

# Use of Clozapine for Thriving in the Community

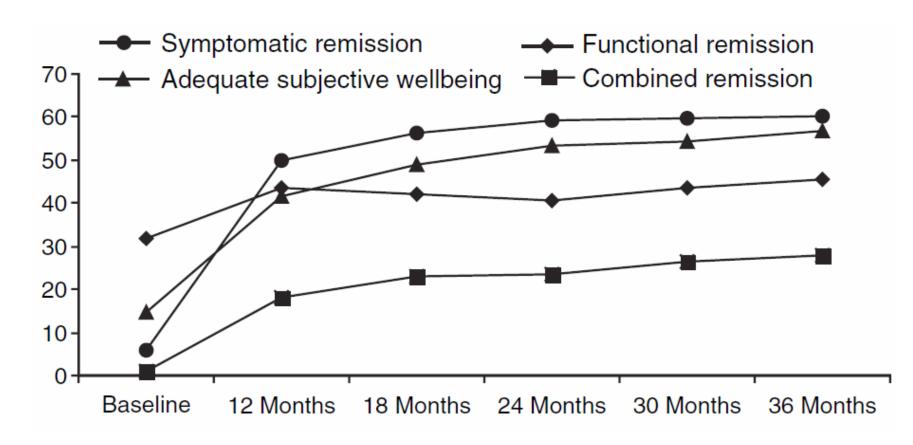
Alexander S. Young, MD MSHS Professor of Psychiatry | UCLA Sand By Sand Substance Abuse and Mental Health Services Administration

Administered by AMERICAN PSYCHIATRIC ASSOCIATION



# Prevalence of Treatment Resistance in Schizophrenia

- 392 never-treated patients with schizophrenia
- Remission rates during treatment follow-up
- > 90% used 2<sup>nd</sup> gen antipsychotic medications first line
- 14% never met any remission criteria



# **Burden of Treatment Resistance**

- High rate of smoking (56%)
- High rate of alcohol abuse (51%) and substance abuse (51%)

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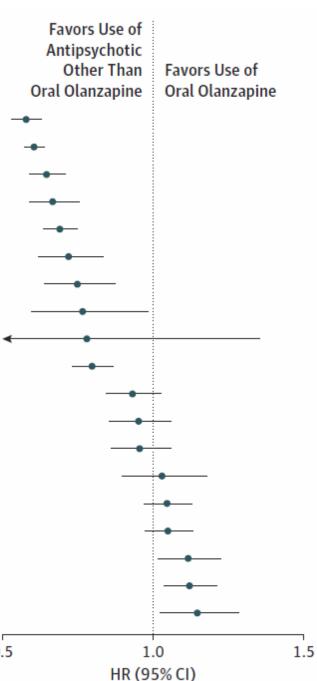
- High rate of suicidal ideation (44%)
- Quality of life 20% lower
- Healthcare costs 3 11 times higher



### **Antipsychotic Medication Comparative Effectiveness**

- Odds of treatment failure compared with oral olanzapine
- All adults in Sweden
- 2006-2013

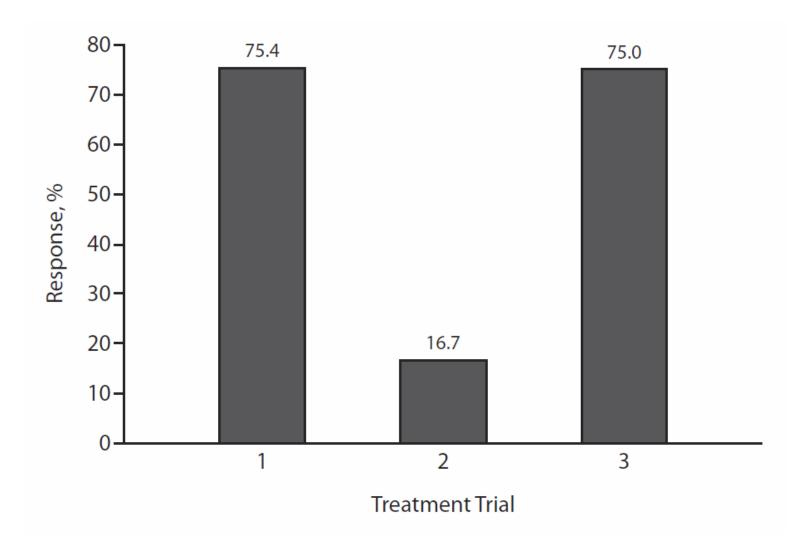
Treatment	HR (95% CI)
Oral clozapine	0.58 (0.53-0.63)
Polytherapy	0.61 (0.57-0.64)
LAI perphenazine	0.65 (0.59-0.71)
LAI haloperidol	0.67 (0.59-0.75)
LAI zuclopenthixol	0.69 (0.64-0.75)
LAI paliperidone	0.72 (0.62-0.83)
LAI flupentixol	0.75 (0.64-0.87)
LAI olanzapine	0.77 (0.60-0.98)
LAI fluphenazine	0.78 (0.45-1.35)
LAI risperidone	0.80 (0.73-0.87)
Oral perphenazine	0.93 (0.84-1.03)
Oral zuclopenthixol	0.95 (0.85-1.06)
Oral haloperidol	0.96 (0.86-1.06)
Oral flupentixol	1.03 (0.90-1.18)
Oral quetiapine	1.05 (0.97-1.13)
Oral risperidone	1.05 (0.97-1.13)
Other oral formulations	1.12 (1.02-1.22)
Oral aripiprazole	1.12 (1.04-1.21)
Oral levomepromazine	1.15 (1.02-1.28)



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# When Should We Use Clozapine?

