The Silent Epidemic of Oral Disease: Evaluating Continuity of Care and Policies for the Oral Healthcare of Seniors

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Key Implications for Decision Makers

- Health: Oral health has been overlooked as an essential component of overall health and quality of life.

- The aging population: Seniors’ oral healthcare will grow in importance as the number of Canadians older than age 65 continues to increase. More than any other age group, baby boomers have had dental insurance and good oral healthcare throughout their lives. This cohort will age with unprecedented retention of natural teeth. This has enormous implications for oral healthcare delivery systems.

- Policy: Currently there is no infrastructure provincially or federally that is responsible for oral healthcare for seniors. Health Canada and provincial departments of health must provide leadership to address oral healthcare needs for Canadian seniors and develop oral health policies to ensure seniors have an adequate level of care, care providers receive proper training, and healthcare standards are standardized and universal across all care-giving sectors.

- Collaboration: Governments must collaborate with many sectors (such as seniors, caregivers, dental and health professions, educators, health promoters, and so on) to ensure continuity of oral healthcare for the aging population.

- Service delivery: Many seniors encounter challenges when accessing oral health services. Innovative mechanisms for service delivery to these groups must be developed and implemented.

- Cost: The current fee-for-service, private practice delivery of oral healthcare does not ensure adequate service for all seniors. Many seniors cannot afford dental care and most do not have access to insurance plans. Creative financial solutions must be developed to include public and private mechanisms for payment.

- Research: Understanding the current oral health status of seniors and the many factors affecting oral health over the lifespan will support the development of oral health promotion programs and disease prevention strategies.

- Education: Seniors, caregivers, students, and health professionals must receive education and training that is specific to the oral health needs of the aging population.
Executive Summary

Background

Oral health has a substantive effect on health and well-being; however, it is peripheral to general health and public healthcare delivery systems. The private nature of oral healthcare service in Canada contributes to profound disparities among many underserved segments of the population, including older adults. A lack of centralized, integrated decision-making about oral healthcare delivery makes it extremely difficult to improve oral health policy for seniors. A growing need for action on this important issue brought the partners in this project together.

The purpose of the research was to determine the key components of a health services model based on continuity of care that will improve the oral health of seniors, using Nova Scotia as the geographic focus. Key questions associated with managing continuity of healthcare for seniors included how is oral care for seniors currently managed and funded, and how well is it working; how can the system be more effectively restructured to improve the oral health of seniors; and what are the policy implications arising from these findings. The investigative team was comprised of researchers, clinicians, representatives of the private sector, government decision makers, dentists, and those in fields ranging from health promotion, public policy, economics, research methodology, dental hygiene, long-term care administration, data analysis, education, insurance provision, and community senior representation.

Implications

Oral health must be explicitly recognized as an essential component of overall health and quality of life. A general lack of awareness about the importance of oral health contributes to oral and systemic disease and to the marginalization of oral health services from mainstream healthcare.

There is no infrastructure at either the provincial or federal levels of government responsible for oral healthcare for seniors. Health Canada and provincial departments of health must create relevant leadership positions to address oral healthcare needs for Canadian seniors. Under the direction of provincial and federal oral healthcare leaders, oral health services related to prevention and health promotion for seniors must be integrated with public and primary healthcare programs. Legislation affecting seniors’ oral health must be examined. Accessible, affordable, and sustainable oral health programs and services must be available for all seniors.

Clear guidelines must be developed for private and public continuing care facilities regarding standards of oral health and the provision of required services. These guidelines should include an oral health examination as an explicit component of “single-point” entry protocols.
The lack of accessible oral healthcare services is identified as a key challenge for rural-dwelling seniors, those who are homebound, and those residing in long-term care facilities. Mechanisms for service delivery to under-served and access-challenged seniors must be developed.

Where patient mobility is an issue, models of care delivery must include mobile dental clinics. Long-term care facilities must be equipped with adequate facilities to provide oral healthcare services for residents.

The traditional fee-for-service, private practice delivery of oral healthcare does not ensure adequate service delivery for all seniors. Dental insurance plans are directly linked to the ability of the dental plan recipient to make out-of-pocket payments. Most seniors do not have access to third-party oral health insurance. The use of dental services is related to income and to the existence of dental insurance. When compensation is based on conventional fee guide rates, dental professionals are often inadequately compensated for special care needs associated with geriatric dentistry. Health economists must examine costs to the healthcare and other social systems arising from seniors’ oral health needs. The financial support required to include oral health as an element of public and primary healthcare for seniors must be quantified. Dental service fee guides specific to geriatric dental care must be developed and piloted. Although this has already been undertaken in a number of jurisdictions, the effect of specialized fee guides on service delivery must be evaluated.

There is little Canadian research to address the relevant factors affecting oral health and oral health practices over the lifespan. There are no baseline data to reflect the oral health status and oral health-related quality of life of Canadian seniors. Service delivery programs specific to seniors have not been systematically evaluated to determine accessibility and sustainability. Academics must come together to develop a national consensus for oral health assessments for seniors, including standardized protocols for national and provincial oral health surveillance. Research is needed to assess the oral health status of seniors. Collaborative research teams must be brought together to develop and evaluate oral health promotion programs and disease prevention strategies for seniors; develop and evaluate dental practice standard guidelines specific to the needs of seniors; determine the feasibility and mechanisms for integrating oral health interventions and practices into existing primary healthcare strategies; assess the effect of the aging population on the dental workforce; and develop and test different types of service delivery models.

Those who care for seniors and those who educate caregivers acknowledge the need for relevant education and training to meet the needs and demands of the aging population. Accreditation standards for dental and other health-related programs must include explicit requirements to ensure education experiences that meet the oral health needs associated with the aging population.

Non-traditional models for delivering oral healthcare, such as the use of mobile dental clinics to accommodate care needs outside of a traditional office setting, must be included as regular components of dental education.
Geriatric dentistry must be recognized as a discrete area of specialization. Because the complexities of seniors’ oral healthcare often exceed the core competencies of undergraduate dental students, programs for geriatric dentistry must be developed to provide the appropriate leadership and expertise to care for this sector of the population. Geriatric training, both didactic and clinical, must be integrated into programs for healthcare workers outside traditional dentistry. Relevant education programs include gerontology, nursing, continuing care, medicine, pharmacy, population health, and health education and promotion. Caregivers providing personal care must be exposed to adequate training opportunities to meet the special needs associated with geriatric oral healthcare.

