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ORAL HEALTH FLORIDA COALITION

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SENIOR WORKGROUP

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REPORT: ORAL HEALTH CARE FOR FLORIDA'S VULNERABLE ELDERLY

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November 16, 2011

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5 **INTRODUCTION**
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7 In 2005, the Florida Agency for Health Care Administration retained the TRECS Institute,
8 North Wales, PA, to conduct a study of the oral health care status of the state’s senior population,
9 especially of those residing in nursing homes. The report’s conclusions are still valid today and
10 serve as an introduction to the Oral Health Florida Coalition’s senior workgroup report on the oral
11 health status of the vulnerable elderly.

12 The first ever Surgeon General’s Report on Oral Health Care, published in May
13 2000, alerted Americans that oral health care is critical to general health and well-being,
14 and can be achieved (U.S. Department of Health and Human Services, 2000). However,
15 profound oral health disparities exist within the U.S. population. Those who suffer the
16 worst oral health care and hygiene include older adults residing in nursing homes.¹
17
18

19 Oral health care for elders is under-funded, under-researched, and has been a low
20 health care priority. The Surgeon General’s recent report on “Oral Health Care in
21 America” identified frail elders and nursing home residents among the populations most
22 vulnerable to poor dental care.² Currently, there are approximately 34.5 million people
23 age 65 and older living in America. This number is expected to increase to 70 million by
24 2030.³ Of this 65 age cohort, 5 percent reside in over 16,100 nursing homes in the United
25 States. An additional 16 percent of those 85 and older also reside in nursing homes.⁴ It has
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¹ Coleman, P. (2002). Improving oral health care for the frail elderly: A review of widespread problems and best practices. *Geriatric Nursing*, 23, 189-199.

² *Oral Health in America: A Report of the Surgeon General*, National Institute of Dental and Craniofacial Research, National Institutes of Health, Bethesda, MD. Online, Available at: www.nidr.nih.gov/sgr/execsumm.htm

³ Administration on Aging. Profile of Older Americans: 2000.

1
2 been estimated that this increasing over 65 population will easily double the need for nursing
3
4 home or similarly intense care levels in this nation in the foreseeable future. As the Secretary of
5 Health and Human
6
7 Services notes, "Ignoring oral health problems can lead to needless pain and suffering,
8
9 causing devastating complications to an individual's well being, with financial and social
10
11 costs that significantly diminish quality of life and burden American society."⁵
12

13 Yet the changing needs of elders have not been recognized in the overall health
14
15 care plan for this special cohort. In the 1960's, when most of our current health care policies
16
17 were being developed, the majority of elders did not have natural teeth; dental care for elders
18
19 was synonymous with denture care.⁶ Today, not only are people living longer, they are
20
21 retaining the majority of their natural teeth. With the retention of natural teeth, dental
22
23 care and maintenance becomes more complex and the neglect of dental care can lead to
24
25 increased health risks.^{7 8}
26

27 Oral needs of institutionalized elderly represent a special challenge. The number
28
29 of elderly and the amount of elder dental disease is increasing in the United States. The
30
31 elderly population over 65 years old is expected to double over the next twenty-five
32
33 years^{9 10} so that by 2030, twenty five percent of Americans (about 70 million) will be

⁴ Strayer M. Consensus Conference on practical guidelines for institutionalized older dental patients. *Spec. Care Dent*, 16:141-2, 1996.

⁵ *Aging America Poses Unprecedented Challenges, Says New Census, Aging Institute Report*, Available at www.nih.gov/nia/new/press/census.htm

⁶ Burt BA, *Influences for change in the dental health status of populations: an historical perspective*, *Journal of Public Health Dentistry*, 38(4):272-88(1978 Fall).

⁷ Ettinger RL, *The unique oral needs of an aging population*, *Dental Clinics of North America* 41(4):633-49 (1997 Oct).

⁸ Berkey D., Berg R, *Geriatric Oral Health Issues in the United States*, *International Dental Journal* 51(3 Suppl):254-64 (2001 Jun).

⁹ Slavkin, HC, *Maturity and oral health: live longer and better*, *Journal of American Dental Association*, 131(6):805-8 (2000 Jun).

¹⁰ NIA News Release, *Aging America Poses Unprecedented Challenge*, www.nia.nih.gov/news/pr/1996/05-20.htm (May, 1999).

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2 sixty five years of age or older. Between 1960 and 1994, the population of the “oldest-
3
4 old,” (those above age eighty-five) increased by two hundred and seventy-four
5
6 percent.^{11 12}

7
8 Since elders are retaining their natural teeth, their risk of oral disease increases
9
10 and it increases even more rapidly among elders unable to adequately perform their daily
11
12 oral hygiene care. However, even for elders without teeth, the risk for oral disease is
13
14 increased. The incidence of oral mucosal diseases increases with the presence of chronic
15
16 diseases and use of multiple medications.¹³ Oral disease can complicate certain medical
17
18 problems and many medical problems can increase risk of oral disease.¹⁴ Additionally,
19
20 elders are prescribed an ever-expanding variety of medications; over 80 percent of which
21
22 are known to have adverse oral tissue side effects.¹⁵ Oral soft tissue lesions are estimated
23
24 to annually affect 10-38 percent of elders 65 and older, with the highest rate among frail
25
26 and institutionalized elders.

27
28 Dental disease rates actually begin to increase after age 45 and nearly double by
29
30 age 65. Since elders are retaining their teeth, their risk of dental disease continues
31
32 throughout their life. Aging alters the immune system response which coupled with
33
34 common chronic conditions and medications, results in a growing population with
35
36 growing rates of disease and a growing level of need.

¹¹ National Center for Health Statistics , US Department of Health and Human Services. *Changing Mortality Patterns. Health Services utilization and health care expenditures: US 1978-2003*, analytical and epidemiological studies series 3, 1993;23(PHS PUB):83-1407.

¹² See n. 11

¹³ Beck, JD., Watkins, C., *Epidemiology of non-dental oral disease in the elderly*, [Review] Clinics in Geriatric Medicine 8(3):447-59 (1992 Aug).

¹⁴ Burt BA, *Epidemiology of dental diseases in the elderly*, [Review] Clinics in Geriatric Medicine, 8(3):447-59 (1992 Aug).

¹⁵ Lewis IK, Hanlon JT, Hobbins MJ, Beck JD, *Use of medications with potential oral adverse drug reactions in community-dwelling elderly*, Special Care in Dentistry. 13(4):171-6 (1993 Jul-Aug).

1
2 Exclusion of oral health from general health issues and from coverage in
3
4 Medicare compounds the problem.^{16 17} Dental professionals suggest that dentistry's
5
6 evolution from the focal infection theory and exodontias (extraction of teeth) to today's
7
8 advanced restorative and preventative care has created a new need for oral care among
9
10 the current and future elderly dental consumers.¹⁸

11
12 The 2000 Surgeon General's report findings was the catalyst for the current call to
13
14 action of policymakers, community leaders, industry, health professionals and the public.
15
16 Under the leadership of the Office of the Surgeon General, a National Call to Action was
17
18 established in the spring of 2005.

19
20 According to the data collected at the Call to Action, the following elderly facts
21
22 were extrapolated.

- 23
- 24 • Twenty-three percent of 65 to 74 year old have severe periodontal disease.
- 25 • Thirty percent of adults 65 years and older are edentulous.
- 26 • Individuals in long-term care facilities are prescribed an average of eight drugs.
- 27 Many of these drugs have side effects such as dry mouth. The decrease in
- 28 saliva increases the risk of oral disease.
- 29 • Five percent of Americans aged 65+(approximately 1.65 million) are living in a
- 30 long-term care facility where dental care is problematic.
- 31 • Many elderly lose dental insurance with retirement. Medicare does not reimburse
- 32 for dental care and Medicaid funds only for low income and disabled in a few
- 33 states and reimbursement amounts are low.
- 34 (U.S. Department of Health and Human Services. Oral Health in America:
- 35 A Report of the Surgeon General. Rockville, MD)
- 36

37 Oral care in the United States is provided predominantly by dental professionals
38
39 in private practice. People who are able to 1) recognize the need for care; 2) identify a

¹⁶ Meskin LH, Dillenberg J, Heft MW, Katz RV, Martens LV, *Economic impact of dental services utilization by older adults*, Journal of the American Dental Association 120(6):665-8(1990 Jun).

¹⁷ White BA., *An overview of oral health status, resources and care delivery*, [Review] Journal of Dental Education 58(4):285-90 (1994 Apr).

¹⁸ Ettinger, RL. Watkins, C. Cowen, H., *Reflections on changes in geriatric dentistry*, Journal of Dental Education 64(10):715-22 (2000 Oct.).

