, spisodic 39613 Schizophrenia disorder, chronic with acute exacerbation 39613 Cannabis dependence, spisodic 39613 Schizophrenia, chronic with acute exacerbation 39613 Cannabis dependence, spisodic 39614 Cannabis dependence, spisodic 39615 Schizophrenia, chronic with acute exacerbation 39616 Schizophrenia, chronic with acute exacerbation 39617 Schizophrenia, chronic with acute exacerbation 39618 Other specified types of schizophrenia, ultronic with acute exacerbation 39619 Object specified schizophrenia, unspecified 39610 Other specified				
295.53 Latent schizophtrenia, schronic with acute exacerbation 304.00 olipid-type dependence, continuous 295.53 Latent schizophtrenia, incrinoir with acute exacerbation 304.03 olipid-type dependence, in remission 304.03 olipid-type dependence, continuous 304.03 olipid-type dependence, serior 304.03 olipid-type dependence, serior 304.03 olipid-type dependence, and 304.03 olipid-type dependence, and 304.00 olipid-type dependence, and 304.00 olipid-type dependence, and 304.00 olipid-type dependence, serior 304.00 olipid-type dependence, and 304.00 olipid-type drug, septimized 304.00 olipid-type drug, serior 304.00 olipid-type drug, with any other drug dependence, and 304.00 olipid-type drug, with any other drug dependence, and 304.00 olipid-type drug, with any other drug dependence, and 304.00 olipid-type drug, with any other drug dependence, and 304.00 olipid-type drug, with any other drug dependence, and 304.00 olipid-type drug, with any other drug dependence, and 304.00 olipid-type drug, and 304.00 olipid-type drug, with any other drug dependence, and 304.00 olipid-type drug, with any other drug dependence, and 304.00 olipid-type drug, with any other drug dependence, and 304.00 olipid-type drug with any other drug dependence, and 304.00 olipid-type drug with any other dru				
295.54 Letters tchizophrenia, subchronic with acute exacerbation 295.55 Latent schizophrenia, in remission 295.56 Letter schizophrenia, in remission 295.56 Schizophrenia, residual type, unspecified 295.60 Schizophrenia, festudial register of the schizophrenia (annual properties) 295.61 Schizophrenia (disorders, residual type, unspecified 295.62 Schizophrenia (disorders, residual type, unspecified 295.63 Schizophrenia (disorders, residual type, unspecified 295.64 Schizophrenia (disorders, residual type, unspecified 295.65 Schizophrenia (disorders) 295.66 Schizophrenia (disorders) 295.67 Schizophrenia (disorders) 295.67 Schizophrenia (disorders) 295.78 Schizophrenia (disorders) 295.79 Schizophrenia (disorders) 295.70 S				
Jaces Schizophrenia, irronia, chronic with acute exacerbation 304.03 Spicial type dependence, in remission 304.15 Selative, hypratic or analysity dependence, continuous 304.16 Selative, hypratic or analysity dependence, continuous 304.16 Selative, hypratic or analysity dependence, continuous 304.17 Selative, hypratic or analysity dependence, continuous 304.18 Selative, hypratic or analysity dependence, continuous 304.18 Selative, hypratic or analysity dependence, premission 304.28 Selative, hypratic or analysity dependence, premission 304.28 Selative, hypratic or analysity dependence, premission 304.29 Selative, hypratic or analysity dependence, premission 304.20 Selative, hypratic or analysity dependence, premission 304.20 Selative, hypratic or analysity dependence, premission 304.21 Selative, hypratic or analysity dependence, premission 304.22 Selative, hypratic or analysity dependence, premission 304.22 Selative, hypratic or analysity dependence, premission 304.22 Selative, hypratic or analysity dependence, premission 304.23 Selative, hypratic or analysity dependence, premission 304.24 Selative, hypratic or analysity dependence, premission 304.25 Selative, hypratic disorder, analysis or premission 304.25 Selative, hypratic disoreder, analysis or premission 304.25 Selative, hypratic disord				
29555 Schizophrenia, in remission 304.1 Sedative, hyprotic or ansiotytic dependence, unspecified 20565 Schizophrenia, residual type, unspecified 304.11 Sedative, hyprotic or ansiotytic dependence, unspecified 304.15 Sedative, hyprotic or ansiotytic dependence, cuntimuss 304.15 Sedative, hyprotic or ansiotytic dependence, episodic 304.25 Sedative, hyprotic or ansiotytic dependence, episodic		•		1 31 1 1
Selfation Schizophrenic disorders, residual type, unspecified Selfation Selfative, hypnotic or anxiolytic dependence, continuous Selfative, hypnotic dependence, continuous Selfative, hypnotic dependence, continuous Selfative, hypnotic dependence, continuous Selfative, hypnotic dependence, continuous Selfative, hypno		•	304.1	Sedative, hypnotic or anxiolytic dependence
Schizophrenic disorders, residual type, subchronic 394.12 Sedative, hypnotic or anxiolytic dependence, episodic 395.52 Schizophrenic disorders, residual type, subchronic with acute exacerbation 304.21 Sedative, hypnotic or anxiolytic dependence, in remission 304.22 Sociale dependence, continuous 304.22 Sociale dependence, continuous 304.23 Sedative, hypnotic or anxiolytic dependence, in remission 304.21 Sedative, hypnotic or anxiolytic dependence, in remission 304.22 Sociale dependence, continuous 304.23 Sedative, hypnotic or anxiolytic dependence, in remission 304.23 Sedative, hypnotic or anxiolytic dependence, depe				
295.63 Schizophrenic disorders, residual type, chronic with acute exacerbation exacerbation solution of the control of the con				
Section of the properties of storders, residual type, subchronic with acute exacerbation Solicity of the properties of storders, residual type, in remission Solicity of Schizophrenic disorders, residual type, in remission Solicity of Schizophrenic disorder, subchronic Solicity of Schizophrenic disorder, solicity of S				
exacerbation 95646 Schizophrenic disorders, residual type, chronic with acute exacerbation 95757 Schizoaffective disorder, unspecified 95757 Schizoaffective disorder, subchronic 95757 Schizoaffective disorder, chronic 95758 Obres Specified yes of Schizophrenia, in remission 95758 Obres Specified yes of Schizophrenia, unspecified 95759 Obres Specified yes of Schizophrenia, subchronic 95750 Obres Specified yes of Schizophrenia, subchronic 95750 Obres Specified yes of Schizophrenia, subchronic 95750 Obres Specified yes of Schizophrenia, subchronic with acute exacerbation 95750 Obres Specified yes of Schizophrenia, subchronic with acute exacerbation 95750 Obres Specified yes of Schizophrenia, in remission 95751 Obres Specified yes of Schizophrenia, in remission 95751 Obres Specified yes of Schizophrenia, in remission 95752 Obres Specified yes of Schizophrenia, in remission 95753 Obres Specified yes of Schizophrenia, in remission 95754 Obres Specified Schizophrenia, subchronic with acute exacerbation 95755 Obres Specified Schizophrenia, in remission 95756 Obres Specified Schizophrenia, in remission 95757 Obres Specified Schizophrenia, subchronic with acute exacerbation 95758 Obres Specified Schizophrenia, in remission 95759 Unspecified Schizophrenia, unspecified 95750 Obres Specified Schizophrenia, in remission 95750 Obres Specified Schizophrenia, in remission 95751 Obres Specified Schizophrenia, in remission 95751 Obres Specified Schizophrenia, in remission 95757 Obres Specified Schizophrenia, in remission 95759 Unspecified Schizophrenia, subchronic with acute exacerbation 95750 Obres S				
Schizophrenic disorders, residual type, chronic with acute exacerbation Solition S	255.05	*		
Schizoaffective disorder, unspecified 295.71 Schizoaffective disorder, unspecified 295.72 Schizoaffective disorder, subchronic 295.73 Schizoaffective disorder, subchronic with acute exacerbation 295.74 Schizoaffective disorder, subchronic with acute exacerbation 295.75 Schizoaffective disorder, chronic with acute exacerbation 295.76 Schizoaffective disorder, in remission 295.77 Schizoaffective disorder, in remission 295.78 Other specified types of schizophrenia, expecified 295.80 Other specified types of schizophrenia, subchronic 295.81 Other specified types of schizophrenia, subchronic 295.82 Other specified types of schizophrenia, subchronic 295.82 Other specified types of schizophrenia, subchronic 295.83 Other specified types of schizophrenia, subchronic with acute 295.84 Other specified types of schizophrenia, subchronic with acute 295.85 Other specified types of schizophrenia, in remission 295.85 Other specified types of schizophrenia, in remission 295.80 Other specified types of schizophrenia, in remission 295.90 Unspecified schizophrenia, subchronic with acute exacerbation 295.90 Unspecified schizophrenia, subchr	295.64			
