Appendix: Data sources & methodology

The cost of mental illness: Illinois facts and figures

Prevalence of Mental Illness – United States 2015

This slide presents the past-year prevalence of Serious Psychological Distress and several mental health conditions in the U.S. population, as determined by a variety of nationally-representative surveys. Prevalence statistics are retrieved from https://www.nimh.nih.gov/health/statistics/prevalence/index.shtml, except for Serious Psychological Distress and major depressive disorder. The original sources are listed below.


  - In same source, co-morbidity with MDD: correlation of 0.63

- **Major Depressive Disorder**: 12-month prevalence of 6.0% of U.S. adults aged >18yrs. From: Past Year Mental Disorders among Adults in the United States: Results from the 2008-2012 Mental Health Surveillance Study, available at: http://www.samhsa.gov/data/sites/default/files/NSDUH-DR-N2MentalDis-2014-1/Web/NSDUH-DR-N2MentalDis-2014.htm (link active as of 12/9/16)


- **Obsessive Compulsive Disorder**: 12-month prevalence of 1.0% of U.S. adult population. Kessler RC, Chiu WT, Demler O, Walters EE. Prevalence, severity, and comorbidity of twelve-
Estimated number of people living with mental illness – Illinois 2015
The estimated number of people in the state are provided based on past-year prevalence percentages from the previous slide. Since people can receive multiple diagnoses of a serious mental illness, they could be represented in multiple groups in this chart.

Applying percentages from Prevalence of Mental Illness – United States section, to Census Bureau statistics from 2015 (Adult population in Illinois, Comparative Demographics Estimates, American Community Survey 1-Year Estimates: 9,899,810, link active as of 12/14/16) to estimate the number of people with SMI in the past year.

- SPD: 10.4% = 1,029,580
- Major depressive disorder: 6.0% = 593,989
- Bipolar disorder: 2.6% = 257,395
- Schizophrenia: 1.1% = 108,898

Substance abuse in people with Serious Psychological Distress – United States 2015
This chart provides data on the percentage of people who experienced Serious Psychological Distress in the past 12 months and who were dependent on, or abused alcohol or illicit drugs during the same time frame.


- spdyr=1, past year Serious Psychological Distress
- udpyilal=1, illicit drug or alcohol dependence or abuse in past year
- abodalc=1, alchol dependence or abuse in past year
- udpyill=1, any illicit drug dependence or abuse in past year
- udpypnr=1, prescription pain reliever dependence or abuse in past year
- Weight applied: FIN PRSN-LEVEL SMPLE WGHT (ANALWT_C)

There is significant unmet need for mental health care in the U.S. – United States 2015
This slide shows, among people who experienced Serious Psychological Distress (which equals 10.4% of the U.S. adult population), the percentage of people who did not receive mental health care despite an indication of need. Among the latter group, we determined the percentage of people who did not receive mental health care due to costs.


- spdyr=1, past year Serious Psychological Distress
- AMHTXND2=1, perceived need, but did not receive mental health treatment in past year
- MHRCOST2=1, no mental health treatment in past year because could not afford cost
- Weight applied: FIN PRSN-LEVEL SMPLE WGHT (ANALWT_C)
- Missing data values for AMHTXND2 and MHRCOST2 are included in total percentages
A respondent must have reported not receiving mental health treatment that was needed in the past year (AMHTXND2=1) in order to be asked the questions on the reason for not receiving treatment.

Unmet need of mental health treatment due to costs – United States 2015
Similar to the last slide, this chart also shows the number of people who did not receive mental health care due to costs in the past year, but in this case, the outcomes are determined for each type of insurance coverage.