- 244 patients
- First episode schizophrenia
- Medication algorithm
  - Trials 1&2: risperidone or olanzapine
  - Trial 3: clozapine

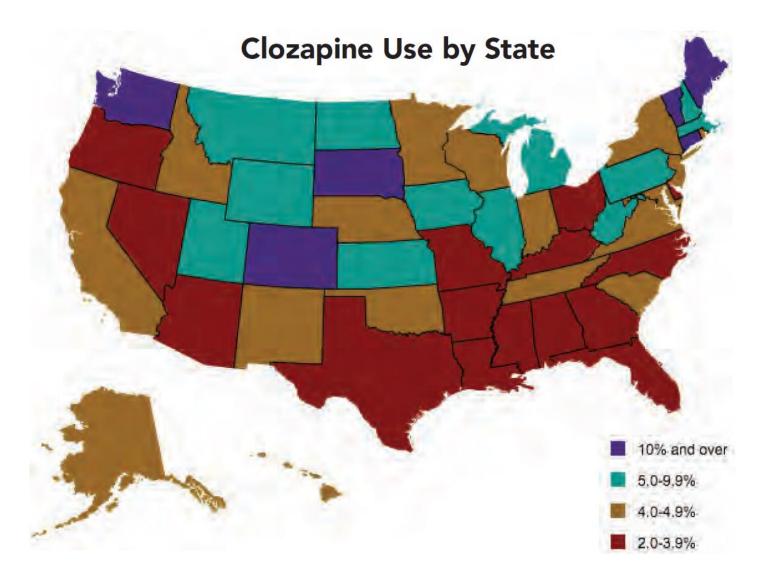


# **Treatment Guidelines**

- Patients with schizophrenia are appropriate for clozapine when
  - <u>treatment-resistant</u>: significant symptoms despite trials of two other antipsychotic medications
  - <u>risk for suicide</u> attempts or suicide remains substantial despite other treatments
  - <u>risk for aggressive behavior</u> remains substantial despite other treatments



Clozapine Use for Schizophrenia			
Australia	35%		
China	30%		
England	23%		
Germany	20%		
Denmark	10%		
Malaysia	4%		
U.S.	4%		

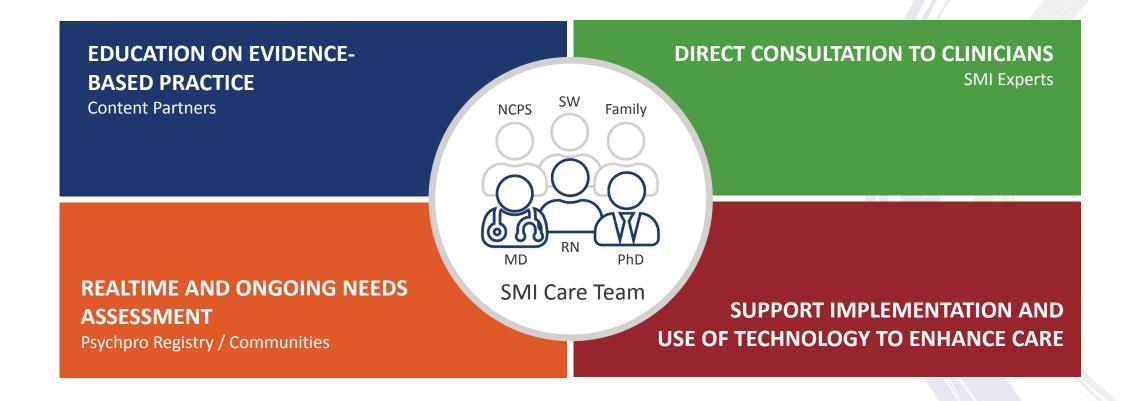


#### CSS-SMI GRANT GOALS

Support implementation of evidence-based, person-centered pharmacological and psychosocial interventions for individuals with serious mental illness (SMI), and increase access to care that includes a set of recovery support services provided by professionals including peer support specialists.



