





A Treatment Journey for Patients with Mental Health Illness

A Focus on the Jail System



This program is paid for by Otsuka Pharmaceutical Development & Commercialization, Inc. (OPDC) and Lundbeck, LLC.

Speakers are paid consultants for Otsuka Pharmaceutical Development & Commercialization, Inc.



Objectives



Review evolution of antipsychotic treatments



Compare evidence supporting oral and long-acting injectables



ong-Acting Injectables: An Option for Patients with Psychotic Illness



Discuss Mental Health in the Jail System



Discuss the transition of jail to the community



Review what a Certified Community Behavioral Health Clinic is (CCBHC)





Review Evolution of Antipsychotic Treatments



Typical and Atypical APs Have Been Studied for >70 Years

Introduction of 1st vs 2nd Generation APs 1950s

- Phenothiazines first used in clinical practice¹
- Allowed patient discharge;
 shift from custodial care²

Additional 1st Gen APs and introduction of 2nd Gen APs 1960s-1990s

- Additional 1st Generation APs introduced³
- First LAI introduced²
- Molecular targets of pharmacological agents expanded to DA, 5-HT, and NE¹
- First 2nd Generation AP approved in Europe in 1989⁴ and in the United States in 1990³

Addition of new formulations and treatment modalities 1990s-present

- Additional oral 2nd Generation APs introduced³
- First 2nd Generation LAI introduced⁵
- Development of novel formulations, including oral disintegrating, sublingual, transdermal APs,⁶ subcutaneous LAI injections,⁷ and digital medicine⁸

AP, antipsychotic; DA, dopamine; 5-HT, serotonin; LAI, long-acting injectable; NE, norepinephrine.

1. Lehmann and Ban. Can J Psychiatry. 1997;42:152-162. 2. Johnson. Br J Psychiatry Suppl. 2009;195:S7-S12. 3. Tandon. J Clin Psychiatry. 2011;72(suppl 1):4-8. 4. Ayano. J Schizophr Res. 2016;3:1027. 5. Patel et al. Br J Psychiatry Suppl. 2009;52:S1-S4. 6. Citrome et al. J Clin Psychiatry. 2019;80:18nr12554. 7. Karas et al. P.T. 2019;44:460-466. 8. Papola et al. Epidemiol Psychiatr Sci. 2018;27:227-229.



Comparison of Typical and Atypical APs

	1st Generation AP medications	2nd Generation AP medications
Mechanism	• D ₂ -receptor antagonism ¹	 D₂-receptor antagonism¹ D₂-receptor partial agonism¹ 5-HT_{2A} antagonism¹ 5-HT_{1A} partial agonism¹
Benefits	 Reduce frequency and severity of psychotic episodes² Improve functional capacity² 	 Reduce frequency and severity of psychotic episodes² Improve functional capacity² Reduce risk of tardive dyskinesia³ Improve relapse prevention⁴ and treatment adherence⁵
Limitations	 Adverse events (eg, extrapyramidal symptoms, hyperprolactinemia)² 	 Adverse events (eg, weight gain, sedation, agranulocytosis⁶)

AP, antipsychotic; D₂, dopamine receptor 2; 5-HT, serotonin.

- 1. Horacek et al. CNS Drugs. 2006;20:389-409.
- 2. Haller et al. F1000 Prime Rep. 2014;6:57.
- 3. Carbon et al. World Psychiatry. 2018;17:330-340.

- 4. Kishimoto et al. Mol Psychiatry. 2013;18:53-66.
- 5. Dolder et al. Am J Psychiatry.
- 2002:151:103-108
- 6. Lehman et al. Practice Guideline for the Treatment of Patients With Schizophrenia Second Edition. 2010.



AP Efficacy Must Be Balanced With Side Effects

Examples of clinical benefits

Efficacious for positive, negative, and cognitive symptoms¹

Reduces risk of relapse²

Improves stability³

Improves quality of life⁴

Examples of side effects*

EPS (eg, akathisia, tardive dyskinesia)⁵⁻⁷

Sedation⁵

Weight gain⁵

Metabolic effects⁵

Hyperprolactinemia⁵

Sexual side effects⁵

Because APs vary in both clinical efficacy and side-effect profiles,⁵ treatment decisions may need to change based on disease stage as well as tolerability⁶

AP, antipsychotic; EPS, extrapyramidal symptoms. *Prevalence depends on class of AP being used.⁵

- 1. Naber et al. *Schizophr Res.* 2001;50:79-88.
- 2. Csernansky et al. CNS Drugs. 2002;16:473-484
- Kay and Lindenmayer, Comp Psychiatry, 1991:32:28-35.

- 4. Briggs et al. Health Qual Life Outcomes. 2008;6:105.
- Leucht et al. Lancet. 2013:382:951-962.
- 6. Lehman et al. Practice Guideline for the Treatment of Patients With Schizophrenia Second Edition. 2010.
- 7. Carbon et al. World Psychiatry. 2018;17:330-340.





