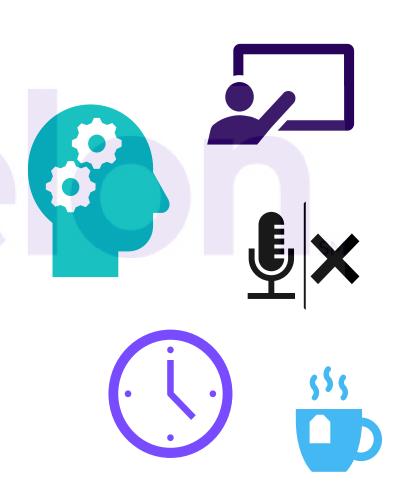




Welcome! We will begin at 3:02 EST

Training Logistics

- Training length: 1 hour
- Microphones are muted
- You may use the CHAT feature for questions or comments
- No CE Credit or Certification
- Attendees will receive a copy of the slide deck & link to view webinar recording via email within 24-hours





Agenda / Contents

Definitions, Prevalence, and Risk Factors	
Managing Chronic Disease and SMI	
Conclusion and Resources	SM



Learning Objectives

- Define Serious Mental Illness (SMI), Cardiovascular Disease (CVD), and Metabolic Disorders
- Explore prevalence and risk factors for CVD and Diabetes in SMI clients
- Discuss the value of screening protocols and coordinated care
- Apply skills to support clients in disease self-management and risk mitigation







Chapter 1 Definitions, Prevalence, & Risk Factors

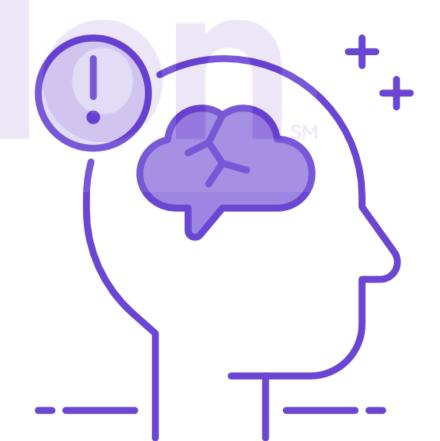
Defining Serious Mental Illness (SMI)

- Mental Illnesses effect a person's thinking, mood, and / or behavior
- Mental illness can range from mild severe impact
- **SMI** = mental illness that results in serious functional impairment, limits life activities

About 5-6% of U.S. adults live with a SMI.

- Examples of SMI include
 - Major Depressive Disorder
 - Bipolar Disorder
 - Schizophrenia

People with SMI die 10–20 years earlier than those without SMI.
Chronic conditions contribute substantially to the mortality gap.



Defining Cardiovascular Disease (CVD)

- CVD is an umbrella term for conditions effecting the heart or blood vessels.
- Various CVDs can lead to heart attack, stroke, and organ failure



Atherosclerosis	Plaque formation narrows or blocks arteries of heart and blood vessels supplying vital organs	
Cerebrovascular disease	Narrowing or blocking of blood vessels supplying blood and oxygen to and from the brain	
Peripheral arterial disease	Narrowing or blocking of blood vessels supplying blood and oxygen to / from the arms and legs	
Congenital heart disease	Malformed heart structure present at birth	
Deep vein thrombosis and pulmonary embolism	Blood clots that dislodge from veins in the leg and move to the heart or lungs	



Defining Metabolic Disorders

- Metabolism is the process your body uses to get or make energy from the food you eat.
- A metabolic disorder occurs when abnormal chemical reactions in your body disrupt this process.
- Metabolic disorders are diverse and can affect many aspects of bodily functioning.
- Common symptoms include:
 - tiredness
 - muscle weakness
 - unexpected weight gain or loss
 - changes in skin color
 - stomach pain
 - nausea or vomiting
 - reduced appetite
 - developmental problems in babies and infants

There are approximately 1,450 different metabolic disorders (ICD-10)





Diabetes

- Diabetes is a metabolic disorder related to trouble creating or using Insulin
- Insulin helps turn food into energy and control blood sugar levels

Types of Diabetes Type 1 Type 2 Gestational An autoimmune disease • Insulin resistance can lead Occurs during pregnancy to elevated blood sugars • Requires insulin to live Caused by a combination of genetic and environ- Many people that have • Not preventable, but some mental risk factors type 2 suffer from underlying research shows that avoiding exposure to viruses health problems Blood sugar typically can help reduce your risk returns to normal • Can be prevented by eating after birth • Regular vaccinations and healthy and staying active wellness visits are important verywell



