CMDA CMDE 2015
Dental Abstracts and Objectives

SPEAKER, TOPIC, ABSTRACTS AND OBJECTIVES

Alvarez, Salvador
Update on Infectious Diseases (Dental Track)
AGD Subject Code 148 / Verification Code 01
General review of infectious diseases that can be encountered in a dental practice including HBV, HCV, HIV, TB, JC, and oral manifestations of systemic infections. We will also review the updated recommendations from the AHA for prevention of infective endocarditis.
• Recognize opportunistic infections in the mouth in patients with HIV.
• Summarize the new recommendations of the AHA for prevention of IE
• Identify recent changes in the epidemiology of TB, HBV, and HCV infections

Amstutz, Jeff
Advanced Dental Training: a model toward vision and sustainability Part 1 and Part 2
AGD Subject Code 770 / Verification Code 02
This two part presentation will examine the need and opportunity for advanced dental training in both the US and internationally. It will examine current educational opportunities as well as steps underway to help create a dental residency program model to help meet the needs of underserved populations. This session will be interactive and explore ideas for furthering our work through dental training.
• Define the dental need as well as various types of organizations attempting to address the need.
• Examine opportunities for advanced dental training as a means for preparing the next generation.
• Discuss potential avenues for impacting the next generation of dental leaders in various geographic locations/settings.

Davis, James
Implant Complications
AGD Subject Code 690 / Verification Code 03
Although dental implants are predictable and have a high rate of success, there are complications that can arise. This course will review cases of implant complications and discuss how to avoid them
• Discuss biological causes of implant failure
• Describe the surgical and treatment planning errors that result in less than ideal results.
• Discuss the etiology of implant failure
• Plan strategies to prevent implant failure

Immediate Placement and Restoration of a Single Tooth Implant
AGD Subject Code 690 / Verification Code 04
The case selection, indications, and case selection for immediate implant placement with an immediate restoration in the esthetic zone will be covered. The techniques for immediate placement/restoration along with the advantages of this approach over a staged approach to implant treatment will also be reviewed.
• Discuss when immediate implants should be considered and the advantages and disadvantages of immediate placement.
• Describe the technique to make an immediate restoration successful

The Effects of Oral Disease on Systemic Health
AGD Subject Code 730 / Verification Code 05
There is an increasing awareness of the detrimental effects of periodontal disease on overall health. The relationship of oral disease and heart disease, diabetes and pregnancy will be discussed.

- Discuss how oral disease affects the overall health of a patient.
- Discuss how prevention and treatment of periodontal can benefit an individual's health.

Frazier, Kevin

Update on Oral Home Care Products
AGD Subject Code 730 / Verification Code 06
Choosing from among the hundreds of OTC Oral Health Home Care products in the marketplace can be a daunting task for uninformed patients and dental professionals as well. Many products are loosely regulated and as a result, manufacturers can make exaggerated or false claims regarding benefits or effectiveness. Basic compositions of dentifrices and oral rinses will be discussed along with the active ingredients for which there is a proven therapeutic value.

- Describe the basic composition of dentifrices and the different types of active ingredients that have been identified by the ADA Council on Dental Therapeutics.
- Describe the basic functions of oral rinses and active ingredients that have been identified by the ADA CDT.
- Counsel patients on OTC OHHC products that they need or that will be most effective for their specific needs.

Treating Dental Caries as an Infectious Disease
AGD Subject Code 258 / Verification Code 07
Traditional “surgical” approaches to treating the effects of dental caries are not adequate for patients at high risk or with rampant caries. A review of the differences between the surgical and medical models of treatment will be provided along with the risk factors that influence the selection of treatment options available for patients and practitioners.

- Describe or distinguish between the surgical and medical models of caries treatment.
- Identify risk factors associated with dental caries
- Classify caries-susceptible patients into High, Medium, or Low Risk categories
- Choose from several therapeutic options available to treat patients with caries according to risk levels

Maintenance Considerations for Esthetic Restorations
AGD Subject Code 780 / Verification Code 08
Esthetic dental procedures are an essential part of the range of restorative services that contemporary dental practitioners have to offer patients. The patient and the hygienist can have a significant influence on the appearance and durability of esthetic restorations. This presentation provides practical information regarding the effects of various in-office and at-home procedures on resin-based and ceramic restorative materials. Information for effective patient education will also be described.