Compare Evidence Supporting Oral and Long-Acting Injectables

Evidence Supporting Use of Oral or LAI AP Medication Depends on Study Design

RCTs1 Compare data from patients receiving investigational therapy vs placebo/active control Several RCTs reported no superiority of LAIs over OAPs: however. RCTs may inadvertently support adherence (eg, appointment reminders)² RCTs also tend to enroll patients with less severe symptoms²

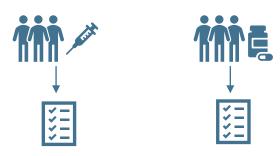
Mirror studies²



Compare data from when patients were receiving OAP vs when they were receiving LAI

- A meta-analysis of mirror studies found superiority of LAIs over OAPs
- Expectation bias is a limitation of these studies as patients are unblinded to the treatment they receive

Parallel cohorts²



Compare data from patients receiving LAI vs those receiving OAP

- A meta-analysis of parallel-cohort studies found superiority of LAIs over OAPs in reducing hospitalizations and increasing adherence
- Design is limited by patient selection bias (eg, clinicians may administer LAIs to more severely ill patients)

AP, antipsychotic; LAI, long-acting injectable; OAP, oral AP; RCT, randomized controlled trial

- Kabisch et al. Dtsch Arztebl Int. 2011;108:663-668.
- 2. Kishimoto et al. Schizophr Bull. 2018;44:603-619.



Oral APs Are Effective But May Face Adherence Challenges

Advantages

- Effective¹
- Many generics available²
- Extensive clinical experience¹
- Flexibility³
- Short duration of action³



Disadvantages

- Daily administration⁴
- Potential for misuse³
- Influenced by first-pass metabolism⁵
- Adherence rates can be inaccurate unless ingestion of the medication is closely monitored⁶

AP, antipsychotic.

- 1. Citrome. Expert Opin Pharmacother. 2012;13:1545-1573.
- 2. Albright. https://www.psychcongress.com/article/three-key-antipsychotics-lose-patent-protection. Accessed March 3, 2020.
- 3. Burton. Psychiatry. 2010.
 - Bera. J Clin Psychiatry. 2014;75(suppl 2):30-33.
- 5. Zhornitsky and Stip. Schizophr Res Treatment. 2012;2012:407171. 6
- 6. Velligan et al. Schizophr Res. 2020;215:17-24.



LAIs Promote Adherence But May Have Negative Perceptions

Advantages

- Promotion of treatment adherence¹⁻³
- Transparency of adherence²
- Ease of administration⁴
- Reduced peak-trough plasma levels²
- Improved patient outcomes²
- Improved patient and physician satisfaction²
- Lowered relapse rate^{2,5}
- Decreased rehospitalizations⁶



Disadvantages

- Patient concerns regarding potential pain of injection⁷
- Slow dose titration and longer time to reach steady state⁴
- May prolong side effects⁴
- Difficult to adjust small doses⁷
- Limited number of available formulations⁷
- Potential for small amount to leak into subcutaneous tissue⁴
- Association with involuntary hospitalization and related trauma⁸
- Perception that treatment is punitive or forced by clinicians without consideration of patient feelings or rights⁹

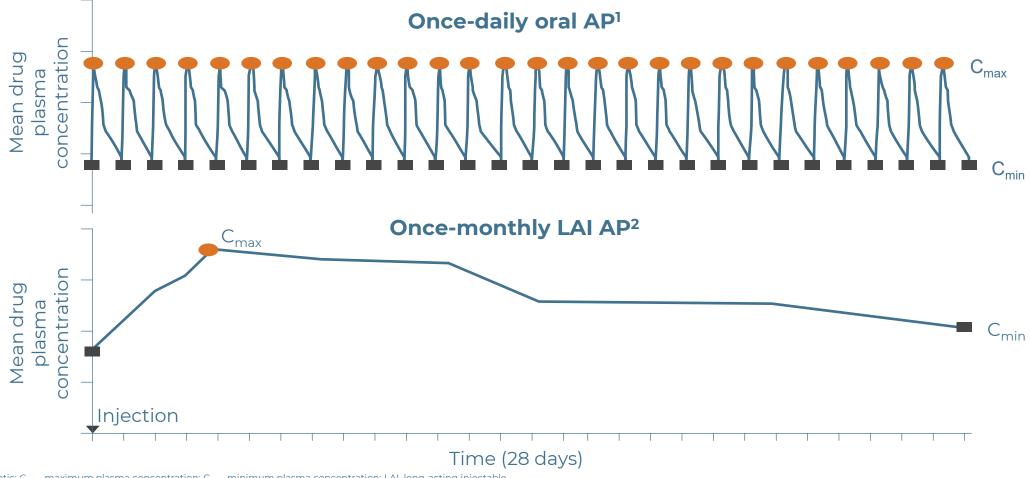
LAI, long-acting injectable.

1. Patel et al. Br J Psychiatry Suppl. 2009;195:S1-S4. 2. Geerts et al. BMC Psychiatry. 2013;13:58. 3. Lang et al. Psychiatr Serv. 2010;61:1239-1247. 4. Agid et al. Expert Opin Pharmacother. 2010;11:2301-2317. 5. Zhornitsky and Stip. Schizophr Res Treatment. 2012;2012:407171. 6. Lafeuille et al. BMC Psychiatry. 2013;13:221. 7. Jeong and Lee. Clin Psychopharmacol Neurosci. 2013;11:1-6. 8. Iyer et al. Can J Psychiatry. 2013;58(5 suppl 1):14S-22S. 9. Brissos et al. Ther Adv Psychopharmacol. 2014;4:198-219..

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Hypothetical Steady-State Plasma Levels Over 1 Month With Once-Daily Oral and Once-Monthly LAI APs



AP, antipsychotic; C_{max}, maximum plasma concentration; C_{min}, minimum plasma concentration; LAI, long-acting injectable.