Methods

A promising practice scan was carried out to determine barriers and facilitators in the use of oral health services for seniors by critical analysis of evidence and lessons learned from leading oral health systems in Canada and other countries. The review included a comprehensive search of academic and non-academic literature; Internet searches; and direct consultation with national and international dental professionals, service providers, and program administrators under the following five themes: oral healthcare delivery programs; oral health policies; dental insurance plans (public and private); geriatric dental education; and strategies for oral health prevention and promotion.

A two-day oral health policy forum was held to engage in an evidence-based oral health strategic planning process, based on the research that had been gathered. The forum involved more than 80 participants, including representatives of Nova Scotia seniors’ organizations, dental professions, nursing care workers, three levels of government, long-term care, funding agencies, health professionals, and health associations. Formal presentations of project findings, informal networking, and small-group activities were carried out to clarify results, to prioritize areas for action, and to identify roles of stakeholders in the implementation of an action plan to address the oral healthcare needs of seniors. Seven working groups resulted from the forum.

Project dissemination activities included formal reports, media news releases, PowerPoint presentations, storytelling, and animation. Information about this project and key messages about seniors’ oral health were also disseminated through printed articles and publications. Additional strategies include news releases and continuing professional education sessions. We will consider how we might work with network TV to write issues of seniors’ oral health into shows (sitcoms) or encourage oral health questions to be included on game shows. Copies of tools and materials developed throughout the course of this project, along with links to senior-specific oral health resources, will be available on the Oral Health of Seniors’ Project web site (www.ahprc.dal.ca/oralhealth/) later in the summer of 2004.
Context

Finding better ways to deliver healthcare services is a priority for decision makers in all levels of the Canadian healthcare system. Rethinking mechanisms for healthcare delivery has been driven by the overall increase in healthcare costs, the perceptions that delivery could be more efficient and effective, and the urgent issue of an aging population. Canadians are living much longer than previous generations, so health services must be available over a much longer lifespan than before.

The delivery of oral health services is no exception. Oral health has a substantive effect on overall health and well-being. Pain and disability associated with poor oral health can affect our ability to eat properly — affecting nutrition status, body weight, and overall resistance to systemic diseases. Studies have shown links between gum disease and poor glycemic control in diabetics. Still others have shown a link between gum disease and cardiovascular disease. To assuage these effects on systemic health, it is important that disease and disability originating in the mouth always be included as an important aspect of healthy aging.

Although adequate dental services exist in most parts of Canada, seniors don't always have the access to care they require. Dental care in Canada is private and does not fall under the rubric of our public healthcare system. The private nature of oral healthcare service in Canada contributes to profound disparities among many underserved segments of the population, including older adults. Canadians are living longer and retaining more of their natural teeth than in previous generations, emphasizing a need for continuity of oral healthcare throughout their lifespans.

Historically, oral healthcare has been peripheral to general health and public healthcare delivery systems. Therefore, seniors’ oral healthcare has not garnered meaningful consideration in healthcare debates in Canada. For example, the Commission on the Future of Health Care in Canada highlighted the need to relieve the disproportionate burden of disease assumed by access-challenged populations such as seniors. Yet, oral health and oral healthcare were not even mentioned in its final report. The lack of
centralized decision-making about oral healthcare delivery makes the issue of addressing oral healthcare for seniors extremely difficult for researchers, oral healthcare providers, and the many sectors that influence oral health policy. The recognition of this difficulty and a growing need for action to integrate policies and practices was what brought the partners in this project together.

In 2001, our research team set out to evaluate continuity of care and policies for the oral healthcare of seniors. Within the context of oral health for seniors, it was recognized that there is a “discontinuity” in care because there is no real oral health system on which to rely. We recognized that achieving continuity is complex and must be addressed as a three-dimensional concept:

1. **continuity as people age** requires an examination of relevant factors that have an effect on oral health and oral health practices over the lifespan;

2. **public-private sector action** refers to the need to clarify roles in both the private dental service delivery system and public domains; and

3. **client and service provider relations** require an examination of factors directly and indirectly affecting relationships between seniors and their direct and indirect oral healthcare providers.

The overall purpose of our research was to determine the key components of a health services model, based on continuity of care, which will improve the oral health of seniors, using Nova Scotia as the geographic focus. The questions associated with managing continuity of healthcare for seniors included how is oral care for seniors currently managed and funded, and how well is it working; how can the system be more effectively restructured to improve the oral health of seniors; and what are the policy implications arising from these findings. It was also recognized that this project would contribute to the development of an integrated set of policies and practices for managing continuity of seniors’ oral healthcare. Nova Scotia provided an optimal geographical location for studying this issue. In Nova Scotia, 13.7 percent of the population is older
than age 65, representing the oldest population in Atlantic Canada and the third-oldest in Canada.\textsuperscript{14} More than half of Nova Scotia’s seniors reside in rural areas,\textsuperscript{15} resulting in particular challenges for accessing healthcare.

The investigative team was composed of researchers and decision makers from a variety of disciplines and health services sectors relating to seniors and oral health services. Backgrounds of team members included dentistry, health promotion, public policy, economics, research methodology, dental hygiene, long-term care administration, data analysis, education, insurance provision, as well as community senior representation. The mix of skills and backgrounds ensured multiple aspects of this complex public/private issue were addressed, and stakeholders who influence policy were included as an integral part of this investigation.

**Implications**

This research was directed at those who formulate health policies and programs for seniors. Here, we target relevant audiences and highlight the most significant implications arising from our research.

**Implications common to all stakeholder decision makers**

Oral health must be explicitly recognized as an essential component of overall health and quality of life. A general lack of awareness of the importance of oral health contributes to oral and systemic disease and contributes to the marginalization of oral health services from mainstream healthcare.

- Effective strategies are required to raise the awareness of decision makers and the general public concerning the importance of oral health for seniors.
- Continuity of oral healthcare for seniors requires an integrated health systems approach where structured mechanisms merge and co-ordinate private and public services.
**Implications for government policy makers**

There is no infrastructure at either the provincial or federal levels of government responsible for oral healthcare for seniors.

- Health Canada and provincial departments of health must create relevant leadership positions to address oral healthcare needs of Canadian seniors.
- Under the direction of provincial and federal oral healthcare leaders, oral health services relating to prevention and health promotion for seniors must be integrated with public and primary healthcare programs.
- Provincial departments of health and provincial bodies regulating the health professions must examine all legislation affecting oral healthcare for seniors.
- Accessible, affordable, and sustainable oral health programs and services must be available for all seniors.
- Clear guidelines must be developed for private and public continuing care facilities regarding standards of oral health and the provision of required services. These guidelines should include an oral health examination as an explicit component of “single-point” entry protocols.

