The Kentucky Elder Oral Health Survey 2005 Executive Summary

I. Background

a. Mandate

The Kentucky Elder Oral Health Survey (KEOHS) represents the third and final oral health survey commissioned by the Office of Oral Health of the Kentucky Department for Public Health in the last five years. The first oral health survey commissioned in 1999 was done to assess the oral health status of children (under age 18) in Kentucky and published in 2001. The second oral health survey examined the oral health status of adults (age 18 and older) in Kentucky and was published in 2003. This survey focuses on Kentuckians aged 65 and older and is unique in that it examines elders based on their functional ability by living situation (i.e. independent elders living in their own homes represent well-elders, those who are functionally dependent represent nursing home elders, and those who are frail represent homebound elders). There currently exists no definitive data describing the oral health status of Kentucky's elder population which is the fastest growing segment of all Kentucky's age groups.

b. History

In 1987 the last comprehensive oral health survey was commissioned by the state. The Kentucky Oral Health Survey (KOHS) did not specifically include elders and excluded all institutionalized populations (e.g., nursing home elders). The 1987 survey consisted of a telephone interview and a clinical screening exam for participants who agreed. While these findings provided extensive information about the oral health status of children and adults, Kentucky elders were generally excluded, specifically elders whose oral health status had never been examined; (nursing home elders and elders who are homebound).

c. Development

The development of the survey coincided with the planning of the KAOHS (Kentucky Adult Oral Health Survey), and many of the planning sessions for the KAOHS were attended by the developers of the KEOHS. This resulted in incorporation of many of the same questions that were used in the Adult Survey. However, the KEOHS expanded the interview and clinical exam portion to include elder-specific sections (i.e.: denture evaluation, extraoral pathology, chronic medical problems, and functional limitations). These sections were developed by reviewing published statewide and national surveys of elder oral health assessments. Two parts of the survey instrument were developed: a questionnaire (interview for those who were unable to complete on their own) and a clinical exam component. The clinical exam was done on all the participants who completed the questionnaire except for the homebound sample where only 10% of the population was examined due to the financial and logistic constraint (e.g., the survey team was unable to travel to all 470 of the homebound participants' homes).

d. Timeframe

Funding for the KEOHS began July 1, 2001. Two part-time positions were funded through the Office of Oral Health to conduct the survey; a director, and an administrative assistant. Collaboration with the University of Kentucky College Of Dentistry, Office of Aging Services, Dept. of Veterans Affairs, and the Sanders-Brown Research Center on Aging, led to the contributions of graduate students and statistical support. Funding from the Sanders-

Brown Center on Aging grant (Thomas P. Rogers Endowment) permitted the use of hiring part-time statistical support as well as publishing this data. Pilot testing and finalizing the survey instrument took place in the fall of 2001. Recruitment of statewide facilities to participate, and training and calibrating dentists to assist in conducting the clinical exam part of the survey was done from January through April 2002. The first data collection and exams took place in May 2002 and the final surveys were completed in March 2005. The results were analyzed and submitted to the Office of Oral Health in November 2005.

II. Purpose

The purpose of the Kentucky Elder Oral Health Survey (KEOHS) is to provide a benchmark status report of the oral health of Kentucky's elders (age 65+). This oral health survey represents the third component (of three) oral health surveys to assess the oral health status of the citizens in the Commonwealth of Kentucky. Surveys of children (2001) and adults (2003) were also sponsored by the Office of Oral Health in collaboration with the University of Kentucky College of Dentistry (children) and the University of Louisville School of Dentistry (adults).

a. Intent (for use of this survey)

These findings will allow oral health professionals, state agencies, and other interested parties to examine the oral health status of elders and compare the results both statewide and regionally. In addition, selected questions can be compared with results obtained from the Kentucky Adult Oral Health Survey (KAOHS), as well as with surveys conducted on elders in other states. The ultimate goal is to use these findings to assist in the development of a statewide strategic plan for determining how best to meet the oral health needs of Kentucky elders.