Modeled data are based on the recommended starting dose of an actual daily oral AP,¹ with variations expected between the pharmacokinetic parameters of different daily oral APs.¹³ Some long-acting formulations require overlapping dosing of oral AP treatment at initiation⁴; modeled data are based on the recommended starting dose of a once-monthly LAI APs.²³

I. Mallikaarjun et al. *J Clin Pharmacol*. 2004;44:179-187. 2. Mallikaarjun et al. *Schizophr Res*. 2013;150:281-288. 3. Sheehan et al. *Innov Clin Neurosci*. 2012;9(7-8):17-23. 4. Kane et al. *Eur Neuropsychopharmacol*. 1998;8:55-66.



Potential Reasons for Low LAI Use in Early-Phase Schizophrenia



- Overestimate of adherence
- Bias against injections
- Perception of inappropriate in earlyphase disease



- Poor understanding of LAI benefit
- Lack of LAI training
- Inadequate training in shared decision-making
- Communication strategies needed



Challenges in clinical use

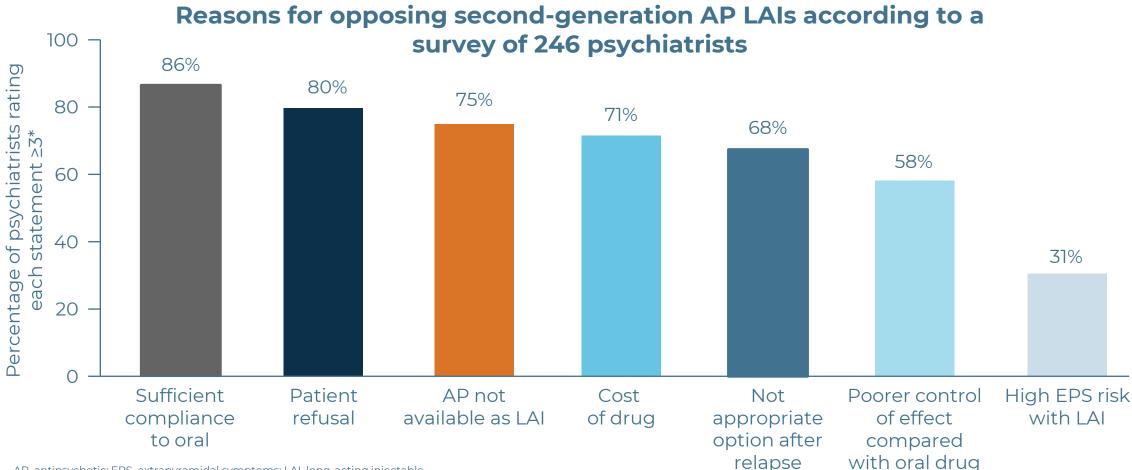
- Impact on therapeutic alliance
- Inadequate implementation by inpatient referrals
- Insufficient caregiver involvement
- Mixed results of oral vs LAI trials

LAI, long-acting injectable.

Kane and Correll. J Clin Psychiatry. 2019;80:IN18031AH1C.



Sufficient Compliance With Oral APs Is the Leading Factor for Psychiatrists Opposing LAIs



AP, antipsychotic; EPS, extrapyramidal symptoms; LAI, long-acting injectable. *Based on scale of 0-5, with 3 being "sometimes" and 5 being "very frequently."

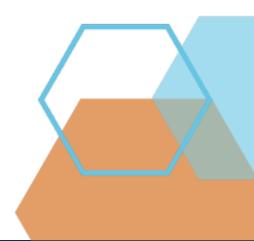
1. Heres et al. *J Clin Psychiatry*. 2006;67:1948-1953.





Long-Acting Injectables: An Option for Patients with Psychotic Illness





LAI Underutilization

- In a survey of psychiatrists, patient refusal was cited as a primary reason for not prescribing LAIs¹
- However, in a survey of patients without LAI experience:
 - 80% cited having never been informed about the option by their psychiatrist²
 - 75% of psychiatrists felt that they informed the patient, but 68% of psychiatrists believe that patients are not sufficiently informed about the different methods of administrating antipsychotic drugs²
- Moreover, in a survey of patients with >3 months of LAI experience:
 - Injectable antipsychotics were the preferred formulation³
 - 70% of patients felt better supported in their illness by virtue of regular contact with the doctor or nurse who administered their injection³
- Heres S, et al. J Clin Psychiatry. 2006;
- Jaeger M, Rossler W. Psychiatry Res. 2010
- Caroli F, et al. Patient Prefer Adherence. 2011.



Patients Tend to View LAIs Favorably

As recorded in focus groups, patients reported that LAIs were easier to use and noted the advantage of consistent dosage² A survey of 206 patients with ≥3 months of experience with a LAI formulation found that injectable APs were the preferred formulation, with 70% reporting that the added benefit of regular contact with a doctor or nurse administering treatment made them feel more supported³

Many studies have found that patients prefer LAI over oral medication¹ In a separate study of 83 patients with schizophrenia, only 21% of patients who were naive to LAI treatment reported receiving information about LAIs from their psychiatrist⁴

LAI, long-acting injectable.