**Implications for oral health service delivery**

The lack of accessible oral healthcare services is identified as a key challenge for rural-dwelling seniors, those who are homebound, and those residing in long-term care facilities.

- Mechanisms for service delivery to under-served and access-challenged seniors must be developed. Transportation for community-dwelling seniors isolated from services is an important consideration.
- Where patient mobility is a problem, models of care delivery must include portable, mobile dental clinics. Long-term care facilities must be equipped with adequate facilities to enable the provision of oral healthcare services for residents.
- A standardized oral health resource kit that includes informational pamphlets, dental assessment tools, dental care products, and resources for oral hygiene training must be developed for use by non-dental care providers.
• Oral health labour force shortages and system needs must be identified and incentives created to attract oral healthcare personnel to underserved practice opportunities.

Financial implications
The traditional fee-for-service, private practice delivery of oral healthcare does not ensure adequate service delivery for all seniors. Most seniors do not have access to third-party oral health insurance, and use of dental services is strongly correlated with income and existence of dental insurance.\textsuperscript{16} When compensation is based on conventional fee guide rates, dental professionals are often inadequately compensated for the special care needs associated with geriatric dentistry.

• Health economists must examine costs to the healthcare and other social systems associated with seniors’ oral health needs.
• The financial support required to include oral health as an element of public and primary healthcare for seniors must be quantified.
• Dental service fee guides specific to geriatric dental care must be developed and piloted. Although this has already been done in a number of jurisdictions, the effect of specialized fee guides on service delivery must be evaluated.

Implications for research
There is little Canadian research addressing the relevant factors affecting oral health and oral health practices over peoples’ lifespans. There are no baseline data to reflect the oral health status and oral health-related quality of life of Canadian seniors. Service delivery programs specific to seniors have not been systematically evaluated to determine accessibility and sustainability.

• Academics must develop a national consensus for oral health assessments for seniors, including standardized protocols for national and provincial oral health surveillance.
• Research is needed to assess the oral health status of seniors. This will provide the basis for longitudinal surveillance and a clearer profile of the needs of this growing population.

• Collaborative research teams must be brought together to:
  ° develop and evaluate oral health promotion programs and oral disease prevention strategies for seniors;
  ° develop and evaluate dental practice guidelines for the specific needs of seniors;
  ° determine the feasibility and mechanisms for integrating oral health interventions and practices into existing primary healthcare strategies;
  ° assess the effect of the aging population on the dental workforce; and
  ° develop and test different types of service delivery models.

**Implications for education**

Those who care for seniors and those who educate caregivers must acknowledge the need for relevant education and training to meet the demands and needs of the aging population.

• Accreditation standards for dental, dental hygiene, and other health-related programs must include explicit requirements to ensure education experiences to meet the oral health needs associated with the aging population.

• Non-traditional models for delivering oral healthcare, such as the use of mobile dental clinics to accommodate care needs outside of a traditional office setting, must be included as regular education components for oral healthcare professionals.

• Geriatric dentistry must be recognized as a discrete area of specialization. Because the complexities of seniors’ oral healthcare often exceed the core competencies of undergraduate dental students, programs for geriatric dentistry must be developed to provide the appropriate leadership and expertise to care for this sector of the population.
• Geriatric training, both didactic and clinical, must be integrated into programs for healthcare workers outside traditional dentistry. Relevant education programs include gerontology, nursing, continuing care assistance, medicine, pharmacy, population health, and health education and promotion.

• Caregivers providing personal care must have access to adequate training opportunities to meet the special needs associated with geriatric oral healthcare.

Approach

This research addressed the question “what are the key components of a health services model, based on continuity of care, which will improve the oral health status of seniors?”

The methodology was designed to understand seniors’ oral care in a variety of contexts both within and outside health services research. The objectives included research activities from information gathering to strategy development (see Appendix A for overview of project methodology):

1. health services evaluation: to evaluate oral health services for seniors from the perspective of recipients of care (seniors 65+) and direct and indirect care providers;
2. promising practice scan: to determine barriers and facilitators to the use of oral health services for seniors by critical analysis of experiences and lessons learned in existing systems in Canada and elsewhere;
3. oral health policy forum: to develop strategies for financial, organizational, and policy interventions that will clarify roles and relationships and improve private-public sector provision of oral health services; and
4. communication and dissemination plan: to undertake a set of activities to disseminate research findings and policy implications to relevant stakeholders.

A comprehensive literature review on seniors’ oral health revealed that there were no studies in Canada to identify tools or methods for conducting research on this issue. Thus, a grounded theoretical approach was taken and the research question was designed to
reflect a broad range of issues and the perspectives of multiple stakeholders. Decision-maker stakeholders are identified according to whether they are direct or indirect care providers.

Direct care providers include dentists, dental hygienists and assistants, personal care workers, and other health professionals directly involved in caring for the oral health needs of seniors.

Indirect care providers include the multitude of decision makers who affect continuity of oral healthcare for seniors that is not “hands on.” These groups include the many organizations representing and regulating the dental professions; federal, provincial, and municipal governments; seniors’ organizations; educational institutions, including universities and community colleges; continuing care (homecare and long-term care); and private health insurers.

**Objective 1**

The health services evaluation was conducted to examine the present state of the oral healthcare delivery system for seniors in Nova Scotia through the perspectives of the three categories of participants listed above. The perspectives of seniors and direct care providers were gathered using focus groups in six locations throughout Nova Scotia. Key informant interviews were held with indirect care providers.

Focus groups were held in a variety of geographic locations (urban, rural, and remote) throughout Nova Scotia:

- seven focus groups (a total of 67 participants) were held for seniors living independently and in long-term care; and
- 18 focus groups were held for direct care providers (a total of 106 participants) who came from multiple work settings, including private dental practice, homecare, long-term care, and hospitals. Focus groups were held separately for dentists, dental hygienists, and nursing care providers.
All focus group participants were asked to identify enabling and challenging factors affecting oral health service delivery for Nova Scotia seniors by addressing the following four questions:

1. what dental services are available to seniors living in Nova Scotia?  
2. what hinders seniors’ access to oral healthcare?  
3. what helps seniors access oral healthcare services? and  
4. what do you feel is needed to create a system of oral healthcare for seniors living in Nova Scotia?