Risk Factors

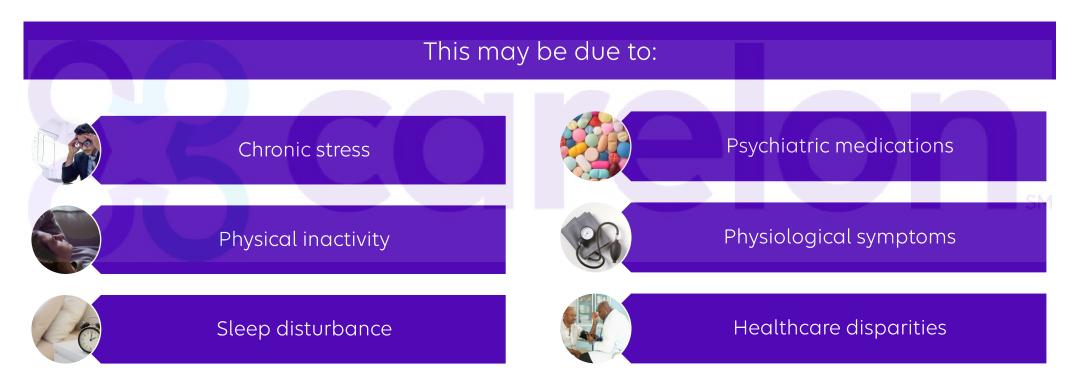
HAVING A CHRONIC HEALTH CONDITION CAN MAKE YOU MORE LIKELY TO HAVE A MENTAL HEALTH CONDITION





Risk Factors continued

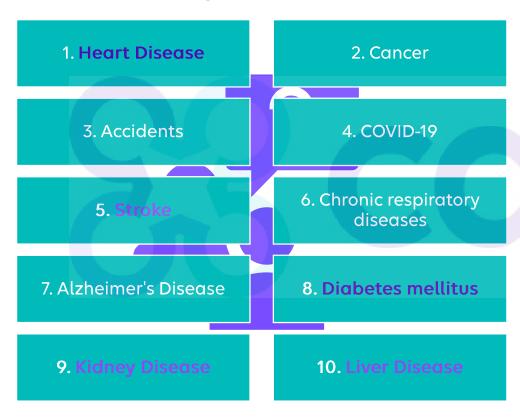
Having a SMI can increase risk of development or worsening of cardiac or metabolic disorders.





Statistical Considerations

2022 leading causes of death, U.S.



Data Source: National Center for Health Statistics (NCHS), National Vital Statistics System

Diabetes is 2-3x more common in people with SMI Those with SMI are at higher risk of Diabetic complications

People with
Major Depressive
Disorder have
twice the risk of
a cardiac event

People with severe Anxiety disorders are up to 3x more likely to die of heart disease





Chapter 2 Managing Chronic Disease and SMI

The Role of the Behavioral Health Provider

Co-existing behavioral health disorders and chronic medical conditions result in:

- Poorer overall health outcomes for clients
- Increased mortality rates
- Increased cost to clients and healthcare systems

Behavioral Health providers have a responsibility to:

- Be knowledgeable about the linkages between behavioral health disorders and chronic diseases
- Work collaboratively with a client's physical health provider
- Help clients manage risk factors
- Be aware of the physiological impacts of medications





Supporting Whole Health



Assessing Risk

Medication
Considerations

Coordinated Care







- People with SMI often lack consistent, high-quality healthcare
- Those with SMI should be screened for signs of cardiovascular and metabolic conditions
 - At intake
 - At standard intervals thereafter
 - Any time a psychiatric medication is started / change
- Allows identification, support, and referral of at-risk clients





Risk Assessment Questions

Assessing Risk

Your assessment should gather the following information:

- ✓ If the client is aware of their cardiovascular and metabolic risk factors
- ✓ If the client engages in behaviors known to increase risk and understands the potential health consequences
- ✓ If the client has been diagnosed with CVD, diabetes, high blood pressure, or high cholesterol
- ✓ How confident the client is of their capabilities to manage their health or risk factors.
- ✓ What would make the client feel more confident about their condition or ability to manage their risk factors
- ✓ If the client has a family history of CVD, cardiac events, diabetes, high blood pressure, or high cholesterol
- ✓ If the client has a current primary health provider and health insurance

Information pertinent to specific risk factors, such as:

- ✓ How often they exercise and what kind of exercise they enjoy
- ✓ What a typical weekly meal plan looks like for them
- ✓ If they smoke and, if so, how much tobacco they use in a day/week
- ✓ On a scale of 1-10, how stressful they would rate their job, home life, health situation, etc.