- . Walburn et al. Br J Psychiatry. 2001;179:300-307. 2.
- Iyer et al. Can J Psychiatry. 2013;58(5 suppl 1):14S-22S. 3
- Caroli et al. Patient Prefer Adherence. 2011:5:165-171.
- Jaeger and Rossler. *Psychiatry Res.* 2010;175(1-2):58-62.



However, Clinicians May Generally Believe Patients Do Not View LAIs Favorably

Clinicians generally viewed LAIs as being less acceptable to patients¹

Clinicians should self-reflect on their own beliefs as negative assumptions about patient preferences may result in a pessimistic style of delivering information¹

In a survey of 102 consultant psychiatrists, 33% believed patients always prefer oral medications over LAIs¹

In a survey of 83 patients with schizophrenia and 81 psychiatrists, 75% of psychiatrists felt that they informed the patient about LAIs, but only 33% of patients felt informed²

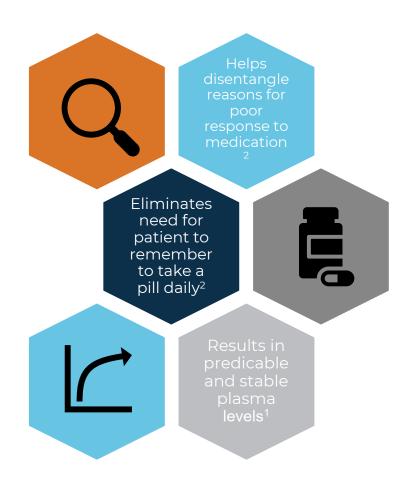
LAI, long-acting injectable.

- l. Patel et al. *J Psychopharmacol*. 2010;24:1473-1482.
- 2. Jaeger and Rossler. Psychiatry Res. 2010;175(1-2):58-62.



Potential Advantage of LAI

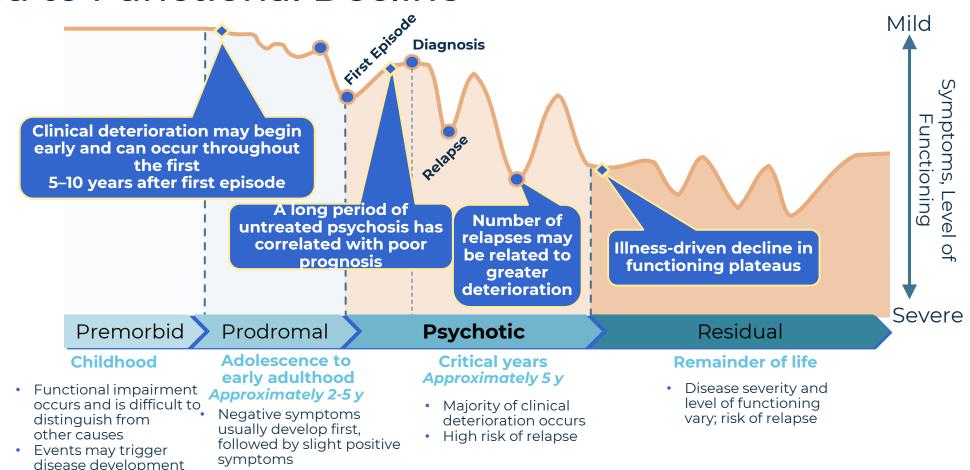




- 1. McEvoy JP. J Clin Psychiatry. 2006.
- 2. Brissos et al. Therapeutic Advances in Psychopharmacology. 2014..



The Theoretical Course of Schizophrenia Progression May Lead to Functional Decline¹⁻⁴

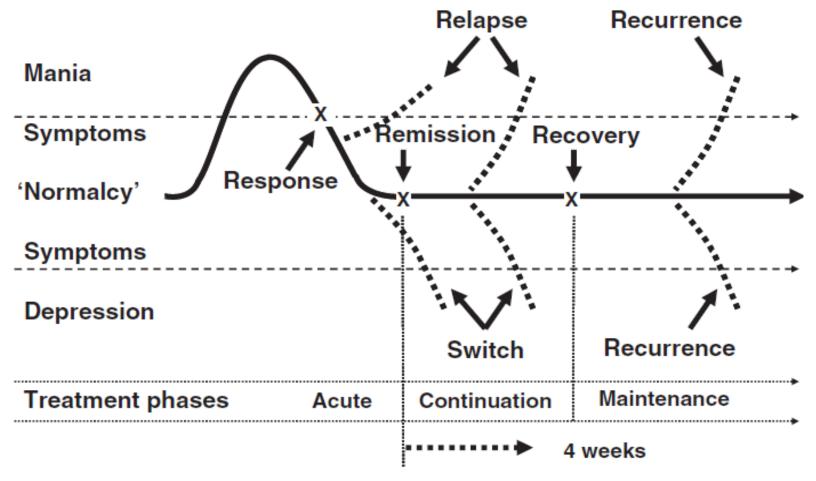


McGlashan TH. Schizophr Bull. 1988:14(4):515-542: Lehman AF. Am J Psychiatry. 2004;161(suppl 2):1-56.



