

Diabetes Self-Management from A to Z!



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Who we are

NYC not-for-profit

108 programs, 10,000 individuals, majority in Brooklyn: housing, case management, ACT, clinics, homeless shelters, health home, and PROS

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Center for Integrated Health Solutions

Founded Health Care Choices FQHC

In housing and case management:

>70% schizophrenia / schizoaffective

Primarily paraprofessional workforce



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Objectives

At the end of this discussion, participants will be able to:

- Describe the rationale for integrating treatment of diabetes into behavioral health care
- Identify the risks associated with diabetes and key components of effective diabetes self-management
- Understand steps an organization can take to develop, implement and evaluate a chronic disease self-management program



Creating a Diabetes Self-Management Program



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Felt need

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The Crisis

People with serious mental illness (SMI) die an average of 25 years earlier than those in the general population

60% of excess mortality is due to treatable and preventable medical conditions (eg, heart disease, stroke, diabetes)

25% of deaths are attributable to alcohol, tobacco, and illicit drug use, which also increase the risk of physical health conditions

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Lambert et al, 2003; Lutterman et al, 2003; www.integration.samhsa.gov

Diabetes

12% of the US population (39 million) have diabetes
4% are undiagnosed
Diabetes is the 7th leading cause of death
\$174 billion in medical costs and lost productivity
10% of health care dollars spent on diabetes

CDC 2009-12





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Poll: Diabetes Prevalence

What percentage of your program's participants have diabetes?

a. 0-10%
b. 10-20%
c. 20-30%
d. Over 30%

e. I'm not sure

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Diabetes in behavioral health

- People with serious mental illness are more than twice as likely to have diabetes
- People with diabetes are more than twice as likely to have depression, which complicates diabetes management



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Why are people with mental illness at greater risk?

- **Symptoms** of mental illness such as avolition and low energy lead to reduced physical activity
- Changes in appetite, medication side effects and income make it harder to maintain a healthy **diet**
- Substance use increases symptoms, worsens self care and has direct health effects
- Some medications e.g. antipsychotics increase risk of diabetes
- **Trauma** (adverse and highly stressful life events) are associated with health risks including diabetes
- People with mental illness rarely receive needed health care interventions



Cardiometabolic risk



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Metabolic monitoring for atypical antipsychotics

Measurement period

Table 1

Recommended screening guidelines and frequency for adults taking second-generation antipsychotics^a

	Measurement Method	Abnormal cutoff	Medsarement period					
Parameter ^b			Baseline	4 weeks	8 weeks	12 weeks	Every 3 months	Annually
Medical or family history Weight (BMI)	Interview Office	na >7% weight gain over baseline OR ≥25 kg/m²	\$ \$	~	1	1	1	1
Waist circumference	Office	Men: 40 inches; women: 35 inches	1					√
Blood pressure ^c	Office	≥140/90 mmHg	1			1		1
Nonfasting HBA1c or random plasma glucose ^{d,e}	Venipuncture	Diabetes, ≥6.5%; prediabetes, ≥5.7%; OR diabetes, ≥200 mg/dl; prediabetes, ≥140 mg/dl	1			1		1
Nonfasting TC and HDL $(non-HDL=TC-HDL)^{e,f}$	Venipuncture	Non-HDL, ≥220 mg/dl; OR 10-year risk, ≥7.5% ^g	1			1		1

Vanderlip et al, 2014

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Trauma: the ACEs study

Adverse Childhood Experiences (ACE) Study <u>Middle class</u> sample of >10,000 22% sexually abused as children 66% women experienced abuse, violence or family strife in childhood

Increased risk of mental illness, heart disease, liver disease, diabetes, early death

Felitti et al, 1998



Trauma and health behaviors

ACE's increased smoking, substance abuse, sexual promiscuity

Trauma affects:

• Sense of future and hope \rightarrow self care

● Ability to trust providers → use of services

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Why do people with mental illness have difficulty accessing care?