- Describe the common iatrogenic or patient-initiated actions that can compromise the longevity or appearance of esthetic dental restorative materials.
- List the specific effects that common in-office hygiene maintenance procedures can have on esthetic dental restorations.
- Describe the effects of several common OTC devices and oral health products on esthetic restorations
- Educate patients about best professional and personal practices that will help them preserve their esthetic dental restorations

Review of Posterior Composite Resin Restorations Part 1 and Part 2
AGD Subject Code 269 / Verification Code 09
Composite resins have become the most common direct-placement restorative material in contemporary dental practices. They offer several advantages over amalgam but they are not without their limitations and clinical
challenges. This presentation provides a comprehensive review of posterior resins to help practitioners achieve optimal longevity and function from the restorations they provide for their patients.

- List several advantages, indications, and contraindications for the routine use of direct-placement posterior composite resins
- Describe the etiologies for the most common clinical challenges associated with posterior resins
- Describe modifications in classic tooth preparation techniques for posterior resins
- Compare different matrix options for posterior resins
- Describe optimal handling and light-curing techniques for posterior resins
- Describe practical finishing and polishing protocols for posterior resins

Haywood, Van

Signs of Occlusal Disease
AGD Subject Code 180 / Verification Code 10

Occlusal disease is one of the three main challenges to maintaining a healthy dentition. Recognizing the signs on the teeth and restorations allow the dentist to initiate treatment to minimize the effects and avoid restoration failures from occlusal trauma.

- Identify signs of occlusal disease on teeth and restorations, and determine appropriate treatment possibilities

Occlusal Splint Therapy
AGD Subject Code 184 / Verification Code 11

Treatment of occlusal disease or dysfunction can consist of an occlusal adjustment of the teeth, or a bruxism splint to protect both the teeth and restorative care. The decision to use a semi-adjustable articulator, or a simple hinge is determined by the splint fabrication technique utilized. Several techniques and considerations will be presented.

- Describe a predictable simple method for mounting casts and fabricating a maxillary occlusal bruxism splint, and compare this to other splint fabrication options
- Appraise other methods for determining if a patient can wear a bruxism splint with a “boil and form” trial splint

Smile Analysis Basics: Part 1
AGD Subject Code 130 / Verification Code 12

Prior to initiating bleaching or any esthetic treatment, it is important for the dentist to examine and diagnosis the overall esthetic condition of the patient. Performing a smile analysis includes an evaluation of how the teeth are positioned in the face and their relationship to the lips, as well as a tooth-by-tooth analysis.

- Perform a systematic evaluation of a patient’s smile to determine what issues need to be addressed for a satisfied patient
- Discuss when tooth issues or periodontal issues may be required treatment for a harmonious smile

Smile Analysis Design: Part 2
AGD Subject Code 130 / Verification Code 13

After the principles of smile analysis are considered, the dentist needs to be able to apply those principles in altering the patient’s smile by contouring or restorations. Elements of smile design will be applied to patient situations.

- Identify the appropriate treatment options for improving a patient’s smile

Esthetic Recontouring and bonding bleached teeth: Part 1
AGD Subject Code 780 / Verification Code 14

Recontouring of the teeth, or placing composite resin restorations can complete the ideal smile for the patient by addition or subtraction of problem areas on the tooth. Bleached teeth present a challenge for shade matching and
selection of proper materials for bonding. Selecting the proper composite materials as well as finishing technique tips for anterior composites will be helpful for a satisfied patient.

- **Apply the principles of the smile analysis to both subtracting tooth structure or add bonding to properly correct a defective smile**
- **Select the proper composite materials to restore bleached teeth based on the location of the restoration and the characteristics of the tooth**

**Esthetic Recontouring and bonding bleached teeth:**

**Part 2**

**AGD Subject Code 780 / Verification Code 15**

Recontouring of the teeth, or placing composite resin restorations can complete the ideal smile for the patient by addition or subtraction of problem areas on the tooth. Bleached teeth present a challenge for shade matching and selection of proper materials for bonding. Selecting the proper composite materials as well as finishing technique tips for anterior composites will be helpful for a satisfied patient.