#### SMI ADVISER PROJECT AIMS











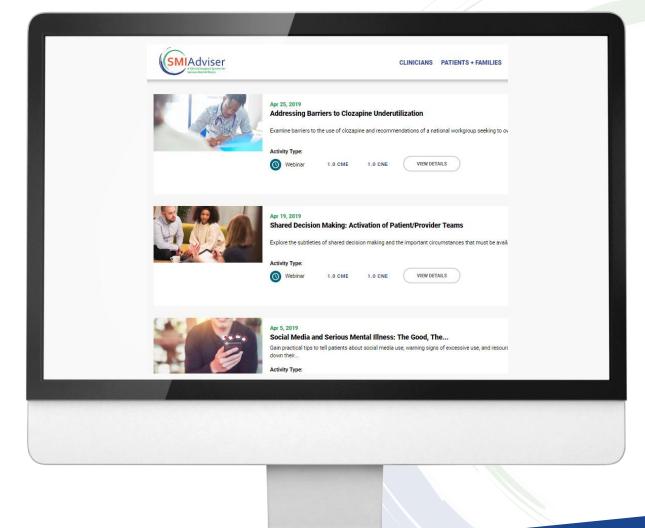
#### SMI ADVISER STRATEGIC APPROACH





### EDUCATION CATALOG

- 23 courses currently available.
- Courses available as "live" or "ondemand" to meet learner availability
- Continuing education credits available for physicians and nurses
- All **weekly** webinars include live Q&A sessions with our faculty experts
- Free educational resources for clinicians





### **CLINICAL WEBINARS**

IMPLEMENTATION	TECHNOLOGY	PSYCHOPHARMACOLOGY	RECOVERY	ACCESS TO CARE
Addressing Weight in the Population With Schizophrenia	Informed Decision Making for Picking SMI Smartphone Apps	Addressing Barriers to Clozapine Underutilization	How Peer Support Complements Clinical Practices	Addressing the Public Health Epidemic of Premature Mortality in People with SMI: Evolving Roles for Mental Health Clinicians
Fostering Organizational Change to Promote Uptake of Evidence-Based Practices: Lessons and Tools	Meeting the Challenges of Security and Privacy When Using Digital Technology Tools	Adherence to Antipsychotics in Schizophrenia: Clinical Considerations	Peer Support as a Profession	Cognitive Behavioral Therapy for Psychosis: Understanding the Basics
Treatment and Risk Prediction: Clinical Informatics for Care of Serious Mental Illness	Social Media and Serious Mental Illness: The Good, The Bad, and The Unknown	Psychotropic Medications and Older Adults: Update on Safety Considerations	Shared Decision Making: Activation of Patient/Provider Teams	Psychiatric Mental Health Advanced Practice Registered Nurses (PMH- APRNs): Evolving Roles

\*Non-Webinar Event – Clinician Q&A: Clozapine REMS Program





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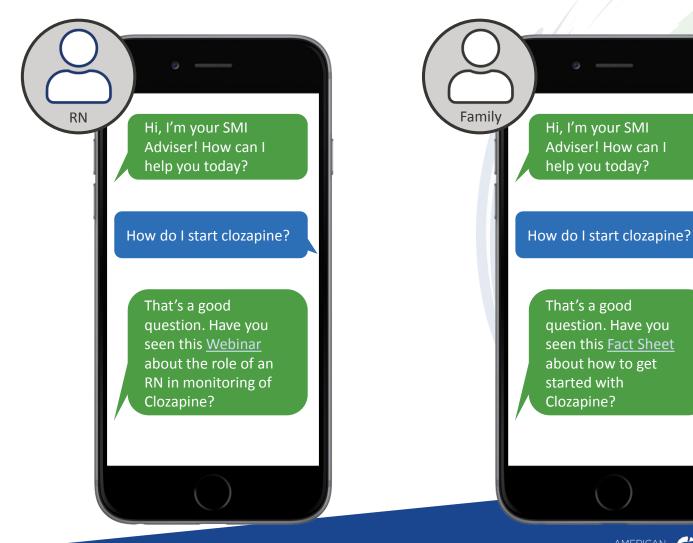
#### SMI ADVISER STRATEGIC APPROACH