From National Survey on Drug Use and Health, 2015 data (Stata)

- spdyr=1, past year Serious Psychological Distress
- AMHTXND2=1, perceived need, but did not receive mental health treatment in past year
- MHRCOST2=1, no mental health treatment in past year because could not afford cost. A respondent must have reported not receiving mental health treatment that was needed in the past year (AMHTXND2=1) in order to be asked the questions on the reason for not receiving treatment.
- Covered by private insurance (irprvhlt=1)
- Covered by Medicare (irmedicr=1)
- Covered by Medicaid/CHIPCOV (irmcdchp=1)
- Covered by Tricare, Champus, ChampVA, VA, or Military health (irchmpus=1)
- Not covered by any health insurance (IRINSUR4=2)
- Missing data values for MHRCOST2 are included in total percentages
- Weight applied: FIN PRSN-LEVEL SMPLE WGHT (ANALWT_C).

People with mental illness have greater reliance on the safety net – United States 2015
This slide shows the percentage of people in each insurance category who experienced Serious Psychological Distress in the past year.

From National Survey on Drug Use and Health, 2015 data (Stata)

- spdyr=1 – past year Serious Psychological Distress
- Covered by private insurance (irprvhlt=1)
- Covered by Medicare (irmedicr=1)
- Covered by Medicaid/CHIPCOV (irmcdchp=1)
- Covered by Tricare, Champus, ChampVA, VA, or Military health (irchmpus=1)
- Not covered by any health insurance (IRINSUR4=2)
- Weight applied: FIN PRSN-LEVEL SMPLE WGHT (ANALWT_C)
Medicaid reimbursement rates to physicians are low – Illinois and United States 2014

The ratios of Medicaid-to-Medicare reimbursements to physicians for several services are provided showing that physicians receive a lower amount for treating a patient with Medicaid coverage compared to a patient with Medicare coverage. The chart also includes a comparison of this ratio between states in the U.S.

Data was retrieved from [http://kff.org/medicaid/state-indicator/medicaid-to-medicare-fee-index](http://kff.org/medicaid/state-indicator/medicaid-to-medicare-fee-index) (link active as of 12/9/16), timeframe 2014. Column variable: “All services”

Data does not include the temporary increase in fees for primary care services under the Affordable Care Act (2012-2014), nor the reinstatement of this increase in certain states after expiration at the end of 2014 (AL/CO/IA/IN/MD/MS/NM (full reinstatement) and CT/DE/HI/ME/MI/NE/NV/SC (partial reinstatement)

The information on Medicaid fees is collected by the Urban Institute from states that have a Medicaid fee-for-service billing structure, and thus, the fees do not include procedures that were not paid under FFS Medicaid. The Medicare fees have been adjusted for geographical variation.


Hospitalizations for mental illness - Illinois and United States 2014

Data are provided on the total number of hospitalization discharges, as well as the rate of hospitalizations per 100 patients (18 years and over), for hospital stays with a primary diagnosis code of schizophrenia, bipolar disorder, or major depressive disorder. Due to the presence of only one primary diagnosis code per hospital stay, the categories are mutually exclusive, despite a high degree of symptom overlap for these three diagnoses.


- **Bipolar Disorder**: ICD-9-CM principle diagnosis codes 296.00-296.06, 296.10-296.16, 296.4-296.7, 296.80-296.80, 296.89
- **Major Depressive Disorder** ICD-9-CM principle diagnosis codes 296.2-296.3
- **Schizophrenia**: ICD-9-CM principle diagnosis codes 295.00-295.95

The hospitalization rate per SMI patient is calculated by dividing the total number of discharges by the estimated number of adults in the U.S. and Illinois with SMI in 2014. The latter number is calculated by applying percentages from Prevalence of Mental Illness – United States to the number of adults in the U.S. and Illinois in 2014, retrieved from the [Census Bureau statistics](http://www.census.gov) (link active as of 12/14/16)

IL adult population (18 years and over), Comparative Demographic Estimates, 2014 American Community Survey 1-Year Estimates: 9,895,846 =

- 108,854 adults with Schizophrenia (1.1%)
- 257,292 adults with Bipolar disorder: (2.6%)
- 593,751 adults with MDD (6.0%)
U.S. adult population (18 years and over), Comparative Demographic Estimates, 2014 American Community Survey 1-Year Estimates: 245,279,633=

