Chronic Disease and Oral Health Integration

June 27, 2019



Introductions

- Holly Kingsbury, MPH
 Colorado Community Health Network (CCHN)
- Carol Niforatos, DDS
 Colorado Coalition for the Homeless (CCH)
- Amanda Ozee, MPH
 Colorado Department of Public Health and Environment (CDPHE)
- Carol Rykiel, RDH, MS
 Colorado Coalition for the Homeless (CCH)







Project Partnership

Acknowledgments

This project is supported by Grant 6 NU58DP006470 from the Centers for Disease Control and Prevention (CDC). Its contents are solely the responsibility of the presenters and do not necessarily represent the official views of CDC.



Colorado Context

- Same day billing for medical, dental, and behavioral health - FQHCs can bill three encounters on one day
- Registered dental hygienists are billable providers and have an extensive scope of practice
 - Interim Therapeutic Restorations (ITR)
 - Silver Diamine Fluoride (SDF)
 - Dental hygiene diagnosis
- Adult Medicaid dental benefit \$1,500 annual cap
- Diabetes point-of-care HbA1c testing in the dental clinic is reimbursable by Medicaid (D0411)

Why chronic disease and oral health integration?

- Oral health impacts:
 - Quality of life
 - Nutrition
 - Education
 - Employment
 - Mental health
 - Chronic disease
 - Pregnancy
 - Overall health
- Dental caries is the #1 chronic disease of childhood and it is almost entirely preventable

Why oral health?

Chronic Disease and Oral Health

- Oral health can influence diabetes control and vice versa¹
- Colorado adults with diabetes were 3x more likely to have lost all their teeth compared to people without diabetes
- Patients with healthier gums have lower blood pressure and may respond better to blood pressure lowering medications than patients with gum disease²

- (1) Preshaw, P., Alba, A., Herrera, D., Jepsen, S., Konstantinidis, A., Makrilakis, K., & Taylor, R. (2012). Periodontitis and Diabetes: a two-way relationship. Diabetologia, (55), 21-31. doi:10.1007/s00125-011-2342-y
- (2) Pietropaoli, et. al. (2018). Poor oral health and blood pressure control among US hypertensive adults results from the National Health and Nutrition Examination Survey 2009 to 2014. Hypertension. Doi: 10.1161/HYPERTENSIONAHA.118.11528

- 33% report that their mouth and teeth are in fair or poor condition; this is the case for 50% of low income Coloradans
- 32% say their life is less satisfying due to condition of mouth and teeth
- 19% of low income Coloradans say the appearance of their mouth and teeth affects their ability to interview for a job
- 25% of adults avoid smiling due to the condition of their mouth and teeth

Colorado Snapshot

Data source: ADA Health Policy Institute, 2015

https://www.ada.org/~/media/A DA/Science%20and%20Resea rch/HPI/OralHealthWell-Being-StateFacts/Colorado-Oral-Health-Well-Being.pdf

Integration along a spectrum

Medical clinic

Ask pts w/ (pre) diabetes if they have a dental home Provide
education on
oral healthdiabetes links
& oral
hygiene
instruction

Refer pts w/ (pre) diabetes to a dental home Conduct oral health assessment for pts w/ (pre)diabetes Integrate dental hygienist to focus on pts w/ chronic conditions

Refer patients to diabetes education programs (internal or external)

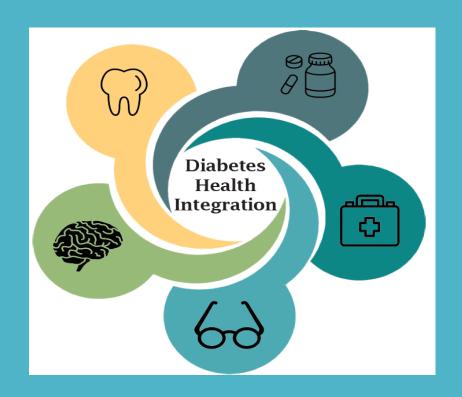
Dental clinic

Ask pts w/ (pre) diabetes about medical home Provide education on oral healthdiabetes links