Key informant interviews were conducted with a purposive sample representing seven indirect care provider groups. These were government, research, post-secondary education, long-term care, insurance providers, seniors’ organizations, and Nova Scotia dentistry associations. Using face-to-face, telephone, and/or e-mail interviews, key informants were asked to respond to the question: how is the oral healthcare of seniors being addressed by indirect care provider sectors in Nova Scotia?

**Objective 2**

The promising practice scan was carried out to determine barriers and facilitators to the use of oral health services for seniors by critical analysis of experiences and lessons learned in existing systems in Canada and elsewhere. The review included a comprehensive search of academic and non-academic literature; Internet searches; and direct consultation with national and international dental professionals, service providers, and program administrators. In order to address the complex nature of continuity of oral healthcare for seniors, the following five separate themes were identified as key dimensions of a comprehensive oral health service system:

1. oral healthcare delivery programs;  
2. oral health policies;  
3. dental insurance plans (public and private);  
4. geriatric dental education; and  
5. strategies for oral health prevention and promotion.
**Objective 3**

The oral health policy forum titled *Working Together to Improve the Oral Health of Seniors: Developing an Action Plan for Nova Scotia* was held in Halifax on November 5th and 6th, 2003. More than 80 participants, including representatives of Nova Scotia seniors and their organizations, the dental professions, nursing care workers, government, long-term care, funding agencies, health professionals, and health associations, gathered to engage in an evidence-based oral health strategic planning process. Formal presentations of project findings, informal networking, and small-group activities were carried out to prioritize areas for action and to clarify the roles of various stakeholders in developing and initiating an action plan to address the oral healthcare needs of Nova Scotia seniors. The detailed action plans are key to providing direction and impetus for activities to continue past the completion of this research project. The action plans also provide an important focus and direction for establishing the policy implications. Recommendations arising from this process will be used by relevant stakeholders striving to move policy and action agendas forward.

**Objective 4**

Project dissemination activities included a variety of traditional and non-traditional avenues for communicating the project’s progress and findings. A comprehensive listing of knowledge translation and dissemination products can be found in Appendix B. To date, these products include formal reports, media news releases, PowerPoint presentations, storytelling, and animation. Many of these products are already available on our web site at [www.ahprc.dal.ca/oralhealth/](http://www.ahprc.dal.ca/oralhealth/). Future development of the web site will include online access to all of these products by late summer 2004.
Project Results

Objective 1

Examining the oral healthcare delivery system for seniors in Nova Scotia

The following section contains a summary of the focus group findings and the key informant interviews. The findings are organized under five headings. The first four headings contain the key points identified by the focus group participants in response to the four focus group questions. The final heading describes the question posed to the key informants. A comprehensive account of the health services evaluation findings is available on our website using a “storytelling format.”

Dental services available to seniors living in Nova Scotia

Collectively, the focus group participants identified a full range of traditional dental services such as private practice dental services, specialized dental services, dental services in hospitals, and denturist services. Recognizing that seniors have access to the same range of dental services available to the general public prompted some participants to note the lack of dental services available to seniors living rural areas, homebound seniors, and seniors living in long-term care facilities.

Barriers to accessing oral healthcare services

Participants’ responses to this question can be grouped into three main theme categories:

Financial

The type of financial challenges identified by participants included:

• cost of dental treatment, particularly for people on a limited income;
• lack of affordable dental insurance;
• cost of transportation, particularly for those who are homebound and those living in rural areas or long-term care; and
• dental professionals who are inadequately compensated for costs related to the delivery of dental care to seniors.
**Long-term care**

The lack of availability and accessibility of dental care in long-term care facilities is a result of a number of challenges:

- there is no infrastructure to facilitate the continuity of dental care for seniors living in long-term care;
- standardized oral healthcare policies and procedures do not exist in many long-term care facilities;
- geriatric dental training for nursing staff and personal caregivers is unavailable or inadequate; and
- adequate clinic space and dental equipment is not available within long-term care facilities to facilitate onsite visits by dental professionals.

**Attitudes, beliefs, and practices**

Awareness of issues pertaining to proper oral hygiene and dental care is perceived to be a greatly overlooked and underestimated issue affecting seniors’ oral health arising from all sectors.

**Seniors’ attitudes, beliefs, and practices:**

- there is a culturally entrenched fear of dentists and dental procedures;
- seniors lack awareness about the importance of regular oral healthcare to their general health and quality of life;
- some seniors’ reliance upon others for help limits their ability to obtain dental care;
- seniors experiencing signs of dementia and those who are not aware of their own medical and drug histories are problematic for dental professionals;
- seniors identified that modern dental practices (such as the requirement for multiple visits) affected their ability to access oral healthcare; and
- the time of year and weather conditions limits the ability to access care.
Dental profession's attitudes, beliefs, and practices:

- there is a lack of awareness of the senior population and issues affecting them;
- geriatric oral health education and training is not readily available for dental professionals; and
- dental hygienists perceived that their profession’s lack of self-regulation created challenges that limit their ability to care for seniors living in long-term care.

Society's attitudes, beliefs, and practices:

- in matters of health, there is a belief that the mouth is separate from the body;
- there is a general lack of awareness of the effects of oral health on general health; and
- government’s involvement in the regulation, assessment, and delivery of oral healthcare for homebound and institutionalized seniors is not sufficiently attentive to oral health concerns. This results in inadequate standards, protocols, and policies.

Factors that contribute to accessing oral healthcare services

Participants identified a number of items that are helpful to seniors when accessing oral healthcare such as:

- the supportive efforts of friends, family and community members, as well as dental professionals;
- access to a co-ordinator for facilitating healthcare needs;
- educational resources and training offered by dental hygienists as a valuable source of raising awareness and developing oral healthcare skills for nursing staff, family members, and seniors;
- television commercials, newsletters, and magazine articles provide an avenue for oral health messages; and
- access to dental insurance.
Creating a system of oral healthcare for seniors

This question elicited a number of ideas around how to create a dental care system for Nova Scotia that would help build upon services — dental and non-dental — and make oral healthcare more accessible to all seniors. The key areas identified were:

- creation of a universal dental insurance plan for seniors;
- a dental care co-ordinator;
- mobile dental units to serve the needs of all seniors;
- creation of seniors’ oral healthcare standards and policies; and
- educational awareness strategies.

