2016 ANNUAL SEMINAR SAVANNAH, GA.

Special Care Advocates in Dentistry 2016 Lit. Review

(SAID’s Search of Dental Literature Published in Calendar Year 2015*)

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Special Acknowledgement to Mr. Timothy O’mara who provided computer support and literature searches.
Recent journal articles related to oral health care for people with mental and physical disabilities.

Search Program = PubMed
Database = Medline
Journal Subset = Dental
Publication Timeframe = Calendar Year 2015*
Language = English
SAID Search-Term Results = 2,002
Initial Selection Result = 451 articles
Final Selection Result = 107 articles

SAID Search-Terms Employed:

1. Intellectual disability  
2. Mental retardation  
3. Mental deficiency  
4. Mental disorders  
5. Mental health  
6. Mental illness  
7. Dental care for disabled  
8. Dental care for chronically ill  
9. Self-mutilation  
10. Disabled  
11. Behavior management  
12. Behavior modification  
13. Behavior therapy  
14. Cognitive therapy  
15. Down syndrome  
16. Cerebral palsy  
17. Epilepsy  
18. Enteral nutrition  
19. Physical restraint  
20. Immobilization  
21. Protective devices  
22. Moderate sedation  
23. Conscious sedation  
24. Analgesia  
25. Anesthesia  
26. Dental anxiety  
27. Nitrous oxide  
28. Gingival hyperplasia  
29. Gingival hypertrophy  
30. Glossectomy  
31. Sialorrhea  
32. Bruxism  
33. Deglutition disorders  
34. Community dentistry  
35. State dentistry  
36. Gagging  
37. Substance abuse  
38. Syndromes  
39. Tooth brushing  
40. Pharmaceutical preparations

Program: EndNote X3 used to organize search and provide abstract. Copyright 2009 Thomson Reuters, Version X3 for Windows.

*NOTE: The American Dental Association is responsible for entering journal articles into the National Library of Medicine database; however, some articles are not entered in a timely manner. Some articles are entered years after they were published and some are never entered.
   Reviews the current knowledge on disorders of the oral cavity in Parkinson’s patients
   Reviews the many factors that cause mouthbreathing
   Concludes that Nitrous is a safe and effective treatment option
   Reviews the many factors that can cause Bruxing
   Discusses Treatment options for the older adult
   This article concludes that success of dental screenings depends on the patient’s level of function
   People with Chronic Schizophrenia have high unmet dental needs
   Concludes that treatment under G.A. is increasing, but no accepted protocols exist
   Found very few trials that fulfilled ideal requirements and more studies are needed.

    Concludes people with SMI are at higher risk of dental disease due to multiple factors.

11. Aditya A., Lele, S., **Association between Psychosocial Disorders and Oral Health.** J. of Dent. and Allied Health Sciences; 2015;(4)2:84-88
    Discusses many of the dental and oral conditions found in people with psychosocial disorders.

    Reviews the literature on eating disorders as related to oral health.


    Concludes there is a clinically significant benefit to adjunctive EO treatment.

    Literature review that indicates inadequate knowledge by caregivers and dental professionals.

This study found an association between obesity and chronic periodontitis

Found that ART was effective in these patients

Results show that anti-caries agents can reduce tooth decay in high risk adults

This study found adults with ASD had lower salivary flow and more gingival recession.

Supports the recommendation that prophylaxis is not required

Most participants completing a survey lacked knowledge pertaining to oral health

Discusses sugar intake as a cause of caries and obesity

Dental devices did not interfere with pacing and sensing functions

27. Donaldson M. et al. **Sugar Content, Cariogenicity, and dental concerns with commonly used Medications.** JADA 2015:146(2):129-133
Discusses the Sucrose content of common liquid medications

A literature review indicating the evidence for systemic antimicrobials is not definitive

29. Omar H.R. et al., **Clopidogrel is not associated with Increased Bleeding Complications after full mouth extractions.** JADA 2015:146(5):303-309


This study found it was safe to perform oral surgery on patients who continued anti-coagulant therapy

Four adjunctive therapies were found to be beneficial: systemic sub-antimicrobial dose doxycycline, systemic antimicrobials, chlorhexidine chips, and photo dynamic therapy with a diode laser

33. Smiley C.J. et al. **Evidence based Clinical Practice Guideline on the nonsurgical treatment of Chronic Periodontitis by means of scaling and root planning with or without Adjuncts.** JADA 2015:146(7):525-535

34. Karnad M.P.R., **Dental Anxiety- How would you Treat It?** SAAD Digest, 31:26-30
Discusses assessment of anxiety and behavioral and pharmacological treatment of anxiety
This study used a cognitive-behavioral therapy to attempt to reduce dental anxiety. The authors felt their results were promising.

Dental issues include Microstomia, Limited Opening, and severe Gag Reflex.

These patients were shown to have high unmet dental needs.

Results of a semi-structured interview indicated that dental anxiety affects the pain response.

This study showed that psychological symptoms were related to low expectations of dental visit in females. Oral health behaviors were related to expectation of dental visit in both genders.

This article discusses the importance of structuring dental treatment to the patient’s ability to maintain it.