1
2 provider; 3) obtain transportation to the provider or convince the provider to come to the
3
4 facility, and 4) pay for needed care, can enjoy the highest level of oral health care in the
5
6 world. According to dental access studies, inabilities by many elderly, especially nursing
7
8 home residents, to meet these four factors are among the most prevalent reported barriers to
9
10 dental care. Data from the U.S. Department of Health and Human Services states that
11
12 a lack of dental insurance, private or public is one of several impediments to obtaining oral
13
14 health care.

15
16 Once an individual enters a nursing home, their access to adequate dental care
17
18 drops markedly. Estimates of the percentage of these patients with unmet dental needs range
19
20 from 80% to 96%.^{19 20} This problem is likely to worsen when the baby-boom generation
21
22 reaches the age when a substantial number will require LTC in a nursing home.

23
24 Studies during the past decade have identified specific statistics concerning nursing facility
25
26 residents that are concerning in general but especially from a dental care perspective:

- 27
- 28 • Women outnumbered men by approximately 3:1²¹
- 29 • The typical resident needed help with four activities of daily living (ADLs), which are
- 30 bathing, dressing, eating, toileting, and transferring-as from a bed to a chair.²²
- 31 • Two thirds relied on Medicaid to pay for their care²³
- 32 • 6% were confined to bed²⁴
- 33 • 80% took six or more medications daily²⁵

¹⁹ Kambhu PP, Warren JJ, Hand JS, et al. *Dental treatment outcomes among dentate nursing facility residents: an initial study*. Spec Care Dent. 1998;18:128-132.

²⁰ Warren JJ, Kambhu PP, Hand JS,. *Factors related to acceptance of dental treatment services in a nursing home population*. Spec Care Dent. 1994;14:15-20.

²¹ National Nursing Home Survey 1999. Selected characteristics of homes, beds and residents. Table 3. Division of Data Services, National Center for Health Statistics, Centers for Disease Control and Prevention, U.S. Department of Health and Human Services.
ftp.cdc.gov/pub/Health_Statistics/NCHS/Datasets/nchs/nhs99/.

²² Facts and Trends: The Nursing Facility Sourcebook 2001. American Health Care Association. 2001.
www.ahca.org/research/nfs/nfs2001.pdf.

²³ The looming crisis: 15 key questions about long term care. American Health Care Association. 1998.
www.ahca.org/secure/top15.htm.

²⁴ see n. 20

- 1 • Up to 78% had untreated caries²⁶
- 2 • More than 40% had periodontal disease²⁷
- 3 • Up to three quarters of those over 65 had lost some or all teeth²⁸
- 4 • More than half of those over age 75 were edentulous²⁹
- 5 • 80% of those who had lost all teeth had dentures, but 18% did not use them.³⁰

6
7 The oral health of the growing elder population in long-term care facilities
8
9 is becoming an important social issue. Over the past several decades, the pattern of oral
10
11 disease has been shifting. Older adults in the United States are retaining their teeth
12
13 longer with a significant decline in the rate of edentulism.^{31 32} In the New England
14
15 Elders Dental Study (NEEDS), Douglass et al³³ reported a significant decline in
16
17 edentulism from 1962 to 1990 among elders age 70 and over. The number of retained
18
19 teeth per person has increased. Consequently, increased tooth survival has resulted in
20
21 an increase in teeth exposed to the risk of dental disease. The NEEDS findings reveal a
22
23 high prevalence of root caries in New England elders, suggesting a greater need for
24
25 dental care than for previous generations of elders. The increasing number of older
26
27 people living in nursing homes at some point in their lives, combined with declining
28
29 tooth loss among the elderly, will lead to increased need for dental services within long
30
31 term care facilities.

32
33 The U.S. Surgeon General's report *Oral Health in America* emphasizes the
34

²⁵ Council on Access, Prevention and Interprofessional Relations. *Providing Dental Care in Long-term Care Facilities: A Resource Manual*. Chicago, IL: American Dental Association; 1997.

²⁶ See n. 23

²⁷ Vargas CM, Kramarow EA, Yellowitz JA. *The Oral Health of Older Americans. Aging Trends*; No. 3. Hyattsville, MD: National Center for Health Statistics; 2001.

²⁸ see n. 23

²⁹ see n. 25

³⁰ see n. 23

³¹ Weintraub J, Burt B. *Oral health status in the United States: tooth loss and edentulism*. *J Dent Educ* 1985; 49:368-76.

³² Douglass CW, Jette AM, Fox CH, Tennstedt SL, Joshi A, Feldman HA, McGuire SM, McKinlay JB. *Oral health status of the elderly in New England*. *J Geront* 1993;48:M39-M46.

³³ See n. 32

1 importance of oral health care to overall general health. The report describes the
2
3 existing disparities in access to dental services among different population groups,
4
5 especially the very young and very old. Berkey et al.³⁴ reviewed the oral health status
6
7 of elderly nursing home residents and reported that 70 percent of residents had unmet
8
9 oral health needs. The residents exhibited high rates of dental caries, edentulism, poor
10
11 oral hygiene, periodontal disease, and soft tissue lesions. Unfortunately, there are
12
13 obstacles in improving and maintaining good oral health for those individuals.

14
15 Many elderly Americans lack the financial resources to access dental care. Upon
16
17 retirement, few older adults retain dental insurance. Kington et al.³⁵ found that only 13
18
19 percent of elder Americans have private dental insurance. Findings from the 1989
20
21 National Health Interview Survey conducted by Bloom et al.³⁶ reports significantly
22
23 higher utilization of dental services by those elders with private dental insurance than
24
25 those without.

26
27 Barbara Smith, PhD completed her doctoral thesis in 2002 for the University of
28
29 Michigan looking at “Stability of Oral Health Status in a Long-Term Care Population – A
30
31 Longitudinal Analysis of Dental Treatment Needs.” Her study focused on records
32
33 maintained for almost 20 years from Apple Tree Dental, a non profit organization located
34
35 in Minneapolis, Minnesota and serving the residents of approximately 80 nursing homes
36
37 in that area. What is unique about the population of nursing home residents served by
38
39 Apple Tree Dental is that this organization, with its non-profit mission, has literally broken

³⁴ Berkey DB, Berg RG, Ettinger RL, Meskin LH. *Research review of oral health status and service use among institutionalized older adults in the United States and Canada.* Spec Care Dentist 1991;11:131-6.

³⁵ Kington R, Rogowski J, Lillard L. *Dental Expenditures and insurance coverage among older adults.* Gerodontol 1995;35:463-43.

³⁶ Bloom B, Gift HC, Jack SS. *Dental services and oral health care: United States, 1989.* National Center for Health Statistics Health Survey, Vital Health Statistics Series 10, No. 183. Hyattsville, MD: Public Health Service; 1992.

1
2 the reimbursement barrier and its residents receive regular dental screenings, cleanings and
3
4 care, unlike other nursing home residents across the nation. By breaking the reimbursement
5
6 barrier, this unique organization is able to hire and reimburse its professional staff in a
7
8 manner that makes working with nursing home residents an economically sound business
9
10 model. Apple Tree Dental is only able to do this because of the outside funding it is
11
12 able to raise as a non profit organization that helps supplement the program's basic
13
14 operation. These findings strongly suggest that a private or commercial dental insurance
15
16 program that would essentially eliminate the reimbursement barrier currently in place and
17
18 effectively make the business of providing professional dental care to nursing home
19
20 residents a financially sound model, could have a profound impact on the industry.

21
22 Another very interesting finding from Dr. Smith's work is the confirmation that a
23
24 large percentage of elderly take very poor care of their oral health needs between the time
25
26 they retire and the point at which nursing home placement becomes a reality. As a result,
27
28 Dr. Smith found that the average nursing home resident, if seen by a dentist upon
29
30 admission, requires an average of 13.2 initial dental treatments with a mean ranging from
31
32 2 to 66! Furthermore, after three visits and with regular and consistent oral care, the
33
34 ongoing need for professional care stabilized and was dramatically reduced.

35
36 Oral health is integral to an older adult's general health and quality of life, and
37
38 basic oral health services are an essential component of primary health care.³⁷

39
40 Though not usually life threatening or seriously impairing for the majority of
41
42 people, unchecked oral diseases in an older person can have far greater systemic
43

³⁷ Dolan T, Atchison K. *Implications of access, utilization and need for oral health care by the non-institutionalized and institutionalized elderly on the dental delivery system.* J Dent Educ 57:876-87, 1993.