Indirect care providers: Addressing the oral healthcare of seniors

Key informants recognized that some sectors are addressing oral health issues (services, education and/or training, oral health research, oral health advocacy) but no one indirect care provider sector in Nova Scotia is playing a key role in the delivery of oral health services for seniors. Therefore, the oral health of seniors is not being adequately addressed by any one sector. The most common reason given for not addressing the oral healthcare of seniors was the lack of awareness and understanding of the issues. All sectors noted their willingness to address the issue in future if the evidence warrants their support. The following key points are highlighted:

- **government:** currently, no government sector is targeting seniors’ oral health issues;
- **academic educators:** currently, five out of nine health-related educational programs identified in Nova Scotia offer some component of geriatric dentistry in their curriculum;
- **dentistry researchers:** dentistry researchers noted that, historically, there has been a lack of interest in seniors’ oral healthcare issues in Nova Scotia and elsewhere;
- **dentistry associations:** dentistry associations are currently addressing seniors’ oral health issues, but acknowledge more could be done in the future (for example, advocacy and awareness-raising);
• **seniors’ organizations**: seniors’ organizations acknowledge that presently oral health is not a topic being addressed, but welcome the opportunity to listen to the issues and plan for the future; and

• **long-term care administrators**: there was no single individual or group who felt they could speak on behalf of the long-term care sector.

**Objective 2**

Promising practice scan to determine barriers and facilitators to the use of oral health services

Our findings are organized under the five headings described in the preceding section. A comprehensive report of the promising practice findings will be available on our web site as part of the dissemination strategy.

**Program scan**

Accessibility and sustainability were identified as important markers for determining the effectiveness of a program. The most promising practices for program development could be achieved by:

- integrating dental services with other health services;
- providing onsite clinics in long-term care facilities and mobile services;
- employing dental providers who have expertise in geriatric dentistry;
- providing subsidized income-based dental fee adjustment schemes;
- adopting a geriatric fee schedule to adequately compensate dental professionals;
- addressing the provision of transportation;
- including awareness and education strategies as part of the program;
- partnering with allied health professions to create single point of entry assessment instruments that include oral health when determining continuing care service needs; and
- evaluating programs to measure effectiveness.
Policy scan

Oral health policies were defined as any broad direction or course of action that has been endorsed by a body with authority to advocate for, implement, and/or provide resources for seniors’ oral healthcare and services. There are a limited number of policies that address oral health issues targeted to the senior population. Of those that do exist, our scan revealed that these policies are very rarely monitored and are never routinely evaluated for effectiveness. Care and access policies lack a set of clearly defined guidelines and standards for healthcare workers to follow.

Insurance scan

An insurance plan was defined as an agreement that guarantees the financial coverage of costs (partial or full) incurred as a result of receiving dental treatment. Dental insurance plans are created as a mechanism of pre-payment for dental care, not to insure against the probability of requiring dental treatment. Private dental insurance plans are directly linked to the ability of the dental plan recipient to make out-of-pocket payments, thereby excluding many seniors from access. Pilot research is required to examine creative financial solutions for private dental payment plans. Current oral health financing models being piloted elsewhere in Canada should be evaluated to determine efficacy of implementing a geriatric fee guide and the utilization and sustainability of insurance payment/deduction models.

Publicly funded dental plans were found to increase dental care utilization rates among the senior population, but they do not ensure universal access. Without accessible and sustainable dental services specific to the needs of seniors, a perceived need for dental care by seniors, adequate geriatric training for dental and non-dental care providers, and a willingness for care providers to engage in servicing all seniors, publicly available dental payment plans will remain underutilized.
**Geriatric dental education**

All Canadian and American dental and dental hygiene education programs offer geriatric dentistry as a discrete requirement, but programs are inconsistent with respect to content and clinical experiences required. For the most part, students in oral health professional programs receive marginal geriatric dental education due to the lack of comprehensive teaching standards and procedures. Accreditation and licensing requirements provide little guidance in establishing meaningful standards of competency for educators. To ensure competency for students in dentistry and dental hygiene programs, extensive clinical experience working with seniors who have a broad range of health issues must be provided. Geriatric education is most effective as a multidisciplinary endeavour that is integrated with other healthcare and gerontological education programs. The aging population, and the requirement that many seniors have for unique and specific oral health interventions, provides support for the recognition of geriatric dentistry as a formal area of specialization.

**Oral health promotion strategies**

Our scan included any efforts used to raise awareness and to provide oral hygiene training to caregivers and seniors. Dentists, dental hygienists, students in dentistry and dental hygiene programs, dentistry associations, and dental hygiene associations provide information on seniors’ oral health issues and oral hygiene training, predominantly upon request. There are virtually no other sources of oral health promotion. A Canadian review of oral health training programs directed at caregivers providing personal care (for example, nursing staff, continuing care assistants) demonstrates inadequate oral healthcare education and training opportunities. Because oral hygiene is a largely neglected element of basic personal care for dependent seniors, research is required to evaluate appropriate training strategies. Frequent training programs provided within continuing care settings have shown the most promise in developing positive oral health attitudes and behaviours of both caregivers and seniors receiving care.
Objective 3

Oral health planning forum

More than 80 participants took part in the highly successful two-day forum “Working Together to Improve the Oral Health of Seniors: Developing an Action Plan for Nova Scotia” in November 2003, representing all of the project’s key stakeholder groups. During the forum, participants worked in small groups to identify priorities for future oral health action planning and strategy development. From these sessions, seven priority areas emerged and are included in Figure 2. A detailed description of each area is provided in the text below.

Figure 2
Priority areas:
1. a multi-stakeholder oral health of seniors collaborating committee to oversee and continue the work begun by this project;
2. a multi-stakeholder group that would address the oral health service delivery needs for seniors;
3. a group of decision and policy makers to develop oral health policies to ensure seniors are provided an adequate level of care, care providers receive proper training, and healthcare standards are standardized and universal across all care-giving sectors;
4. multiple public awareness strategies for use among a broad array of audiences to address the importance of oral health to quality of life and raise awareness about the various oral health needs of seniors and the public-private care providing systems (such as dentistry, allied health, insurance, education, and research);
5. a coalition of dental and dental hygiene educators and curricula advisors to address the need for enhancements to the existing geriatric dental offerings at the undergraduate, graduate, and continuing education level;
6. the partnering of interdisciplinary health educators (dental assisting, faculty of medicine, nursing, and continuing care assistant programs) and curricula advisors to explore the various options for including components of geriatric dental education into existing formal program curricula and continuing education courses; and
7. oral health research, particularly related to seniors’ issues. The lack of national- and provincial-level seniors’ oral health status research was an area the collaboration of oral health researchers from Dalhousie University identified as a priority, and they had plans to develop and pilot-test oral health status and quality of life measurements with seniors in Nova Scotia.