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**Bleaching Single Dark Teeth**

**AGD Subject Code 781 / Verification Code 16**

Single dark teeth present an unique challenge to harmonize with adjacent teeth. Special tray design and treatment protocols will be shown for vital teeth. Endodontically-treated anterior teeth generally do not need a crown if discoloration is the only problem, so treatment information for internal bleaching and restoration of those teeth will be presented.

- **Select the appropriate external or internal bleaching treatment for a single dark tooth**
- **Apply the technique for bleaching a non-vital tooth internally**
- **Construct the special tray design for bleaching a dark tooth externally**

**Killough, David**

**Anticoagulation Therapy in the Developing World**

**AGD Subject Code 730 / Verification Code 17**

**New Anticoagulants / New Anti-platelets**

The landscape of increasing indications of use for anticoagulant and anti-platelet continues to change. With the evolving development and use of new anticoagulant and anti-platelet agents, the changing risk versus benefit patterns need to be considered. This session will contrast the new anticoagulants and anti-platelet medication and their changing risk versus benefit clinical outcomes to support a practitioner when deciding to possibly change therapy prior to a procedure.

- **Discuss a pharmacokinetic understanding of the application of the old versus the new anticoagulant/anti-platelet medications for different indications**
- **Decide when it is appropriate or not appropriate to discontinue therapy, and when to make therapeutic modifications for pending dental procedures.**
- **Differentiate side effects from adverse reactions of a therapy and how to proceed**
- **Discuss known drug interactions for each anticoagulant/anti-platelet medications**

**Key Pharmacology Mistakes and Misconcepts**

**AGD Subject Code 730 / Verification Code 18**

**Pharmacokinetic Considerations - When does it matter?**

Although the principles of pharmacokinetics do not change, their dynamic is effected by each patient’s own specific parameters. Therefore, many times “one size fits all” does not apply to a multitude of patients. This
session will focus on the basics of kinetic concepts, and broaden to application based on patient variability. The practitioner will have a new alarm trigger when dealing with a patient with compromises, and will know which type of correction will need to be made.

- Discuss kinetic concepts
- Discuss the kinetic principles for medications that make each unique
- Discuss principle changes relative to patient parameters
- Discuss when a risk is presented and what adjustments need to be made
- Evaluate risk versus benefit for a higher risk therapy

Anticoagulation - What Surgeons need to know?
AGD Subject Code 730 / Verification Code 19
The options of preoperative and postoperative care for particular surgery patients has increased significantly with the addition of new anticoagulant and anti-platelet therapies. Each of these new agents brings new criteria for patient selection for therapeutic appropriateness. This session will compare and contrast the new therapies, provide decision criteria, and provide avoidance considerations for each therapy.

- Discuss pharmacokinetic understanding of the application of the old versus the new anticoagulant/anti-platelet medications for different indications
- Discuss how to make an informed decisions about when it is appropriate or not appropriate to initiate therapy with a particular entity, and when to make therapeutic modifications.

Update on Analgesics for Oral Surgery
AGD Subject Code 164 / Verification Code 20
The anxiety of pain control for preoperative and postoperative periods is a real concern for the both the patient and the physician. With the evolution of new therapeutic agents, studies of older agents, and further enhancements in delivery methods, there are new options to address this anxiety. This session will address the issues of appropriateness and safety, as new and old agents and their combinations are considered.

- Identify the receptor targets and mechanisms of action for each type of analgesic presented
- Discuss the pharmacokinetic differences/similarities between each agent
- Compare the potency of all agents discussed
- Discuss the different delivery methods available and criteria for proper selection
- Identify the possible therapeutic interactions between all elements presented.
- Discuss their decision rationale about prescribing a particular agent or combination

Lee, Burton
Ethics, Human Nature & Evidence Based Medicine
AGD Subject Code 550 / Verification Code 21
Clinicians encounter many ethical issues in practice of medicine. This lecture first explores ethics from the perspective of normal human nature including incentives and social reciprocity. The impact of this human nature on every day medical practice, medical education, medical research and ultimately its implications for evidence based medicine is discussed.

- Identify the issues of ethics and conflicts of interest in daily medical practice, education and research
- Apply the scientific evidence about human nature and ethics to interpret scientific research findings in proper perspective

Leman, Jeff
AGD Subject Code 550 / Verification Code 22
Cognitive Error in Medical Decision Making
The sources of error in the diagnosis and management of our patients are many, but often times we neglect to recognize the errors in cognition to which we are so prone. The impact of these errors is very significant and frequent. This session will highlight some of the major areas in our thinking where we are susceptible to making cognitive error and help identify settings where they are most likely to happen. Strategies for minimizing these types of errors will also be explored.