This study of 30 patients indicated the number of teeth and type of prosthesis in elderly post stroke patients showed an association with the level of oral intake and the degree of dysphagia.
   This study attempts to determine clinical correlates to oral abnormalities in Systemic Sclerosis

43. Packer M.E., **Are Dental Implants the Answer to Tooth Loss in Patients with Parkinson’s disease.** Prim. Dent. J. 2015;4(2):35-44
   An overview of the implications of Parkinson’s on oral health and oral care in these patients

44. Paquette D.W., et al. **Dentists’ Knowledge and Opinions of Oral-Systemic Disease Relationships: Relevance to Patient Care and Education.** J. Dental Education 2015;79(6):626-635
   This study from N. Carolina shows that Dentists’ have high knowledge of oral-systemic associations, but have mixed comfort levels translating it to clinical practice

   This article proposes an oral health care model to address the needs of the seriously ill older adult

46. Wahl M.J., et al. **Dental Surgery in Anti Coagulated Patients-Stop the Interruption.** OOOO 2015;119(2):136-157 This literature review supports the fact that postoperative bleeding complications from dental surgery are outweighed by the risk of fatal embolic effects if anti-coagulant therapy is stopped


   This retrospective study of 881 patients with oral cancer concluded that in non-smokers without other risk factors, oral cancer could be due to dental and denture trauma.
This study mapped stress distribution in a human elderly mandible in response to 3 different traumas

50. Xiang X. et al. **Serious Psychological Distress as a Barrier to Dental Care in Community Dwelling Adults in the United States.** J. of Public Health Dent. 2015; 75:134-141  
Serious Psych. Distress was found to be a modest independent risk factor,

51. Saltness S.S., et al. **Oral Health Related Quality of Life and Mental Health in Individuals with Chronic Obstructive Pulmonary Disease (COPD).** Acta Odontologica Scandinavica 2015; 73:14-20  
This survey of 100 patients found that oral health factors are related to mental health QOL in patients with COPD

A review of issues that may arise when treating the drug or alcohol dependent

A survey given to fourth year dental students after a special care rotation indicated an improvement in the students’ ability

This paper discusses specialized oral prostheses for the patient with no functional use of their limbs

Discusses barriers to care and opportunities to educate
   Data from 329 patients over age 70 showed those with dementia had less dental care

   A large scale survey showed that loss of teeth and poor oral care are good predictors of poor general health

   Discusses establishing a preventive regime for the patient in a residential facility

   Measuring mandibular cortical bone thickness on panoramic films could be a good tool for detecting bone alterations associated with bisphosphonates


   A survey given to parents of children showed that treatment under G.A. had an immediate positive effect

   This study showed that these patients remain at high risk for caries
This proved to be an effective combination

This survey of 100 patients showed that in general, prenatal women lacked adequate knowledge on oral health care

This study showed that Dental visits represented the second most common discharge diagnosis in adults 20-39


Discusses the oral health of the elderly in the UK

This study found that the primary cause of dental infection causing patients to present at the hospital was caries

Pamidronate was found to increase the mandibular cortex in these patients
Discusses the development of non-coding RNA for disease detection

Discusses personality traits of patients with BMS based on a survey of 65 BMS patients

This study from the UK found that hygiene-therapists were able to make correct screening decisions


An overview of periodontal issues in the elderly.

An overview of dry mouth and its treatment

This study of 1703 patients with rare diseases shows the difficulty these patients have in maintaining oral health

Discusses toothpaste choices with regard to abrasiveness and toxicity

A survey of 762 patients showed heavy smokers had poorer oral hygiene habits than non-smokers
This study found no difference between the test and control brushes. Introducing a brush earlier after surgery improved oral hygiene.

This study found that the use of a sonic toothbrush significantly reduced plaque.

In this study no pathology developed.

Most dentists surveyed had no knowledge of toothbrush disinfection.

A literature review of preventive procedures for hospitalized patients.

This study’s protocol did not significantly reduce the incidence of Pneumonia.

An increased level of Fluoride resulted in a decrease in caries.
Flossing followed by brushing was found to be more effective than brushing followed by flossing.

Water pipe smoking presents the same risk as regular tobacco smoking.

In a study of 2077 students, Xerostomia was found to be indirectly related to gingival disease through the accumulation of plaque.


This study found insufficient evidence to recommend routine use.

This study of 24 patients found that control of biofilm had very little effect on systemic inflammation.

A retrospective study of 739 patients hospitalized for Infective Endocarditis found that the risk from dental procedures was minimal.

This study found that training staff did not improve the oral health of those they were caring for.
This study found ART to be a good alternative for patients who had difficulty coping with conventional treatment.

A literature review indicating that people with Down syndrome have increased obstructive sleep apnea.

An overview of Dementia and its dental management.

A five year study of 1,988 people aged 65 or older found that swallowing problems increased with increased tooth loss.

Sleep medicine is included in most hygiene schools but to a limited extent.

According to this study of 2010 E.R. visits people with ASD were not more likely to use the E.R.

364 Subjects given a psychological evaluation and dental exam. The study found a relationship between anxiety, depression and ADHD and decreased oral hygiene.
   A survey of 399 patients suggests that a graded chronic pain scale can be used as a screening tool to identify patients with different, clinically relevant psychosocial subtypes

   This Literature review found waterpipe smoking to be related to many head and neck conditions

105. Cummings S., Pratt J., **Metabolic and Bariatric Surgery.** JADA 2015:146(10):767-772
   Describes the most common bariatric procedures and focuses on the nutritional and oral complications that can occur

   Reviews the Literature on Phentolamine Mesylate

   Review of the literature on extractions in patients on antiplatelet therapy