It was apparent that interest in the issue of oral healthcare for seniors grew substantially during the course of the forum. As the forum concluded, many participants indicated an interest in helping to continue the work in the area of oral healthcare for Nova Scotia seniors. Those interested could sign up for one or more of the seven working groups
(collaborating committee, policy development, public awareness, program service delivery, geriatric education for non-dental students and professionals, geriatric education for non-dental care providers, and research) to continue to work on priority action areas.

Between January and March 2004, the seven working groups met at least once for a three-hour planning session. Additional consultation sessions with working group members were conducted via e-mail and telephone to gain consensus on necessary revisions and additions to the working groups’ action plans.

The seven working groups identified key areas for action and the types of tasks required (short- and long-term) to accomplish each action. Tables found in Appendix C provide a detailed overview of working group action plans and proposed time frames. All working groups identified the need for financial and non-financial support from a variety of sectors involved in the care and delivery of services to seniors to enable them to continue their work towards implementing their strategies for action. For detailed working group action plans, which include recommended tasks for the completion of individual actions, and the resources and stakeholder groups needed to accomplish the actions, see the Oral Health of Seniors’ Project web site (www.ahprc.dal.ca/oralhealth).

**Objective 4**

**Communications and dissemination plan**

The purpose of this objective was to do a set of activities to communicate and disseminate the model, findings, and the implementation strategies for improved quality of health services.

The knowledge translation strategy began at the outset of this project. Including the key stakeholders as part of the project team made it much easier for information and results from the project to be disseminated to the key sectors involved in oral health issues for seniors.
During the course of the project, a variety of activities was done to raise awareness about the importance of seniors’ oral health and about the plans for this project. Meetings with stakeholders and presentations about the project were delivered to many groups across Nova Scotia. Examples include members of the Nova Scotia Association of Health Organization (such as Long-Term Care Administrators and Directors of Care); the Nova Scotia Dental Hygienists Association’s provincial board of directors; representatives from the Nova Scotia Senior Citizen’s Secretariat, including seniors’ councils and centres from across Nova Scotia; media outlets like CBC Radio, ATV News, and The Chronicle Herald (the main provincial newspaper); newsletters (for example, Dalhousie University’s Faculty of Dentistry Alumni News Magazine); Health Promotion Atlantic; LinkAGES: For and About Older Nova Scotians; the Nova Scotia Dental Association; and the Nova Scotia Dental Hygienists Association. Our project web site and listservs were also used to disseminate project information.

**Future dissemination activities**

Extensive dissemination of information about the issue of seniors’ oral health and our project will continue well past the end date of this project. Now that the project findings and implications are ready to be shared, a number of additional strategies (in addition to those traditional strategies listed above) will be used to convey information to our target audiences. Examples of these strategies include:

**Presentations:**

- Presentations will be made to academic research audiences at conferences, to policy decision makers, through health fairs and seniors’ events, and to university students in health-related courses and faculties. To date six conference presentations are confirmed, including the Nova Scotia Association of Health Organization’s Continuing Care Provincial Conference, Dartmouth (March 25-26, 2004); the Canadian Public Health Association’s Annual National Conference, St. John’s (June 13/04); the Canadian Association of Gerontology’s National Annual Conference, Victoria BC (October 2004); the Linking Health Promotion to Policy
Atlantic Forum, Moncton (June/04); the Special Care Dentistry Annual Conference, Calgary (August 2004); and the From Ageing to Ageing Well International Conference, Montreal (October 3-5, 2004).

**Written:**

- Journal articles and opinion pieces will be written for peer-reviewed journals and publications. One item has already been drafted: *An Analysis of Three Factors That Influence Seniors’ Access to Dental Care in Nova Scotia*.
- News releases, feature articles, editorials, and public service announcements will be prepared for newspapers, possibly in conjunction with our partners (such as the Nova Scotia Dental Association) during oral health month in April.
- The project web site will be further developed during the summer of 2004 by a Dalhousie University dentistry student. Reports and documents will be included, as will links to other relevant sites.
- Brochures, information sheets, and media backgrounders will be prepared for key stakeholder audiences.

**Visual images:**

- A tabletop display unit will be developed with interchangeable panels.
- PowerPoint presentations will be created for use by team members at meetings and events.
- The development of promotional items for use by seniors will be considered; examples include fridge magnets or wallet calendars with a reminder to see the dentist twice a year.
- Use of theatre as a medium for dissemination; for example, using actors in a skit or role-play (live or videotaped) to illustrate the project findings and the importance of this issue.
- TV shows and cable TV are forms of entertainment and information for many seniors — we will consider how we might work with network TV to write the issue of seniors’ oral health into TV sitcoms or encourage oral health questions to be included on game shows.
**Other innovative knowledge translation strategies:**

- Develop a continuing education session on seniors’ oral health for professional groups, including physicians, dentists, dental hygienists/assistants, and pharmacists.
- Develop an informative and practical oral health resource kit that could be used by those who care for seniors (family members, homecare workers, and other health professionals).

**Additional Resources**

Copies of tools and materials developed throughout the course of this project, along with links to senior-specific oral health resources (Canadian and international), will be available on the Oral Health of Seniors’ Project web site (www.ahprc.dal.ca/oralhealth/) by late summer 2004.

**Further Research**

Our research over the past two years leads us to the conclusion that additional studies are needed to address the knowledge gaps related to the oral health of seniors and continuity of care. For example:

1. population-based longitudinal research studies are needed to establish baseline data about the current status of seniors’ oral health, provincially and nationally. There is a need for longitudinal data to monitor the shifts and changes in oral health status over the lifespan. This also allows for comparisons between cohort groups, and for national and international comparisons;
2. pilot projects are required to test oral health service delivery options for seniors (ambulatory/non-ambulatory, independent/non-independent, rural dwellers) to determine the best methods for achieving continuity of care for seniors’ oral health;
3. oral health promotion strategies must be piloted to determine the most effective strategies for creating buy-in and raising awareness about the importance of oral health to overall health;
4. pilot educational training studies among nursing staff in continuing care (homecare and long-term care) sectors are necessary to determine the effect of training programs on short- and long-term oral health attitudes, beliefs, and practice change;
5. methodological measurement studies are required to assess the reliability, validity, and predictive nature of measures developed to determine the markers of “best practices;”
6. evaluation studies are required to determine the effectiveness of oral health prevention and promotion programs, policies, and educational strategies;
7. dental labour-force studies are required to determine the capacity of the dental community or their “readiness-to-change” to keep pace with the changing demographics and the aging of the population; and
8. research is needed on fee guides, payment, and billing options to address the financial challenges experienced by the recipients and providers of oral healthcare.
Bibliography


LIST OF APPENDICES

Appendix A: Overview of Project Methodology
Appendix B: Knowledge Translation and Dissemination Products and Resources
Appendix C: Oral Health Working Group Action Plans
Appendix A: Overview of Project Methodology

**Oral Health of Seniors Project**

**Purpose:** To determine the strategies needed to develop an Oral Health Action Plan that will achieve continuity of oral health care for seniors living in Nova Scotia, and elsewhere.