Screening for Symptoms

Assessing Risk

- Chest pain or tightness *
- Rapid or irregular heartbeats (palpitations)
- Shortness of breath with activity
- Shortness of breath with lying down
- Swelling in their legs
- Bad muscle pain or cramps in their legs with walking



*women are less likely to experience chest pain when having a heart attack – dizziness, nausea, and pressure in shoulder, neck and abdomen are more common

Metabolic

- Needing to urinate very often, especially at night
- Feeling thirsty regularly
- Feeling more tired than usual
- Losing weight without trying to
- Wounds that take longer than usual to heal
- Blurred vision



Coordinating Care is Key

Coordinated Care

Coordinated care involves deliberately organizing activities and sharing information among all participants involved with a client's care to achieve safer and more effective outcomes (Agency for Healthcare Research and Quality, 2018).

- Clients may work with a multitude of providers, each with a different focus
- Important to share information between providers, but true collaboration requires
 - Ongoing communication
 - Joint treatment planning





Video: The Value of Integrated / Coordinated Care







Coordinated Care: Battling Barriers



- Help clients develop strategies for keeping their own medical record
 - Medications
 - Diagnoses (medical & psychiatric)
 - Provider's names and contact information
 - Pertinent medical documentation
- Assist in setting medical appointments and overcoming attendance barriers
 - Identify transportation supports
 - Address appointment anxiety or ambivalence
 - Develop strategies for remembering and planning for appointments





Medication Interactions & Considerations

Medication Considerations

- Certain psychiatric medications can
 - Increase blood pressure
 - Cause weight gain
 - Have sedative effects
 - Cause metabolic changes in the body
- Substance use can alter effectiveness of both psychiatric and medical drugs
- Medication side-effects can cause or worsen poor health habits
 - Sedentary lifestyle
 - Smoking
 - Certain antipsychotics can increase cravings





Case Example: Ginny

Diagnosed with severe Bipolar 1, Hypertension, and Pre-Diabetes

Recently started a new antipsychotic medication causing sedation and weight gain



Her Primary Care Physician (PCP) recommends weight loss and exercise

Started smoking cigarettes again after quitting 10 years ago due to stress & low energy



How Can We Help Ginny?

- Ongoing treatment for Bipolar
- Ongoing screening for physical symptoms
- Self-management planning for her diabetes
- Careful monitoring of medication side-effects & interactions
- Help developing healthy eating habits
- Help building an exercise regimen
- Smoking cessation assistance
- Stress management

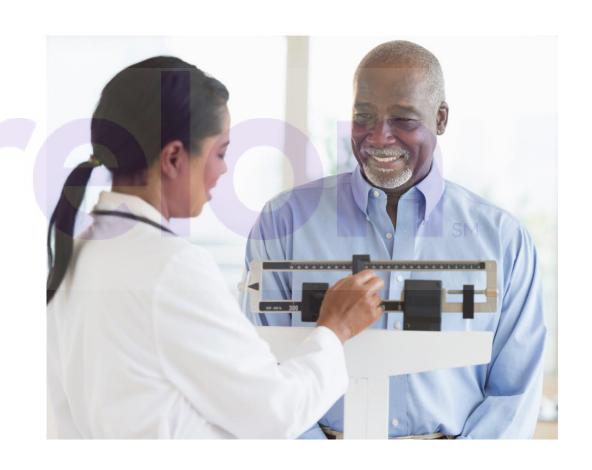


Modifiable Risk Factors

Lifestyle Change

Generally, research shows that people living with SMI...

- Often have unhealthy lifestyle behaviors including
 - physical inactivity
 - poor diet
- Tend to be heavier smokers than the general population
 - 44% of all cigarettes consumed in the United States are consumed by those with a mental illness
- Are more likely to have
 - High blood pressure
 - High Cholesterol
 - Pre-Diabetes





Tobacco Use

Lifestyle Change

Smoking is much more common in people with mental illnesses.