1 impact than in a younger individual. A common route of systemic infection by oral
2
3 micro-organisms is through the aspiration of oropharyngeal fluids containing oral
4
5 pathogenic micro-organisms, which can cause pneumonia in patients with diminished
6
7 host defenses.³⁸ A link has been shown between dental disease and coronary heart
8
9 disease.³⁹ Dental infections have also been shown to be a risk factor for
10
11 arteriosclerosis.⁴⁰ Some other dire consequences reported for the elderly are nutritional
12
13 compromise, empyema, bacteremia, and brain abscess.⁴¹ As well as placing residents
14
15 at risk for life threatening conditions, oral health problems also affect self-esteem, the
16
17 ability to maintain a favorable self-image, and the ability to masticate food comfortably
18
19 and efficiently(which may adversely affect nutritional status).⁴² Oral health problems
20
21 can hamper one's ability to live without pain or discomfort. Above all, oral health is
22
23 crucial to an individual's quality of life.⁴³ It is tragic that people whose quality of life is
24
25 already diminished due to cognitive and functional loss may also be suffering
26
27 unnecessarily from untreated oral disease.⁴⁴ Nursing home elderly, perhaps more than
28
29 any other nursing home population group, need complete, comprehensive, and routine
30
31 dental services to maintain an adequate level of oral health.⁴⁵

32
33 The changing demographics, barriers to treatment including apathy/ignorance,
34

³⁸ Limeback H. *Implications of oral infections on systemic diseases in the institutionalized elderly with a special focus on pneumonia.* Ann Periodontol 3:262-75,1998.

³⁹ Loesche WJ, Schork A, Terpenning MS, et al. *Assessing the relationship between dental disease and coronary heart disease in the elderly U.S. veterans.* J Am Dent Assoc 129:301-11,1998.

⁴⁰ Meurman JH. *Dental infections and general health.* Quintessence Int 28:807-11, 1997.

⁴¹ Shay K. *Dental management considerations for institutionalized geriatric patients.* J Prosthet Dent 72:510-6, 1994.

⁴² Kayser-Jones J, Bird W, Redford M, et al. *Strategies for conducting dental examinations among cognitively impaired nursing home residents.* Spec Care Dent 16:46-52, 1996.

⁴³ See n. 37

⁴⁴ See n. 42

⁴⁵ Henry R, Ceridan B. *Delivering dental care to nursing home and homebound patients.* Dent Clin North Am 38:537-51, 1994.

1 lack of perceived need, access, staff knowledge, institutional constraints,
2
3 reimbursement difficulties, dentists' lack of geriatric dental care knowledge and the
4
5 difficulty of treating elderly with functional impairment make this a unique challenge.
6
7 These aging Americans deserve the opportunity to age gracefully and with dignity.
8
9 They should maintain their teeth for a lifetime with manageable oral health care, and
10
11 minimal functional problems that allow for a positive appearance, articulation and
12
13 functionality. Above all, the senior citizens should have the oral care they need to pursue the
14
15 quality of life they deserve.

Footnotes:

- 15 ¹ Coleman, P. (2002). Improving oral health care for the frail elderly: A review of widespread problems and best
16 practices. *Geriatric Nursing*, 23, 189-199.
- 17 ² *Oral Health in America: A Report of the Surgeon General*, National Institute of Dental and Craniofacial Research,
18 National Institutes of Health, Bethesda, MD. Online, Available at: www.nidr.nih.gov/sgr/execsumm.htm
- 19 ³ Administration on Aging. Profile of Older Americans: 2000.
- 20 ⁴ Strayer M. Consensus Conference on practical guidelines for institutionalized older dental patients. *Spec. Care Dent*,
21 16:141-2, 1996.
- 22 ⁵ *Aging America Poses Unprecedented Challenges, Says New Census, Aging Institute Report*, Available at
23 www.nih.gov/nia/new/press/census.htm
- 24 ⁶ Burt BA, *Influences for change in the dental health status of populations: an historical perspective*, *Journal of Public*
25 *Health Dentistry*, 38(4):272-88(1978 Fall).
- 26 ⁷ Ettinger RL, *The unique oral needs of an aging population*, *Dental Clinics of North America* 41(4):633-49 (1997 Oct).
- 27 ⁸ Berkey D., Berg R, *Geriatric Oral Health Issues in the United States*, *International Dental Journal* 51(3 Suppl):254-64
28 (2001 Jun).
- 29 ⁹ Slavkin, HC, *Maturity and oral health: live longer and better*, *Journal of American Dental Association*, 131(6):805-8
30 (2000 Jun).
- 31 ¹⁰ NIA News Release, *Aging America Poses Unprecedented Challenge*, [www.nia.nih.gov/news/pr/1996/05-](http://www.nia.nih.gov/news/pr/1996/05-20.htm)
32 [20.htm](http://www.nia.nih.gov/news/pr/1996/05-20.htm)(May, 1999).
- 33 ¹¹ National Center for Health Statistics , US Department of Health and Human Services. *Changing Mortality Patterns.*
34 *Health Services utilization and health care expenditures: US 1978-2003, analytical and epidemiological studies series*
35 3, 1993;23(PHS PUB):83-1407.
- 36 ¹² See n. 11
- 37 ¹³ Beck, JD., Watkins, C., *Epidemiology of non-dental oral disease in the elderly*, [Review] *Clinics in Geriatric Medicine*
38 8(3):447-59 (1992 Aug).
- 39 ¹⁴ Burt BA, *Epidemiology of dental diseases in the elderly*, [Review] *Clinics in Geriatric Medicine*, 8(3):447-59 (1992
40 Aug).
- 41 ¹⁵ Lewis IK, Hanlon JT, Hobbins MJ, Beck JD, *Use of medications with potential oral adverse drug reactions in*
42 *community-dwelling elderly*, *Special Care in Dentistry*. 13(4):171-6 (1993 Jul-Aug).
- 43 ¹⁶ Meskin LH, Dillenberg J, Heft MW, Katz RV, Martens LV, *Economic impact of dental services utilization by older*
44 *adults*, *Journal of the American Dental Association* 120(6):665-8(1990 Jun).
- 45 ¹⁷ White BA., *An overview of oral health status, resources and care delivery*, [Review] *Journal of Dental Education*
46 58(4):285-90 (1994 Apr).
- 47 ¹⁸ Ettinger, RL. Watkins, C. Cowen, H., *Reflections on changes in geriatric dentistry*, *Journal of Dental Education*
48 64(10):715-22 (2000 Oct.).

1¹⁹ Kambhu PP, Warren JJ, Hand JS, et al. *Dental treatment outcomes among dentate nursing facility residents: an*
2 *initial study*. Spec Care Dent. 1998;18:128-132.

3²⁰ Warren JJ, Kambhu PP, Hand JS, . *Factors related to acceptance of dental treatment services in a nursing home*
4 *population*. Spec Care Dent. 1994;14:15-20.

5²¹ National Nursing Home Survey 1999. Selected characteristics of homes, beds and residents. Table 3. Division of
6 Data Services, National Center for Health Statistics, Centers for Disease Control and Prevention, U.S. Department of
7 Health and Human Services. ftp.cdc.gov/pub/Health_Statistics/NCHS/Datasets/nhhs/nhhs99/.

8²² Facts and Trends: The Nursing Facility Sourcebook 2001. American Health Care Association. 2001.
9 www.ahca.org/research/nfs/nfs2001.pdf.

10²³ The looming crisis: 15 key questions about long term care. American Health Care Association. 1998.
11 www.ahca.org/secure/top15.htm.

12²⁴ see n. 20

13²⁵ Council on Access, Prevention and Interprofessional Relations. *Providing Dental Care in Long-term Care Facilities:*
14 *A Resource Manual*. Chicago, IL: American Dental Association; 1997.

15²⁶ See n. 23

16²⁷ Vargas CM, Kramarow EA, Yellowitz JA. *The Oral Health of Older Americans*. *Aging Trends*; No. 3. Hyattsville, MD:
17 National Center for Health Statistics; 2001.

18²⁸ see n. 23

19²⁹ see n. 25

20³⁰ see n. 23

21³¹ Weintraub J, Burt B. *Oral health status in the United States: tooth loss and edentulism*. J Dent Educ 1985; 49:368-
22 76.

23³² Douglass CW, Jette AM, Fox CH, Tennstedt SL, Joshi A, Feldman HA, McGuire SM, McKinlay JB. *Oral health status*
24 *of the elderly in New England*. J Geront 1993;48:M39-M46.

25³³ See n. 32

26³⁴ Berkey DB, Berg RG, Ettinger RL, Meskin LH. *Research review of oral health status and service use among*
27 *institutionalized older adults in the United States and Canada*. Spec Care Dentist 1991;11:131-6.

28³⁵ Kington R, Rogowski J, Lillard L. *Dental Expenditures and insurance coverage among older adults*. Gerodontol
29 1995;35:463-43.