**Research Question:** What are the key components of an oral health action plan, based on continuity of care, which will improve the oral health status of seniors?

**Project Objectives**

<table>
<thead>
<tr>
<th>Health Services Evaluation</th>
<th>Promising Practices Scan</th>
<th>Forum</th>
<th>Communication / Dissemination</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Purpose:</strong></td>
<td></td>
<td></td>
<td>To communicate and disseminate the project findings and recommendations.</td>
</tr>
<tr>
<td>To examine the continuity of care in the delivery of oral health service for seniors in Nova Scotia.</td>
<td>To explore the kinds of strategies used to enhance the effectiveness of oral health delivery systems for seniors.</td>
<td>To develop action plan strategies for addressing seniors’ oral health issues in Nova Scotia.</td>
<td></td>
</tr>
</tbody>
</table>

**Research Methods:**

- Focus Group Sessions
- Key-informant Interviews
- Literature searches (academic / non-academic)
- Informal discussions with key persons involved in the delivery of oral care to seniors
- Email surveys
- Power point and story-telling presentations
- Keynote speakers
- Multi-sector small working group discussions
- Forum presentations
- Conferences
- Reports
- Journal articles
- Newsletters
- Website

**Research Limitations:**

- Non-representative sample of seniors, dentists, dental hygienists and nursing staff
- Lack of non-clinical seniors’ oral health research

**Expected Outcome:**

A comprehensive action plan that addresses the oral health care needs of seniors.
Appendix B: Knowledge Translation and Dissemination Products and Resources

**PowerPoint Presentations:**
1. Overview of OHS Project (13 different Power Point Presentations used to introduce project to various group/organizations, the focus group participants, and the initial OHS Team meeting.
2. 3 OHS Team Power Points (these give overview of findings and project’s progress—March 2003 meeting, June OHS Team AGM, Feb 17, 2004 OHS Team Meeting
3. Forum Power Point
4. Public Health Conference (Mary’s presentation (June, 2003) in PEI)

**Reports:**
1. Pre-Forum Participant Information Report
2. Forum Proceedings Report
3. Forum Evaluation Report
4. Project report (draft)
5. Original literature review

**Research Tools:**
1. Seniors and Direct Care Provider Surveys
2. Focus Group Guides (Seniors and Direct Care Provider)
3. Key Informant Interview Schedule
4. Senior Program Provider Survey
5. Seniors’ Dental Resources Survey (on-line survey send to all groups, organizations, institutions within Canada that provide resources to general public on oral health issues to determine depth and breadth of resources available to seniors and their care-givers)
6. Forum--small group work activity sheets
7. Forum evaluation forms (Day 1 and Day 2)
8. Insurance Providers—Seniors’ Dental Plan Questionnaire
9. Search Framework or Logic Model for seniors’ dental programs and policies
10. Program Rating Scale
11. Seniors Dental Program Database
12. Seniors’ Dental Policies Database
13. Seniors’ Oral Health Resource Check List

**Graphics:**
1. Project Research Conceptual Framework (Model)
2. Animation developed for and used at Forum
3. Graphic of car & road with signs indicating all the project’s progress and accomplishments

**Data:**
1. Seniors Oral Health Survey SPSS Database
2. Dentists and Dental Hygienists Survey SPSS Database
3. Transcripts of Focus Group Sessions: Seniors, Dentists, Dental Hygienists, Nursing Staff
4. Transcripts of Key Informant Interviews
5. NUD*ist key word thematization of focus group findings
6. Seniors’ Oral Health Program Database
7. Seniors’ Oral Health Policy Database
8. Seniors’ Oral Health Resource Database

**References:**
1. Extensive bibliographic reference library of seniors’ oral health literature (includes over 250 pieces of literature)
**Miscellaneous:**
2. Forum invitation
3. Focus group informational packages
4. Focus group training guide
5. Forum and project media releases
6. Dissemination/communication plan for project results
Appendix C: Oral Health Working Group Action Plans

Table 1: Oral Health of Seniors Collaboration Steering Committee Action Plan

<table>
<thead>
<tr>
<th>PRIORITY AREA: Oral Health of Seniors’ Collaboration Steering Committee</th>
<th>TIME FRAME NEEDED TO ACCOMPLISH ACTION:</th>
</tr>
</thead>
<tbody>
<tr>
<td>SHORT-TERM GOAL: To achieve sustainability for the Oral Health of Seniors’ Collaboration</td>
<td></td>
</tr>
<tr>
<td>ACTION AREAS:</td>
<td>1 month (March 2004)</td>
</tr>
<tr>
<td>1. Recruit Steering Committee members</td>
<td>1 month (March 2004)</td>
</tr>
<tr>
<td>2. Develop Terms of Reference for the OHS Initiative</td>
<td>1–7 months (September 2004)</td>
</tr>
<tr>
<td>3. Apply for funding</td>
<td>1 month (October 2004)</td>
</tr>
<tr>
<td>5. Offer support to various OHS Collaboration working groups</td>
<td></td>
</tr>
</tbody>
</table>