- 2,698,076 adults with Schizophrenia (1.1%)
- 6,377,270 adults with Bipolar Disorder (2.6%)
- 14,716,778 adults with MDD (6.0%)

Length of stay for mental illness hospitalizations - Illinois and United States 2014
Data are provided on the average duration, as well as the total number of days for hospital stays for adults with a primary diagnosis code of schizophrenia, bipolar disorder, or major depressive disorder. Additionally, the average duration per hospital stay for all hospitalizations (which includes schizophrenia/bipolar disorder/major depressive disorder) is presented. Due to the presence of only one primary diagnosis code per hospital stay, the categories are mutually exclusive, despite a high degree of symptom overlap for these three diagnoses.

State and national data from 2014, retrieved from HCUPnet. http://hcupnet.ahrq.gov/ (link active as of 12/14/16). Tabulated the LOS (length of stay) in days (mean) for each mental illness with ICD-9 codes below (principle diagnosis), and for all hospital stays in 2014. Total days in hospital are calculated by multiplying the average LOS with the number of discharges.

- **Bipolar Disorder:** ICD-9-CM principle diagnosis codes 296.00-296.06, 296.10-296.16, 296.4-296.7, 296.80-296.80, 296.89
- **Major Depressive Disorder:** ICD-9-CM principle diagnosis codes 296.2-296.3
- **Schizophrenia:** ICD-9-CM principle diagnosis codes 295.00-295.95
- **SMI total:** combined number of hospital days for schizophrenia, major depressive disorder, and bipolar disorder

Length of stay for youth mental illness hospitalizations - Illinois 2014
Data are provided on the number of hospitalizations and average duration for youth with a primary diagnosis code of psychotic disorder NOS, schizophrenia, bipolar disorder, or major depressive disorder. Due to the presence of only one primary diagnosis code per hospital stay, the categories are mutually exclusive, despite a high degree of symptom overlap for these three diagnoses.

State and national data from 2014, retrieved from HCUPnet. http://hcupnet.ahrq.gov/ (link active as of 12/14/16). Tabulated the total number of discharges, and the LOS (length of stay) in days (mean) for each mental illness with ICD-9 codes below (principle diagnosis) in 2014.

- **Psychotic Disorder, Not Otherwise Specified:** ICD-9-CM principle diagnosis codes 298.9
- **Bipolar Disorder:** ICD-9-CM principle diagnosis codes 296.00-296.06, 296.10-296.16, 296.4-296.7, 296.80-296.80, 296.89
- **Major Depressive Disorder:** ICD-9-CM principle diagnosis codes 296.2-296.3
- **Schizophrenia:** ICD-9-CM principle diagnosis codes 295.00-295.95

Trends in length of stay for schizophrenia hospitalizations - United States 2000-2014
Here we provide the trend in average hospital stay duration from 2000 until 2014 of hospital stays with schizophrenia as primary diagnosis, compared to hospital stays with three other, non-mental health care related hospital stays.
National data from 2000 to 2014, retrieved from HCUPnet. http://hcupnet.ahrq.gov/ (link active as of 12/14/16). Tabulated LOS (length of stay) in days (mean) for each year and each mental illness using the “Trends” option. Percentages are a direct comparison between values for 2000 and 2014.

- **Schizophrenia**: ICD-9-CM principle diagnosis codes 295.00-295.95
- **Heart Attack (Acute Myocardial Infarction)**: ICD-9-CM principle diagnosis codes 410.00-410.92
- **Total hip replacement**: ICD-9-CM principle procedure code 81.51
- **Kidney Transplant**: ICD-9-CM principle procedure code 55.61-55.69

**Average hospital charges for mental illness hospitalizations - Illinois and United States 2014**

This slide shows the average hospital charges per stay for hospitalizations with primary diagnosis code for schizophrenia, bipolar disorder, or major depressive disorder.