- Explain the impact of cognitive biases on diagnosis and patient safety.
- Describe some of the most common biases that affect our medical decision making.
- Discuss some of the possible strategies to minimize these errors

**Luper, Donnie**

**Diagnosis and Treatment Planning in Endodontics**  
**AGD Subject Code 070 / Verification Code 23**

Diagnosis is the most important part of endodontic therapy. In order to perform the proper procedures it is imperative to know which tooth is the problem. This lecture will describe the diagnostic tests used to determine the appropriate treatment needs. Success rates of endodontic therapy will be discussed so that the practitioner will be able discuss this information with their patients before beginning endodontic therapy.

- Describe the appropriate diagnostic tests needed in endodontic therapy
- List the different diagnostic categories
- Cite the success rates of endodontic therapy

**Access for Endodontic Therapy**  
**AGD Subject Code 070 / Verification Code 24**

Creating access in the tooth is much more than just drilling a hole in the tooth. Access has very definitive guidelines that need to be followed in order to achieve optimum instrumentation of the canal system. These guidelines will be discussed and the anatomy of each tooth will be discussed also.

- Describe the anatomy of each individual tooth
- Discuss proper access for each individual tooth
- Identify instruments needed to create proper access and describe how each is used.

**Instrumentation of the Root Canal System**  
**AGD Subject Code 070 / Verification Code 25**

Instrumentation of the root canal system is just part of treatment of the tooth. Proper glide path management is crucial to success of treatment. Instrumentation techniques will be discussed which will provide for proper shaping and preservation of dentin. Reciprocation instrumentation using Waveone files will be discussed.

- Describe the importance of properly created glide paths.
- Discuss the Waveone file as an instrument to instrument the root canal system.
- Describe the rational for using reciprocation as a technique.

**Irrigation of the Root Canal System**  
**AGD Subject Code 070 / Verification Code 26**

Instrumentation of the root canal system provides the proper shape to be able to get irrigants into the canal. Irrigation is the most important step in cleaning the root canal system. Different irrigants will be discussed along with the techniques on how to properly dispense them.

- Discuss the rational for irrigating the canal
- List the different irrigants available to clean the root canal system
- Discuss armamentarium needed to ensure safe and effective irrigation

**Obturation of the Root Canal System**
Once the system is shaped and cleaned it must be obturated to prevent leakage of apical fluids back into the canal. The importance of three dimensional obturation of the canal system will be discussed along with the techniques of three dimensional obturation. The importance of a permanent coronal seal will also be discussed.

- **Describe the importance of three dimensional obturation of the root canal system**
- **Discuss using the Themafil method of root canal obturation**
- **Discuss the importance of the coronal seal.**

**Michelson, Joel**

**Journal Review 1 and 2**

Participants will review and present relevant articles from the current dental literature and discuss their importance to current practice.

- **Review articles selected from the recent literature for their importance and relevance to current clinical practice**
- **Analyze the selected articles to note how well the stated objectives have been met**
- **Discuss how the information can be applied for use by dentists practicing in various settings including in under resourced areas**

**Case Presentations and Discussion**

**Piezosurgery in Dentistry, an Introduction**

This presentation will briefly describe the history and science of Piezosurgery and its dental applications.

- **Describe the history and science of Piezosurgery**
- **List dental indications for Piezosurgery**
- **Debate the clinical practicality of Piezosurgery from a cost benefit standpoint**

**Coronectomy, a Surgical Option in High Risk Third Molar Extraction Situations**

This presentation will describe Coronectomy and its clinical application in appropriate situations.

- **Describe the procedure of Coronectomy for high risk third molar treatment**
- **Examine the evidence for the effectiveness of Coronectomy**
- **Discuss the appropriate clinical indications for Coronectomy**

**Tooth Extraction for the Non Dentist**

This workshop will present the bare basics of dental extraction technique including local anesthesia and instrumentation.