- The behavioral health workforce receives minimal training on physical health issues
- Physical health problems are often misidentified as mental health symptoms or intoxication
- Discrimination based upon mental illness, addictions, race and socioeconomic factors
- Fragmentation of the health care system with poor information sharing

Financing and regulatory issues



Program development

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Designing a best practice disease self-management program

The individual directs care provided by a multidisciplinary support team

Care is aligned with readiness for change

Wellness education gives people skills, problemsolving strategies and options for change

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Building the Team

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Stages of Change

Pre-Contemplation I don't think I have to change anything.

Contemplation I'm thinking of making a change.



Preparation I'm ready to change and I'm making an action plan to achieve my goal.

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Action

I'm working on my action plan.

Maintenance

I have achieved my goal and am keeping up the good work.

Recurrence

I took a step backwards but I can make a plan to get back on track.

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www.motivationalinterviewing.org www.integration.samhsa.gov

Motivational interviewing basics:

Open Questions Affirmations Reflective Listening Summarization





Expressing Empathy Developing Discrepancies Rolling with Resistance Self-Efficacy

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Feedback regarding health behaviors, strengths and needs (e.g., reviewing Diabetes Skills Scale.

- **Responsibility** for change lies with the consumer, who has the right to make choices.
- Advice about making healthy choices is given in a nonjudgmental manner.
- Menu of options for action steps towards change are offered and explored.
- Empathic Counseling using warmth, respect and understanding.
- **Self-Efficacy** and optimism are fostered to promote change.

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www.integration

Wellness education tools ICL's Diabetes Self-Management Workbook Knowing diabetes – ABCDEF's Caring for your mental health **Choosing Healthy Foods Being Physically Active Taking Care of Feet Taking Medication Checking Blood Glucose** Having a Sick Day Plan **Quitting Smoking Taking Care of Teeth**

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What is Diabetes?

Diabetes is a disease where the body has difficulty keeping **blood glucose** (sugar) in check.

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The body uses insulin to keep blood glucose in check.

A problem arises when:

 the body is not producing insulin (type 1 diabetes)

the body is having trouble using the insulin, and can't produce enough insulin to make up for it (type 2 diabetes)

High blood glucose can hurt your body!



Why is diabetes important?

BAD NEWS: diabetes can cause a lot of <u>complications</u>:

- Heart attacks
- Strokes ("brain attacks")
- Kidney failure (needing dialysis)
- Blindness
- Foot infections, in the worst case leading to amputation

GOOD NEWS: if you take care of your health, you can PREVENT these complications!



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The Diabetes ABCDEF's



A - A1c

- Shows how well you have controlled your blood glucose in the last 2 to 3 months
- High blood glucose levels can hurt your heart, brain, kidneys, eyes and feet!
- The target A1c is less than 7



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B – Blood Pressure



- If you have high blood pressure, it is harder to get blood through your blood vessels to your heart and brain
- If your heart or brain does not get enough blood, then you can have a heart attack or stroke
- The target BP is **below 130/85**





C – Cholesterol



LDL ("lousy") cholesterol can **coat blood vessels** with a fatty crust, causing high blood pressure The target LDL is **less than 100**



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If your kidneys are damaged and become "leaky," **protein leaks out** from your blood into your urine A urine test shows if protein is leaking. Blood tests can also show how well the kidneys are working



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E – Eye exam



Diabetes can damage your vision, but sometimes if you catch a problem **early on, it can be fixed**

Get your eyes checked by an eye doctor (ophthalmologist or optometrist) once a year!





F - Foot exam



Diabetes can damage the nerves and blood vessels in your feet, leading to **injuries and infection** Look for redness, sores, calluses or injuries every day Get feet checked every 3 months!



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Healthy Foods: Myth and FACT!



MYTH

I have to eat special diabetic foods

I can't eat sweets like candy or chocolate

I can keep my blood glucose low by skipping meals

FACT!

I can eat the same kinds
 of food as other people
 I can eat sweets as part

I can eat sweets as part of a healthy meal plan

Skipping meals can make your glucose TOO LOW! Instead, eat a healthy breakfast, lunch, supper and bedtime snack to keep your glucose on target!