Emsley R, et al. BMC Psychiatry. 2013;13:50;

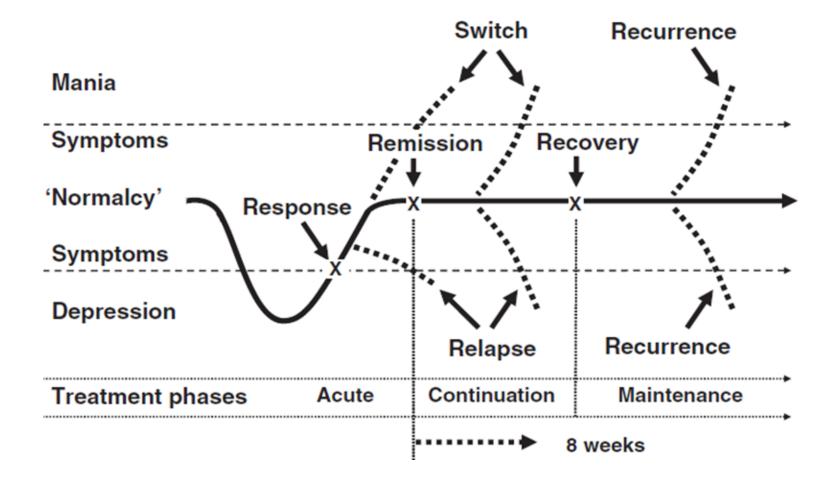
Defining Relapse (Manic Episode)



Tohen et al. Bipolar Disord. 2009;11:453-473.



Defining Relapse – Bipolar Depressive Episode







Summary



Alternative methods of drug delivery, such as LAIs, expand treatment options for schizophrenia beyond oral typical and atypical medications¹



Patient nonadherence to medication can lead to poor outcomes²⁻⁷



LAIs can improve adherence but may be associated with negative perceptions^{8,9}



Improving how clinicians communicate about alternative interventions and evaluate patient adherence can help to support patient needs¹⁰

LAI, long-acting injectable.

1. Karas et al. P.T. 2019;44:460-466. 2. Velligan et al. J Clin Psychiatry. 2009;70(suppl 4):1-46. 3. Ascher-Svanum et al. BMC Res Notes. 2009;2:6. 4. Sun et al. Curr Med Res Opin. 2007;23:2305-2312. 5. Morken et al. BMC Psychiatry. 2008;8:32. 6. Higashi et al. Ther Adv Psychopharmacol. 2013;3:200-218. 7. Novick et al. Schizophr Res. 2009;108:223-230. 8. Patel et al. Br J Psychiatry Suppl. 2009;52:S1-S4. 9. Brissos et al. Ther Adv Psychopharmacol. 2014;4:198-219. 10. Kane and Correll. J Clin Psychiatry. 2019;80:IN18031AH1C.

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Mental Health in the Jail System

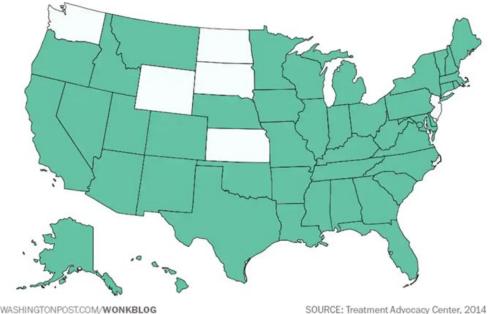




More Individuals with Mental Health Disorders are in Jail than in Hospitals

- How many people are locked up in the U.S.?
 - The U.S. locks up more people per capita than any other nation¹
 - 698 per 100,000 residents
- 2.3 million people are held within the American criminal justice system¹
 - 1,291,000 in state prisons
 - 631,000 in local jails
 - 226,000 in federal prisons & jails
- <u>Jail Churn</u>: Every year, over 600,000 people enter prison gates, but people go to jail 10.6 million times each year
- Nationwide, it is estimated that 1.7 million people with serious mental illnesses are booked into jails annually²

In 44 states and the District of Columbia, at least one prison or jail holds more individuals with serious mental illness than the largest psychiatric hospital operated by the state. The only exceptions are Kansas, New Jersey, North Dakota, South Dakota, Washington and Wyoming,





Sawyer, W. & Wagner, P. Prison Policy Initiative. Accessed on 7/14/2021 at: https://www.prisonpolicy.org/reports/pie2020.html.

Leifman, S. Eleventh Judicial Circuit Criminal Mental Health Project. 2020.

Mental Illness and Criminal Justice System

66% of women in prison are reported to having a history of MI, almost two times the rate of men in prison

Suicide is the leading reason of death for people held in local iails

Around **4,000 people** with SMI are held in solitary confinement inside US prisons.



2 in 5 people who are incarcerated have a history of SMI (44% in local jails and 37% in state and local prison)

70% of youth in juvenile system have a diagnosable mental health condition

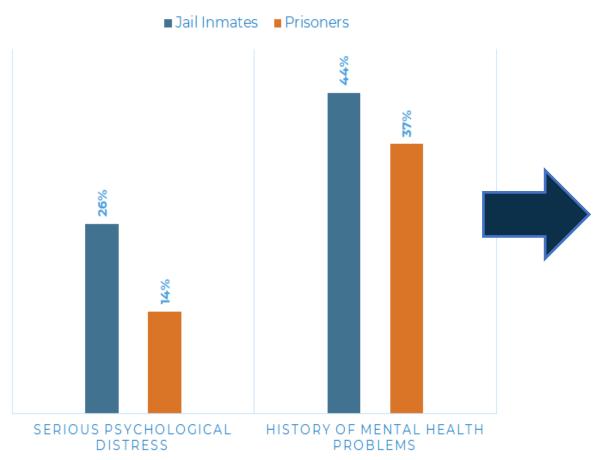


People with SMI enters jail about 2 million times per year

Mental Health By the Numbers | NAMI: National Alliance on Mental Illness



Many Prisoners and Jail Inmates Suffer from Poor Mental Health



History of a mental health problem	Jail Prisoners inmates	
Major depressive disorder	24.2%	30.6%
Bipolar disorder	17.5	24.9
Schizophrenia/other psychotic disorder	8.7	11.7
Post-traumatic stress disorder	12.5	15.9
Anxiety disorder	11.7	18.4
Personality disorder	13.0	13.5



^{1.} Bronson, J. & Berzofsky, M. The Bureau of Justice Statistics, 2017, 1-7.