9.57.5 Schizoaffective disorder, unspecified 9.04.1 Cannabis dependence, unspecified 9.05.7 Schizoaffective disorder, chronic 9.05.7 Schizoaffective disorder, chronic with acute exacerbation 9.05.7 Schizoaffective disorder, in remission 9.05.8 Other specified types of schizophrenia, unspecified 9.05.8 Other specified types of schizophrenia, subchronic 9.05.8 Other specified types of schizophrenia, subchronic with acute exacerbation 9.05.8 Other specified types of schizophrenia, subchronic with acute exacerbation 9.05.8 Other specified types of schizophrenia, unspecified 9.05.9 Unspecified schizophrenia, chronic with acute exacerbation 9.06.9 Unspecified schizophrenia, unspecified 9.06.9 Unspecified schizophrenia, chronic with acute exacerbation 9.06.9 Unspecified schizophrenia, unspecified 9.06.9 Unspecified schizophrenia, chronic with acute exacerbation 9.06.9 Unspecif				
Schizoaffective disorder, subchronic 30430 Cannabis dependence, unspecified 30431 Cannabis dependence, continuous 30431 Cannabis dependence, continuous 30431 Cannabis dependence, continuous 30432 Cannabis dependence, continuous 30432 Cannabis dependence, continuous 30432 Cannabis dependence, continuous 30432 Cannabis dependence, in remission 30442 Cannabis dependence, in remission 30442 Cannabis dependence, in remission 30443 Cannabis dependence, in remission 30444 Cannabis dependence, in remission 30442 Cannabis dependence, in remission 30443 Cannabis dependence, in remission 30452 Cannabis dependence, in remission 30453 Cannabis dependence, in remission 30				
295.73 Schizoaffective disorder, chronic 295.74 Schizoaffective disorder, subchronic with acute exacerbation 295.75 Schizoaffective disorder, chronic with acute exacerbation 295.75 Schizoaffective disorder, chronic with acute exacerbation 295.75 Schizoaffective disorder, in remission 295.80 Other specified types of schizophrenia 295.80 Other specified types of schizophrenia, uspecified 295.80 Other specified types of schizophrenia, subchronic 295.81 Other specified types of schizophrenia, subchronic 295.81 Other specified types of schizophrenia, subchronic with acute 295.82 Other specified types of schizophrenia, subchronic with acute 295.83 Other specified types of schizophrenia, subchronic with acute 295.84 Other specified types of schizophrenia, in remission 295.85 Other specified types of schizophrenia, in remission 295.95 Unspecified schizophrenia, subchronic 295.90 Unspecified schizophrenia, subchronic 295.90 Unspecified schizophrenia, subchronic 295.90 Unspecified schizophrenia, subchronic with acute exacerbation 295.91 Unspecified schizophrenia, subchronic with acute exacerbation 295.92 Unspecified schizophrenia, subchronic with acute exacerbation 295.93 Unspecified schizophrenia, subchronic with acute exacerbation 295.94 Unspecified schizophrenia, subchronic with acute exacerbation 295.95 Unspecified schizophrenia, subchronic with acute exacerbation 296.95 Unspecified schizophrenia, subchronic with acute exacerbation 297.95 Unspecified schizophrenia, thronic with acute exacerbation 298.95 Unspecified schizophrenia, thronic with acute exacerbation 299.10 Alcohol-induced mental disorders 291.10 Alcohol-induced presisting ammestic disorder 291.11 Alcohol-induced presisting ammestic disorder 292.12 Alcohol-induced presisting ammestic disorder 293.13 Other specified schizophrenia, formic with acute exacerbation 294.14 Idosopractia calcohol induced mental disorders 295.15 Unspecified schizophrenia, formic with acute exacerbation 296.16 Alcohol-induced psychotic disorder with allucinations 297.17 Alcohol-indu				*
295.73 Schizoaffective disorder, subchronic with acute exacerbation 304.32 Cannabis dependence, episodic 295.75 Schizoaffective disorder, chronic with acute exacerbation 304.43 Amphetamine and other psychostimulant dependence 295.80 Other specified types of schizophrenia, unspecified 304.44 Amphetamine and other psychostimulant dependence, unspecified 295.81 Other specified types of schizophrenia, subchronic 304.42 Amphetamine and other psychostimulant dependence, continuous 295.82 Other specified types of schizophrenia, subchronic 304.43 Amphetamine and other psychostimulant dependence, episodic 295.82 Other specified types of schizophrenia, chronic with acute 205.83 Other specified types of schizophrenia, chronic with acute 205.84 Amphetamine and other psychostimulant dependence, encarchation 205.85 Other specified types of schizophrenia, chronic with acute 205.85 Other specified types of schizophrenia, chronic with acute 205.85 Other specified types of schizophrenia, in remission 304.51 Hallucinogen dependence, entire 205.95 Unspecified schizophrenia, unspecified 304.60 Other specified type 205.95 Unspecified schizophrenia, chronic with acute exacerbation 304.61 Other specified type 205.95 Unspecified schizophrenia, chronic with acute exacerbation 304.62 Other specified type 205.95 Unspecified schizophrenia, chronic with acute exacerbation 304.62 Other specified type 205.95 Unspecified schizophrenia, chronic with acute exacerbation 304.62 Other specified type 205.95 Unspecified schizophrenia, chronic with acute exacerbation 304.62 Other specified type 205.95 Unspecified schizophrenia, chronic with acute 205.95 Unspecified 205.95 Unspecified 205.95 Unspecified 205.95 Unspecified 205.95 Unspecified 205.				
295.75 Schizoaffective disorder, chronic with acute exacerbation 304.33 Cannabis dependence, in remission 304.44 Amphetamine and other psychostimulant dependence 304.41 Amphetamine and other psychostimulant dependence, unspecified 304.41 Amphetamine and other psychostimulant dependence, continuous 295.81 Other specified types of schizophrenia, subchronic 304.42 Amphetamine and other psychostimulant dependence, continuous 295.82 Other specified types of schizophrenia, subchronic 304.42 Amphetamine and other psychostimulant dependence, episodic 405.82 Amphetamine 405.82 A		,		•
295.8 Other specified types of schizophrenia, unspecified 295.80 Other specified types of schizophrenia, unspecified 295.81 Other specified types of schizophrenia, subchronic 295.82 Other specified types of schizophrenia, subchronic 295.83 Other specified types of schizophrenia, chronic 295.84 Other specified types of schizophrenia, subchronic with acute 295.85 Other specified types of schizophrenia, chronic with acute 295.84 Other specified types of schizophrenia, subchronic with acute 295.85 Other specified types of schizophrenia, in remission 295.85 Other specified types of schizophrenia, in remission 295.95 Unspecified schizophrenia 295.90 Unspecified schizophrenia, unspecified 295.90 Unspecified schizophrenia, unspecified 295.91 Unspecified schizophrenia, subchronic 295.92 Unspecified schizophrenia, subchronic 295.93 Unspecified schizophrenia, subchronic with acute exacerbation 295.94 Unspecified schizophrenia, chronic with acute exacerbation 295.95 Unspecified schizophrenia, subchronic with acute exacerbation 295.96 Unspecified schizophrenia, chronic with acute exacerbation 295.97 Unspecified schizophrenia, chronic with acute exacerbation 295.98 Unspecified schizophrenia, chronic with acute exacerbation 296.99 Unspecified schizophrenia, chronic with acute exacerbation 297.90 Unspecified schizophrenia, chronic with acute exacerbation 298.90 Unspecified schizophrenia, chronic with acute exacerbation 298.91 Unspecified schizophrenia, chronic with acute exacerbation 299.92 Unspecified schizophrenia, chronic with acute exacerbation 290.92 Unspecified schizophrenia 290.92 Unspecified schizophrenia 290.92 Unspecified schizo				•