30³⁶ Bloom B, Gift HC, Jack SS. *Dental services and oral health care: United States, 1989*. National Center for Health
31 Statistics Health Survey, Vital Health Statistics Series 10, No. 183. Hyattsville, MD: Public Health Service; 1992.

32³⁷ Dolan T, Atchison K. *Implications of access, utilization and need for oral health care by the non-institutionalized and*
33 *institutionalized elderly on the dental delivery system*. J Dent Educ 57:876-87, 1993.

34³⁸ Limeback H. *Implications of oral infections on systemic diseases in the institutionalized elderly with a special focus*
35 *on pneumonia*. Ann Periodontol 3:262-75,1998.

36³⁹ Loesche WJ, Schork A, Terpenning MS, et al. *Assessing the relationship between dental disease and coronary heart*
37 *disease in the elderly U.S. veterans*. J Am Dent Assoc 129:301-11,1998.

38⁴⁰ Meurman JH. *Dental infections and general health*. Quintessence Int 28:807-11, 1997.

39⁴¹ Shay K. *Dental management considerations for institutionalized geriatric patients*. J Prosthet Dent 72:510-6, 1994.

40⁴² Kayser-Jones J, Bird W, Redford M, et al. *Strategies for conducting dental examinations among cognitively impaired*
41 *nursing home residents*. Spec Care Dent 16:46-52, 1996. 43¹ See n. 37

42⁴³ See n. 37

43⁴⁴ See n. 42

44⁴⁵ Henry R, Ceridan B. *Delivering dental care to nursing home and homebound patients*. Dent Clin North Am 38:537-
45 51, 1994.

FEDERAL REGULATIONS FOR NURSING HOME CARE

48 Routine dental services for nursing home residents are mandated by federal law. Under
49 CFR Title 42, Chapter IV, §483.55, nursing home facilities must provide 1) routine dental services

1 and, 2) emergency dental services. These facilities must also make appointments, including
2 making arrangements for transportation of the resident to and from the dental office.

3 Under Chapter IV, §483.15 (g) Social Services, the facility must provide medically-related
4 social services to attain or maintain the highest practicable physical, mental and psychological well-
5 being of each resident.

6 Based on the interpretation of the law, routine dental services means an annual inspection
7 of the oral cavity for signs of disease, diagnosis of dental disease, dental radiographs as needed,
8 dental cleaning, fillings, minor denture adjustments, smoothing of broken teeth and dentures.
9 Emergency dental services would include relief of pain and infection in the teeth, gums, palate;
10 repair of damaged teeth; or any other problem of the oral cavity by a dentist that requires
11 immediate attention. In the case of lost or damaged dentures, the facility will promptly refer the
12 resident to a dentist for appropriate dental treatment.

13 **PROVIDING CARE FOR THE VULNERABLE ELDERLY**

14 **Overview**

15 It is difficult to comprehend what is ahead for the vulnerable elderly in terms of needed
16 dental treatment. The American Dental Association defines these individuals as those over 65 who
17 have either limited financial resources, limited mobility, or present with a complex health status or
18 are medically compromised. Florida has considerably more elderly than the national average:
19 17.6% compared to 12.4% nationally. Couple that with the fact that Florida is second only to
20 California in the number of residents in nursing homes and long term care facilities and one can
21 see why it has become increasingly difficult to comply with all state and federal guidelines related
22 to oral health care for these residents.

1 In 2000, there were 35 million Americans over age 65 – 12.5% of the population of which
2 4.5 % or 1.75 million were residents of nursing homes. By 2030, one out of every five Americans
3 will be older than 65 and projections show that this segment of the population will double to 70
4 million with the number of residents in nursing homes increasing to 3.4 million. Taking it a step
5 further, the Federal Interagency Forum on Aging Related Statistics, 2006 projects that by 2050
6 there will be over 90 million persons age 65 and older (20.7% of the population) of which 20 million
7 will be 85 and older. Life expectancy rates increased from 70 to 76 years of age between 1960 –
8 2004 and today it is even higher. Needless to say, the elderly population is growing by leaps and
9 bounds, and these individuals are retaining their teeth longer and have more oral health problems
10 that make treatment increasingly difficult and complex.

11 The Department of Elder Affairs oral health objectives are to promote the development of a
12 comprehensive oral health program to reduce dental diseases including dental caries, periodontal
13 diseases and oral cancer; to reduce associated risks of diseases that are showing interrelatedness
14 to periodontitis and to increase access to dental care for low-income adults with special needs. The
15 long term spectrum includes those facilities that serve residents with special needs such as mental
16 retardation, autism, cerebral palsy and epilepsy; nursing homes and assisted living facilities which
17 were developed in the late 1980's as a new housing and service model with the philosophy that
18 promotes autonomy and decision making. These facilities are generally smaller than nursing
19 homes and residents have private apartments and bathrooms.

20 Long term care facilities must provide healthcare services to their residents in compliance
21 with federal and state guidelines as previously mentioned. These include: implementing OBRA, the
22 Omnibus Reconciliation Act of 1987, which requires that each resident receive a comprehensive
23 oral health assessment within 14 days of admission and annually thereafter, as well as a

1 comprehensive oral health plan and that oral hygiene be made available to residents unable to
2 carry out their activities of daily living (ADL's); complying with QIS, the quality index indicator
3 survey, which is a survey including oral health of residents, caregivers and staff to determine
4 levels of care against national standards; meet State of Florida standards (audits); and meet
5 federal standards for Centers for Medicare and Medicaid Services (CMS). QIS has a national
6 implementation goal by 2010, and deficiencies can lead to fines by CMS.

7 Federal regulations regarding dental care for residents in long term care facilities are
8 clearly spelled out in the following statutes: 42 CFR, Chapter 483.20: provide, if a resident is
9 unable to carry out activities of daily living, the necessary services to maintain good nutrition,
10 grooming and personal and oral hygiene; and 42 CFR, Chapter 483.55: aid residents to obtain
11 routine and 24 hour emergency dental care by assisting with appointments and transportation (per
12 private insurance or Medicaid coverage). Additionally Florida Regulation 400.002 (c) states that
13 any entity or individual that provides health, social, legal or other services to a resident has the
14 right to have reasonable access to the resident. The resident has the right to deny or withdraw
15 consent to access at any time by any entity or individual.

16 The delivery of dental services in long term care facilities includes the following: Florida
17 licensed dentist through contract service to facility or patient of record; dental student extramural
18 program from the University of Florida College of Dentistry or Nova Southeastern University
19 College of Dental Medicine; Florida Registered Dental Hygienist through patient of record (dentist
20 prescription), contract service company employee, or general supervision tasks; and facility staff
21 including CNA, LPN and RN among others. The use of allied personnel such as Registered Dental
22 Hygienists (RDH) is critical to meeting the level of dental care spelled out in Federal and State
23 regulations. RDH's are currently limited to providing services to employer Dentists patients of

1 record under a prescription order that is good for 13 months following a dental exam to include:
2 basic oral hygiene and educational programs, prophylaxis or teeth cleaning, fluoride treatments
3 and dental charting of suspected findings in the oral cavity. Regarding the use of non-dental
4 professionals such as CNA, LPN and RN's in rendering dental treatment, Geriatric Nursing, 2006,
5 stated that these individuals outlook on the provision of oral health care was burdensome,
6 unrewarding, problematic and trivial.

7 With the introduction of the MDS 3.0 in October of 2010, nursing facilities began seeing more
8 scrutiny in the survey process with specific attention to HCFA F Tag-411 & F412, which requires
9 all nursing home residents receive routine dental care. Historically, surveyors did not focus on
10 dental care however, with MDS 3.0 that will hopefully change to help assure nursing facility
11 residents are receiving the level of dental care services they deserve.

12

13 **Apple Tree Program**

14 The "Gold Standard" of dental care for the vulnerable elderly is Apple Tree Dental in
15 Minnesota. They have been providing care since 1986 to more than 100 sites in central,
16 southeastern and northwestern Minnesota in nursing homes, group homes, Head Start Centers,
17 schools and assisted living facilities. Their goal is to provide on-site dental services that are
18 appropriate, necessary and cost-effective. Apple Tree Dentists believe that one of the keys in
19 rendering this dental care most effectively to patients in nursing homes and similar facilities is to
20 bring the treatment to them. Familiar surroundings comfort patients and make them more
21 amenable to accepting the necessary dental care they need, and treatment outcomes are therefore
22 enhanced, especially with cognitive-impaired patients. It is important to treat these patients in an
23 environment that lets them feel safe and secure. Dental Teams travel to one "satellite site" each

1 day with a dentist and two assistants. Apple Tree's Multi-site delivery vehicles deliver the portable
2 dental equipment into the facility and a complete dental office is set up. The Dentist Teams provide
3 comprehensive dental services such as check-ups, cleanings, restorations, root canals and
4 extractions. At the end of the day equipment is picked up and delivered to another site. Denture
5 Dentists travel to several sites each day also. They make impressions for new dentures, relines
6 and repairs. Making new dentures generally takes four to six weeks. Denture repairs usually take
7 three or four days, with special rush services available.