Providing actual hospital cost data is preferred over hospital charge data, as charges are known to exceed costs, with ratios depending on geographical location, hospital, service, and payer. As we are using state-level data, the actual ratios specific for each principle diagnosis are unknown. However, for example, for Medicare inpatient stays in Illinois 2011, the average ratio of charge to cost was 3.61. Source: Fuller, RL. *An analysis of real price effects resulting from charge setting practices in the US hospital sector*, Table 1, based on data from the Centers for Medicare and Medicaid Services (CMS) (link active as of 12/14/16).

State and national data from 2014, retrieved from HCUPnet. http://hcupnet.ahrq.gov/ (link active as of 12/14/16). Tabulated the number of discharges, and average charges, for each mental illness below (principle diagnosis).

Charges were converted to 2015 U.S. dollar amounts with conversion factor 1.001186976 (from 2014; Bureau of Labor Statistics CPI Inflation calculator)

- **Bipolar Disorder**: ICD-9-CM principle diagnosis codes 296.00-296.06, 296.10-296.16, 296.4-296.7, 296.80-296.80, 296.89: $19,148 x 1.001186976 = $19,171
- **Major Depressive Disorder**: ICD-9-CM principle diagnosis codes 296.2-296.3: $17,082 x 1.001186976 = $17,102
- **Schizophrenia**: ICD-9-CM principle diagnosis codes 295.00-295.95: $19,594 x 1.001186976 = $19,617

**Total hospital charges for mental illness hospitalizations – Illinois 2014**

The data presented in this slide shows the total hospital charges for 2014 discharges with primary diagnosis code for schizophrenia, bipolar disorder, or major depressive disorder.

State and national data from 2014, retrieved from HCUPnet. http://hcupnet.ahrq.gov/ (link active as of 12/14/16). Tabulated the number of discharges, and average charges, for each mental illness below (principle diagnosis). Total hospital charges for each mental illness are calculated by multiplying the mean charges with the number of discharges.

Charges were converted to 2015 U.S. dollar amounts with conversion factor 1.001186976 (from 2014; Bureau of Labor Statistics CPI Inflation calculator, link active as of 12/9/16)

- **Bipolar Disorder**: ICD-9-CM principle diagnosis codes 296.00-296.06, 296.10-296.16, 296.4-296.7, 296.80-296.80, 296.89: $19,148 x 18,699 x 1.001186976 = $358,473,447
- **Major Depressive Disorder** ICD-9-CM principle diagnosis codes 296.2-296.3: $17,082 \times 23,658 \times 1.001186976 = $404,605,644
- **Schizophrenia**: ICD-9-CM principle diagnosis codes 295.00-295.95: $19,594 \times 18,775 \times 1.001186976 = $368,314,012
- **SMI total**: combined charges for schizophrenia, major depressive disorder, and bipolar disorder = $1,131,393,102

**State mental health agency spending – Illinois and United States 2013**

This chart provides data on State mental health agency expenditures per capita of each state. The expenditures are split up between spending on community-based mental health programs, mental health services in state psychiatric hospitals, and additional costs related to administration, training, research, and evaluation.

From: [State Mental Health Agency-Controlled Expenditures for Mental Health Services](link active as of 12/9/16) State Fiscal Year 2013, NASMHPD Research Institute, Inc. Table 2: SMHA-Controlled expenditures by type of program (in Millions), FY’13. The specific SMHA Expenditures were divided by the number of people in each respective state and total U.S. in 2013, retrieved from the [Census Bureau statistics](link active as of 12/9/16)

Amounts were converted to 2015 U.S. dollar amounts with conversion factor 1.001186976 (from 2014; Bureau of Labor Statistics CPI Inflation calculator)

**Availability of mental health care providers– Illinois and United States 2016**

This chart shows the ratio of mental health providers to the general population on a state- and national level.