#### SMI ADVISER ANSWER ENGINE CHAT BOT

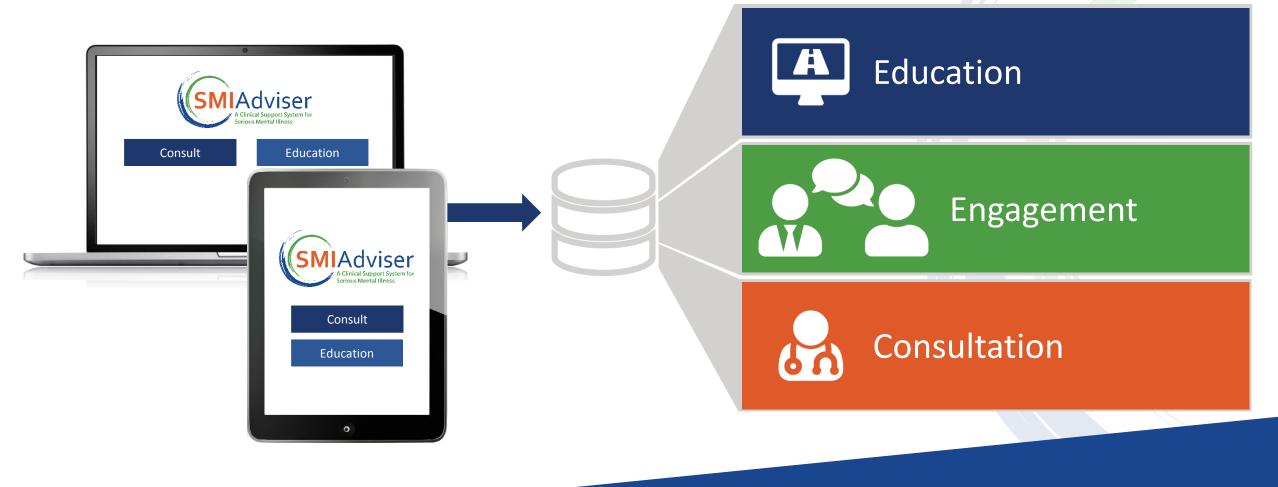








#### SMI ADVISER STRATEGIC APPROACH





## CLOZAPINE CENTER OF EXCELLENCE (COE)

- Increase and improve the use of clozapine
- Led by Alex Young and NASMHPD http://SMIAdviser.org/clozapine
- Workgroup: Brian Hepburn, Tony Battista, Rob Cotes, Doris Fuller, Deanna Kelly, Ray Love, Jonathan Meyer, Debra Pinals, Donna Rolin, Gopal Vyas
- Resources, clinical tips, CME/CNE education, clinical consultations
- Engage with the clozapine community through the Clozapine COE Listserv <u>http://apapsy.ch/clozapine-list</u>



### FIND ANSWERS IN OUR KNOWLEDGE BASE

Activat light System for Series Match lifes	An APA and SAMHSA Initiative Province S SAMHSA CLINICIANS PATIENTS + FAMILIES ABOUT US CALENDAR CONTACT Q		1 Go to SMIa	
FIND THE ANSWERS YOU NEED IN OUR KNOWLEDGE BASE	C	LINICIANS PATIENTS+FAMILIES ABOUT US CALENDAR CONTACT Q	2 Browse any question, o	
Search topics, find resources, and enhance what you know about SMI.	My friend/family member doesn't want to participate in any What can I do? Answered by: Terl Brister, PhD, LPC, SMI Patient and Family Engagement Expert - National Alliance on N Date Answered: February 15, 2019 Tags: Bipolar, Clinical High Risk, Depression, Family Involvement, First Break Psychosis, Peer Engagement Disorders	Aental Illness	question, o	
😤 /Knowledge Base	Are there support groups or help for families experiencing a Answered by: Donna Rolin, PhD, APRN, SMI Nursing Expert-University of Texas, Austin Date Answered: February 27, 2019 Tage: Clinical High Risk, Family Involvement, Level of Care, Support of Families	What is Shared Decision Making and what are it A 2001 report of the Institute of Medicine defined patient centered care as "care that	is respectful of and responsive to individual patient pre	
Search	What is Shared Decision Making and what are its benefits? Answered by: Patrick Hendry, SMI Recovery and Peer-to-Peer Engagement Expert - Mental Health Am Date Answered: March 25, 2019 Tags: Complementary Approaches (CAM), Family Involvement, Health Navigator, Integrated Care, Outre Shared Decision Making, Support of Families, Trauma-Informed Care, Wellness	Ame This process whereby patients and clinicians work together as partners in making healthcare decisions, is called Shared Decision Making		
	What is Family-Focused Therapy for bipolar disorder? Answered by: Amy N. Cohen, PhD, Implementation Scientist and SMI Psychological Treatment Expert Date Answered: March 26, 2019 Tage: Bipolar, Family Involvement, Support of Families	participate with their own treatment. When individuals feel ownership of their own co and possible outcomes of the choices available to them, they are far more likely to fo paternalistic authority and assume the role of a partner based on the patient's needs process begins, and desired outcomes become increasingly possible.	ondition and actively begin the process of learning about ollow through with treatment plans. When clinicians ste	
Clozapine	Co-Mc Disord View Publisher: National Alliance on Mental Illeas (NAM) Vear of Publication: 2016 Tage: Family Involvement, Health Navigator	Type: Knowledge Base Answered by: Patrick Hendry, SMI Recovery and Peer-to-Peer Engagement Expert - Mental Heal Date Answered: March 25, 2019 Topic: Family Involvement / Engagement	th America	
What is closapine REMS? Closapine Blood Count Monitoring Closapine Blood Levels Closapine Blood Levels Closapine Dosing	If marju Illness to use it? used for people with serious mental linesses? Is substance abuse common in people with schizophrenia? What are smoking cessation tools for those with schizophrenia?	Tags: Complementary Approaches (CAM), Family Involvement, Health Navigator, Integrated Care Shared Decision Making, Support of Families, Trauma-Informed Care, Wellness         f       in         KNOWLEDCE BASE	r, <u>Outreach, Peer Engagement, Peer Navigators, Peer-led Interve</u>	
Clozapine Orthostatic Hypotension, Bradycardia, Syncope Side Effect	What are the best ways of helping people with serious mental illnesses guit tobacco?			
VIEW ALL	VIEW ALL			