Table 2: Policy Development Action Plan

<table>
<thead>
<tr>
<th>PRIORITY AREA: Policy Development</th>
<th>TIME FRAME NEEDED TO ACCOMPLISH ACTION:</th>
</tr>
</thead>
<tbody>
<tr>
<td>GOAL: To develop standards and guidelines for seniors’ oral health</td>
<td></td>
</tr>
<tr>
<td>ACTION AREAS:</td>
<td>2 – 5 years (2006-2009)</td>
</tr>
<tr>
<td>1. Advocate for the importance of oral health to health and the integration of oral health into health policies</td>
<td>1 year (2005)</td>
</tr>
<tr>
<td>2. Develop standards and guidelines for the oral health of seniors</td>
<td>2 – 5 years (2006-2009)</td>
</tr>
<tr>
<td>3. Develop policy to ensure that seniors’ oral health guidelines and standards are integrated into the mandate of all sectors involved in caring for the senior population</td>
<td>1 year (2005)</td>
</tr>
<tr>
<td>4. Develop guidelines for tracking short and long-term policy outcomes</td>
<td></td>
</tr>
</tbody>
</table>

Table 3: Public Awareness Action Plan

<table>
<thead>
<tr>
<th>PRIORITY AREA: Public Awareness</th>
<th>TIME FRAME NEEDED TO ACCOMPLISH ACTION:</th>
</tr>
</thead>
<tbody>
<tr>
<td>GOAL: To develop and disseminate public awareness messages about seniors’ oral health</td>
<td></td>
</tr>
<tr>
<td>ACTION AREAS:</td>
<td>6 to 8 months (2004)</td>
</tr>
<tr>
<td>1. Review existing oral health data and develop public awareness messages</td>
<td>1–7 months (September 2004)</td>
</tr>
<tr>
<td>4. Conduct on-going evaluations and public awareness campaigns</td>
<td></td>
</tr>
</tbody>
</table>
### Table 4: Program Service Delivery

<table>
<thead>
<tr>
<th>PRIORITY AREA: PROGRAM SERVICE DELIVERY</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>GOAL:</strong> To provide accessible oral health services to seniors</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>ACTION AREAS:</th>
<th>TIME FRAME NEEDED TO ACCOMPLISH ACTION:</th>
</tr>
</thead>
<tbody>
<tr>
<td>1. Develop and implement programs for the provision of oral health assessment and treatment to ambulatory senior in underserved areas (i.e.-rural)</td>
<td>2-5 years (2006-2009)</td>
</tr>
<tr>
<td>2. Advocate for LTC facilities within NS to provide a suitable space for the delivery of oral health services for both ambulatory and non-ambulatory residents</td>
<td>2-4 years (2005-2008)</td>
</tr>
<tr>
<td>3. Collaborate with healthcare partners to ensure that oral health assessment is incorporated into baseline assessment for all seniors at the point of entry into the healthcare system (e.g. hospital, home care programs, LTC)</td>
<td>1-2 years (2004-2005)</td>
</tr>
<tr>
<td>4. Recommend that oral health treatment components are available within the home care programs province-wide and advocate for their inclusion in programs</td>
<td>2-5 years (2005-2009)</td>
</tr>
<tr>
<td>5. Offer in-service dental training programs for non-dental healthcare providers</td>
<td>1-2 years (2004-2005)</td>
</tr>
<tr>
<td>6. Advocate for the integration of third party dental insurance into access criteria similar to the provincial pharmacare program</td>
<td>Ongoing (2004-2009)</td>
</tr>
<tr>
<td>7. Develop program evaluation frameworks that provides measurable outcomes for the various seniors’ oral healthcare delivery initiatives</td>
<td>2-5 years (2006-2009)</td>
</tr>
</tbody>
</table>

### Table 5: Geriatric Education for Dental Students and Professionals Action Plan

<table>
<thead>
<tr>
<th>PRIORITY AREA: Geriatric Education for Dental Students and Professionals</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>GOAL:</strong> To advocate for changes to existing dental curricula to include enhanced geriatric dentistry components (didactic and clinical)</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>ACTION AREAS:</th>
<th>TIME FRAME NEEDED TO ACCOMPLISH ACTION:</th>
</tr>
</thead>
<tbody>
<tr>
<td>2. Develop enhanced geriatric dentistry/special needs course curricula for dental and dental hygiene students</td>
<td>1-2 years/On-going (2005-2009)</td>
</tr>
<tr>
<td>3. Assess the feasibility of offering a General Residency Program (GRP)</td>
<td>1-2 years (2004-2005)</td>
</tr>
<tr>
<td>4. Advocate for inclusion of Geriatric Dentistry as a recognized area of specialization</td>
<td>1-5 years (2004-2009)</td>
</tr>
</tbody>
</table>
### Table 6: Geriatric Education for Non-dental Care Providers Action Plan

**PRIORITY AREA:** Geriatric Education for Non-dental Care Providers  

**GOAL:** To provide recommendations for the enhancement of geriatric dental education for seniors' non-dental care providers  

**ACTION AREAS:**  

<table>
<thead>
<tr>
<th>ACTION AREAS</th>
<th>TIME FRAME NEEDED TO ACCOMPLISH ACTION</th>
</tr>
</thead>
<tbody>
<tr>
<td>1. Identify and recruit new working group members from cross sector of group providing care to seniors</td>
<td>1 month (April 2004)</td>
</tr>
<tr>
<td>2. Research existing multidisciplinary module programs developed for providing dental education (skill/training) to non-dental caregivers</td>
<td>3 months (June 2004)</td>
</tr>
<tr>
<td>3. Recommend that changes to the curriculum of care provider programs and gerontology programs allow for the inclusion of components (knowledge/skill) of geriatric dentistry (learning module programs)</td>
<td>15-18 months (2004-2006)</td>
</tr>
</tbody>
</table>

### Table 7: Research Action Plan

**PRIORITY AREA:** RESEARCH  

**GOAL:** To conduct and support research on seniors’ oral health issues  

**ACTION AREAS:**  

<table>
<thead>
<tr>
<th>ACTION AREAS</th>
<th>TIME FRAME NEEDED TO ACCOMPLISH ACTION</th>
</tr>
</thead>
<tbody>
<tr>
<td>1. Offer research support to the various Oral Health of Seniors’ Collaboration working groups</td>
<td>Immediate/On-going (2004-2009)</td>
</tr>
<tr>
<td>2. COHR hosting capacity building conference</td>
<td>March 24-25, 2004</td>
</tr>
<tr>
<td>3. COHR in collaboration with stakeholders plans to pilot-test assessment tools in Nova Scotia</td>
<td>1-2 years (2005-2006)</td>
</tr>
<tr>
<td>4. COHR plans to conduct a comprehensive study of NS seniors’ oral health status</td>
<td>3-5 years (2005-2009)</td>
</tr>
</tbody>
</table>

*Collaboration of Oral Health Researchers (COHR) will continue with their present research agenda and will evolve to support research of the various working groups as needed.*