Refer pts w/ (pre) diabetes to a medical home Conduct risk assessment for (pre)diabetes Conduct point of care A1c screening

Close the loop on referrals

Diabetes-Oral Health Integration Project (DOHI)



Colorado Coalition for the Homeless

- Mission: Create lasting solutions to homelessness
- Advocate for, and provide a continuum of, housing and services to improve the health, well-being, and stability of those it serves
- Comprehensive approach addresses the causes of homelessness as well as the consequences, offering critical assistance to over 15,000 individuals and families each year
- Quality assurance and quality improvement are part of CCH values and philosophy



Why this project?

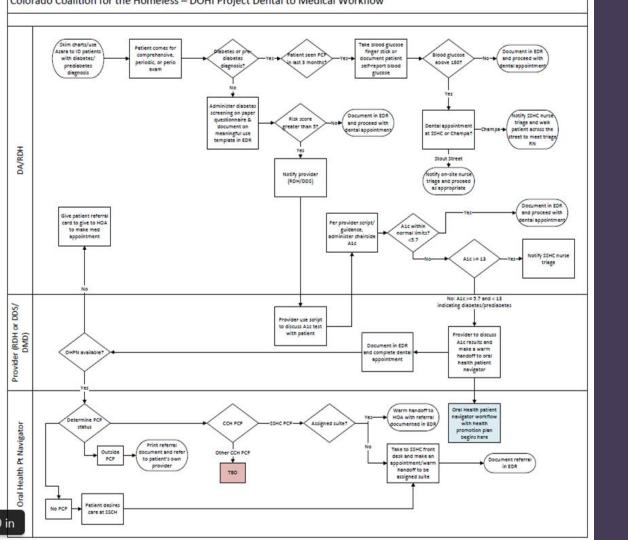
- Alignment with CCH clinical quality priorities
- Opportunity to connect dental patients with a medical home
- Benefits of an integrated health system

Implementation at the Coalition

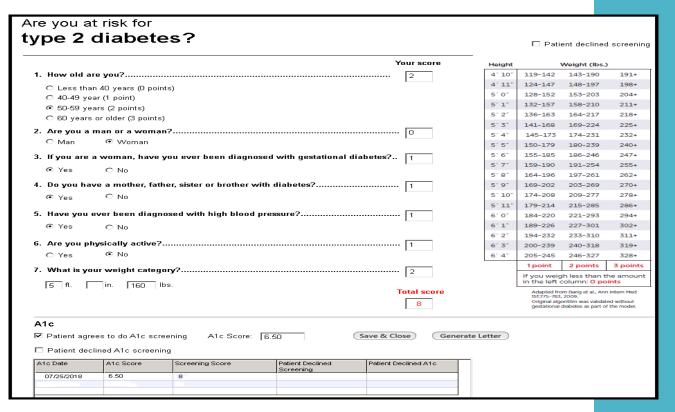
- Screening in dental clinic using American Diabetes Association (ADA) guidelines
 - Diabetes and prediabetes risk assessment questionnaire
 - Point-of-care HbA1c test (DO411)
- Bidirectional Referrals
 - Dental to medical and medical to dental
 - Evidence-based diabetes prevention and management programs
- CCH Diabetes Education Group
 - National Diabetes Prevention Program (NDPP)
 - Diabetes-Self Management Education (DSME)

Changes to Support Implementation

- Health Information Technology
 - EHR: NextGen
 - EDR: QSI
 - AZARA population health
 - Health Promotion Plan
- Workflows
 - Assessment, screening for (pre)diabetes, and referral from dental to medical
 - (Pre)diabetes diagnosis and referral from medical to dental
- Diabetes/prediabetes education curriculum
 - American Association of Diabetes Educators training