adviser.org/knowledge-base

y subject area, ask a or search for a specific topic

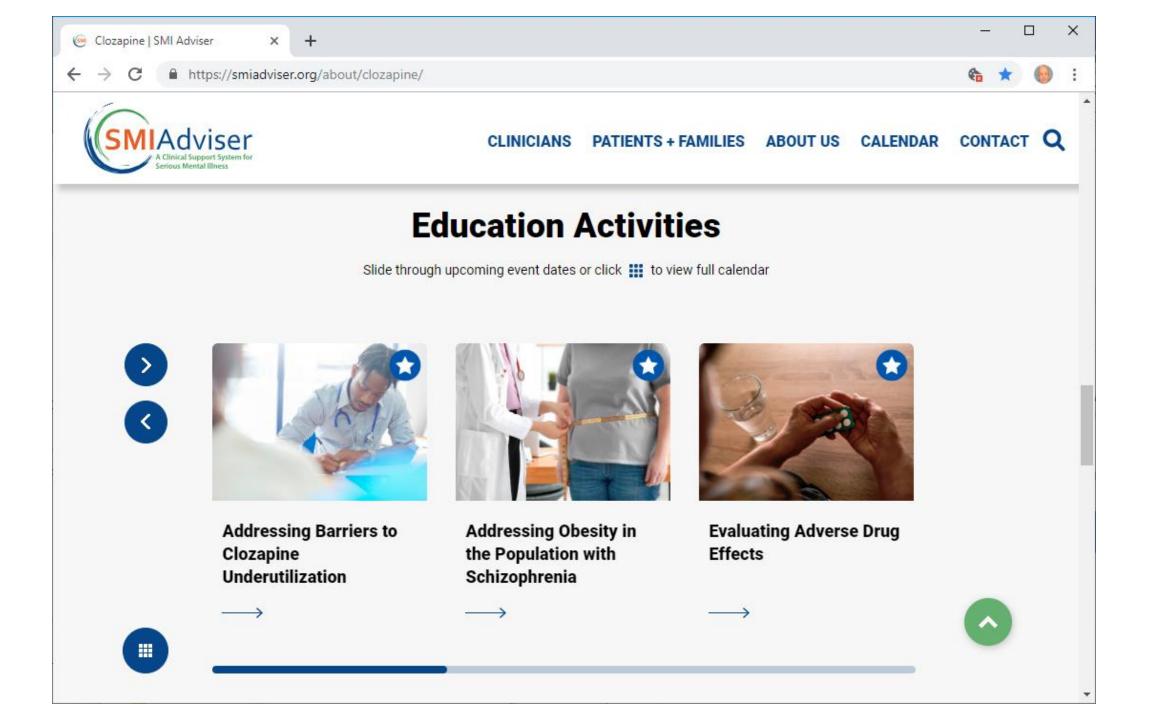
preferences, needs, and values," and d patients working together to produce

While the partnership may include g. While clinicians are experts in their artner, then they are far less likely to out and understanding the purpose tep outside the traditional role of e, a true "shared decision making"