- For each state, Population Estimates 2016 retrieved from the [Census Bureau statistics](link active as of 1/25/16).
- Number of mental health providers (including: psychiatrists, psychologists, licensed clinical social workers, counselors, marriage and family therapists and advanced practice nurses specializing in mental health care) in each county were added together to provide a total for each state. Source: [County Health Rankings & Roadmaps](link active as of 1/25/16)
  - Note: data comes from the National Provider Identification data file - as participation is required for providers who transmit electronic health records, very small providers may not be included. In contrast, some professionals may have stopped practicing or are not accepting patients anymore, but are still active in the registration system.

**Availability of mental health care providers and hospital beds - Illinois and United States 2013**

This slide contains data on the number of psychiatrists, psychologists, primary care physicians, as well as the number of psychiatric care beds per 10,000 residents on a state-level compared to the U.S. as a whole.

Source: Area Health Resource Files 2013, MS Access Database (except Psychologists). Variables used:

- Population Estimate 2013, retrieved from the [Census Bureau statistics](link active as of 12/15/16).
Illinois  February 2017

- All variables are divided by the overall population for an estimate per 10,000 residents

Providers:
- MD's, NF, Psychiatry, Total Pat Care, 2013
- Phys, NF, Prim Care Pat Care Excl Hsp Rsdnts, 2013
- Active Psychologists (with Ph.D. or professional degree), 2013

Hospitals beds:
- STG Psychiatric Care, Beds Set Up, 2013: 1.53313096

Shortage of Mental Health Care Providers – Illinois 2016
This infographic represents the number of full-time equivalent mental health providers who are in the current workforce in designated shortage areas and facilities (as determined by the Health Resources and Services Administration) and the number of providers necessary to reach an optimal provider-to-patient ratio.


File: Shortage Areas, Health Professional Shortage Area (HPSA) - Basic Mental Health Care - Designated HPSA Statistics. Table 5. Data as of 12/9/16.

- “Percent of need met” is 68.83% for mental health providers, and FTE needed is 70 (=31.17%). Thus, optimal FTE (100%) is 225, and current workforce is 155.

File: Shortage Areas, Health Professional Shortage Area (HPSA) - Basic Mental Health Care - Designated HPSA Detail. Data as of 7/13/2016.

- The sum of “# of FTEs short” at HSPA Correctional Facilities (Designation Type) in Illinois is 13.7 FTE.

Contact with Criminal Justice System – United States 2015
Using data from the National Survey on Drug Use and Health, we determined the percentage of people who have been arrested (1, 2 or 3 or more times) or have been on parole/supervised release, or were on probation in the past year, split up by Serious Psychological Distress status.


- Past year serious psychological distress indicator (spdyr=1)
  o On parole/supervised release past 12 months (parolrel=1)
  o On probation at any time past 12 months (prbaton=1)
Mental health issues in prison and jail populations – United States
This slide contains data from both the National Inmate Survey (state and jail inmates) and the National Survey of Drug Use and Health (non-institutionalized population) to compare the percentage of people with Serious Psychological Distress in the past month.

- Current Serious Psychological Distress status of inmates in prisons/jails:
  https://www.bjs.gov/content/pub/pdf/svpjri1112.pdf (link active as of 12/9/16)

State Prison Population with Serious Mental Illness - Illinois
This slide shows the percentage of state prisoners previously diagnosed with Serious Mental Illnesses, and the overlap in diagnoses. The Venn diagram shows percentages in each category with one, two or three diagnoses of depressive disorder, bipolar disorder (or manic depression, or mania), and schizophrenia (or other psychotic disorder). Due to rounding, percentages in Venn diagram may not add up to the total percentage of state prisoners with any Serious Mental Illness (bar chart).

