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Maintaining Oral Health in the Era of COVID-19

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Maintaining Oral Health in the Era of COVID-19 -

Milton Family Practice

Kelly MacPherson & Sameer Alidina

Family Medicine Clerkship July-August 2020

Project Mentors: Kimberly Sikule, MD, David Swift, MD & Holly VanWinkle





2. Problem Identification and Description of Need

- Poor oral health is linked with several health complications such as Chronic Obstructive Pulmonary Disease, endocarditis, and bacteremia (1).
- 20% of low-income adults in Vermont claim their oral health is in poor condition (2).
- Although tooth loss has decreased nationally, tooth loss among adults in Vermont has stayed constant at 45% (3).

• Among adults who did not visit the dentist in the past year, 47% reported fair or poor health (3).



3. Public Health Cost and Unique Cost Considerations in Host Community

- Medicare does not cover most dental care or supplies such as cleanings, fillings, tooth extractions or other dental procedures (4).
- While only 14% of Vermont health care expenses are paid out of pocket, 60% of dental care expenses are paid out of pocket (5).
- Medicaid provides dental programs, however few Vermont dentists accept new medicaid patients, resulting in only 29% of medicaid eligible adults make use of its dental program (5).



4. Community Perspective on Barriers and Future Efforts

• Interview questions:

- How do you believe oral health (prevention, maintenance) has been impacted at Milton Family Practice since the start of the pandemic?
- What are your thoughts on current and potential solutions to address oral health maintenance? Especially given there is likely going to be second wave of increased COVID cases (with potential shutdowns, patient cancellations, strictly telehealth visits, etc.) in the coming months?



4a. Community Perspective on Barriers and Future Efforts

- Kelly Brooks, MD
 - "Like many aspects of preventative care, I think oral health care has fallen lower on the priority list in the setting of the pandemic—This is likely for many reasons: patients nervous to or unable to access care with dental office closures, or due to loss of dental insurance (employment changes/job losses, etc.).
 - Being even more mindful of, and helping patients navigate access to dental care with the medical home: Perhaps hosting dental care providers within primary care offices to provide education, etc.?
 - Finding ways to offer fluoride treatment and education regarding the importance of prevention with regular flossing and proper brushing techniques, limiting sugary drinks/sodas."
- Kimberly Sikule, MD
 - "Less people coming into the office, cannot evaluate it [oral health] and not able to do fluoride varnish, which I think is a great preventative tool especially for those people who do not have dental access. When the pandemic started, dental offices closed and people have not had their maintenance exams. It will be interesting to see the costs over the next 1-5 years...
 - Handing out toothbrushes and paste/floss to people that do not have access, teaching home fluoride varnish to parents, and doing mouth exams on people that come into the office to access their risk. And escalate those that may need cleanings sooner."



4b. Community Perspective on Barriers and Future Efforts David Swift, MD

- "Has definitely been affected with many patients unable to see their dentist. Milton has a high percentage of patients struggling with financial insecurity and poor dentition so we have seen a rise in oral health challenges. Specifically, lots of infected teeth treated with antibiotics by us during the pandemic vs extraction with dentist (regular care non pandemic times). Also lots of potential use for fluoride varnish for kids that are not able to get in for fluoride treatments at their dental home. In Milton, our dental care in office is limited so we have seen an uptick in tasks we are being asked to manage that might normally be done by a dentist but the impact on our typical day is fairly limited."
- "Dental care will remain a challenge with ongoing pandemic due to the inherent risk of working around an airway with pandemic. I think many local dentist offices are trying to use PPE appropriately to minimize risk. From a primary care perspective, we can be more proactive with fluoride varnish for kids in the appropriate age range, can ensure we have access for patients with acute dental needs- infections, etc. Part of our role can also be emphasizing appropriate access with dental providers as able- patient with non-emergent conditions may need to pause care to maintain access for more acute issues."
- Melisa Gibson, MD
 - "Oral health has definitely suffered. Dentists were some of the first places to close and last to open up. Definitely seeing patients with worse dental disease d/t delayed care from the pandemic. I personally sent several patients to the emergency department for abscesses from decayed tooth. One gentleman had to get IV abx and be admitted due to his disease. Dental saw him and eventually pulled the tooth in the OR
 - One thing is to encourage good dental hygiene at home. Brushing BID, flossing, potentially mouthwash. We can
 also provide antibiotics if patients seem to be having dental infections to try and keep infection at bay until they
 can be seen by a dentist. My hope is that even with a second wave, we can get patients in for urgent dental care
 (which was not the case early in the pandemic, when many dental offices closed even for emergencies)."



5. Intervention and Methodology

- Modernize outdated oral health handouts previously utilized by practice with updated information to be provided to all staff members, as well as patient resources.
- Distribute handouts to staff via email and hard copy forms.
- Provide online training resource through Smiles for Life coursework.
- Create a dot phrase for after-visit summaries for patients.



6. Results/Response

- The below handouts were distributed to Milton Family Practice staff via mailboxes and email blast and were positively received as a useful resource.
- The link to the Smiles for Life website (http://smilesforlifeoralhealth.org/) was provided via email, with specific reference to Course 6: Caries Risk Assessment, Fluoride Varnish & Counseling. This was positively received as a useful resource.
- A dot phrase for after-visit summaries named "oralhealth2020" was created for provider notes and was positively received as a useful resource.



7. Evaluation of Effectiveness and Limitations

• Evaluation of Effectiveness:

- Assessment of effectiveness would be measured by usage of training materials by staff, as well as distribution of patient resources by clinical providers.
- Future follow up visits could include patient inquiry regarding resource utilization and any impact on their oral health practices.
- Limitations
 - Unpredictable environmental pandemic circumstances may further negatively impact patient access to Family Medicine and oral healthcare.
 - Cost of added dental visits may be prohibitive for those with lower socioeconomic status, as well as patients who became unexpectedly unemployed during the pandemic.



8. Recommendations for Future Interventions

- Specific to COVID-19 and pandemic preparedness, handing out dental supplies (toothpaste, toothbrushes, floss) to those who do not have access ahead of a potential second surge could be beneficial. This could also be utilized during regular maintenance follow up.
- Pop-up fluoride varnish sites in rural or low-resource settings.
- Provide patient and caregiver education for at-home fluoride varnish application.

• Assess high-risk patients for time-sensitive oral health needs and refer to a dental provider as soon as possible.



9. References

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- (4) Dental Services. Medicare. <u>https://www.medicare.gov/coverage/dental-services#:~:text=Medicare%20doesn't%20cover%20most,plates%2C%20or%20other%20dental%20devices.&text=Some%20Medicare%20Advantage%20Plans%20(Part,vision%2C%20hearing%2C%20or%20dental.
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10. Interview Consent Form







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