Healthy Foods: Your Choices When to eat: \rightarrow Eat meals at regular times Vegetables What to eat: \rightarrow Eat food from all food groups Fruits How much to eat: \rightarrow Eat healthful-sized portions \rightarrow Eat about the same amount of carbohydrates ("carbs") at each meal

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Protein

Grains.

Beans and

Starches

Oil

Dairy

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What is a "carb"?

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Anything that grows from the ground

Examples:

- Fruit, Juice
- Vegetables, Beans, Corn
- Rice, Wheat, Barley, Potatoes
- Foods made with Flour or Sugar (cereal, pasta, bread, desserts)

EXCEPTIONS:

- Milk and yogurt ARE carbs
- Nuts and vegetable oils are fats, NOT carbs

100% of carbs are turned into glucose → Eating the same amount of carbs every day keeps your blood glucose on target!



Healthy foods- my choices







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Spirituality and integrated care

What are your beliefs around self care?
Idea of the body as a temple or gift
Stewardship
Does your spiritual community offer support around wellness and health care?



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Action Steps



Achievable mini-steps toward goals to develop momentum and success

- "I will drink water instead of a soda once a day."
- "I will walk for 10 minutes every day."



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Weighing the options

What changes have you thought of making? What might you have to give up to make this change?

What might you gain by making this change? How will your life be different if you make this change?

 \rightarrow Is it worth it?





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Are you ready?

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Action Step Planning

- I will take the following step:
- I will do this action step by:



- Who will help me to do this action step?
- What mini-steps will I take to do this action step?
- When will I take the first mini-step?
- Where will I take the first mini-step?
- How will I remind myself to do this action step?
- Why do I want to do this?
- If I succeed, my reward will be:



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Action Step Review

I achieved my goal!

- I will reward myself with:
- I succeeded because:
 - I committed myself to doing my action step
 - I reminded myself to do the action step
 - I focused on taking mini-steps
 - I had help from:

I did not achieve my goal because: But that is no reason to give up! I can:

- Make a new action step
- Problem-solve with someone who can help me
- Give myself a mini-reward for what I did achieve
- Remind myself of the reasons why I want to take this action step

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Pilot implementation and outcomes evaluation

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Poll: What kinds of outcomes does your agency track (using a database)?

- a. Mental health measures (rating scales)
- b. Physical health measures
- c. Inpatient and emergency department utilization
- d. More than one of the above
- e. We just track the cashflow



Diabetes Co-morbidity Initiative

In partnership with Urban Institute for Behavioral Health; supported by NYS Health Foundation

Phase I: planning

Phase II: 10 programs in 7 agencies

Phase III: 22 programs in 8 agencies

Expansion: 22 programs in 11 agencies, some outside metro NYC

324 staff trained

358 individuals enrolled (Sept 2010)

28 groups

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Diabetes <u>ABCDEF's</u>

A1c	Every 3-6 months				
Blood Pressure	Every 3 months				
C holesterol					
Ki <mark>D</mark> neys	Every year				
E ye Exam					
Foot exam	Every 3 months				

Stages of Change:

Pre-Contemplation I don't think I have to change anything.

Contemplation I'm thinking of making a change.

Preparation I'm ready to change and I'm making an ac-tion plan to achieve my goal.

Action I'm working on my action plan.

Maintenance I have achieved my goal and am keeping up the good work.

Recurrence I took a step backwards but I can make a plan to get back on track.

Motivational Interviewing Basics:

Feedback regarding health behaviors, given by reviewing Diabetes Skills Scale.

Responsibility for change lies with the con-sumer, who has the right to make choices.

Advice about making healthy choices is given in a non-judgmental manner.

Menu of options for action steps towards change are offered and explored.

Empathic Counseling using warmth, respect and understanding.

Self-Efficacy and optimism are fostered to promote change.

Use Open Questions, Affirmations, Reflective Listening and Summarization.

And don't forget to Develop Discrepan-cies and Roll with Resistance!