8 Apple Tree has recently added a new service to include more emphasis on prevention in
9 response to new federal and state initiatives to improve oral health. This program is called the
10 Dental Director Program and the following services are provided: oral health screenings for each
11 resident; establish daily oral health care plans; train facility staff regarding oral health issues; and
12 establish oral health care policies and procedures to comply with regulations. Because of the
13 "upstream" prevention program, nursing home residents enjoy the benefits of earlier identification
14 and treatment of oral disease. Good oral health can lead to improved self-image, taste perception,
15 enjoyment of food and social interaction.

16 For Apple Tree's nursing home sites, the Dental Director Program is a part of the
17 Comprehensive Care services. A Dental Professional Screener (Hygienist or Dental Assistant)
18 visits the facility monthly to assist with the oral screenings section of the Minimum Data Set (MDS)
19 and establish daily oral care plans for all residents of the facility. Dr. Michael Helgeson, President
20 and CEO, states that Apple Tree has an annual budget of over 10 million dollars which includes
21 grants, private pay, dental insurance and Medicaid payments among others.

22 Apple Tree has a long history of helping others utilize the Apple Tree Model delivery
23 system for oral health care in other states across the country. Over the years, Apple Tree has

1 designed and implemented a mobile system that includes mobile dental offices, a delivery truck
2 system and an integrated software system for scheduling, record keeping and billing. The Apple
3 Tree Model has been replicated in North Carolina and Louisiana very successfully to date.
4 If the proper funding existed, the Apple Tree Model could be extremely successful in Florida.

5

6 **Utilization of Dental Hygienists**

7 It is commonly recognized that oral health services must be made more accessible,
8 particularly for vulnerable elderly. The results of not receiving timely preventive and treatment
9 services are dramatic and can be devastating to overall health. Providing preventive oral health
10 services to all sectors of society ensures a healthier, more productive population.

11 It is important to make preventive dental services provided by educationally qualified,
12 licensed providers easily accessible to Floridians. Dental Hygiene is the science and practice of
13 the recognition, treatment and prevention of oral diseases. Dental hygienists are required to
14 graduate from an accredited dental hygiene program that is at least two years in length. Many are
15 surprised to learn that the dental hygiene associate degree education is 88 college credit hours
16 compared to the 72 college credit hours of nursing associate degree education.¹ The dental
17 hygiene curriculum encompasses general education, biomedical sciences, dental sciences, and
18 dental hygiene sciences. According to the accreditation standards for dental hygiene education
19 programs, these subjects prepare dental hygiene students to communicate effectively, assume
20 responsibility for individual oral health counseling, develop and participate in community health
21 programs, and provide dental hygiene care for the child, adolescent, adult, geriatric and special
22 needs patient.²

1 Graduation from an accredited program is followed by successful completion of the
2 National Board Dental Hygiene Examination. This qualifies graduates to take a state or regional
3 licensing examination that includes both a written and clinical component. Dental hygienists must
4 be licensed in the state in which they work and must practice in accordance with regulatory laws
5 and state practice acts.³ Florida requires dental hygienists to pass a written examination on the
6 laws covering dentistry and a clinical examination in which the candidate demonstrates
7 competency in a specified list of skills. Applicants must be at least 18 years old and meet
8 educational requirements. In addition they must complete from 24 to 36 hours of continuing
9 education every two years in subjects designed to contribute to the dental education of the
10 hygienist.

11 In Florida, state laws and rules prohibit direct access to a registered dental hygienist
12 (RDH). Preventive services are currently provided by the RDH under the general supervision of a
13 dentist with the exception of fluoride varnish application which can be performed without dental
14 supervision. General supervision in our state requires that a Florida licensed dentist examine the
15 patient, diagnose a condition to be treated and authorize the procedure to be performed. Any
16 authorization for remediable tasks to be performed under general supervision is valid for a
17 maximum of 13 months; after which no further treatment is permitted without another clinical exam
18 by the dentist (466.003(12), F.S. & Rule 64B5-16.001 (7), Fla. Admin. Code). However, in many
19 states general supervision does not require a prior examination of a dentist.

20 The current model of oral health care is based on private practice which is not accessible,
21 affordable or valued by those who are underserved, uninsured or have no access to care.⁴ 64 of
22 Florida's 67 counties include groups of communities that have been designated as Dental Health
23 Professional Shortage Areas.⁵ This means the people living in these communities have to travel

1 long distances to access the care they need to stay healthy. The number of general dentists
2 practicing in the United States relative to the population has continued to decline since the 1990's.⁴
3 In addition, the number of dentists in Florida that accept Medicaid is very low reporting at 9%. The
4 dental hygiene workforce is already greater in number than the dental workforce in Florida.⁶

5 Innovative states have been able to design programs that connect communities with the
6 preventive oral health care needed to stay healthy. Thirty-one states provide direct access to
7 dental hygiene services. Direct access means the dental hygienist can initiate treatment without the
8 specific authorization of a dentist, treat the patient without the presence of a dentist, and can
9 maintain a provider-patient relationship. The laws and rules in each state are individually unique in
10 defining the process that is required to achieve direct access to preventive services provided by a
11 dental hygienist.⁷

12 Progress is being made in Florida to consider how to best utilize the existing dental
13 hygiene workforce. In January 2008, the State Surgeon General established the Florida Health
14 Practitioner Oral Healthcare Workforce Ad Hoc Committee which made recommendations to the
15 Governor's office to investigate policy reform that would expand the scope of practice and eliminate
16 or reduce supervisory requirements for dental hygienists practicing in health access settings in
17 order to improve access to dental care.⁸ In August 2008, the Health Resources and Services
18 Administration (HRSA) awarded the Florida Department of Health's Public Health Dental Program
19 a grant to develop a statewide needs assessment and a strategic planning report to be used to
20 improve the state's dental workforce and service delivery infrastructure for the underserved. The
21 strategic plan included regulatory and legislative reform to reduce supervision levels of dental
22 hygienists in health access settings.⁹ Currently, the third generation of the workforce workgroup
23 has been convened to continue the work of the two previous groups. The Florida Board of

1 Dentistry is in the process of promulgating rules to address the current workforce needs.¹⁰ In
2 addition, the Florida Dental Association and the Florida Dental Hygiene Association are working
3 together to develop legislative language for the 2011 legislative session.

4 Now, the question is how to best provide dental hygiene services to Florida's vulnerable
5 elderly in facilities of long term care, assisted living, nursing homes and senior centers. To date,
6 discussion has evolved around health access settings as defined in s. 466.003 (14), F.S. which
7 includes federally qualified health centers (FQHC), FQHC look-alikes as defined by federal law,
8 and community health centers, but is not inclusive of all long term care, assisted living, nursing
9 homes and seniors centers.

10 One answer might be to explore a collaborative agreement/affiliation between a Florida
11 licensed dentist and a Florida licensed dental hygienist to provide preventive services to seniors in
12 facilities of long term care, assisted living, nursing homes and senior centers. The collaborative
13 agreement/affiliation would authorize specific dental hygiene services without the prior examination
14 or presence of a dentist in specific locations. The agreement/affiliation should establish a specific
15 protocol which could include:

- 16 1. Name of dentist and dental hygienist
- 17 2. Standing order for specific dental hygiene services
- 18 3. Location
- 19 4. Dentist available for consultation
- 20 5. Dental Referral process outlined

21 As mentioned earlier, thirty-one states provide direct access to dental hygiene services.
22 Each state customizes the details of how this authority is outlined in the laws and regulations of the
23 state.

1 Oral disease is almost entirely preventable. Utilize our prevention specialists, the existing
2 dental hygiene workforce, to help solve this problem efficiently and cost-effectively. In fact, for
3 every dollar spent on the type of preventive care provided by dental hygienists, between \$8 and
4 \$50 are saved in restorative and emergency treatment services.¹¹ Ensuring regular access to and
5 coverage for preventive care can diminish the need for more costly restorative and emergency
6 care, saving valuable health care dollars in the long-run.¹²

7 The Surgeon General's 2000 report on oral health in America noted that the development
8 of systemic disease is strongly associated with an overabundance of bacteria and inflammation in
9 the oral cavity. The oral cavity has long been considered a potential reservoir for respiratory
10 pathogens. Several anaerobic bacteria from the periodontal pocket have been isolated from
11 infected lungs. In elderly patients living in chronic care facilities, the colonization of dental plaque
12 by pulmonary pathogens is frequent. Notably, the overreaction of the inflammatory process that
13 leads to destruction of connective tissue is present in both periodontal disease and emphysema.
14 This overreaction may explain the association between periodontal disease and chronic obstructive
15 pulmonary disease, the fourth leading cause of death in the United States. These findings
16 underline the necessity for improving oral hygiene among patients who are at risk and those living
17 in long-term institutions.