ventions, Practice, Self-management,



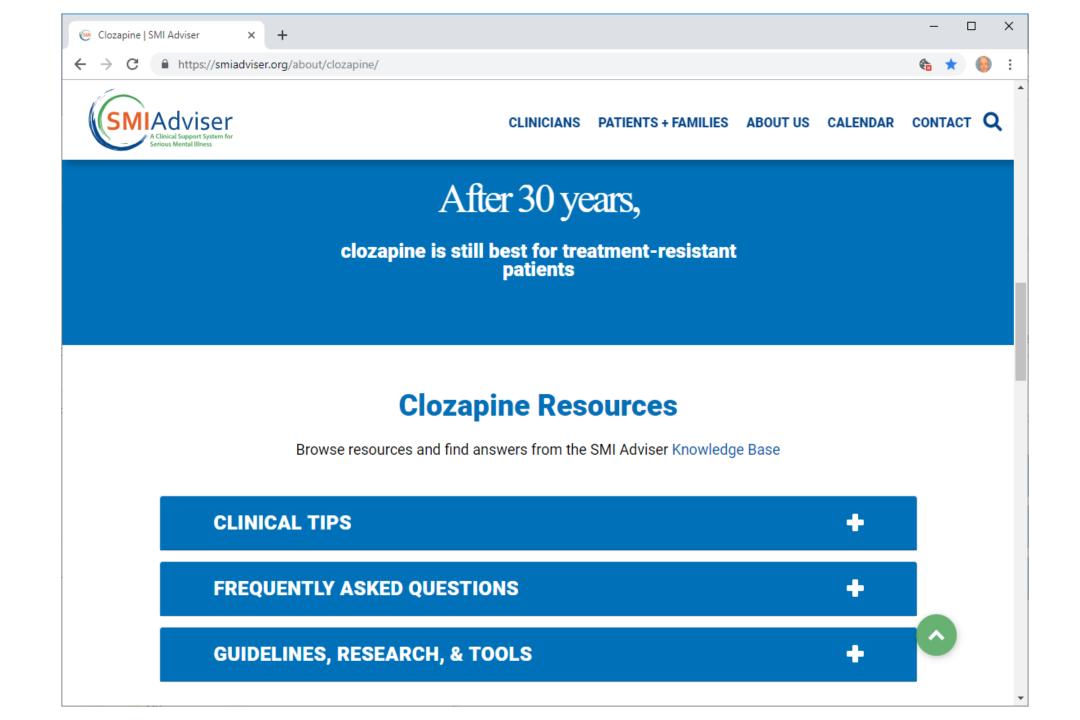


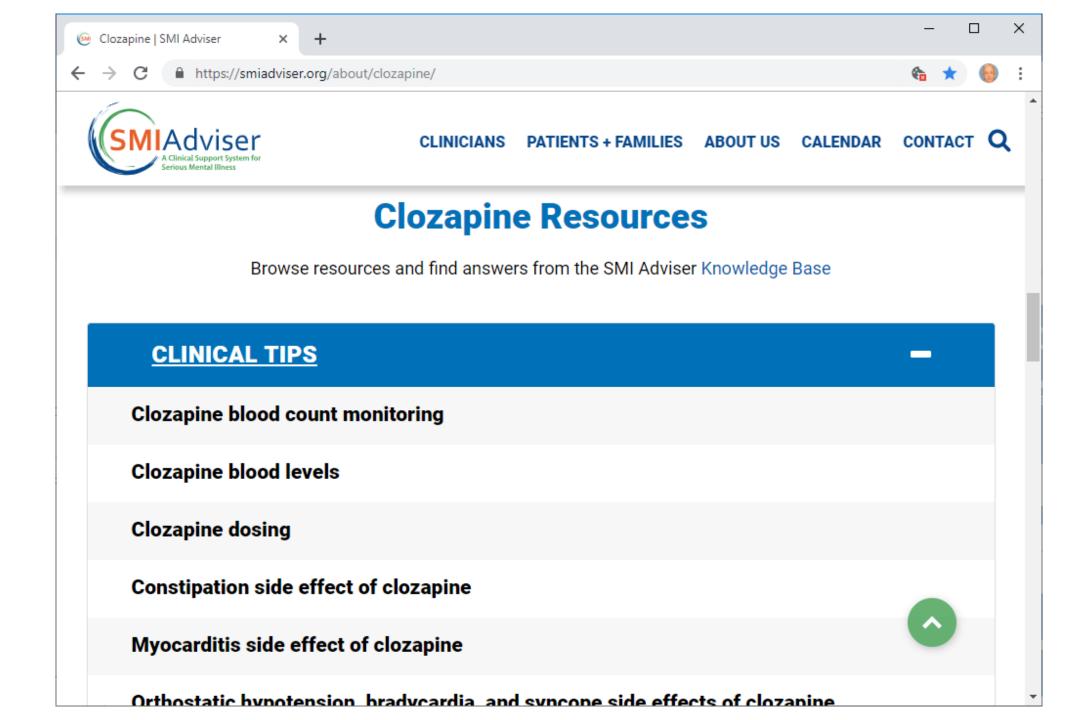


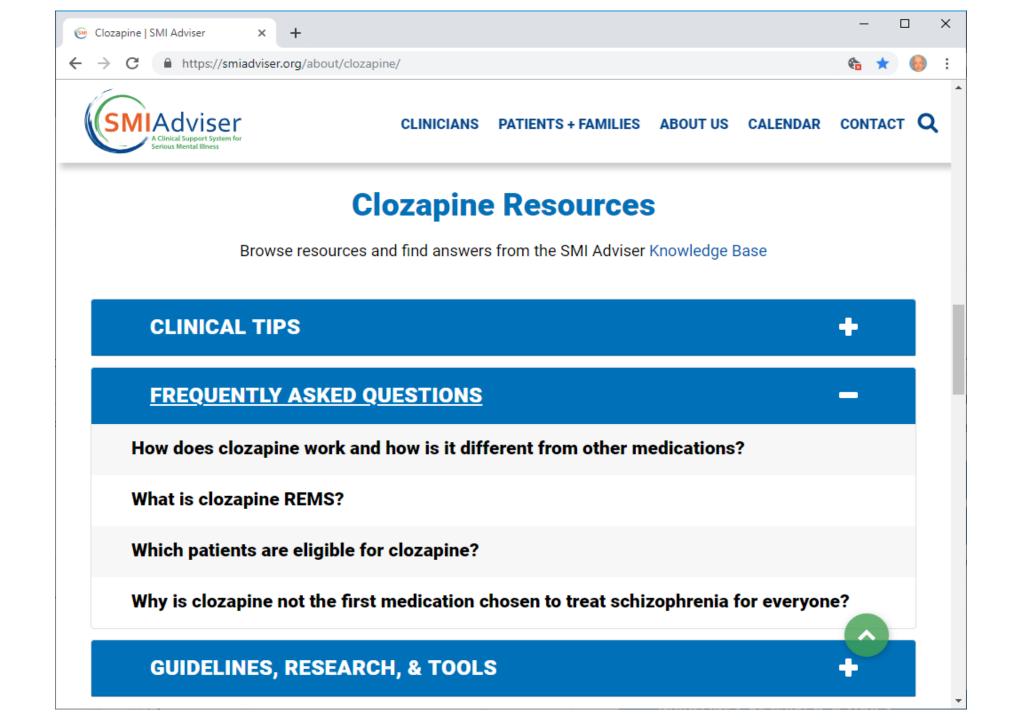
#### ANSWERS FOR INDIVIDUALS AND FAMILIES