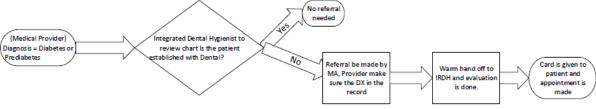


Dental to Medical Workflow

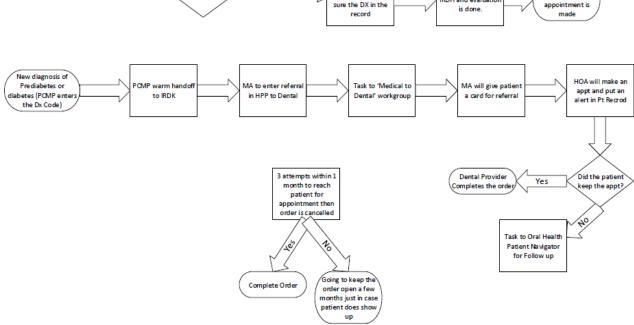


Digital Diabetes Risk Assessment Questionnaire

Medical to Dental Workflow



Medical to Dental Workflow



Data collection and reporting

- Ability to create and modify reports
- Monthly data collection
- Refining metrics
- Data:
 - Risk assessment questionnaires administered
 - Point-of-care A1c tests administered
 - Point-of-care A1c test results
 - Medical to dental referrals
 - Dental to medical referrals

DOHI Project Measures February 2018 – May 2019	
Category	Total
Questionnaires Given	1056
POC A1c Administered	266
A1c < 5.7	155
A1c ≥ 5.7	112

Lessons Learned: Compliance and Logistics

- CLIA waivers may be needed to do point-of-care (POC) A1c testing; waiver is test- and site-specific
- Patient consent process for POC test
- Documented policies and procedures for risk assessment,
 POC test, referrals, and follow-up
- Coordinating with billing department to ensure needed documentation is complete for D0411 and how this test will be handled for sliding fee scale patients
- State scope of practice considerations for utilizing POC test
- Staff compliance and training

Project Successes

- Oral Health Patient Navigator
- Staff training
 - Smiles for Life for primary care providers and oral health staff
 - American Diabetes Educational Association Levels I,II, III, and Manager Level certifications
- Reimbursement for POC test D0411
- Selection of improved POC A1c device



Project Challenges

- Supporting an at-risk homeless population with few resources
- Coordinating Dental and Medical staff to attend meetings
- Maintaining buy-in from clinical staff to keep meeting schedules and prioritize project
- Loss of DOHI Nurse Lead with no replacement nurse due to staff shortage
- Difficulty identifying options for (pre)diabetes education and time spent managing staff training
- Errors in screening results with initially-selected A1c device
- Maintaining focus and shared understanding with new CCH leadership

Next Steps - DCVDOHI

 Diabetes-Cardiovascular Disease Oral Health Integration

- Expand existing workflow to include screening for hypertension
- Adjust referral criteria to build on existing practice of taking blood pressure at each appointment
- Expand Core Team to include on-call nurse and others TBD
- Utilize DCVDOHI toolkit developed with lessons learned from DOHI

Patient Story

Reggie Watkins



Q&A

- Is this something you have considered, or would consider, for your Community Health Center?
- What would you need to move forward?
- Other questions?

Contact us!

- Carol Niforatos: cniforatos@coloradocoalition.org
 http://www.coloradocoalition.org
- Carol Rykiel: <u>crykiel@coloradocoalition.org</u>
- Amanda Ozee: <u>amanda.ozee@state.co.us</u>
- Holly Kingsbury: holly@cchn.org



Resources

Integration Tools

- CCHN Oral Health Integration Manual
- Organized, Evidence-Based Care: Oral Health Integration
- THE MOUTH: The Missing Piece to Overall Wellness and Lower Medical Costs
- Working Together to Manage Diabetes
- ADA Risk Assessment
- American Association of Diabetes Educators
- Smiles for Life Oral Health
- American Dental Association Guide to HbA1c Point of Care Testing and Reporting

Practice Transformation

- Oral Health Disparities Collaborative Implementation Manual
- The Primary Care Team Guide
- The 10 Building Blocks of Primary Care
- Institute for Healthcare Improvement (IHI) Quality Improvement Resources
- Safety Net Medical Home Initiative Resources & Tools