- Why?
 - Mood-changing effects that feel good in the short-term
 - High stress levels = more tobacco use
 - Anti-psychotic medications can increase cravings
 - Nicotine can ease some symptoms of Schizophrenia
- Negative effects
 - Tobacco can interfere with levels and effectiveness of medications
 - Damages blood vessels, blood cells
 - Increases blood pressure
 - Leads to worsening mental & physical health symptoms
- Benefits of quitting
 - Physical health improvements (blood pressure, lung function, etc)
 - 1-year smoke-free cuts risk of heart disease in half
 - Increased ability to engage in physical activity





- Higher prevalence of Substance Use Disorders (SUD) in those with SMI
- Risks of heavy drug / alcohol use in people with diabetes:
 - Increased insulin resistance
 - Increased risk of contracting HIV, Hep C, etc.
 - Liver damage
 - Worsening blood glucose control
- Risks of heavy drug / alcohol use in people with CVD*:
 - Increased risk of hemorrhages in brain
 - High blood pressure
 - Opioids and stimulants: disruptions in neurotransmitter balance in body and brain, leading to
 - Abnormal heart rhythms
 - Increased blood clotting
 - Increased arterial plaque formation

*Some studies suggest that *low-to-moderate* alcohol consumption may promote HDL proteins in the blood, which *positively* effects cardiovascular health

Low risk alcohol limits (National Institute on Alcoholism and Alcohol Abuse)

No more than 4 drinks a day most days No more than 14 drinks in any given week Women No more than 3 drinks a day most days No more than 7 drinks in any given week



Reducing Substance Use – Therapeutic Methods

Lifestyle Change

Motivational Interviewing

- Help clients find their own motivations to change
- Explore ambivalence
- Pros/cons of smoking, drinking, drug use
- Enhance "change talk"

Addiction therapy

- Identify triggers
- Build skills to manage stress and cravings
- Psychoeducation

Goal setting

- SMART goals (specific, measurable, attainable, relevant, time-based)
- Start small







Diet & Nutrition

Lifestyle Change

- Effects of poor diet / nutrition
 - Excess weight / obesity
 - High blood pressure, high cholesterol, hyperlipidemia, metabolic syndrome
 - Excess fat around waist directly effects heart structure and function

Methods to help improve eating habits

- Promote fresh vegetables and fruit, lean protein, whole grains, healthy fats
- Emphasize mind-body connection
- Motivational interviewing
- Exploring reasons for unhealthy eating habits (Stress? Access? Finances?)
- Goal setting, starting small
- Food diary / tracking app
- Mindful eating practices











Physical Activity

Lifestyle Change

Benefits of regular exercise

- Helps prevent unhealthy weight gain & encourage weight loss
- Reduces the risk of many chronic diseases, such as heart disease, cancer, and type 2 diabetes
- Helps reduce some symptoms of mental illness & improve sleep
- Barriers faced by people with chronic disease / SMI
 - Low energy / stamina
 - Chronic pain
 - Lack of access to gyms or safe spaces to exercise
 - Low motivation



Increasing Physical Activity

Lifestyle Change

Address barriers

Consult with medical providers for targeted exercise

Psychoeducation on importance of physical activity

Find an activity they enjoy

Start small, build the habit

Keep an exercise journal



- Motivational interviewing
- Cognitive therapy







- Common concerns among those with a chronic disease
 - Feeling powerless and out of control
 - Grief around loss of lifestyle, mobility, health, etc.
 - Worrying about their ability to manage their disease
 - Feeling scared about long-term health complications
 - Worry about decisions that need to made regarding their disease
- Common concerns among those with a SMI
 - Feeling powerless and out of control
 - Worrying about their ability to manage their condition
 - Feeling stigmatized or discriminated against

Stress negatively effects mental and physical health in many ways.



Support, Stress Relief, and Self-Care

- "Hold space" for your client
- Strengthen relationships and support system
- Build coping skills
 - Meditation
 - Journaling
 - Art
 - Music
 - Any activity healthy for mind / body
- Find new meaning in life following diagnosis
 - Fundraising
 - Advocacy
 - "Wake-up call"







Additional Tips for Behavior / Lifestyle Change

Lifestyle Change

Meet them where they are

- Consider stages of change
- The client must be ready, or they are unlikely to succeed

One thing at a time

- Prioritize / focus on one behavior at a time
- Try not to overwhelm client

Progress, not perfection

- Any positive change is good
- Improvement over cure





Chapter 3 Resources & Conclusion

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Resources

Mental Health America: Chronic Conditions and Mental Health Infographic

NAMI: Heart & Minds Program

CDC: Living Well With a Chronic Condition

NIH: Chronic Illness and Mental Health: Recognizing and Treating Depression

SAMHSA Advisory: Diabetes Care for Clients in Behavioral Health Treatment













Key Takeaways

- People living with SMI are at significantly higher risk for CVD,
 Diabetes, and more
- Unique risk factors interact with each other creating a negative cycle
- Behavioral health professionals are in a unique position to help
- Screening for risk and symptoms is key
- Coordinated / integrated care promotes better outcomes
- Awareness of medication interactions can save a life
- People with SMI are more likely to have unhealthy behaviors, so behavior modification efforts are vital









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