295.81 Other specified types of schizophrenia, unspecified 295.82 Other specified types of schizophrenia, subchronic 295.82 Other specified types of schizophrenia, subchronic 295.83 Other specified types of schizophrenia, subchronic 295.84 Other specified types of schizophrenia, subchronic with acute 295.85 Other specified types of schizophrenia, chronic with acute exacerbation 295.85 Other specified types of schizophrenia, in remission 295.95 Other specified types of schizophrenia, in remission 295.90 Unspecified schizophrenia, unspecified 295.91 Unspecified schizophrenia, unspecified 295.91 Unspecified schizophrenia, unspecified 295.92 Unspecified schizophrenia, unspecified 295.93 Unspecified schizophrenia, unspecified 295.94 Unspecified schizophrenia, thoroic 295.95 Unspecified schizophrenia, thoroic 295.95 Unspecified schizophrenia, chronic with acute exacerbation 295.95 Unspecified schizophrenia, thoroic with acute exacerbation 295.95 Unspecified schizophrenia, chronic with acute exacerbation 295.95 Unspecified schizophrenia, thoroic with acute exacerbation 295.95 Unspecified schizophrenia, thoroic with acute exacerbation 295.95 Unspecified schizophrenia, thoroic with acute exacerbation 296.96 Unspecified schizophrenia, thoroic with acute exacerbation 297.97 Unspecified schizophrenia, thoroic with acute exacerbation 298.98 Unspecified schizophrenia, thoroic with acute exacerbation 299.99 Unspecified schizophrenia, thoroic with acute exacerbation 299.90 Unspecified schizophrenia, thoroic with acute exacerbation 299.91 Unspecified schizophrenia, thoroic with acute exacerbation 290.92 Unspecified schizophrenia, thoroic w		Schizoaffective disorder, in remission	304.4	Amphetamine and other psychostimulant dependence
295.82 Other specified types of schizophrenia, subchronic 295.82 Other specified types of schizophrenia, chronic 295.83 Other specified types of schizophrenia, subchronic with acute 295.84 Other specified types of schizophrenia, in remission 295.85 Other specified types of schizophrenia, in remission 295.95 Unspecified schizophrenia, in remission 295.95 Unspecified schizophrenia, in specified 295.96 Unspecified schizophrenia, in specified 295.91 Unspecified schizophrenia, in specified 295.91 Unspecified schizophrenia, in specified 295.91 Unspecified schizophrenia, subchronic 295.92 Unspecified schizophrenia, subchronic 295.93 Unspecified schizophrenia, subchronic 295.94 Unspecified schizophrenia, subchronic 295.95 Unspecified schizophrenia, subchronic 295.95 Unspecified schizophrenia, subchronic 295.96 Unspecified schizophrenia, subchronic 295.97 Unspecified schizophrenia, subchronic 296.98 Unspecified schizophrenia, subchronic 297.99 Unspecified schizophrenia, subchronic 298.99 Unspecified schizophrenia, subchronic 299.90 Unspecified schizophrenia, subchronic 299.91 Unspecified schizophrenia, subchronic 299.92 Unspecified schizophrenia, subchronic 299.93 Unspecified schizophrenia, subchronic 299.94 Unspecified schizophrenia, subchronic 299.95 Unspecified schizophrenia, subchronic 299.95 Unspecified schizophrenia, subchronic 299.96 Unspecified schizophrenia, subchronic 299.97 Unspecified schizophrenia, subchronic 299.98 Unspecified schizophrenia, subchronic 299.99 Unspecified schizophrenia, subchronic 299.90 Unspecified schizophrenia, in remission 299.90 Unspecified schizophrenia, subchronic 299.90 Unspecified sch				
295.82 Other specified types of schizophrenia, chronic with acute exacerbation 295.83 Other specified types of schizophrenia, subchronic with acute exacerbation 304.51 Hallucinogen dependence, unspecified 295.85 Other specified types of schizophrenia, in remission 304.51 Hallucinogen dependence, continuous 304.51 Hallucinogen dependence, continuous 304.52 Hallucinogen dependence, continuous 304.53 Hallucinogen dependence, on remission 304.53 Hallucinogen dependence, on remission 304.54 Hallucinogen dependence, in remission 304.55 Hallucinogen dependence, on remission 304.56 Other specified schizophrenia, unspecified 304.60 Other specified drug dependence 304.61 Other specified schizophrenia, chronic 304.61 Other specified drug dependence, continuous 304.62 Other specified drug dependence, continuous 304.63 Other specified schizophrenia, in remission 304.63 Other specified drug dependence, continuous 304.63 Other specified schizophrenia, in remission 304.63 Other specified drug dependence, continuous 304.63 Other specified drug dependence, on the specified 304.64 Other specified schizophrenia, in remission 304.65 Other specified drug dependence, on the specified 304.65 Other specified schizophrenia, in remission 304.70 Combinations of opioid-type drug with any other drug dependence 304.70 Combinations of opioid-type drug with any other drug dependence, unspecified 304.70 Other specified 3				
295.84 Other specified types of schizophrenia, subchronic with acute exacerbation 295.85 Other specified types of schizophrenia, in remission 304.50 Hallucinogen dependence, unspecified 295.95 Unspecified schizophrenia, in remission 304.51 Hallucinogen dependence, continuous 304.52 Hallucinogen dependence, continuous 304.53 Hallucinogen dependence, continuous 304.53 Hallucinogen dependence, in remission 304.65 Other specified schizophrenia, subchronic 304.60 Other specified drug dependence, unspecified 304.60 Other specified drug dependence, continuous 304.61 Other specified drug dependence, continuous 304.61 Other specified drug dependence, enspecified 304.61 Other specified drug dependence, continuous 304.62 Other specified drug dependence, enspecified 304.61 Other specified drug dependence, unspecified 304.71 Other specified 304.7				
exacerbation 295.84 Other specified types of schizophrenia, chronic with acute exacerbation 295.85 Other specified types of schizophrenia, in remission 295.95 Unspecified schizophrenia, unspecified 295.90 Unspecified schizophrenia, unspecified 295.91 Unspecified schizophrenia, subchronic 295.92 Unspecified schizophrenia, subchronic 295.93 Unspecified schizophrenia, subchronic 295.94 Unspecified schizophrenia, subchronic with acute exacerbation 295.95 Unspecified schizophrenia, in remission 295.95 Unspecified schizophrenia, in remission 295.96 Unspecified schizophrenia, in remission 295.97 Unspecified schizophrenia, in remission 295.98 Unspecified schizophrenia, in remission 295.99 Unspecified schizophrenia, in remission 295.90 Unspecified schizophrenia, in remission 295.91 Unspecified schizophrenia, in remission 295.92 Unspecified schizophrenia, in remission 295.93 Unspecified schizophrenia, in remission 295.94 Unspecified schizophrenia, in remission 295.95 Unspecified schizophrenia, in remission 295.96 Unspecified schizophrenia, in remission 295.97 Unspecified schizophrenia, in remission 295.98 Unspecified schizophrenia, in remission 295.99 Unspecified schizophrenia, in remission 296.90 Unspecified schizophrenia, in remission 297.01 Alcohol-induced mental disorders 298.01 Alcohol-induced mental disorders 299.11 Alcohol-induced mental disorders 299.12 Alcohol-induced psychotic disorder with hallucinations 299.13 Other specified alcohol-induced mental disorders 299.18 Other specified alcohol-induced mental disorders 299.19 Unspecified alcohol-induced mental disorders 299.10 Unspecified alcohol-induced mental disorders 290.10 Unspecified drug dependence excluding opioid-type drug, episodic 290.10 Unspecifie				