Clicical Support System for Serious Merical illness		An APA and SAMHSA Initiative	1 Go to SMI2dviser org/knowledge_base_
FIND THE			
ANSWERS YOU NEED IN OUR	1	Allucia formet yours for a clinicians	
KNOWLEDGE BASE Search topics, find resources, and enhance what you know about SMI.		What are smoking cessation tools for those with schizophre Answered by: John Torous, MD, MBI, SMI Technology Expert - Harvard Medical School Date Answered: June 5, 2019 Tags: Apps, Bipolar, Depression, Research Studies, Schizophrenia, Self-management	enia? 2 Browse any subject area, ask a question, or search for a specific topic
		Is substance abuse common in people with schizophrenia?	
		Answered by: John Torous, MD, MBI, SMI Technology Expert - Harvard Medical School Date Answered: June 5, 2019 Tags: Bipolar, Depression, Schizophrenia	If marijuana is legal, is it ok for patients with serious mental illness to use it?
Knowledge Base (Families+Patients)		If manipung is legal is it of far nation to with sovieus ments	
Search		If marijuana is legal, is it ok for patients with serious menta Answered by: John Torous, MD, MBI, SMI Technology Expert - Harvard Medical School Date Answered: June 5, 2019 Tags: Bipolar, Clinical High Risk, First Break Psychosis, Schizophrenia, Substance Use Disorders	Although marijuana may be legal, it is increasingly recognized as dangerous for people with serious mental illness: including depression, bipolar disorder, schizoaffective disorder, and schizophrenia. While new research is constantly coming out, today there is strong data to suggest that those with SMI are at high risk for the negative effects of marijuana use including worsening of schizophrenia symptoms, worsening of mood, and even triggering of manic symptoms in bipolar disorder.
		What are available practice guidelines for substance abuse Answered by: John Toroits, MD, MBI, SMI Technology Expert - Harvard Medical School Date Answered: June 5, 2019 Tags: Guidelines, Practice, Psychopharmaeology, Risk Factors, Substance Use Disorders, Tobacco	Type: Knowledge Base Answered by: John Torous, MD, MBI, SMI Technology Expert - Harvard Medical School Date Answered: June 5, 2019 Topic: <u>Co-occurring Substance Use Disorders</u> , Tags: <u>Bipolar, Clinical High Risk, First Break Psychosis</u> , <u>Schizophrenia</u> , <u>Substance Use Disorders</u> ,
Clozapine as part of the treatment	Co-oc	Can effective peer support be provided for individuals with disorders? Answered by: Patrick Hendry, SMI Recovery and Peer-to-Peer Engagement Expert - Mental Health Ame	
	Are ther medical	Date Answered: June 5, 2019 Tags: Crisis Management, High Utilizers, Peer Engagement, Peer Navigators, Peer-led Interventions, Sel	
How does clozapine work and how is it different from other medications?	11000 000	the metical conditions and improve	
	their chron		
What are the issues regarding families and caregivers supporting clozapine treatment? What should be done if the clozapine treatment of a patient	<ul> <li>How carry their chror</li> </ul>	<ul> <li>Is substance abuse common in people with schizophrenia?</li> </ul>	
How does clozapine work and how is it different from other medications? What are the issues regarding families and caregivers supporting clozapine treatment? What should be done if the clozapine treatment of a patient is interrupted, or they do not take ther	<ul> <li>How can their chroit</li> </ul>	Suicide by Overdose and	
What are the issues regarding families and caregivers supporting clozapine treatment? What should be done if the clozapine treatment of a patient is interrupted, or they do not take their	<ul> <li>How carry their chron</li> </ul>	substance abuse common in people with schizophrenia?     what are the best ways of helping people with serious	