18 Dental hygiene in public health is an expanding field, and according to the U.S. Bureau of
19 Labor Statistics (www.bls.gov), dental hygienists' employment is expected to increase by 36% from
20 2008 to 2018, much faster than average for all occupations. The delivery of modern health care
21 depends on an expanding group of trained [professionals](#) coming together as an [interdisciplinary](#)
22 [team](#). The focus of public health intervention is to prevent rather than treat a disease through
23 [surveillance](#) of cases and the promotion of healthy behaviors.

1 At present, MDS Sections K (Oral/ Nutritional Status) and L (Oral/Dental Status) require an
2 oral health assessment, including a decision on whether a resident is able to perform his/her own
3 oral hygiene regimen without assistance. If not, a care plan must be developed to have it done.
4 Quality of life suffers when oral disease is present because of the resulting pain, speech limitations,
5 reduced sense of taste, increased chewing complications, low self-esteem, and reduced
6 socialization.

7 Aides are trained to assist and/or monitor a resident's oral hygiene and dedicated to
8 providing good care. However they are not always comfortable with this service. A poorly cared
9 for mouth can be intimidating and repulsive. Consequently, oral care, may be addressed, but is not
10 necessarily being provided correctly or confidently in the nursing home. By enlisting the services
11 of a registered dental hygienist as an oral health liaison for the facility, the outcome can greatly
12 improve.

13 These services can help make up for an important gap in third-party reimbursement.
14 Medicare does not cover routine dental care, and coverage is optional for individual state Medicaid
15 programs. In Florida where dental care is reimbursed, Medicaid covers the cost. A growing
16 number of facilities are enlisting the services of these oral health practitioners.
17 Florida's Dental Practice Act was adopted to establish standards for dentists and dental hygienists
18 practicing in the state. Laws vary greatly from state to state.

19 Once licensed the dental hygienist may perform remediable tasks under general
20 supervision within the limits of her license, allowing her to provide certain dental services in skilled
21 nursing facilities without being accompanied by the dentist. Dental Hygienist are trained to visually
22 inspect all oral tissue to include the lips, tongue, cheeks, palate, and floor of mouth for anything
23 suspicious every time they enter the oral cavity. Early detection of oral cancer is often possible.

1 Tissue changes in the mouth that might signal the beginnings of cancer often can be seen and felt
2 easily. The need for a biopsy may be determined. A thorough head and neck examination should
3 be a routine part of each patient's dental examination. With resident's residing in long term care
4 facilities, clinicians should be particularly vigilant in checking those who use tobacco. Tobacco use
5 increases the risk of oral cancer. Initial dental screening determines the need and resident
6 acceptance of professional dental care. A visual examination is done to identify any abnormalities
7 around the face or head, any suspicious lesions in the oral cavity, and the presence of dental
8 disease, plaque and calculus.

9 Comprehensive oral evaluation includes full mouth x-rays and determines the severity of
10 disease. The goal is to obtain an individual radiographic picture of every tooth. This will show
11 bone loss, level of decay, calculus below the gingival margin, and any abnormal periapical changes
12 at the tooth's root tip. The x-rays are accessible only to the point a resident can tolerate the
13 procedure. This appointment is done with the Dentist to determine the diagnosis of an appropriate
14 treatment plan for the Dental Hygienist to provide the patient. The dentist will examine the medical
15 records to access the need for any premedication, consult with the physician about anticoagulant
16 therapy, allergies, and any other condition that may be a deciding factor as to treatment in restoring
17 the residents' dental health. At this time the dentist can determine which products the hygienist will
18 use to best treat the resident needs. These products may include, MI Paste, Fluoride Varnish,
19 Fluoride Rinse, Antimicrobial Rinse, and Xylitol products, all based on individual resident needs.
20 The ingredients found in many of the fluorides, varnishes and Xylitol products are designed to
21 promote salivary flow, decrease sensitivity, and slow down the bacterial growth in the oral cavity.
22 Healthy saliva contains the minerals needed for healthy teeth: Calcium, phosphorus, and fluoride
23 are the minerals needed to maintain healthy teeth; these minerals can be found in healthy saliva.

1 After a thorough comprehensive examination by the dentist, the hygienist should start the
2 mechanical removal of the harmful plaque, calculus and free floating bacteria that results in dental
3 disease. The hygienist may use a combination of hand and ultrasonic instrumentation. This may
4 take several appointments. The resident's tolerance and comfort are taken into consideration when
5 determining the extent and duration of the visit. If the resident wears any removable prosthesis,
6 the appliance should be removed each visit and ultrasonically cleaned to remove the same harmful
7 bacteria that contributes to dental disease on natural teeth. Dentures and/or partials are a
8 breeding ground for toxic bacteria that when swallowed can lead to pneumonia, cardiovascular
9 disease, pancreatic cancer and several other systemic conditions that are serious concerns for the
10 older immuno-compromised patient.

11 Polishing with a rotary instrument is effective in removing stain, and smoothing the enamel
12 surfaces of the teeth. A rotary instrument may also be used for application of MI Paste, Fluoride
13 gels and other oral infection control products.

14 Oral Hygiene Instruction should be reviewed with the residents continuously.
15 Demonstration of effective techniques for using adjunctive products should also be given to the
16 residents and their direct care providers to help ensure compliance in daily care.
17 In an effort to stop the progression of periodontal disease the hygienist should visit the resident on
18 a routine bases to remove any bacterial accumulation, check tissue for bleeding with the use of a
19 probe, and reapply infection control products. Harmful bacteria can begin to colonize in 24 hours
20 and by 30 days in enough numbers to produce disease.

21 In-Service training for the staff at regular intervals is imperative. Historically there has
22 been a high turnover rate of staff within skilled nursing facilities. Because of this turnover,
23 particularly among direct care staff, it is imperative that the hygienist consistently provide staff with

1 in-service training relevant to the goal of patient care. In-Services are defined as direct care
2 personnel meeting with the hygienist to review clinical or operational programs. Direct care
3 personnel are CNA, RN, or a provider of another specialty. One of the most efficient ways to
4 foster good relationships with the care staff is to provide useful and relevant in-service training.
5 This is an excellent opportunity to explain and have a better understanding of the importance and
6 the clinical benefits of a dental hygiene program. The goal is to motivate them to help residents
7 with daily compliance, and educate them in their thinking about the harmful effects of bacteria in
8 the mouth. Many have never considered it as wound care, and that debris left in the mouth
9 harbors e-coli, s. pneumonia, and h. influenza. The idea that they may be growing out a culture
10 ready for aspiration is nowhere in their mind. That is understandable, they are not dental
11 professionals.

12 Regular consistent communication with the family is important for the hygienist to
13 establish. As a professional relationship develops with the resident, it should also evolve with the
14 family. The hygienist may want to provide contact information, and assure the families that their
15 input is welcome and valued.

16 Oral prevention care programs should be designed to mitigate the long term effects from
17 the lack of regular oral hygiene treatment, reducing disease and infection. It is a dental solution to
18 a medical problem.