295.5 Unspecified kypes of schizophrenia, in remission 295.9 Unspecified schizophrenia, uspecified 295.91 Unspecified schizophrenia, subchronic 295.92 Unspecified schizophrenia, subchronic 295.93 Unspecified schizophrenia, subchronic 295.94 Unspecified schizophrenia, subchronic 295.95 Unspecified schizophrenia, kuthornic with acute exacerbation 295.95 Unspecified schizophrenia, chronic with acute exacerbation 295.96 Unspecified schizophrenia, chronic with acute exacerbation 295.97 Unspecified schizophrenia, chronic with acute exacerbation 295.98 Unspecified schizophrenia, in remission 295.99 Unspecified schizophrenia, in remission 296.90 Unspecified schizophrenia, in remission 297.00 Unspecified schizophrenia, in remission 298.00 Unspecified schizophrenia, in remission 298.00 Unspecified schizophrenia, in remission 299.10 Alcohol-induced mental disorders 299.11 Alcohol-induced mental disorders 291.02 Alcohol withdrawal delirium 291.11 Alcohol-induced persisting amnestic disorder 291.12 Alcohol-induced psychotic disorder with hallucinations 291.13 Alcohol-induced psychotic disorder with delusions 291.14 Idiosyncratic alcohol intoxication 291.15 Alcohol-induced psychotic disorder with delusions 291.16 Alcohol-induced specythotic disorders 291.18 Other specified alcohol-induced mental disorders 291.19 Unge-induced sleep disorders 291.19 Unge-induced sleep disorders 291.10 Drug-induced psychotic disorders 292.10 Drug-induced psychotic disorders 293.10 Drug-induced psychotic disorder with hallucinations 294.11 Drug-induced psychotic disorder with hallucinations 295.12 Drug-induced psychotic disorder with hallucinations 296.12 Drug-induced psychotic disorder with hallucinations 297.12 Drug-induced psychotic disorder with hallucinations 298.12 Drug-induced psychotic disorder with hallucinations 299.12 Drug-induced psychotic disorder with hallucinations 299.13 Drug-induced psychotic disorder with hallucinations 290.14 Drug-induced psychotic disorder with hallucinations 290.15 Drug-induced psychotic disorder with halluc				
295.9 Unspecified schizophrenia uspecified 295.91 Unspecified schizophrenia, subchronic 304.60 Other specified drug dependence, in remission 295.91 Unspecified schizophrenia, subchronic 304.61 Other specified drug dependence, unspecified 295.92 Unspecified schizophrenia, subchronic 304.61 Other specified drug dependence, continuous 304.62 Other specified drug dependence, episodic 304.62 Other specified schizophrenia, subchronic with acute exacerbation 304.63 Other specified drug dependence, episodic 304.62 Other specified drug dependence, episodic 304.63 Other specified drug dependence, episodic 304.63 Other specified drug dependence, in remission 304.63 Other specified drug dependence, in remission 304.63 Other specified drug dependence, in remission 304.64 Other specified drug dependence, in remission 304.65 Other specified drug dependence, in remission 304.67 Combinations of opioid-type drug with any other drug dependence, unspecified 304.70 Combinations of opioid-type drug with any other drug dependence, unspecified 304.71 Other specified drug dependence, in 304.72 Combinations of opioid-type drug with any other drug dependence, unspecified 304.72 Combinations of opioid-type drug with any other drug dependence, ontinuous 304.73 Combinations of opioid-type drug with any other drug dependence, in 304.73 Combinations of opioid-type drug with any other drug dependence, in 304.73 Combinations of opioid-type drug with any other drug dependence, in 304.73 Combinations of opioid-type drug with any other drug dependence, in 304.74 Combinations of opioid-type drug with any other drug dependence, in 304.75 Combinations of opioid-type drug with any other drug dependence, in 304.75 Combinations of drug dependence excluding opioid-type drug 304.80 Combinations o				
295.90 Unspecified schizophrenia, unspecified 295.91 Unspecified schizophrenia, subchronic 295.92 Unspecified schizophrenia, subchronic 295.93 Unspecified schizophrenia, subchronic 295.94 Unspecified schizophrenia, chronic 295.95 Unspecified schizophrenia, chronic with acute exacerbation 295.95 Unspecified schizophrenia, in remission 295.96 Unspecified schizophrenia, in remission 295.97 Unspecified schizophrenia, in remission 295.98 Unspecified schizophrenia, in remission 295.99 Unspecified schizophrenia, in remission 295.90 Unspecified schizophrenia, in remission 296.90 Unspecified schizophrenia, in remission 297.01 Alcohol-induced mental disorders 298.01 Alcohol-induced mental disorders 299.10 Alcohol-induced persisting ammestic disorder 299.11 Alcohol-induced persisting ammestic disorder 299.12 Alcohol-induced persisting ammestic disorder 299.13 Alcohol-induced persisting ammestic disorder 299.14 Idiosyncratic alcohol induced mental disorders 299.15 Alcohol-induced psychotic disorder with delusions 291.18 Alcohol-induced selep disorders 291.19 Unspecified alcohol-induced mental disorders 291.10 Alcohol-induced selep disorders 291.10 Alcohol-induced selep disorders 291.10 Alcohol-induced mental disorders 291.10 Alcohol-induced mental disorders 292.10 Alcohol-induced selep disorders 293.11 Alcohol-induced mental disorders 294.12 Alcohol-induced mental disorders 295.12 Drug-induced psychotic disorder with delusions 296.12 Alcohol-induced mental disorders 297.12 Drug-induced psychotic disorders 298.13 Alcohol-induced mental disorders 299.14 Drug-induced psychotic disorder with hallucinations 290.15 Alcohol-induced mental disorders 290.15 Alcohol-induced mental disorders 290.16 Drug-induced psychotic disorder with hallucinations 290.17 Drug-induced psychotic disorder 290.18 Drug-induced psychotic disorder with hallucinations 290.19 Unspecified drug dependence excluding opioid-type drug, in remission 290.20 Drug-induced psychotic disorder with hallucinations 290.20 Drug-induced psychotic disorder with hallucinatio				
295.91 Unspecified schizophrenia, subchronic 304.60 Other specified drug dependence, unspecified 295.92 Unspecified schizophrenia, chronic with acute exacerbation 304.61 Other specified drug dependence, continuous 295.93 Unspecified schizophrenia, chronic with acute exacerbation 304.62 Other specified drug dependence, in remission 304.63 Other specified drug dependence, in remission 304.63 Other specified drug dependence, in remission 304.67 Combinations of opioid-type drug with any other drug dependence unspecified Schizophrenia, in remission 304.71 Combinations of opioid-type drug with any other drug dependence, unspecified 304.71 Combinations of opioid-type drug with any other drug dependence, unspecified 304.71 Combinations of opioid-type drug with any other drug dependence, ontinuous 304.71 Combinations of opioid-type drug with any other drug dependence, ontinuous 304.71 Combinations of opioid-type drug with any other drug dependence, ontinuous 304.71 Combinations of opioid-type drug with any other drug dependence, ontinuous 304.71 Combinations of opioid-type drug with any other drug dependence, ontinuous 304.71 Combinations of opioid-type drug with any other drug dependence, ontinuous 304.71 Combinations of opioid-type drug with any other drug dependence, ontinuous 304.71 Combinations of opioid-type drug with any other drug dependence, ontinuous 304.71 Combinations of opioid-type drug with any other drug dependence, in remission 304.71 Combinations of opioid-type drug with any other drug dependence, in remission 304.71 Combinations of opioid-type drug with any other drug dependence, in remission 304.71 Combinations of opioid-type drug with any other drug dependence, in remission 304.71 Combinations of opioid-type drug with any other drug dependence, in remission 304.71 Combinations of opioid-type drug with any other drug dependence, in remission 304.71 Combinations of opioid-type drug dependence, in		•		
295.92 Unspecified schizophrenia, chronic 295.93 Unspecified schizophrenia, subchronic with acute exacerbation 295.94 Unspecified schizophrenia, hornoric with acute exacerbation 295.95 Unspecified schizophrenia, in remission 295.96 Unspecified schizophrenia, in remission 295.97 Unspecified schizophrenia, in remission 295.98 Unspecified schizophrenia, in remission 295.99 Unspecified schizophrenia, in remission 296.00 Combinations of opioid-type drug with any other drug dependence unspecified 297.01 Alcohol-induced mental disorders 298.02 Alcohol-induced persisting amnestic disorder 299.10 Alcohol-induced persisting amnestic disorder 299.11 Alcohol-induced persisting amnestic disorder 299.12 Alcohol-induced persisting dementia 299.13 Alcohol-induced persisting dementia 299.14 Idiosyncratic alcohol intoxication 299.15 Alcohol-induced psychotic disorder with allucinations 299.16 Alcohol-induced psychotic disorder with delusions 299.17 Alcohol-induced psychotic disorders 299.18 Alcohol-induced psychotic disorders 299.18 Alcohol-induced seep disorders 299.18 Alcohol-induced seep disorders 299.19 Unspecified alcohol-induced mental disorders 299.19 Unspecified alcohol-induced mental disorders 299.19 Unspecified alcohol-induced mental disorders 290.10 Drug-induced mental disorders 290.10 Drug-induced psychotic disorder 290				