Indicators of Mental Health Problems Reported by Prisoners & Jail Inmates

- Sex:^a
 - Females [prison (20%) or jail (32%)] vs. Males [prison (14%) or jail (26%)]
- Race:^a
 - White [prison (17.3%) or jail (31%)] vs. Black [prison (12.5%) or jail (22.3%)] or Hispanic [prison (11.5%) or jail (23.2%)]
- Education:b
 - College degree [prison (40.7%) or jail (49.8%)] vs. high school graduates [prison (32.1%) or jail (38.8%)]
- Age:^a
 - Prisoners ages 18 to 64 (15%) vs. age 65 or older (10%)
- Marital status:^a
 - Prisoners with other marital status (15-18%) vs. married (12%)
- Lifetime number of arrests:^b
 - More than one arrest [prison (32-48.9%) or jail (36.7-55.9%)] vs. one arrest [prison (27%) or jail (30.8%)]
- Total time in a correctional facility prior to current facility:a
 - Prisoners who spent 5 years or more previously incarcerated (16.5%) vs. no prior time served (13.4%)



^{1.} a, met threshold for serious psychological distress; b, have a history of mental health problems

Bronson, J. & Berzofsky, M. The Bureau of Justice Statistics, 2017, 1-7.

Mental Health Disorders in Inmates can Lead to Negative Outcomes

- Inmates with a mental health disorder:
 - Remain in jail longer than other inmates
 - Present behavioral management problems that may result in their isolation
 - Are at higher risk for being assaulted and injured
 - Have difficulty following jail/prison rules
 - Are at higher risk of returning to incarceration
- Inmates with a mental health disorder are more likely to complete suicide²
 - Between 2013 and 2014 the number of suicides in state prisons increased by 30% (from 192 to 249 deaths)



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Treatment Advocacy Center Serious Mental Illness Prevalence in Jails and Prisons. Available at: https://www.treatmentadvocacycenter.org/evidence-and-research/learn-more-about/3695.

United States Department of Justice Office of Justice Programs Mortality in State Prisons, 2001-2014. Available at: https://www.bjs.gov/content/pub/pdf/msp0114st.pdf.

Jail Mental Health Stats*

Recidivism Rate

- Over 75% of Missouri Inmates with SMI have a history of contacts with the criminal justice system²
- Between 2005-2009, 15% of offenders released possessed a MI²
- · Of this 15%, an estimated 57% returned to prison within 3 years of their release date²
- Those who return to prison often have been unable to comply with conditions of probation or parole due to mental illness factors

Substance Abuse

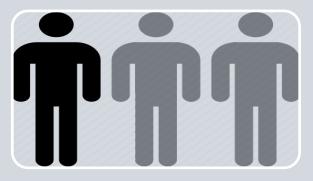
- Over 75% of prisoners with serious mental illness also have a SUD³
- The prevalence of SUD in prisoners with schizophrenia is 50%, bipolar 60%, and PTSD 60-80%³

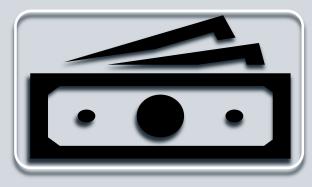
- 1. Eddy, J. (2010). Director, Budget, Research & Evaluation. Missouri Department of Corrections. Email correspondence.
- 2. MRP Steering Teams. (2010). Updated Baseline Outcome Results & Sentencing County Analysis Releases July 1, 2004 to June 5, 2009. Retrieved October 1, 2010 from www.doc.mo.gov/documents.mrp/BaselineResults.pdf-2010-01-13.
- 3. Lewis, C.E., MD. (n.d.). Dual Diagnosis. Power Point Presentation. Information from the state of Missouri



Recidivism







In 2005, a released prisoner had an average of 5 arrests during a 9-year period (1). More than two thirds of inmates released from prison will be arrested within the first 3 years and 83% will be returned to jail system within 9 years (1). Cost of incarceration have societal and financial burden (3).

Van Deinse, T. B., Crable, E. L., Dunn, C., Weis, J., & Cuddeback, G. (2021). Probation Officers' and Supervisors' Perspectives on Critical Resources for Implementing Specialty Mental Health Probation. Administration and policy in mental health, 48(3), 408–419. https://doi.org/10.1007/s10488-020-01081-8
Zgoba, K. et al. Journal of the American Academy of Psychiatry and the Law Online Feb 2020, JAAPL.003913-20; DOI: 10.29158/JAAPL.003913-20





Alper (2018), 2018 Update on Prisoner Recidivism: A 9-Year Follow -up Period. Retrieved on April 18, 2022 from 2018 Update on Prisoner Recidivism: A 9-year Follow-up Period (2005-2014) (ojp.gov)

Mental Health Problems Often Go Untreated in Prisons and Jails



- Prisoners (54%) who had a mental health indicator were more likely than jail inmates (35%) to have received mental treatment since admission
 - 46% (prison) and 30% (jail) received prescription medication
 - 42% (prison) and 18% (jail) received counseling or therapy
 - 34% (prison) and 13% (jail) received prescription medication and counseling or therapy
- Only about 1/3 of prisoners and inmates with a mental health indicator were currently receiving treatment



^{1.} Bronson, J. & Berzofsky, M. The Bureau of Justice Statistics, 2017, 1-7.