Footnotes:

¹ Florida Department of Education, 2010-11 Health Science Career Cluster Frameworks, Degree and Certificate Programs/Courses, Dental Hygiene, Nursing.
(http://www.fldoe.org/Workforce/dwdframe/heal_cluster_frame09.asp)

² Commission on Dental Accreditation, American Dental Association, *Accreditation Standards for Dental Hygiene Education Programs, 2007*.
(<http://www.ada.org/sections/educationAndCareers/pdfs/dh.pdf>)

³ American Dental Hygienists' Association, *Standards For Clinical Dental Hygiene Practice, 2008*;
(http://www.adha.org/downloads/adha_standards08.pdf)

- 1 ⁴ B. Mertz and E. O'Neill, "The Growing Challenge of Providing Oral Health Services to All Americans," *Health Affairs*,
2 21.no. 5 (2002).
3 (<http://www.allhealth.org/briefingmaterials/ha-challengeoforalhealthcareprovision-1272.pdf>)
4 ⁵ US Department of Health and Human Services, Health Resources and Services Administration.
5 (<http://hpsafind.hrsa.gov/HPSASearch.aspx>)
6 ⁶ The Division of Medical and Quality Assurance, Annual Report, July 1, 2008-June 30, 2009, page 19.
7 (<http://www.doh.state.fl.us/mqa/Publications/08-09mqa-ar.pdf>)
8 ⁷ American Dental Hygienists' Association, *Direct Access States*, June 2010.
9 (http://www.adha.org/governmental_affairs/downloads/direct_access.pdf)
10 ⁸ Florida Department of Health. *Florida Department of Health: Health Practitioner Oral Healthcare Workforce Ad Hoc*
11 *Committee Report*. Tallahassee, FL: Florida Department of Health; February 2009
12 ⁹ Florida Department of Health. *Florida Oral Health Workforce Workgroup Report 2009*. Tallahassee, FL: Florida
13 Department of Health; December 2009.
14 ¹⁰ Florida Department of Health. Board of Dentistry General Business Meeting Minutes 10-30-2009, p.12.
15 (http://www.doh.state.fl.us/mqa/dentistry/min_10-30-09.pdf)
16 ¹¹ The Academy of General Dentistry, Health Insurance Underwriter, June 2004 article in "Employee Benefit Plan
17 Review" by Dr. James Gimarelli — As quoted by John R. Stoner in "A Voluntary Dental Plan vs. No Dental Plan" in
18 *Health Insurance Underwriter*, June 2005, p 13.
19 ¹² American Dental Hygienists' Association, *Statement on Health Reform*, 2010;
20 (http://www.adha.org/downloads/ADHA_Health_Reform_Statement.pdf)
21

22

23 PROVIDING DENTAL CARE SERVICES IN LTC SETTINGS

24 Portable Dental Equipment

25 There is an ever-increasing need to provide oral health care to populations that have
26 difficulty gaining access to the traditional dental care delivery system. These groups include a
27 variety of people with special needs such as those who reside in residential facilities or are
28 homebound, people who live in isolated areas or where there are no dental offices or children who
29 don't have regular access to preventive services. Developments in mobile/portable dental system
30 technologies have produced a variety of effective options for dental professionals to serve people
31 outside a traditional fixed location dental office or clinic.

32 Portable equipment is used to provide oral health services, especially preventive services,
33 to specific population groups or persons who cannot easily access a fixed facility or mobile clinic,
34 e.g., someone who is homebound or in a residential care facility. In recent years, the quality and
35 portability of dental equipment has improved dramatically such that most routine dental procedures

1 required by the nursing home population can indeed be provided on site, without lose of comfort for
2 the resident nor productivity for the dental provider. Portable equipment allows for a great deal of
3 mobility, taking services to patients in their own community or setting. It is relatively inexpensive to
4 purchase, does not require special utilities or construction to operate, is easily transported by car or
5 other vehicle, and is quick to set up and take down.

6 Portable dental equipment ranges from units under 60lbs., mid-range units up to 100lbs.
7 and self-contained (water/air sources and waste collection) units and carts. Determining the type of
8 portable equipment to use should be based on:

- 9 • The physical environment of the site (e.g., space considerations and
10 electric/water availability)
- 11 • The range of dental procedures that will be provided
- 12 • The size and weight of equipment based on the capability of the staff that
13 will transport and set-up equipment
- 14 • Cost

15 Portable systems are generally characterized as being smaller and more
16 compartmentalized than mobile vehicle systems. Ease of transportability, time efficiencies, and
17 relative lower equipment and overhead costs may represent substantial advantages when
18 considering a portable system over a mobile van. Portable equipment provides flexibility to
19 assemble varying configurations to provide a separate mix of services such as:

- 20 • Dental screenings/examinations
- 21 • Preventive procedures such as dental sealants or dental hygiene
22 treatment
- 23 • Denture care

- 1 • Restorative care
- 2 • Oral surgery

3
4
5

6 **Mobile Dental Unit**

7 A mobile dental facility is used primarily when oral health care is to be delivered to small
8 pockets of patients that are scattered over a specific geographic area. The mobile clinic generally
9 is parked at a facility such as a school, residential facility or community center.

10 Mobile clinics can be either:

- 11 • A self-contained motorized van driven by clinic staff or a hired driver to
12 different locations
- 13 • A trailer that is hauled or towed by a truck to a location

14 Although the initial cost is not as much as a fixed facility, maintenance costs are higher.
15 This is especially true for a motorized van due to maintenance of the drive train. Useful life is
16 shorter than a fixed facility. Both units require utility, water and sewage connections at each
17 location where used. In cold weather, precautions must be taken to prevent freezing of the water
18 lines.

19 A van or trailer may consist of one or more operatories, depending on the size. Equipment
20 can be traditional dental equipment found in a fixed clinic facility or portable equipment. The use of
21 portable equipment can allow for multiple program uses of the van (e.g., dental care and
22 immunization clinics). Vans and trailers provide climate control for a comfortable work

1 environment. Most offer utility service attachments which allow on-site hookup. Additional
2 considerations may be:

- 3 • Generator on board to provide electricity
- 4 • Telephone/computer hookup
- 5 • Wheelchair lift

6 Services using a mobile vehicle or portable equipment can be provided as a private
7 practice or an extension to a private practice, or using various public health models.

8 Mobile/portable dental systems can serve as dental "safety net" programs for people who lack the
9 resources to acquire those services on their own. Safety net programs usually are administered by
10 agencies such as community health centers, dental schools, hospitals, non-profit associations or
11 health departments. Public health approaches lend themselves to providing services in settings
12 such as schools, Head Start centers, senior centers or homeless shelters.

13 **FUNDING FOR DENTAL CARE FOR LTC RESIDENTS**

14 Prior to 2009, dental care provided in long-term care facilities was funded by fee-for-
15 service, dental insurance plans, the Medicaid adult dental program and to some extent Medicare
16 Advantage Plans. In the last two years, private dental insurance plans for nursing home residents
17 funded by Medicaid Unreimbursed Medical Expense Deductions (UMED) received authority to
18 operate in Florida by the office of insurance regulation.

19 Under the fee-for-service payment method the resident pays the dentist directly for oral
20 health care services provided in a private office or LTC facility using portable or mobile equipment.
21 This method of payment is usually cash or credit card or if the person has a Flexible Spending
22 Account (FSA), Health Savings Account (HSA) or Health Reimbursement Arrangement (HRA) the
23 fee for service can be funded through these consumer-driven health plan models.

1 A second method of reimbursement is from an individual or group dental plan. An
2 insurance carrier or third party administrator pays the plans portion of the dental coverage and the
3 resident pays any co-insurance or co-payment to cover the dentist's fee in full. Florida group plans
4 are usually offered as traditional indemnity products, Preferred Provider Organizations (PPOs),
5 Dental Health Maintenance Organizations (DHMOs), and Prepaid Limited Health Service
6 Organizations (PLHSOs).

7 The American Association of Retired Persons provides the major individual issue dental
8 insurance plan for its members administered by Delta Dental Insurance Company. It is a dental
9 PPO which gives the patient the freedom to choose a licensed dentist from a large provider
10 network offering care at a reduced fee or use a non-network dentist and pay a higher fee.

11 Nursing home residents can also purchase dental care coverage from dental referral
12 plans, commonly referred to as discount dental plans, by joining and paying a membership fee.
13 These types of plans are not insurance. These types of plans provide highly reduced fees for
14 certain advertised procedures for members who choose from a list of participating dentists who
15 agree to only charge the advertised fees. This plan does not make payments directly to the
16 providers of the services. The plan member is obligated to pay for all dental services but will
17 receive the advertised discount from the participating dentist who contracts with the referral plan
18 organization.

19 Referral plans also do not have any annual limits, nor do they carry any deductibles.
20 Instead, enrollees pay a low membership fee per month and when they need dental services go to
21 a participating dentist, present an ID card and pay the reduced fee-for-service.

1 If the person is eligible, there are limited dental services available for adults under the
2 Medicaid dental plan. These services would include emergency care and oral surgery procedures
3 leading up to the placement of a full or partial denture. Reimbursable dental services for adults are
4 limited to emergency services rendered to alleviate pain or infection:

- 5 • Problem-focused oral exam;
- 6 • Necessary radiographs to make a diagnosis;
- 7 • Extractions;
- 8 • Incision and drainage of an abscess; and
- 9 • One set of dentures

10 Medicaid eligibility in Florida is determined either by the Department of Children and Families
11 (DCF) or the Social Security Administration (for SSI recipients).