295.93 Unspecified schizophrenia, subchronic with acute exacerbation 295.94 Unspecified schizophrenia, chronic with acute exacerbation 304.63 Other specified drug dependence, episodic 304.75 Combinations of opioid-type drug with any other drug dependence, unspecified schizophrenia, in remission 304.75 Combinations of opioid-type drug with any other drug dependence, unspecified Alcohol-induced mental disorders 304.71 Combinations of opioid-type drug with any other drug dependence, unspecified Alcohol-induced persisting amnestic disorder 304.71 Combinations of opioid-type drug with any other drug dependence, continuous 304.71 Combinations of opioid-type drug with any other drug dependence, continuous 304.72 Combinations of opioid-type drug with any other drug dependence, continuous 304.73 Combinations of opioid-type drug with any other drug dependence, episodic 304.73 Combinations of opioid-type drug with any other drug dependence, in remission 304.73 Combinations of opioid-type drug with any other drug dependence, in remission 404.73 Combinations of opioid-type drug with any other drug dependence, in remission 404.73 Combinations of opioid-type drug with any other drug dependence, in remission 404.73 Combinations of opioid-type drug with any other drug dependence, in remission 404.73 Combinations of drug dependence excluding opioid-type drug 304.80 Combinations of drug dependence and 304.80 Combinations of drug dependence and 304.80 Combinations of drug dependence and 304.80 Combinations of dru				
295.95 Unspecified schizophrenia, in remission 304.7 Combinations of opioid-type drug with any other drug dependence 304.70 Combinations of opioid-type drug with any other drug dependence, unspecified 291.0 Alcohol-induced mental disorders 304.71 Combinations of opioid-type drug with any other drug dependence, continuous 304.71 Combinations of opioid-type drug with any other drug dependence, continuous 304.72 Combinations of opioid-type drug with any other drug dependence, continuous 304.73 Combinations of opioid-type drug with any other drug dependence, episodic 304.73 Combinations of opioid-type drug with any other drug dependence, in remission 304.73 Combinations of opioid-type drug with any other drug dependence, in remission 304.73 Combinations of opioid-type drug with any other drug dependence, in remission 304.73 Combinations of opioid-type drug with any other drug dependence, in remission 304.81 Combinations of opioid-type drug with any other drug dependence, in remission 304.81 Combinations of opioid-type drug with any other drug dependence, in remission 304.81 Combinations of opioid-type drug with any other drug dependence, in remission 304.81 Combinations of opioid-type drug with any other drug dependence, in remission 304.81 Combinations of drug dependence excluding opioid-type drug, unspecified 304.81 Combinations of drug dependence excluding opioid-type drug, continuous 304.81 Combinations of drug dependence excluding opioid-type drug, episodic 304.82 Combinations of drug dependence excluding opioid-type drug, in remission 304.82 Combinations of drug dependence excluding opioid-type drug, in remission 304.82 Combinations of drug dependence excluding opioid-type drug, in remission 304.82 Combinations of drug dependence, in remission 304.82 Combinations of drug dependence, in remission 304.83 Combinations of drug dependence, in remission 304.93 Combinations of drug dependence, in remission 304.93 Combinations of drug dependence, in remission 30	295.93		304.62	
Substance use disorders 291 Alcohol-induced mental disorders 291.0 Alcohol withdrawal delirium 291.1 Alcohol-induced persisting amnestic disorder 291.2 Alcohol-induced persisting amnestic disorder 291.3 Alcohol-induced persisting dementia 291.4 Idiosyncratic alcohol intoxication 291.5 Alcohol-induced psychotic disorder with hallucinations 291.6 Alcohol-induced psychotic disorder with delusions 291.8 Other specified alcohol-induced mental disorders 291.8 Alcohol-induced spychotic disorder with delusions 291.8 Alcohol-induced spychotic disorder with delusions 291.8 Other specified alcohol-induced mental disorders 291.9 Unspecified alcohol-induced mental disorders 291.9 Unspecified alcohol-induced mental disorders 292.0 Drug-induced mental disorders 292.0 Drug-induced mental disorders 292.1 Drug-induced psychotic disorder with delusions 292.2 Pathological drug intoxication 292.3 Drug-induced psychotic disorder with hallucinations 292.4 Drug-induced psychotic disorder with hallucinations 292.5 Drug-induced psychotic disorder with hallucinations 292.8 Drug-induced psychotic disorder with hallucinations 292.8 Drug-induced persisting dementia 292.8 Drug-induced persisting dementia 292.8 Drug-induced persisting amnestic disorder 292.8 Drug-induced mental disorder 292.8 Drug-induced delirium 292.8 Drug-induced persisting amnestic disorder 292.8 Drug-induced mental disor		•		
Alcohol-induced mental disorders 291.0 Alcohol withdrawal delirium 291.1 Alcohol-induced persisting amnestic disorder 291.2 Alcohol-induced persisting dementia 291.3 Alcohol-induced persisting dementia 291.4 Idiosyncratic alcohol intoxication 291.5 Alcohol-induced psychotic disorder with hallucinations 291.6 Alcohol-induced psychotic disorder with hallucinations 291.7 Alcohol-induced psychotic disorder with delusions 291.8 Alcohol-induced psychotic disorder with delusions 291.8 Alcohol-induced psychotic disorder with delusions 291.8 Alcohol-induced psychotic disorders 291.8 Alcohol-induced mental disorders 291.8 Alcohol-induced selep disorders 291.8 Alcohol-induced mental disorders 291.9 Unspecified alcohol-induced mental disorders 292.0 Drug-induced mental disorders 292.0 Drug-induced mental disorders 292.1 Drug-induced psychotic disorder with delusions 292.1 Drug-induced psychotic disorder with delusions 292.1 Drug-induced psychotic disorder with delusions 292.2 Pathological drug intoxication 292.2 Pathological drug intoxication 292.3 Drug-induced psychotic disorder with hallucinations 292.4 Drug-induced delirium 292.5 Drug-induced delirium 292.8 Drug-induced delirium 292.8 Drug-induced persisting dementia 292.8 Drug-induced persisting amnestic disorder 29		•		
Alcohol-induced mental disorders 291.0 Alcohol withdrawal delirium 291.1 Alcohol-induced persisting amnestic disorder 291.2 Alcohol-induced persisting dementia 291.3 Alcohol-induced persisting dementia 291.4 Alcohol-induced psychotic disorder with hallucinations 291.5 Alcohol-induced psychotic disorder with delusions 291.6 Alcohol-induced psychotic disorder with delusions 291.7 Alcohol-induced psychotic disorder with delusions 291.8 Other specified alcohol-induced mental disorders 291.8 Alcohol-induced seep disorders 291.8 Alcohol-induced seep disorders 291.8 Alcohol-induced seep disorders 291.8 Other alcohol-induced mental disorders 291.9 Unspecified alcohol-induced mental disorders 291.9 Unspecified alcohol-induced mental disorders 292.0 Drug-induced mental disorders 292.1 Drug-induced psychotic disorder with delusions 292.1 Drug-induced psychotic disorder with delusions 292.2 Drug-induced psychotic disorder with delusions 292.1 Drug-induced psychotic disorder with delusions 292.2 Drug-induced psychotic disorder with delusions 292.3 Drug-induced psychotic disorder with delusions 292.4 Drug-induced psychotic disorder with hallucinations 292.5 Drug-induced psychotic disorder with hallucinations 292.6 Drug-induced psychotic disorder with hallucinations 292.7 Drug-induced psychotic disorder with hallucinations 292.8 Drug-induced delirium 292.8 Drug-induced persisting dementia 292.8 Drug-induced persisting amnestic disorder 292.8 Drug-induced mod disorder	Substan	ce use disorders	304.70	