R.O.P.E.S. Group Format

Review previous lesson, action steps, experiences and feelings on todav's topic

Overview of the material for today

Presentation utilizes workbook

Exercise utilizes action steps

<u>Summary</u> of lesson, thoughts and feelings. Specific feedback to group

Web Links:

American Diabetes Association www.diabetes.org

Joslin Diabetes Center www.joslin.org

National Diabetes Education Program www.ndep.nih.gov

NYC Dept. of Health www.nyc.gov

Tips on Collaborating:

- Keep a directory of helpful primary care providers (PCP) in the neighborhood.
- Inform PCP of any consumer health and mental health changes such as hospitalizations, detox/rehab, medication and diagnoses.

Encourage consumers to inform PCP of any new symptoms that may be related to diabetes, e.g. weight changes, blurred vision.

- Use consumers' supports: Offer DCI materials that consumers can take home to family and friends and invite them to get involved.
- Work or school program? Consumers may need collaboration on arranging breaks for snacks, monitoring glucose or taking insulin.
- ICM's, ACT Teams and Home Care Attendants are important supports and should be aware of DCI.
- Remember to track client's health info in charts.

Demographics

57.5% male

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Diabetes Skills Scale

Significant self-reported improvements on all items in phase II/III, except "I take my meds as prescribed" which worsened

For phase II/III/expansion analysis, only the following items improved significantly*:

- I choose healthy foods
- I check my feet every day
- I have effective ways of managing stress

*n=165, p<.01



Diabetes ABCDEF's: Percent reporting all 6 test dates



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A1c results



Phase II/III data. Results not significant when expansion data added, possibly d/t lower baseline A1c





ER and Hospital Utilization

Significant decrease in number of ER visits and inpatient stays found on preliminary analysis of phase II/III data Significance lost when additional phase III and expansion consumers added



Success Story

B. lost 32 pounds and her A1c level dropped from 12 to 7 with participation in DCI

- "I joined the group because I needed to know more about my illness. Most helpful is that I learned that mental health and health are connected."
- "The workbook and the groups helped me to make changes in my life – I started to take care of my feet – I did not know I needed to see the podiatrist.
- "I had an infection on my foot. Before didn't know I needed to get it checked out, that I could walk around with it and that it would heal by itself. After that section, I went directly to the foot doctor. I caught it just in time because of the information from the workbook."



Take Home Points



- The people we serve in behavioral health agencies are at risk for diabetes, and almost a quarter already have it
- We can help people to understand diabetes selfmanagement by teaching simple concepts like the ABCDEFs, with attention to the individual's goals, values, culture and spiritual beliefs
- Materials that build in motivational interviewing can support our staff in providing self-management education
- Tracking outcomes from the outset supports change





Please feel free to contact us at HealthyLiving@ICLinc.org

Thank you!



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Poll: Progress

At this point in the Innovation Community: What best describes your progress in developing a CDSM approach?

A.We've made more progress than we anticipatedB.We've made significant progressC.We've made some progress and expect to continueD.We've made little progress

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Poll: Willingness to share

For programs that have made significant progress (A or B), please indicate your willingness to share what you have accomplished and lessons learned as part of a future webinar

- A. We're willing and able to share ideas that will be helpful to others
- B. We're willing and able but not sure we have ideas that would be helpful to others.
- C. Would like to discuss with Tony further before we make a decision

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Let's Chat

For organizations that haven't made as much progress as you wanted/ expected: Please type in the most important barrier/challenge that you have encountered



Poll: Self-assessment guide

How helpful was the self-assessment guide as a planning tool?

- A. Very helpful
- B. Helpful
- C. Neutral
- D. Not that helpful

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Let's Chat

We now have 4 months left in this learning community. What would be most helpful to you in supporting your efforts to implement CDSM approaches?

For example:

- small group call with other Innovation Community members
- Individual consultation call with Tony
- Webinar on a particular topic
- Other



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Upcoming Webinars

June 25, 2015 July 30, 2015 August 20, 2015

All webinars are from 2:00 – 3:30 PM ET

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