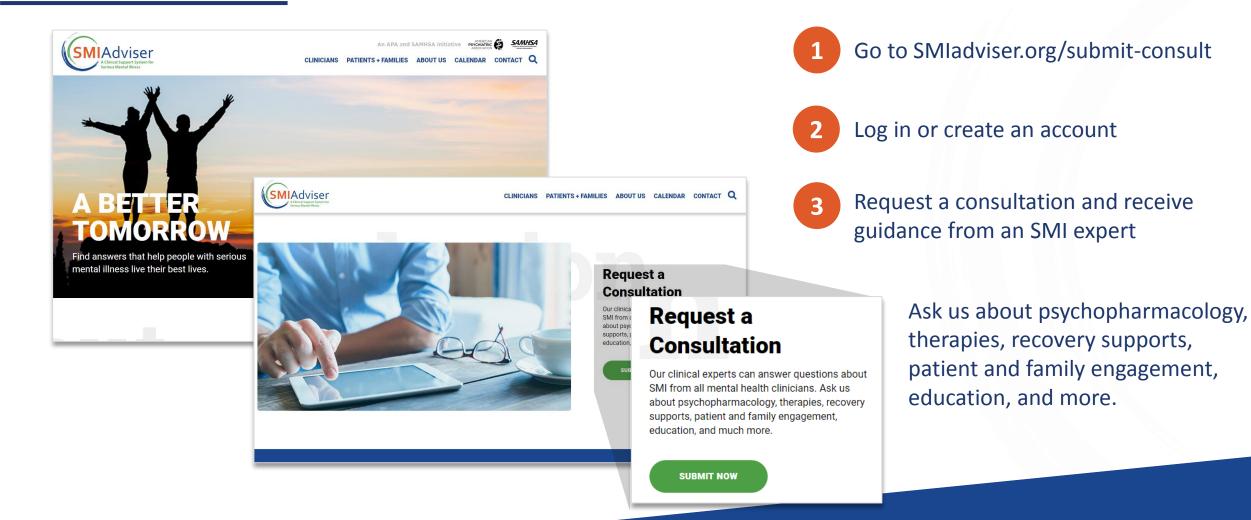








### **REQUEST A CONSULTATION RIGHT NOW**





#### REAL-TIME DATA FOR REAL-TIME DECISIONS



Title_activityId	Completed	Registered	Started	Total
Addressing Barriers to Clozapine Underutilization (6579 - Webinar)			4	4
Addressing Obesity in the Population with Schizophrenia (6446 - Webinar)	22	50	67	139
Addressing Obesity in the Population with Schizophrenia (6451 - On Demand)	4	2	9	15
Addressing the Public Health Epidemic of Premature Mortality in People with SMI: Evolving Roles for (6526 - Webinar)	9	2	78	89
Addressing the Public Health Epidemic of Premature Mortality in People with SMI: Evolving Roles for (6580 - On Demand)	6		6	12
Adherence to Antipsychotics in Schizophrenia: Clinical Considerations (6524 - Webinar)	14		44	58
Adherence to Antipsychotics in Schizophrenia: Clinical Considerations (6574 - On Demand)	5	1	11	17
Assessment and Prescribing in Correctional Settings (5940 - On Demand)	9	3	7	19
Cognitive Behavioral Therapy for Psychosis: Understanding the Basics (6455 - Webinar)	37	10	232	279
Cognitive Behavioral Therapy for Psychosis: Understanding the Basics (6493 - On Demand)	16	1	31	48
Evaluating Adverse Drug Effects (6172 - On Demand)	30	6	20	56
Fostering Organizational Change to Promote Uptake of Evidence- Based Practices: Lessons and Tools (6527 - Webinar)	10	1	71	82
Fostering Organizational Change to Promote Uptake of Evidence- Based Practices: Lessons and Tools (6581 - On Demand)	2			2
How Peer Support Complements Clinical Practices (6525 - Webinar)	18	5	54	77
How Peer Support Complements Clinical Practices (6575 - On Demand)	8		10	18
Identifying and Managing Cardiac Safety Risks of Psychotropic Drugs (5934 - On Demand)	68	12	47	127
Informed Decision Making for Picking SMI Smartphone Apps (6450 - On Demand)	2		5	7
Ketamine for Treatment-Resistant Depression (6039 - On Demand)	44	5	35	84
Total	428	141	1067	1636

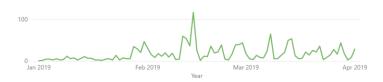
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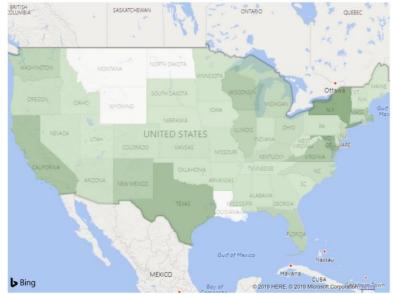


- Started

Activity Registration by Date

LMS Activity Data since January 1, 2019





#### Data as of 4/2/19 at 4:00AM



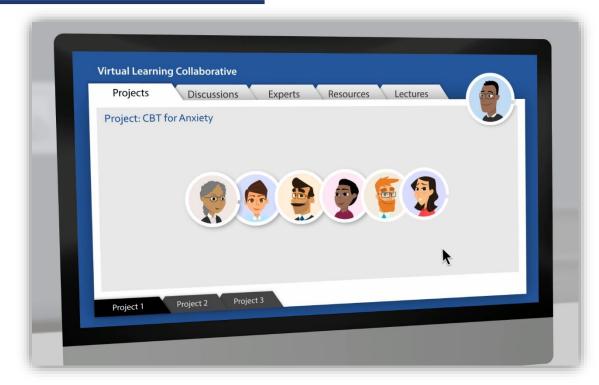


#### **Current Activities**

- Identify sites that want to start, expand, or improve their clozapine program
  - solo practitioners, clinics, agencies, hospitals, chronic care facilities
- Consultation and mentorship
- Learning Collaboratives will be starting
  - start or build a clozapine program
  - cohort of learners: physicians, nurses, medical directors
  - 12-week collaborative, 1 hour per week
  - tools, syllabus, collaboration
  - live sessions, office hours, activities



#### VIRTUAL LEARNING COLLABORATIVES



\* 1 •

12-week online courses led by faculty experts

Topics include clozapine, measurementbased care, mortality, telemental health



CME-accredited courses open to all clinicians

#### To learn more and sign-up to receive information on collaboratives, visit <u>http://SMIadviser.org/learning-collaboratives</u>