291.0 Alcohol withdrawal delirium 291.1 Alcohol-induced persisting dementia 291.2 Alcohol-induced persisting dementia 291.3 Alcohol-induced psychotic disorder with hallucinations 291.4 Idiosyncratic alcohol intoxication 291.5 Alcohol-induced psychotic disorder with delusions 291.8 Other specified alcohol-induced mental disorders 291.8 Alcohol-induced sleep disorders 291.8 Alcohol-induced sleep disorders 291.8 Alcohol-induced sleep disorders 291.8 Alcohol-induced mental disorders 291.8 Other alcohol-induced mental disorders 291.9 Unspecified alcohol-induced mental disorders 292.0 Drug-induced mental disorders 292.0 Drug-induced psychotic disorder with delusions 292.1 Drug-induced psychotic disorder with delusions 292.1 Drug-induced psychotic disorders 292.1 Drug-induced psychotic disorders 292.1 Drug-induced psychotic disorders 292.2 Drug-induced psychotic disorders 292.3 Drug-induced psychotic disorder with delusions 292.4 Drug-induced psychotic disorder with delusions 292.5 Drug-induced psychotic disorder with delusions 292.6 Drug-induced psychotic disorder with hallucinations 292.7 Drug-induced psychotic disorder with hallucinations 292.8 Drug-induced delirium 292.8 Drug-induced delirium 292.8 Drug-induced persisting demental disorders 292.8 Drug-induced persisting demental disorders 292.8 Drug-induced persisting amnestic disorder 292.8 Drug-induced poststing amnestic disorder 292.8 Drug-induced mod disorder 292.8 Drug-i			304 71	•
291.2 Alcohol-induced persisting dementia 291.3 Alcohol-induced psychotic disorder with hallucinations 291.4 Idiosyncratic alcohol intoxication 291.5 Alcohol-induced psychotic disorder with delusions 291.6 Alcohol-induced psychotic disorder with delusions 291.8 Other specified alcohol-induced mental disorders 291.8 Alcohol-induced sleep disorders 291.8 Alcohol-induced sleep disorders 291.8 Other alcohol-induced mental disorders 291.9 Unspecified alcohol-induced mental disorders 291.9 Unspecified alcohol-induced mental disorders 292.0 Drug-induced mental disorders 292.0 Drug-induced mental disorders 292.1 Drug-induced psychotic disorders 292.1 Drug-induced psychotic disorders 292.1 Drug-induced psychotic disorders 292.1 Drug-induced psychotic disorder with delusions 292.1 Drug-induced psychotic disorder with delusions 292.2 Drug-induced psychotic disorder with delusions 292.1 Drug-induced psychotic disorder with delusions 292.2 Drug-induced psychotic disorder with hallucinations 292.3 Drug-induced psychotic disorder with hallucinations 292.4 Drug-induced delirium 292.5 Drug-induced delirium 292.8 Drug-induced persisting dementia 292.8 Drug-induced persisting dementia 292.8 Drug-induced persisting amnestic disorder 292.8 Drug-induced persisting amnestic disorder 292.8 Drug-induced persisting amnestic disorder 292.8 Drug-induced mood disorder 292.8 Drug-induced mood disorder 292.8 Drug-induced mood disorder 292.8 Drug-induced persisting amnestic disorder 292.8 Drug-induced mood disorder			30 1	
Alcohol-induced psychotic disorder with hallucinations 291.4 Idiosyncratic alcohol intoxication 291.5 Alcohol-induced psychotic disorder with delusions 291.8 Other specified alcohol-induced mental disorders 291.8 Alcohol-induced seep disorders 291.8 Alcohol-induced seep disorders 291.8 Alcohol-induced mental disorders 291.8 Other alcohol-induced mental disorders 291.9 Unspecified alcohol-induced mental disorders 292.0 Drug-induced mental disorders 293.0 Drug-induced mental disorders 294.1 Drug-induced mental disorders 295.2 Drug-induced psychotic disorders 296.2 Drug-induced psychotic disorders 297.1 Drug-induced psychotic disorders 298.2 Drug-induced psychotic disorder with hallucinations 299.2 Pathological drug intoxication 290.2 Pathological drug intoxication 290.2 Drug-induced delirium 290.2 Drug-induced delirium 290.2 Drug-induced persisting dementia 290.2 Drug-induced persisting dementia 290.2 Drug-induced persisting amnestic disorder 290.2 Drug-induced persisting amnestic disorder 290.3 Drug-induced mood disorder 290.4 Drug-induced mood disorder 290.5 Nondependent alcohol abuse 290.6 Nondependent alcohol abuse 290.8 Drug-induced mood disorder			304.72	Combinations of opioid-type drug with any other drug dependence,
291.4 Idiosyncratic alcohol intoxication 291.5 Alcohol-induced psychotic disorder with delusions 291.8 Other specified alcohol-induced mental disorders 291.8 Other alcohol-induced mental disorders 291.9 Unspecified alcohol-induced mental disorders 291.0 Drug-induced mental disorders 292.0 Drug-induced psychotic disorders 292.1 Drug-induced psychotic disorder with delusions 292.1 Drug-induced psychotic disorder with delusions 292.1 Drug-induced psychotic disorder with delusions 292.1 Drug-induced psychotic disorder with hallucinations 292.2 Pathological drug intoxication 292.3 Other specified drug-induced mental disorders 292.4 Other specified drug-induced mental disorders 292.5 Drug-induced psychotic disorder with delusions 292.6 Other specified drug-induced mental disorders 292.7 Drug-induced psychotic disorder with allucinations 292.8 Other specified drug-induced mental disorders 292.8 Drug-induced persisting dementia 292.8 Drug-induced persisting amnestic disorder 292.8 Drug-induced persisting amnestic disorder 292.8 Drug-induced mood disorder 292.8 Drug-induced delirium 292.8 Drug-induced mental disorders 292.8 Drug-induced mental disorder 29				•
Alcohol-induced psychotic disorder with delusions 291.8 Alcohol withdrawal 291.8 Alcohol withdrawal 291.8 Alcohol withdrawal 291.8 Alcohol-induced sleep disorders 291.8 Other alcohol-induced mental disorders 291.9 Unspecified alcohol-induced mental disorders 291.9 Unspecified alcohol-induced mental disorders 292.0 Drug-induced mental disorders 292.0 Drug-induced mental disorders 292.1 Drug-induced psychotic disorder with delusions 292.1 Drug-induced psychotic disorder with delusions 292.1 Drug-induced psychotic disorder with delusions 292.2 Drug-induced psychotic disorder with hallucinations 292.3 Other specified drug-induced mental disorders 292.4 Other specified drug-induced mental disorders 292.5 Drug-induced delirium 292.6 Drug-induced delirium 292.7 Drug-induced delirium 292.8 Drug-induced persisting dementia 292.8 Drug-induced persisting amnestic disorder 292.8 Drug-induced mond disorder			304.73	
Other alcohol-induced mental disorders 291.8 Alcohol withdrawal 291.82 Alcohol-induced seep disorders 291.9 Other alcohol-induced mental disorders 291.9 Unspecified alcohol-induced mental disorders 292.0 Drug-induced mental disorders 292.1 Drug-induced psychotic disorders 292.1 Drug-induced psychotic disorder with delusions 292.1 Drug-induced psychotic disorder with delusions 292.1 Drug-induced psychotic disorder with hallucinations 292.2 Pathological drug intoxication 292.3 Other specified drug-induced mental disorders 292.4 Drug-induced delirium 304.91 Unspecified drug dependence, episodic 304.92 Unspecified drug dependence, in remission 304.93 Unspecified drug dependence, in remission 305 Nondependent abuse of drugs 305.0 Nondependent alcohol abuse 305.0 Alcohol abuse, unspecified	291.5	Alcohol-induced psychotic disorder with delusions	304.8	
Alcohol-induced sleep disorders 291.89 Other alcohol-induced mental disorders 291.9 Unspecified alcohol-induced mental disorders 292.0 Drug-induced psychotic disorders 292.1 Drug-induced psychotic disorders 292.1 Drug-induced psychotic disorder with delusions 292.1 Drug-induced psychotic disorder with delusions 292.1 Drug-induced psychotic disorder with hallucinations 292.2 Drug-induced psychotic disorder with hallucinations 292.1 Drug-induced psychotic disorder with hallucinations 292.1 Drug-induced psychotic disorder with hallucinations 292.2 Pathological drug intoxication 292.8 Other specified drug-induced mental disorders 292.8 Drug-induced psysiting dementia 292.8 Drug-induced persisting amnestic disorder 292.8 Drug-induced persisting dementia 292.8 Drug-induced persisting amnestic disorder 292.8 Drug-induced persisting dementia 293.8 Drug-induced persisting dementia 294.8 Drug-induced mood disorder				
291.9 Other alcohol-induced mental disorders 291.9 Unspecified alcohol-induced mental disorders 292.0 Drug-induced mental disorders 292.0 Drug withdrawal 292.1 Drug-induced psychotic disorders 292.1 Drug-induced psychotic disorder with delusions 292.1 Drug-induced psychotic disorder with delusions 292.1 Drug-induced psychotic disorder with hallucinations 292.1 Drug-induced psychotic disorder with hallucinations 292.2 Pathological drug intoxication 292.3 Other specified drug-induced mental disorders 292.4 Drug-induced delirium 292.8 Drug-induced delirium 292.8 Drug-induced persisting dementia 292.8 Drug-induced persisting dementia 292.8 Drug-induced persisting dementia 292.8 Drug-induced persisting amnestic disorder 292.8 Drug-induced mood disorder			30 1.00	0 1 0 1 0