Transition from Jail to the Community



Challenges After Released and Upon Return to Community







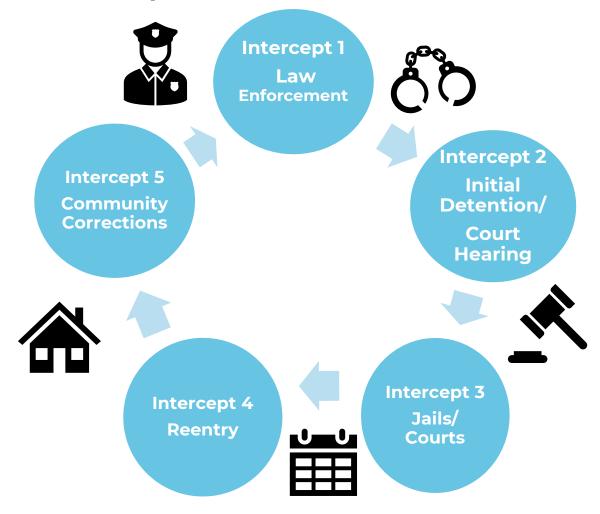
Identifying Barriers to Mental Health Treatment and Medication Continuity in Prison

- 2004 Survey of Inmates in State and Federal Correctional Facilities
 - 14, 499 state and 3686 federal prisoners were surveyed
- Assessed the continuity of pharmacotherapy used in prison
- Results:
 - Most prevalent mental health conditions Depression, Mania, Anxiety, PTSD
 - One fourth of inmates received mental diagnosis during their lifetime
 - 18% were taking medication for a mental health conditions at admission to prison
 - Less than 50% of those reported taking medications at intake reported not receiving medication for the same condition while in prison
 - Screening was strongly correlated with having seen a medical profession while in prison on both state or federal facilities



^{1.} Reingle Gonzalez, J. M., & Connell, N. M. (2014). Mental health of prisoners: identifying barriers to mental health treatment and medication continuity. American journal of public health, 104(12), 2328–2333. https://doi.org/10.2105/AJPH.2014.302043353535

Sequential Intercept Model



^{1.} The Sequential Intercept Model (SIM). (n.d.). Www.samhsa.gov. https://www.samhsa.gov/criminal-juvenile-justice/sim-overview



Transition Planning From Jail

- Examined a Midwest county jail with a face to face in-reach program led by a social worker who coordinates transition planning and Mental health services upon community entry
 - Is MH Service coordination associated with utilization of post-release MH treatment services, CoC, and rearrest?
 - What factors are associated with post release treatment engagement, CoC, and rearrest?
- 161 participants 56.99% male, 74.2% white, 35 years old mean age
- Results:
 - 82.8% enrolled by program coordinator
 - Participants engaged in the program who were provided with a warm hand-of to communitybased services and had additional follow up had 11 times greater odds of maintaining CoC, which is a critical period for stabilizing and maintaining care
 - 23% decrease in number of participants in jail stays after the program
 - 3 times longer delayed return to jail when an individual maintained CoC compared to those who did not receive CoC



^{1.} Hicks, D. L., Comartin, E. B., & Kubiak, S. (2021). Transition Planning from Jail; Treatment Engagement, Continuity of Care, and Rearrest. Community Mental Health Journal. https://doi.org/10.1007/s10597-021-00820-x

Summary



Inmates face challenges after released and upon return to community



Continuity of care is a barrier to mental health treatment in prisons



Sequential intercept model details how individuals with mental health and SUD can be intervened with community-based actions to increase diversion from criminal justice system



Transition planning from Jail showed 3 times longer delayed return to jail when an individual maintained CoC compared to those who did not receive CoC

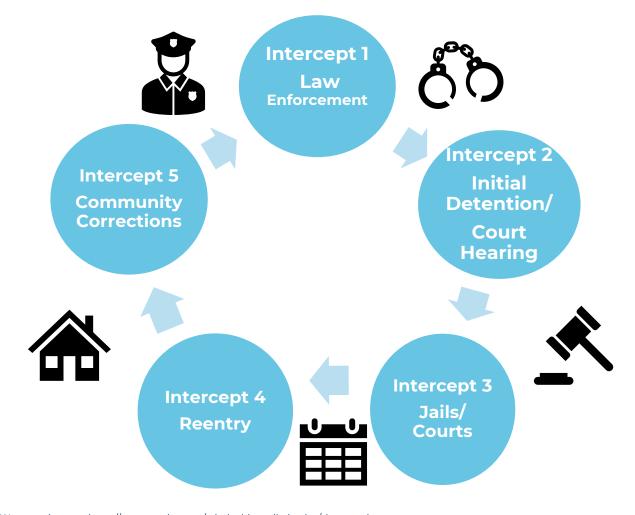




Certified Community Behavioral Health Centers



Sequential Intercept Model



[.] The Sequential Intercept Model (SIM). (n.d.). Www.samhsa.gov. https://www.samhsa.gov/criminal-juvenile-justice/sim-overview