b. Specific Aims: The Kentucky Elder Oral Health Survey (KEOHS) was conducted to:

- 1. Assess the Oral Health status and treatment needs of elders living in different types of residential settings:
 - Elders who are independent and living in their own homes (not institutionalized). In the U.S. 2000 census, 477,580 elders were classified as noninstitutionalized in Kentucky. The group of elders who were surveyed in the KEOHS also utilized Senior Centers. While not all well elders utilize Senior Centers, this group represented the largest grouping of elders living independently that could be evaluated and was comparable to the last national survey done by the National Institute of Dental Research (NIDR) in 1990. These elders are designated the Well-Elders or WE in this survey.
 - Elders living in their own homes who have agreed to participate as "research subjects" from the Sanders-Brown Center on Aging. These elders *do not* utilize Senior Centers and represent elders known as "successful elders" and who have attained a higher socioeconomic and educational status. These elders are designated Sanders-Brown elders or SB elders in the KEOHS and represent a sub-set of the well elders. However, due to their differences in socioeconomic and educational status, the SB group was evaluated separately from the WE.
 - Elders residing in nursing homes identified by the Office of Aging Services. There are 342 nursing homes in Kentucky housing 26,198 nursing home elders. These elders are designated NH elders in the KEOHS.

 Homebound elders representing those elders confined to their homes and unable to provide their own transportation to purchase or obtain services. Homebound elders were identified in cooperation with the Kentucky Area Agencies on Aging (AAA) from client figures from the Spring of 2002. There are approximately 8,066 homebound clients at any given time in Kentucky. These elders are designated as HB elders in the KEOHS.

2. Assess the perceived oral health status of Kentucky elders.

• The perceived oral health status was determined by an extensive 48-item questionnaire administered either by a trained caseworker or member of the research team.

3. Assess the clinical oral health status including dental problems as determined by a licensed dentist.

• The clinical oral health status was determined by a one-on-one clinical openmouth exam on all but the Homebound population. Due to logistic and financial limitations, only 10% of the homebound sample had a clinical exam conducted. The clinical exam consisted of an extensive 33 item questionnaire including: extraoral and intraoral pathology, dentate status, periodontal and caries indices, prosthodontic replacement, denture status, and overall oral health status.

4. Compare both perceived and clinical oral health status of Kentucky's elders by geographic region and types of elders.

 Five geographic regions identified in the previous children and adult surveys were utilized in the KEOHS. These regions included: Western, Eastern, Bluegrass (Central), Northern, and Louisville (Louisville and surrounding counties). The KEOHS compares the findings from both perceived and clinical questionnaire across all regions and statewide averages. Findings for the four groups of elders (WE, SB, NH and HB) are compared on key oral health indicators to determine differences and similarities.

5. Identify factors affecting dental access for Kentucky elders.

• Among the different groups of elders, there may be specific factors or geographic areas affecting access to dental care. Access problems directly lead to poor oral health. Factors in the KEOHS which are included: utilization rates, socioeconomic reasons, and transportation issues. These factors are listed and compared in geographic regions as well as among the four groups of elders.

6. Provide information for a point-in-time comparison to the Healthy Kentuckians 2010 objectives (similar to the KAOHS).

- No data is currently present in which to compare the following Healthy Kentuckians 2010 objectives:
 - 9.3.1 Increase to at least 80% the number of edentulous or partially edentulous Kentuckians who have adequate replacement of natural dentition.
 - 9.4 Reduce to no more than 23% the proportion of Kentuckians who have lost all of their natural teeth (edentulous).
 - 9.9 Increase to at least 70% the proportion of adults age 18 and older using the oral health care system each year.