- **Describe how to safely and effectively administer oral dental anesthesia.**
- **Describe the armamentarium necessary for tooth extraction.**
- **Demonstrate proper extraction technique on a model.**
Predictable Surgical Placement (Immediate) Dentures Part 1 and 2

This presentation will cover treatment planning, clinical procedures and laboratory tips to be successful in using surgical placement (immediate) dentures in your practice. It will provide a methodology for a predictable result for the patient, the dental laboratory and the clinician. The presentation will address planning, impressions, jaw relationship records, occlusal schemes, placement of the prostheses and follow up care.

1. Identify reasonable candidates for surgical placement dentures and discuss the advantages and disadvantages of the treatment plan providing proper informed consent from the patient
2. Differentiate between full mouth extraction cases and those requiring serial posterior extractions and pre-prosthetic surgery
3. Determine the types of impressions and jaw relation records that will produce the best results for the patient
4. Describe the proper occlusal scheme for both complete dentures and combination cases with immediate complete maxillary dentures and mandibular removable partial dentures

Simple Mandibular Implant Assisted Overdentures Part 1 and Part 2

AGD Subject Code 690 / Verification Code 34

Description: This presentation will provide information on planning and placing implant assisted mandibular overdentures for complete denture patients. It will differentiate between implant assisted/tissue supported dentures and implant supported overdentures and the rationale for the proper selection for the patient. A brief discussion of implant assisted removable partial dentures will also be covered.

1. Diagnose, treatment plan and execute the clinical steps to provide simple implant assisted overdentures for completely edentulous patients
2. Direct the fabrication of surgical guides and assist in determining placement locations for the proper implants for overdentures service
3. Discuss the differences between implant assisted/tissue supported prostheses and implant assisted/implant supported prostheses and the advantages and disadvantages of both

Update on Infection Control

AGD Subject Code 750 / Verification Code 35

Get an update on infection control and health safety practices to insure your practice meets the current standards to keep your workplace safe for you, your employees and your patients. The presentation will cover bloodborne diseases, CDC recommendations, sterilization requirements, and other practice safety topics specific to the dental environment. This is the perfect opportunity for all your dental team to attend together to collectively review and identify the current information concerning a myriad patient and employee safety issues

1. Discuss how to protect yourself and other employees from bloodborne pathogens and other infectious agents
2. Describe an update on current bloodborne pathogens of concern in the dental environment
3. Select and maintain proper personal protective equipment and establish reasonable protocols for their use
4. Maintain proper immunization status for healthcare providers
5. Select and use the most effective infection control products in the office and laboratory environment
6. Maintain instruments and other reprocessed patient care items properly according to the recommendations
7. Maintain dental unit waterlines to minimize biofilm formation

Digital Photography in the Dental Environment Part 1 and Part 2

AGD Subject Code 130 / Verification Code 36

This session focuses (pun intended) on basic digital technology, equipment selection to include limitations of some popular camera types, basic patient positioning with mirror and retractor use along with software selection and
basic photo manipulation techniques. The session will also touch on basic techniques for camera success outside of the office environment.

- Evaluate basic digital technology issues pertaining to photo capture.
- Identify reasonable decisions concerning equipment purchases and proper auxiliary equipment.
- Evaluate the basic intra-oral photography techniques to include mirror and retractor use along with patient positioning.
- Determine digital images for printing, storage and alteration to present possible treatment alternatives to patients.

Quist, Brad
Mobile Medical and Dental Clinics
AGD Subject Code 130 / Verification Code 37
Mobile medical and dental clinics are a common means of bringing healthcare to outlying communities. However, there is a risk that such ministry can create dependence and undermine local healthcare systems unless the goals of the outreach are carefully defined and a mechanism is in place for follow up within the community.

- Describe how poorly defined goals for a medical caravan can actually worsen the health of the community
- Identify the best combination of local and ex-pat personnel for the medical and dental caravan team.
- Discuss the logistics (time, travel, supplies and equipment) for organizing a medical caravan.

Sanford, Collin
AGD Subject Code 130 / Verification Code 38
Update on Digital Dentistry, where are we now and where are we going.
Digital dentistry has been changing the way we practice our profession over the past several years. The current trend is to rely on this technology more and more as we move forward in time. This presentation will focus on where we use this technology in general dentistry and specifically in the area of impression taking and construction of individual restorations and multiple units. It will also discuss the use of this technology as it relates to implants.