291.9 Unspecified alcohol-induced mental disorders 292 Drug-induced mental disorders 293.0 Drug withdrawal 294.1 Drug-induced psychotic disorders 295.1 Drug-induced psychotic disorder with delusions 295.1 Drug-induced psychotic disorder with delusions 295.1 Drug-induced psychotic disorder with hallucinations 295.1 Drug-induced psychotic disorder with hallucinations 295.1 Drug-induced psychotic disorder with hallucinations 295.2 Pathological drug intoxication 295.3 Drug-induced delirium 295.4 Drug-induced persisting dementia 295.5 Drug-induced persisting dementia 295.6 Drug-induced persisting amnestic disorder 295.7 Drug-induced persisting amnestic disorder 295.8 Drug-induced mood disorder			304.81	Combinations of drug dependence excluding opioid-type drug,
Drug-induced mental disorders 292.0 Drug withdrawal 292.1 Drug-induced psychotic disorders 292.1 Drug-induced psychotic disorders 292.1 Drug-induced psychotic disorder with delusions 292.1 Drug-induced psychotic disorder with hallucinations 292.1 Drug-induced psychotic disorder with hallucinations 292.2 Pathological drug intoxication 292.8 Other specified drug-induced mental disorders 292.8 Drug-induced delirium 292.8 Drug-induced persisting dementia 292.8 Drug-induced persisting dementia 292.8 Drug-induced persisting dementia 292.8 Drug-induced persisting amnestic disorder 292.8 Drug-induced persisting amnestic disorder 292.8 Drug-induced mood disorder 292.8 Drug-induced persisting amnestic disorder 292.8 Drug-induced persisting amnestic disorder 292.8 Drug-induced mood disorder 292.8 Drug-induced mood disorder 292.8 Drug-induced persisting amnestic disorder 292.8 Drug-induced mood disorder 292.8 Drug-induced mood disorder				
292.0 Drug withdrawal 292.1 Drug-induced psychotic disorders 292.11 Drug-induced psychotic disorder with delusions 292.12 Drug-induced psychotic disorder with hallucinations 292.13 Drug-induced psychotic disorder with hallucinations 292.2 Pathological drug intoxication 292.8 Other specified drug-induced mental disorders 292.8 Drug-induced delirium 292.8 Drug-induced delirium 292.8 Drug-induced persisting dementia 292.8 Drug-induced persisting dementia 292.8 Drug-induced persisting amnestic disorder 292.8 Drug-induced mood disorder		•		
Drug-induced psychotic disorders 292.11 Drug-induced psychotic disorder with delusions 292.12 Drug-induced psychotic disorder with hallucinations 292.13 Drug-induced psychotic disorder with hallucinations 292.14 Drug-induced psychotic disorder with hallucinations 292.15 Drug-induced psychotic disorder with hallucinations 292.16 Other specified drug-induced mental disorders 292.17 Drug-induced delirium 292.18 Drug-induced delirium 292.19 Drug-induced persisting dementia 292.10 Drug-induced persisting dementia 292.10 Drug-induced persisting amnestic disorder 292.10 Drug-induced persisting amnestic disorder 292.10 Drug-induced persisting dementia 292.11 Drug-induced persisting amnestic disorder 292.12 Drug-induced mood disorder 292.13 Drug-induced persisting amnestic disorder 292.14 Drug-induced mood disorder 292.15 Unspecified drug dependence, continuous 292.15 Unspecified drug dependence, episodic 292.16 Unspecified drug dependence, ontinuous 292.17 Unspecified drug dependence, ontinuous 292.18 Unspecified drug dependen	292.0		304.83	0 1 0 1 0
292.11 Drug-induced psychotic disorder with delusions 292.12 Drug-induced psychotic disorder with hallucinations 292.2 Pathological drug intoxication 292.8 Other specified drug-induced mental disorders 292.8 Drug-induced delirium 292.8 Drug-induced delirium 292.8 Drug-induced persisting dementia 292.8 Drug-induced persisting amnestic disorder 292.8 Drug-induced mood disorder			304 9	
292.1 Drug-induced persisting dementia 292.8 Drug-induced persisting dementia 292.8 Drug-induced persisting amnestic disorder 292.8 Drug-induced delirium 292.8 Drug-induced persisting amnestic disorder 292.8 Drug-induced persisting dementia 292.8 Drug-induced persisting amnestic disorder 292.8 Drug-induced persisting dementia 292.8 Drug-induced persisting amnestic disorder 292.8 Drug-induced mood disorder 292.8 Drug-induced mood disorder 293.8 Drug-induced persisting amnestic disorder 294.8 Drug-induced mood disorder 295.8 Drug-induced mood disorder 296.8 Drug-induced mood disorder 297.8 Drug-induced mood disorder 298.8 Drug-induced mood disorder				
292.8 Other specified drug-induced mental disorders 292.81 Drug-induced delirium 292.82 Drug-induced persisting dementia 292.83 Drug-induced persisting amnestic disorder 292.84 Drug-induced mood disorder 292.85 Drug-induced mood disorder 292.86 Drug-induced mood disorder 292.87 Drug-induced mood disorder 292.88 Drug-induced mood disorder 292.89 Drug-induced mood disorder 292.80 Drug-induced mood disorder			304.91	Unspecified drug dependence, continuous
292.81 Drug-induced delirium 292.82 Drug-induced persisting dementia 292.83 Drug-induced persisting amnestic disorder 292.84 Drug-induced mood disorder 292.85 Drug-induced mood disorder 292.86 Drug-induced mood disorder 292.87 Drug-induced mood disorder 292.88 Drug-induced mood disorder 292.89 Drug-induced mood disorder 292.80 Drug-induced mood disorder				
292.82 Drug-induced persisting dementia 292.83 Drug-induced persisting amnestic disorder 292.84 Drug-induced mood disorder 292.84 Drug-induced mood disorder 292.85 Drug-induced mood disorder 292.86 Drug-induced mood disorder 292.87 Nondependent aluse of drugs 292.88 Nondependent aluse of drugs 292.80 Nondependent aluse of drugs 2				
292.83 Drug-induced persisting amnestic disorder 292.84 Drug-induced mood disorder 305.00 Alcohol abuse, unspecified		Drug-induced persisting dementia		
292.84 Drug-induced mood disorder				
(1) III III III III III III III III III I	292.84	Drug-induced mood disorder		· · ·

(continued)

Substan	ice use disorders
305.01	Alcohol abuse, continuous
305.02	Alcohol abuse, episodic
305.03	Alcohol abuse, in remission
305.2	Nondependent cannabis abuse
	Cannabis abuse, unspecified
305.21	
305.22	
305.23	
305.3	Nondependent hallucinogen abuse
305.30	Hallucinogen abuse, unspecified
305.31	Hallucinogen abuse, continuous
305.32	Hallucinogen abuse, episodic
305.33	Hallucinogen abuse, in remission
305.4	Nondependent sedative, hypnotic or anxiolytic abuse
305.40	Sedative, hypnotic or anxiolytic abuse, unspecified
305.41	Sedative, hypnotic or anxiolytic abuse, continuous
305.42	Sedative, hypnotic or anxiolytic abuse, episodic
305.43	Sedative, hypnotic or anxiolytic abuse, in remission
305.5	Nondependent opioid abuse
305.50	Opioid abuse, unspecified
305.51	Opioid abuse, continuous
305.52	Opioid abuse, episodic
305.53	Opioid abuse, in remission
305.6	Nondependent cocaine abuse
305.60	Cocaine abuse, unspecified
305.61	Cocaine abuse, continuous
305.62	Cocaine abuse, episodic
305.63	Cocaine abuse, in remission
305.7	Nondependent amphetamine or related acting sympathomimetic abuse
305.70	Amphetamine or related acting sympathomimetic abuse, unspecified
305.71	Amphetamine or related acting sympathomimetic abuse, continuous
305.72	Amphetamine or related acting sympathomimetic abuse, episodic
305.73	Amphetamine or related acting sympathomimetic abuse, in remission
305.8	Nondependent antidepressant-type abuse
305.80	Antidepressant-type abuse, unspecified
305.81	Antidepressant-type abuse, continuous
305.82	Antidepressant-type abuse, episodic
305.83	Antidepressant-type abuse, in remission
305.9	Nondependent other mixed or unspecified drug abuse
305.90	Other, mixed, or unspecified drug abuse, unspecified
305.91	Other, mixed, or unspecified drug abuse, continuous
305.92	Other, mixed, or unspecified drug abuse, episodic
305.93	Other, mixed, or unspecified drug abuse, in remission

Appendix B. Supplementary data

Supplementary data to this article can be found online at http://dx.doi.org/10.1016/j.genhosppsych.2014.12.005.