- 7. Develop a comparison to the 2002 Kentucky Adult Oral Health Survey (KAOHS) and other elder populations.
 - The importance of comparing the two statewide surveys is that trends can be discovered and insights into what interventions should be considered to promote oral health and prevent oral health problems. Few statewide oral health surveys have been done on the elderly population, but for those that have, the KEOHS should be able to see how this state compares with other states in areas of perceived and clinical oral health measures.
- 8. Begin a starting point for an ongoing surveillance system of elder Kentuckians regarding their oral health status.
 - Similar to the KAOHS the KEOHS will provide a baseline data base for future studies. The plan will be to use this data to assist in development of a plan for ongoing oral health surveillance in the state of Kentucky. Ideally, a statewide oral health survey focusing on elders should be repeated at a minimum of every 10 years.

III. Methodology

The KEOHS was conducted in three phases: 1) the design and development of the survey instrument, 2) the recruitment, training, and calibration of dentists statewide to perform the clinical component of the survey, and 3) the simultaneous recruitment of well elders utilizing Senior Centers, Sanders-Brown elders, Homebound elders through the Administration on Aging, and Nursing Home Elders. Each of these phases is described more fully below. Approval for this study was granted by the Medical Institutional Review Board, Office of Research Integrity, University of Kentucky (IRB@02-0182-FIV).

a. Design and Development of the Survey Instrument

Primarily the survey was designed and developed by members of the KEOHS research team with the input and help from the KAOHS research group at the University of Louisville School of Dentistry. Many of the same questions from the KAOHS were utilized in the KEOHS so that comparisons could be made. The following five basic components were included in the interview (questionnaire) survey instrument:

- <u>Demographic information</u> including gender, age, zip code, education level, family income, and insurance information. These data are used to describe the sample and to enable cross-comparisons between the four different groups of elders surveyed.
- 2) <u>General health questions including overall self-assessment, diabetic status, tobacco and alcohol use, medical problems, medication use (prescription and over-the-counter), mouthwash use, and conditions limiting mobility. The same general health questions were used for the KAOHS but the sections in italics were added for the KEOHS as these represent age-related health issues which may influence dental conditions.</u>
- 3) Oral health status questions including overall self-assessment, presence of pain, number of teeth removed, caries experience indicators, periodontal indicators, satisfaction with eating ability, speaking ability, and appearance, *frequency of toothbrushing, flossing, and adequacy of prosthetic replacement for missing teeth.* The same general health questions for the KAOHS were used plus some additional questions noted in italics to assess oral health habits.
- 4) <u>Use of dental health services</u> including time since last visit and reason(s) for nonutilization. As noted in the KAOHS, utilization of dental services (or lack thereof) has a major impact on the resulting oral health of the individual. Factors affecting utilization include but are not limited to: demand for dental care, economics, and adequate availability and work force.

5) <u>Health Access Beliefs and questions</u> including major barriers in obtaining dental care or services, which services are difficult to obtain (if any) and what recommendations participants have for improving their oral health status. These questions were included to get feedback on what barriers the participants felt exist and on what recommendations they had for improving their oral health.

In addition to the interview/questionnaire, the KEOHS also developed a clinical screening exam similar to the KAOHS. In the KEOHS, the clinical exam was conducted on all the sample participants in the SB, WE, and NH groups. In the HB sample only 10% of the sample participants had the clinical exam administered due to financial and logistic constraints. Like the KAOHS the clinical exam included full mouth assessments such as: number of missing teeth, presence and adequacy of replacements for missing teeth, and overall oral health assessments including overall treatment urgency. In addition, presence of restorations and caries were recorded. Six anterior mandibular teeth were used as indicator teeth for the periodontal markers (teeth 22 through 27) including: gingival signs, recession, calculus, tooth mobility, and gingival bleeding. To determine the presence or absence of gingival bleeding, the dentist asked the participant to floss between two teeth. Assessments of overall periodontal health and urgency of periodontal problems were included for all dentate subjects. In addition, overall oral health assessments not included in the KAOHS were added to the KEOHS including extraoral pathology (face and neck, TM joint, and lips, corners of mouth), intraoral pathology (inside cheeks and lips, roof of mouth, tongue, floor of mouth, and saliva), and denture evaluation for people who are edentulous (including: hygiene, occlusion, integrity, stability, and retention) as well as the health of the alveolar ridges, adequacy of replacements for missing teeth, and overall oral health (for the edentulous sample).