- Determine how we can best us this developing technology in the practice of dentistry now and in the future.
- Discuss whether this technology can be a useful tool in individual settings

Stevens, David
AGD Subject Code 770 / Verification Code 47
Right of Conscience (Healthcare)
Healthcare Right of Conscience is the most significant bioethical issues facing faith based medical personnel. Ninety-five percent of them report they will leave their profession if they are forced to violate their deeply held beliefs. This presentation will review the ethical, philosophical and legal foundations establishing this right and train participants how to defend their religious freedom in the work place and public-square.

- Cite the ethical, philosophical, US constitutional and legal foundations of healthcare right of conscience
- Defend healthcare right of conscience in the work place and the public square.

Vinton, Jeff,
AGD Subject Code 130 / Verification Code 39
Xerostomia
Xerostomia, also known as dry mouth, is a condition that is frequently manifested in those taking multiple medications, those who have undergone radiation therapy for head and neck cancer, and those who have autoimmune diseases. Xerostomia increases the incidences of dental caries, candidiasis and other conditions that decrease the quality of life. This presentation will provide guidelines for the diagnosis and management of xerostomia.
Indications for Third Molar Removal
AGD Subject Code 370 / Verification Code 40
There is controversy regarding the indications for removal of impacted, asymptomatic third molars and erupted third molars with evidence of periodontal disease. This presentation will provide objective findings and recommendations to guide the dental practitioner regarding third molars.

- Discuss rationale for classification of third molars according to symptoms, and disease status
- Examine the link between periodontal disease, erupted and partially erupted third molars
- Discuss indications for removal of third molars

Surgical Principles of Third Molar Removal
AGD Subject Code 370 / Verification Code 41
The removal of third molars is a frequently required oral surgical procedure. Basic surgical principles along with armamentarium and post-operative surgical care will be discussed.

- Discuss the anatomy and degree of impaction of third molars
- Recommend basic surgical armamentarium
- Present principles of soft tissue management
- Review surgical techniques for removal of impacted and erupted third molars

Review of local anesthetics for dentists
AGD Subject Code 130 / Verification Code 42
Local anesthetics enable dental providers to safely provide patients with painless dental procedures. There are multiple anesthetic solutions available for use today which will be discussed to enable the dental provider to tailor the anesthetic to the procedure being provided.

- Classify the available local anesthetics available
- Discuss advantages and disadvantages of various agents
- Review the types of vasoconstrictors used in anesthetic solutions

Management of Mandibular Fractures
AGD Subject Code 070 / Verification Code 43
Dental and medical providers in remote areas without access to those with advanced training may be called upon to treat mandibular fractures. Closed management of fractures can generally be accomplished using various wiring and jaw immobilization techniques.

- Describe the principles involved in clinical and radiographic diagnosis of mandibular fractures
- Classify fractures regarding open, closed, or comminuted and when open reduction and antibiotic therapy is indicated
- Discuss various reduction and immobilization techniques

Mandibular Fracture Workshop Part 1 and Part 2
AGD Subject Code 070 / Verification Code 44
Dental models will be utilized to provide a “hands-on” workshop to apply arch bars and demonstrate various wiring techniques to reduce fractures and immobilize the jaws to enable healing.

- Train in the application of arch bars
- Demonstrate the correct use of stainless steel wire in multiple inter-dental techniques
A strategy for impacting the Human Development Index in developing countries by working with elementary and pre-schools in order to implement low cost, evidence-based health interventions. The most prevalent health problems experienced by children of elementary school age are easily preventable with an improvement in the practice of daily personal hygiene including washing hands with soap and brushing teeth with fluoride toothpaste.

- Describe the main causes of absenteeism in elementary schools and pre-schools in developing countries.
- Describe the multiplication of the impact of health interventions by utilizing the school structure and teachers to implement the strategy.
- List the interventions that have been utilized in the program, daily hand washing with soap, tooth brushing with fluoride toothpaste, and biannual deworming.
- Formulate a strategy for sustainability by advocating with local government officials and other stakeholders.

"Promotion of Dental Health in Developing Countries."

A strategy for impacting the Human Development Index in developing countries by working with elementary and pre-schools in order to implement low cost, evidence-based health interventions. The most prevalent health problems experienced by children of elementary school age are easily preventable with an improvement in the practice of daily personal hygiene including washing hands with soap and brushing teeth with fluoride toothpaste.

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