12 On Jan 1, 2004 the Agency for Health Care Administration (AHCA) amended the Medicaid
13 state plan allowing ICP Medicaid recipient's a deduction in the calculation of patient responsibility
14 for medical/remedial care expenses an individual incurs that are not subject to payment by a third
15 party. The expenses are deducted only after allowing for the individuals own personal needs. The
16 expenses for medical services must meet all of the following criteria to be recognized and used in
17 the patient responsibility computation: Recognized under state law, medically necessary, not a
18 Medicaid compensable expense, not subject to payment by a third party and not covered by the
19 Medicaid nursing or other facility per diem. Thus, UMED was conceived (Unreimbursed Medical
20 Expense Deduction).

1 Through the development of UMED funding, two new dental insurance programs have
2 received their certificate of authority to operate in Florida. These new programs are ***The Senior***
3 ***Oral Health Insurance Protection Plan*** and the ***Special Care Insurance Program***.

4 To assist long-term care facilities in delivering professional oral care to their residents,
5 Senior Dental Insurance Solutions, LLC, offers The Senior Oral Hygiene Insurance Protection
6 Plan. The services are provided by dentist and dental hygienists who provide professional oral
7 care to the elderly. All services are provided on-site in the facility which eliminates the cost of
8 transportation. Every policy holder is entitled to monthly visits from the provider.

9 The Senior Oral Hygiene Insurance Protection Plan has no deductibles, no co-payments
10 and no waiting periods for services. If the senior receives Medicaid support, the premium for the
11 insurance may be 100% reimbursable. There are no additional pharmaceutical or product cost
12 involved.

13 The program's goal is to promote and improve oral hygiene among the aging population in
14 skilled nursing home facilities, resulting in better overall health and well being for all seniors. The
15 schedule of benefits is focused on pro active preventive care and addresses the un-met oral
16 hygiene needs of those requiring long-term care. It is designed to mitigate the long term effects
17 from the lack of regular oral hygiene treatment, in turn reducing disease and infection.

18 Fidelity Security Life Insurance Company underwrites The Senior Oral Hygiene Insurance
19 Protection Plan. Group Benefit Services (GBS) is a national Third Party Administrator that
20 provides administrative and management services for health and dental insurance programs. They

1 provide enrollment, premium billing, and customer service for The Senior Oral Hygiene Insurance
2 Protection Plan.

3 Rates compare to a service delivery schedule submitted by the underwriter to the state for
4 services, based on national Code of Dental Terminology. Each code represents a description of
5 service. The negotiated rate between the insurance company and the Florida Department of
6 Insurance is \$205.13 per month.

7 SDIS works with Department of Children and Family (DCF) to enroll residents with the
8 available liability to qualify for reimbursement. Once approved the facility and the responsible party
9 are issued a notice of case action by the state which reduces the resident liability by \$205.13 per
10 month, in order to pay the monthly premium. If a resident does not qualify for Medicaid
11 reimbursement they may pay privately at the same rate with the same coverage. As mentioned
12 this program is all inclusive and the resident is seen monthly to provide the services included with
13 this benefit. There are no other claims to file. SDIS will continue to renew coverage as long as
14 the premiums are paid. Should a resident wish to cancel the coverage, SDIS must be notified in
15 writing and coverage will end on that date. The application for coverage is between the resident's
16 legal responsible party and SDIS. No service begins before the Case Action Letter is issued by the
17 state. The facility is in no way held fiscally responsible should the claim be denied.

18 Approximately 180 Florida nursing homes with 3,000 residents are enrolled in this
19 program. This insurance program is voluntary for any nursing home resident enrolled as a
20 Medicaid eligible. Up until last year, the program used only portable dental equipment to provide
21 dental and dental hygiene services to enrollees. Employees of OnSite have to purchase this
22 equipment from a company vendor.

1 Following on OnSite's dental insurance plan idea, the TRECS Institute, through Elan
2 Group out of Tampa, also received a Certificate of Authority to offer its Special Care Insurance
3 Program plan to nursing home residents paid for by UMED (e.g. Medicaid Offsets). The carrier for
4 this plan is National Guardian Life. Its premium is \$74 a month for enrollees who are also Medicaid
5 eligibles. This plan uses the Reach Out Health Care America dentist mobile dental network to
6 provide care.

7 Besides the major methods of reimbursement for dental care listed above, the federal
8 Medicare program may provide limited dental coverage which are deemed medically necessary,
9 such as a dental exam prior to kidney transplantation or heart valve replacement, or extractions
10 performed in preparation for radiation treatment involving the jaw or jaw reconstruction following
11 accidental injury. Medicare will cover the costs of hospitalization and the dentist's treatment fee,
12 for some dentistry-related hospitalizations; for example, if you develop an infection after having a
13 tooth pulled or you require observation during a dental procedure because you have a health-
14 threatening condition.

15 Medicare does not cover routine dental care or most dental procedures such as cleanings,
16 [fillings](#), tooth extractions or [dentures](#). Medicare does not cover any dental care specifically
17 excluded from original Medicare (i.e., dentures), even if you are in the hospital.

18 A Medicare Advantage Private Fee-for-Service plan works differently than a Medicare
19 supplement plan. The doctor or hospital is not required to agree to accept the plan's terms and
20 conditions, and may choose to forgo treatment, with the exception of emergencies. Some Medicare
21 Advantage plans may include dental benefits.

1 The Medicare Prescription Drug, Improvement, and Modernization Act of 2003, have
2 created incentives for Medicare-managed plans (not subject to the strict regulations of Medicare
3 itself) to offer enhanced dental benefits. Dental coverage is available at low, or sometimes no, cost
4 to Medicare-eligible seniors who join a Medicare-sanctioned, state-regulated fee-for-service plan
5 that provides dental and medical assistance. Known as Medicare Advantage plans, they are run
6 nationwide by private health insurers in compliance with federal guidelines.

7 Medicare Advantage Plans allow you to select optional dental coverage benefits for an
8 additional plan premium allowing you to receive covered dental services when you select a
9 participating primary care dentist. Most often reduced-fee services must be provided by your
10 selected primary care dentist and are not eligible for out of network benefits.

11 Dental plan members can choose from a large network of qualified providers. Some plans
12 are flexible to the extent that you may choose any provider. Optional services (riders) are available
13 to health plan members for an additional monthly premium, though not all optional services are
14 available in all areas. Consult your Medicare Advantage plan to see what dental services are
15 covered.

16 Medicare Advantage dental benefits vary among providers. Some have monthly premiums
17 and an initial enrollment fee. Others have a co-payment for office visits and an annual dollar cap.

18 **CONCLUSIONS**

19 The Oral Health Florida Coalition senior work group has come to the basic similar conclusions
20 outlined in the TRECS Institute's final report, titled: ***Improving Dental and Oral Care Services for***

1 ***Nursing Facility Resident***, released on January 20, 2006. Through its studies, the senior
2 workgroup confirmed universal concerns over the availability and quality of dental care services to
3 Florida's nursing facility residents. These major findings are:

4 #1. A pervasive lack of knowledge of the importance of dental and oral
5 health care on the part of residents, their families and the nursing facilities
6 staff.

7 #2. Difficulties faced by some residents in providing self care due to physical limitations
8 despite the desire to maintain good oral health and the desire to remain independent.

9 #3. Providing good daily oral care to residents with dementia and/or behavioral problems
10 can be extremely difficult for staff despite good intentions and efforts.

11 #4. Ageism prejudices are overtly evident among staff, families and even the residents
12 themselves.

13 #5. A lack of or severely limited reimbursement for professional dental services resulting in
14 significant access problems.

15 #6. Extremely poor dental and oral health care is currently being seen among the cohort
16 of elderly between the time they retire and their admission to a nursing facility, resulting in
17 new nursing home residents with tremendous dental and oral care needs upon admission.

18 To help resolve these issues, the following conclusions were agreed upon by the advisory Board:

19 #1. There is a profound and basic need to develop a program to educate all cohorts
20 including residents, family and health care professionals on the importance of good dental
21 and oral care for the elderly.

1 #2. Long-term care professionals should implement a preventive oral screening program
2 consisting, not only of entrance examinations but also routine (daily) preventive care, with
3 special training of staff for challenging patient types.

4 #3. A recently developed commercial dental insurance program designed specifically for
5 nursing home residents, should be tested as a realistic approach to improving dental care
6 services by increasing reimbursement for dental professionals thereby eliminating the
7 access problem that dominates the industry today.

8 With the advent of the two new dental insurance programs and support from the Oral Health
9 Florida Coalition stakeholders for a program similar to the Apple Tree model in Minnesota, there is
10 hope that in the future as more of Florida's citizens become residents in long-term care facilities
11 that oral health care services will be come more readily available. This, however, will also take a
12 concerted effort between the coalition stakeholders, the Florida legislature, government agencies
13 and the new administration taking office in 2011.

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