The clinical assessment of the dental caries and periodontal indicators were all dichotomous (yes/no) responses and the criteria for the denture assessment was dichotomous (adequate/inadequate). A total of 33 clinical questions were recorded. The dental materials used in the clinical screening exam consisted of a light source (flashlight or head lamp), a plastic disposable mirror, tongue depressor, gauze and floss. Appropriate infection control procedures were followed as outlined by the Centers for Disease Control and Prevention for oral health screenings and surveys.

b. Pilot testing

The questionnaire was pilot-tested at the Lexington-Fayette County Senior Center, the Lexington Center for Health and Rehabilitation and through the Kentucky Area Agency on Aging Offices. A total of 35 individuals were chosen at random to pilot-test the questionnaire/interview and the clinical exam: 15 elders from the Senior Center (representing the well-elders, WE), 10 nursing home residents (NH), and 10 homebound elders (representing the HB group). Following the interview and exam, subjects were questioned regarding the understandability of the interview questions and if any problems were encountered in the oral exam. The pilot testing resulted in the retention of the self-reported questionnaire/interview and the clinical items on the assessment form found in the appendix.

c. Sample size

According to the 2000 Census Bureau, 504,793 elders (65+) reside in Kentucky. Elders represent approximately 13% of Kentucky's total population and 16.6% of Kentucky's adult population over age 18. Of those, 29,266 are institutionalized. The remaining 475,527 represent the non-institutionalized. An additional 8,066 of these are designated homebound by the state Administration on Aging in 2002, leaving 467,461 as the "well-elder" population. The sample sizes for the three groups (not including the Sanders-Brown Elders who are a subset of well-elders) were done using a web-based sample size calculator (http://www.raosoft.com/samplesize.html, 2005). The following criteria were used: a 5%

(<u>http://www.raosoft.com/samplesize.html</u>, 2005). The following criteria were used: a 5% margin of error, a 95% confidence level, and a 33% effect size.

Sample Size Calculations 2000 Census Bureau Data

Elders (65+) residing in Kentucky	504,793				
Institutionalized (Nursing Home elders)	<u>29,266</u>	(NH population)			
Non-institutionalized elders residing in Kentucky	475,527				
Homebound elders designated by AOA	<u>8,066</u>	(HB population)			
"Well-elder" population (designated by KEOHS)	467,461	(WE population)			
Sanders-Brown elders (were a sub-set of the well-elders)					

The sample size calculator gave recommended sample sizes of the following: For NH elders = 336 For HB elders = 327 For WE elders = 340

The actual sample obtained for each group was:

NH elders = 413 HB elders = 473 WE elders = 430 (SB elders) = 70 (subset of well elders)

Similarly, for each group, Regional samples were considered based on the populations of the three groups

NH elders	N (%)	Sample	HB	N (%)	Sample	WE	N (%)	Sample
	Population	Needed/	elder	Population	Needed/	elder	Population	Needed/
	-	Sample		-	Sample		-	Sample
Statewide	29,266	336	State	8,066	327	State	475,527*	340
		413			473			430
Western	8,932	103	West	2,086	85	West	121,164	87
	(30.5)	120		(25.9)	167		(25.5)	95
Louisville	5,936	69	Louis	673	28	Louis	100,748	73
	(20.3)	74	ville	(8.3)	53	ville	(21.2)	86
Bluegrass	4,538	53	Blue-	1808	74	Blue-	81,982	59
_	(15.5)	68	grass	(22.4)	75	grass	(17.2)	122
Northern	2,719	32	North	928	38	North	46,235	33
	(9.3)	59		(11.5)	44		(9.7)	34
Eastern	7,141	82	East-	2571	105	East-	125,398	90
	(24.4)	92	ern	(31.9)	134	ern	(26.4)	93