  o State: V1056: S5Q15A_FIPS: AT ARREST - RESIDENCE (STATE) = 17
  o Mental illnesses:
    ▪ Major Depressive Disorder: V2401: S9Q9A_1: EVER DIAGNOSED - A DEPRESSIVE DISORDER
    ▪ Bipolar Disorder: V2402: S9Q9A_2: EVER DIAGNOSED - MANIC-DEPRESSION, BIPOLAR DISORDER, OR MANIA
    ▪ Schizophrenia: V2403: S9Q9A_3: EVER DIAGNOSED - SCHIZOPHRENIA OR ANOTHER PSYCHOTIC DISORDER
  o Weight: V2927 – FINALWT: FINAL WEIGHT
  o Missing data values are included in total percentage
  o Proportional Venn diagram created with EulerAPE

Change in treatment before and during incarceration in prison and jails – United States
Using survey data from jail, state and federal prisons, we calculated the percentage of current inmates who have received medication or counseling in the year before arrest, and since admission. The group representing 100% consists of inmates who have been previously diagnosed with depressive disorder, bipolar disorder
and/or schizophrenia, and who have ever received medication (in the “Medication” graph on the left) or counseling (in the “Counseling” graph on the right) in the past.

- **Survey of Inmates in Local Jails, 2002 (ICPSR 4359).**
  [http://www.icpsr.umich.edu/icpsrweb/ICPSR/studies/4359](http://www.icpsr.umich.edu/icpsrweb/ICPSR/studies/4359) (link active as of 12/9/16).
  Dataset DS1: Numeric Data. ASCII+SAS setup files, converted to Stata files using StatTransfer. Variables used:
  - Weight: V2264 FINALWT - 2002 SILJ FINAL WEIGHT
  - Mental illness: Have you ever been told by a mental health professional, such as a psychiatrist or psychologist, that you had:
    - Major Depressive Disorder: V2022 S9Q10A_1 – A depressive disorder
    - Bipolar Disorder: V2023 S9Q10A_2 – Manic-depression, bipolar disorder, or mania
    - Schizophrenia: V2024 S9Q10A_3 – Schizophrenia or another psychotic disorder
  - Treatment variables:
    - V2030 S9Q11A - EVER BEEN MEDICATED FOR MENTAL PROBLEM
    - V2031 S9Q11B_1 - TAKING SUCH MED IN YEAR PRIOR TO ARREST
    - V2033 S9Q11C - TAKEN SUCH MED SINCE ADMISSION
    - V2038 S9Q13A – EVER RECEIVED COUNSELING FOR MENTAL HEALTH PROBLEMS
    - V2039 S9Q13B - RECEIVED SUCH COUNSELING IN PRIOR YEAR OF ARREST
    - V2040 S9Q13C - RECEIVED SUCH COUNSELING SINCE ADMISSION
- **Survey of Inmates in State and Federal Correctional Facilities, 2004 (ICPSR 4572).**
  [http://www.icpsr.umich.edu/icpsrweb/NACJD/studies/4572](http://www.icpsr.umich.edu/icpsrweb/NACJD/studies/4572) (link active as of 12/9/16).
  Dataset DS1 (Federal) & DS2 (State) Numeric Data. ASCII+SAS setup files, converted to Stata files using StatTransfer. Variables used:
  - Weight: V2927 FINALWT: FINAL WEIGHT
  - Mental illness: Have you ever been told by a mental health professional, such as a psychiatrist or psychologist, that you had:
    - Major Depressive Disorder: V2401 - S9Q9A_1: EVER DIAGNOSED - A DEPRESSIVE DISORDER
    - Bipolar Disorder: V2402 - S9Q9A_2: EVER DIAGNOSED - MANIC-DEPRESSION, BIPOLAR DISORDER, OR MANIA
    - Schizophrenia: V2403 - S9Q9A_3: EVER DIAGNOSED - SCHIZOPHRENIA OR ANOTHER PSYCHOTIC DISORDER
  - Treatment variables:
    - V2409 - S9Q10A: EVER TAKEN A MEDICATION FOR MENTAL CONDITIONS
    - V2410 - S9Q10B_1: IN YEAR PRIOR TO ADMISSION, TAKEN MEDICATION FOR MENTAL CONDITION
    - V2412 - S9Q10C: TAKEN MEDICATION FOR A MENTAL CONDITION SINCE ADMISSION
    - V2417 - S9Q12A: EVER RECEIVED COUNSELING FROM TRAINED PROFESSIONAL (because of mental or emotional problem)
    - V2418 - S9Q12B: RECEIVED COUNSELING DURING THE 12 MONTHS BEFORE ARREST
    - V2419 - S9Q12C: RECEIVED COUNSELING SINCE ADMISSION
  - Including missing-data values in percentages