CCBHC Scope of Services

Screening, Assessment, Diagnosis and Risk Assessment

Primary Health Screening and Monitoring

Community Based Mental Health Care for Veterans

Case Management

Psychiatric Rehabilitation

Peer, Family Support and Counselor Services

Patient-centered Treatment Planning

Outpatient Mental Health Services or Substance Use Disorder

Crisis Intervention Services

1. Certified Community Behavioral Health Clinics (CCBHCs). (n.d.). Www.samhsa.gov. https://www.samhsa.gov/certified-community-behavioral-health-clinics



CCBHC's Role in the Crisis Continuum

Prevention

- Engagement in care early
- Crisis prevention and planning
- Outreach and Support
 Outside the Clinic

Crisis Response

- 24/7 Mobile teams
- Crisis stabilization
- Suicide prevention
- Detox
- Law enforcement and hospital coordination

Post crisis care

- Discharge/release planning, support and coordination
- Comprehensive
 Outpatient Mental Health
 and Substance use
 disorder care

Improving Access to Treatment Services for Mental Illness and Substance Use Disorders Certified Community Behavioral Health Centers (CCBHC). (n.d.). https://www1.nyc.gov/assets/citiesthrive/downloads/pdf/CCBHC-Presentation.pdf#:~:text=36%25%20of%20CCBHCs%20operate%20a%20crisis%20drop-in%20facility%2C



Impact of CCBHC on Increased Care Access

Nevada: 250% increase from year 1 to year 3 in patients served

Missouri: 27% increase in client care access in the first 4 years of the program

Texas: no wait lists at any CCBHC in 2 years

Oregon: 17% increase in patients with serious mental illness served

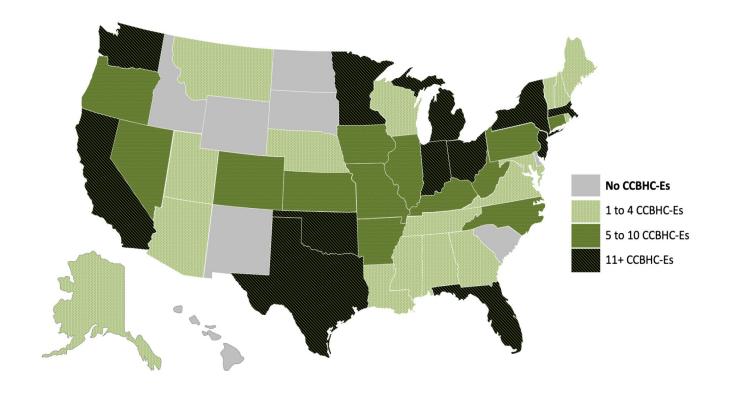
New York: 21% increase in patients served in the first year

^{1.} Improving Access to Treatment Services for Mental Illness and Substance Use Disorders Certified Community Behavioral Health Centers (CCBHC). (n.d.). https://www1.nyc.gov/assets/citiesthrive/downloads/pdf/CCBHC-Presentation.pdf#:~:text=36%25%20of%20CCBHCs%20operate%20a%20crisis%20drop-in%20facility%2C



CCBHC Expansion Grant Sites Per State

There are over 400 CCBHC across the country





^{1.} Certified Community Behavioral Health Clinics (CCBHCs). (n.d.). Www.samhsa.gov. https://www.samhsa.gov/certified-community-behavioral-health-clinics

CCBHCs' Impact on Missouri

Pre-release screening, referrals, or other activities ensuring continuity of care upon re-entry to the community from jail provided by 72% pf CCBHC

20% decrease in hospitalizations after 3 years

36% decrease in emergency room visits

23% overall increase in Behavioral health services in 3 years

19% increase in veteran services

55% decrease in justice involvement with behavioral health populations



Improving access to Treatment Services for Mental Illness and Substance Use Disorders Certified Community Behavioral Health Centers (CCBHC). (n.d.). https://medicaid.ms.gov/wp-content/uploads/2022/02/Dr.-Parks-CCBHC-Handouts.pdf

^{*}Missouri was a pilot state for the CCBHC model

CCBHC Positive Impacts

Increased MAT for Substance abuse in Missouri and Oklahoma

70% no further law enforcement involvement for care engagement at six months in Missouri

40% increased patient treated for cooccurring SUD and SMI in Texas

Oklahoma's Grand Lake Mental Health drop-in centers produced 99% reduction in emergency psychiatric hospitalizations

Missouri's Family Guidance Center's Law Enforcement Center Liaison provided discharge planning to individuals who are set to be released from incarceration

North Carolina's Monarch launched an EMS Rapid Opioid Overdose team that provided support to 120 people who had experienced overdose over a 2-year period

^{1.} Improving Access to Treatment Services for Mental Illness and Substance Use Disorders Certified Community Behavioral Health Centers (CCBHC). (n.d.). https://www1.nyc.gov/assets/citiesthrive/downloads/pdf/CCBHC-Presentation.pdf#:~:text=36%25%20of%20CCBHCs%20operate%20a%20crisis%20drop-in%20facility%2C





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A Treatment Journey for Patients with Mental Health Illness

A Focus on the Jail System

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