*The Well Elder population was calculated with 475,527 (rather than 467,461) because the homebound elders are included with the well-elders (the additional 8,066). The Census Bureau did not break down the Regions of the State without including the Homebound in the non-institutionalized population.

d. Recruitment of dentists and elders

Initially, it was thought that dentists from all over the state needed to be recruited to help conduct the KEOHS. A 3-hour CE course was developed to include: defining the need for the Elder Oral Health Survey, a review of the data collection instruments and the clinical exam form, and an oral pathology and calibration session where participants were given two simulated patients and evaluated these patients compared to the standard examiner (dentist who developed the simulation). The CE course was then offered as a free, three-hour Continuing Education course and publicized through the Commonwealth Dental CE brochure, distributed at local dental society meetings, through the KDA newsletter, and by word of mouth. There were

over 6 training sessions held over a 3-month period and over 30 dentists were trained. However, due to scheduling and coordination problems, only 12 dentists participated and actually helped to administer the questionnaire and assist in doing the screening exams. All dentists who participated were members of the Kentucky Dental Association and attended a 3-hour training/calibration session. The following dentists participated and deserve a great amount of credit for volunteering their time to administer the KEOHS:

John Burt	Fred Howard
Barry Ceridan	Frank Metzmeir
Jennifer Chadwell	B.J. Moorhead
Michael Gross	Billy Millay
Robert G. Henry	John Parsons
J.D. Hill	Deana Tatterson

The members of the research team: Nancy Sallee, and Lisa Durham, were responsible for administering the questionnaire/interview of 48 questions for all the Nursing Home (NH) or Well Elders (WE) and Sanders-Brown (SB) elders. The Homebound Elders (HB) were interviewed by the case-managers in each of the 15 AAA districts and many of the questions in the KEOHS were asked routinely in the monthly assessment. For this reason, the questionnaire for the HB group was revised to eliminate redundant questions and the remaining questions added to a separate form which was left for the caseworkers to complete. As previously mentioned, the clinical exam was completed for all elders in the NH, WE, and SB participants by one of the dentists. Only 10% of the HB elders had a clinical exam due to logistic and financial constraints.

Recruitment of elders was difficult. In the case of Nursing Home (NH) elders, the 54 certified assisted living facilities and 342 licensed nursing homes in Kentucky were stratified according to the five regions and randomized to approximate the numbers of required elders calculated by the sample size. The nursing homes were then contacted initially by phone and those agreeing to participate were sent a follow-up letter along with an explanation of the study and consent to participate. Next, a date and time were scheduled and the nursing home administrator, or his/her designee, was sent individual consent forms to be signed by the elders living in the nursing facility or the elder's designated care-giver so the elders could participate in the study. The benefit provided to the NH elder (like all elders who participated) was that a free oral exam was provided, along with the notion of contributing valuable information to the state. Every elder who participated was given the questionnaire (or interviewed by the research team) and the clinical exam performed by a trained and calibrated dentist. The participant and nursing home administrator received a "dental report card" with a summary of clinical findings of the participating resident along with the recommendation of when a dental visit was suggested (ranging from a routine 6 month visit, to as soon as possible).

Unfortunately, many of the nursing homes when contacted did not return phone calls, were concerned that we were planning to report unfavorable information, or simply were not interested. For this reason, ultimately, most all nursing homes were contacted until there were enough nursing home elders in each region to meet or exceed the sample size required. Because of the difficulty with recruitment of nursing homes, instead of having a true stratified, random sample of approximately 10% of nursing homes in Kentucky, it was a convenience sample of nursing homes/assisted living facilities who would agree to participate. Nursing homes and assisted living facilities that participated in the KEOHS are listed in Appendix 4.