**Costs of Illinois State Prison Population with SMI**
This slide provides an estimate on the number of state prisoners previously diagnose with serious mental illness, and an estimate of the overall annual costs of incarceration of these prisoners.
- Illinois Department of Corrections Fiscal Year 2014 Annual Report (June 2015) https://www.illinois.gov/idoc/reportsandstatistics/Documents/FY2014%20Annual%20Report.pdf link active as of 12/15/16). Table on pg 71: The FY2014 Average Daily Population was 48,770. Thus, the average cost per inmate in 2014 was $28,886
- Used percentage of 18.3% from Survey of Inmates in State and Federal Correctional Facilities, 2004 (see State Prison Population with Serious Mental Illness) to calculate the number of Illinois state prison inmates with previous diagnosis of Serious Mental Illness (48,770 x 18.3% = 8,925) and the costs for this group of people: $28,886 x 8,925 = $257,807,550
- Costs were converted to 2015 U.S. dollar amounts with conversion factor 1.001186976 (from 2014; Bureau of Labor Statistics CPI Inflation calculator, link active as of 12/15/16)): $258,113,561

**Economic burden of serious mental illness – Illinois 2015**
This chart shows an estimate of the total state economic burden of schizophrenia, bipolar disorder, and major depressive disorder. Due to symptom overlap, diagnoses of mental illnesses are not mutually exclusive, therefore, patients with two or more diagnoses may be represented in multiple categories.

  - “Burden Per Patient” amount from table 1:
    - $46,537/Schizophrenia patient
    - $20,571/BPD patient
    - $14,100/MDD patient
  - Prevalence numbers of mental illnesses from Estimated number of people living with mental illness – Illinois 2015
    - Major depressive disorder: 6.0% = 593,989 x $14,100 = $8,375,244,900
    - Bipolar disorder: 2.6% = 257,395 x $20,571 = $5,294,872,545
    - Schizophrenia: 1.1% = 108,898 x $46,537 = $5,067,786,226
  - Conversion factor of 1.001186976 to obtain estimate economic burden for each mental illness in 2015 U.S. dollar amounts (from 2014; Bureau of Labor Statistics CPI Inflation calculator, link active as of 12/9/16)
    - Major depressive disorder: $8,385,186,114.69
    - Bipolar disorder: $5,301,157,431.63
    - Schizophrenia: $5,073,801,566.62

**Economic burden of serious mental illness – United States 2015**
This chart shows an estimate of the total national economic burden of schizophrenia, bipolar disorder, and major depressive disorder. Due to symptom overlap, diagnoses of mental illnesses are not mutually exclusive, therefore, patients with two or more diagnoses may be represented in multiple categories.

  - “Burden Per Patient” amount from table 1:
- $46,537/Schizophrenia patient
- $20,571/BPD patient
- $14,100/MDD patient

- Prevalence numbers of mental illnesses from [Prevalence of Mental Illness - United States](#)
- Adult population (18 and over) in 2015 of 247,789,111, retrieved from the [Census Bureau statistics](#) (Comparative Demographic Estimates, 2015 American Community Survey 1-Year Estimates, link active as of 12/9/16)
- Conversion factor of 1.001186976 to obtain estimate economic burden for each mental illness in 2015 U.S. dollar amounts (from 2014; [Bureau of Labor Statistics CPI Inflation calculator](#), link active as of 12/9/16)