References

- Institute of Medicine. Crossing the quality chasm: a new health system for the 21st century. Washington, DC: National Academy Press; 2001.
- [2] Stanton MW. The high concentration of U.S. health care expenditures (AHRQ Pub. No. 06-0060). Res Action 2006(19):1–9.
- [3] McGlynn EA, Asch SM, Adams J, Keesey J, Hicks J, DeCristofaro A, et al. The quality of health care delivered to adults in the United States. N Engl J Med 2003;348:2635–45.
- [4] Orszag PR, Emanuel EJ. Health care reform and cost control. N Engl J Med 2010;363: 601–3.
- [5] Alegria M, Jackson JS, Kessler RC, Takeuchi D. National Comorbidity Survey Replication (NCS-R), 2001–2003. Collaborative Psychiatric Epidemiology Surveys (CPES), 2001–2003 [UNITED STATES] [computer file]. Ann Arbor, MI: Inter-university Consortium for Political and Social Research [distributor]; 2003.
- [6] Druss BG, Walker ER. Mental disorders and medical comorbidity. Robert Wood Johnson Foundation: the synthesis project: new insights from research results; 2011.
- [7] Kessler RC, Berglund P, Chiu WT, Demler O, Heeringa S, Hiripi E, et al. The US National Comorbidity Survey Replication (NCS-R): design and field procedures. Int J Methods Psychiatr Res 2004;13:69–92.

- [8] Atkinson Jr JH, Grant I, Kennedy CJ, Richman DD, Spector SA, McCutchan JA. Prevalence of psychiatric disorders among men infected with human immunodeficiency virus. A controlled study. Arch Gen Psychiatry 1988;45:859–64.
- [9] Desai MM, Rosenheck RA, Druss BG, Perlin JB. Mental disorders and quality of diabetes care in the veterans health administration. Am J Psychiatry 2002;159:1584–90.
- [10] Druss BG, Zhao L, Cummings JR, Shim RS, Rust GS, Marcus SC. Mental comorbidity and quality of diabetes care under Medicaid: a 50-state analysis. Med Care 2012; 50:428–33.
- [11] Strine TW, Mokdad AH, Balluz LS, Gonzalez O, Crider R, Berry JT, et al. Depression and anxiety in the United States: findings from the 2006 Behavioral Risk Factor Surveillance System. Psychiatr Serv 2008;59:1383–90.
- [12] Katon W, Lin EH, Kroenke K. The association of depression and anxiety with medical symptom burden in patients with chronic medical illness. Gen Hosp Psychiatry 2007;29:147–55.
- [13] De Hert M, Correll CU, Bobes J, Cetkovich-Bakmas M, Cohen D, Asai I, et al. Physical illness in patients with severe mental disorders. I. Prevalence, impact of medications and disparities in health care. World Psychiatry 2011;10:52–77.
- [14] Miller BJ, Paschall III CB, Svendsen DP. Mortality and medical comorbidity among patients with serious mental illness. Psychiatr Serv 2006;57:1482–7.
- [15] Mitchell AJ, Lawrence D. Revascularisation and mortality rates following acute coronary syndromes in people with severe mental illness: comparative meta-analysis. Br J Psychiatry 2011;198:434–41.
- [16] Roshanaei-Moghaddam B, Katon W. Premature mortality from general medical illnesses among persons with bipolar disorder: a review. Psychiatr Serv 2009;60:147–56.
- [17] Colton CW, Manderscheid RW. Congruencies in increased mortality rates, years of potential life lost, and causes of death among public mental health clients in eight states. Prev Chronic Dis 2006;3:1–14.
- [18] Eaton WW, Martins SS, Nestadt G, Bienvenu OJ, Clarke D, Alexandre P. The burden of mental disorders. Epidemiol Rev 2008;30:1–14.
- [19] Felker B, Yazel JJ, Short D. Mortality and medical comorbidity among psychiatric patients: a review. Psychiatr Serv 1996;47:1356–63.
- [20] Butler M, Kane RL, MacAlpine D, Kathol RG, Fu SS, Hagedorn H. Integration of mental health/substance abuse and primary care. Evid Rep Technol Assess (Full Rep) 2008: 1–362
- [21] Gilbody S, Bower P, Fletcher J, Richards D, Sutton AJ. Collaborative care for depression: a cumulative meta-analysis and review of longer-term outcomes. Arch Intern Med 2006;166:2314–21.
- 2006; 166:2314–21.
 [22] Thielke S, Vannoy S, Unutzer J. Integrating mental health and primary care. Prim Care 2007:34:571–92.
- [23] Wagner EH, Austin BT, Von Korff M. Organizing care for patients with chronic illness. Milbank Q 1996;74:511–44 [p. 514].
- [24] HealthPartners Institute for Education and Research. Mental Health Research Network; 2014.
- [25] Melek S, Norris D. Chronic conditions and comorbid psychological disorders. Report: Milliman Research; 2008.
- [26] Keyserling TC, Sheridan SL, Draeger LB, Finkelstein EA, Gizlice Z, Kruger E, et al. A comparison of live counseling with a web-based lifestyle and medication intervention to reduce coronary heart disease risk: a randomized clinical trial. JAMA Intern Med 2014;174(7):1144–57.
- [27] Charlson ME, Charlson RE, Peterson JC, Marinopoulos SS, Briggs WM, Hollenberg JP. The Charlson comorbidity index is adapted to predict costs of chronic disease in primary care patients. J Clin Epidemiol 2008;61:1234–40.
- [28] Kronick RG, Bella M, Gilmer TP. The faces of Medicaid III: Refining the Portrait of People with Multiple Chronic Conditions. Center for Health Care Strategies, Inc.; October, 2009.
- [29] Kessler RC, Chiu WT, Demler O, Merikangas KR, Walters EE. Prevalence, severity, and comorbidity of 12-month DSM-IV disorders in the National Comorbidity Survey Replication. Arch Gen Psychiatry 2005;62:617–27.
- [30] Kessler RC, McGonagle KA, Zhao S, Nelson CB, Hughes M, Eshleman S, et al. Lifetime and 12-month prevalence of DSM-III-R psychiatric disorders in the United States. Results from the National Comorbidity Survey. Arch Gen Psychiatry 1994;51:8–19.
- [31] Kessler RC, Berglund PA, Bruce ML, Koch JR, Laska EM, Leaf PJ, et al. The prevalence and correlates of untreated serious mental illness. Health Serv Res 2001;36:987–1007.
- [32] Kessler RC, Zhao S, Katz SJ, Kouzis AC, Frank RG, Edlund M, et al. Past-year use of out-patient services for psychiatric problems in the National Comorbidity Survey. Am J Psychiatry 1999;156:115–23.
- [33] Kessler RC, Demler O, Frank RG, Olfson M, Pincus HA, Walters EE, et al. Prevalence and treatment of mental disorders, 1990 to 2003. N Engl J Med 2005;352:2515–23.
- [34] Macey TA, Morasco BJ, Duckart JP, Dobscha SK. Patterns and correlates of prescription opioid use in OEF/OIF veterans with chronic noncancer pain. Pain Med 2011;12:1502–9.
- [35] Rice JB, White AG, Birnbaum HG, Schiller M, Brown DA, Roland CL. A model to identify patients at risk for prescription opioid abuse, dependence, and misuse. Pain Med 2012:13:1162–73.
- [36] Sullivan MD, Edlund MJ, Fan MY, Devries A, Brennan Braden J, Martin BC. Trends in use of opioids for non-cancer pain conditions 2000–2005 in commercial and Medicaid insurance plans: the TROUP study. Pain 2008;138:440–9.
- [37] Ray GT, Mertens JR, Weisner C. Family members of people with alcohol or drug dependence: health problems and medical cost compared to family members of people with diabetes and asthma. Addiction 2009;104:203–14.
- [38] Collins C, Hewson DL, Munger R, Wade T. Evolving models of behavioral health integration in primary care. New York: Milbank Memorial Fund; 2010.