Similar problems existed with recruitment for Well Elders (WE) who utilized senior centers. Senior Centers were first contacted by Mr. Jerry Whitley, Executive Director of the Office of Aging Services at the Cabinet for health services. Mr. Whitley encouraged all the Directors of Senior Centers throughout the state to participate in the KEOHS, and in fact, the Office of Aging Services became a co-sponsor of the KEOHS. In general, each county in Kentucky has at least one Senior Center. Following the initial contact by Mr. Whitley, all Senior Centers were contacted and requested participation in the KEOHS. Like the NH elders, the WE sample became a convenience sample of those Senior Center Directors who either wanted their elders surveyed, or who did not want to participate in the survey. Even in those Senior Centers

that participated, only a small percentage of those elders who attended would actually agree to answering the questionnaire and permitting an oral exam. The reasons varied, but in many cases, even when it was announced weeks in advance, the research team was looked upon as an infringement on the elders' time, and we interfered with card-playing, bingo games, and special events. The timing of performing the oral health questionnaires and clinical exams was also critical. If our arrival was not in the morning between the hours of 9:00 and 11:00am, we were unlikely to be able to recruit or see any volunteers. After 11:00am, lunch started, and following lunch most all the seniors who attended these facilities left for home.

All the same procedures and forms were used with the WE (senior citizens centers) sample. Those who could complete the questionnaire on their own did so. For those who needed assistance, one of the research team gave the questionnaire in interview format. The dentist conducted the oral exam following completion of the questionnaire and signing of the consent form. Well elders were provided a dental report card with a summary of the clinical findings along with the recommendations (if any) for seeking care. The Senior Centers participating can be found in Appendix 5.

The Sanders-Brown (SB) group was a sub-sample of the Well Elders (WE) and represented those elders who did not attend Senior Centers. The Sanders-Brown Center of Aging is a large research building at the University of Kentucky and is the location for two programs which are Centers of Excellence at the University: Alzheimer's Disease and Stroke research. The subjects from the Sanders-Brown group who participated in the KEOHS represented the control subjects for patients with Alzheimer's' disease. In other words, they were elder (65+) healthy individuals, who are highly motivated, successful financially, and well educated. They represent a unique sample in that they have agreed to participate as controls, having their mental and physical status followed for their remaining lives, and to donate their brains for autopsy at death. The SB group (controls) was approved to participate in the KEOHS by Mr. Dave Wekstein, Director of the SB Center on Aging, and a letter was sent from him to all the SB research control participants. For those who responded, appointments were made to administer the questionnaire and perform the clinical exam. The location of the exams varied between the University Of Kentucky College Of Dentistry, General Practice Residency Program, the Lexington Senior Citizens Center, and the University Of Kentucky College Of Dentistry Public Health Offices located at 333 Waller Avenue in Lexington. The same procedures and forms were followed for the SB group as for the WE, including the questionnaire, clinical exam and giving out the dental report card indicating a summary of the clinical exam findings along with recommendations (if any) for dental care.

Homebound elders (HB) were identified by the directors of the 15 Area on Aging Agencies regionalized throughout the state. The AAA directors also fall under the auspices of the Office of Aging Services, and Mr. Jerry Whitley, the Executive Director, had the research group present an overview of the KEOHS at the Fall 2002 annual meeting. The directors were asked to give the research team feedback and the questionnaire was modified to be incorporated into the monthly assessment form the case workers utilize to check up on their clients. The ten percent of HB elders to have a clinical exam was identified by the case workers in the 15 regions. There was good cooperation in the majority of regions to obtain an adequate sample size. However, several regions reported their clients did not wish to have clinical exams, and in the Eastern Region, we were 6 clients short of having an adequate number for the projected sample size. The AAA directors and the regions they represent are listed in Appendix 6.

The same data was obtained from the HB elders as the NH, WE, and SB elders. The differences in the HB elder group was the additional form used to supplement the questions obtained by the caseworkers in the AAA 15 regions, and only obtaining a 10% clinical exam sample.

IV. Data analysis

Data were entered in a Microsoft Excel spreadsheet, then transferred to SPSS Version 10 for data analysis. Quantitative analysis was done on all four groups to provide descriptive and comparative analysis for regional differences as well as for Urban-Rural differences.

• Urban/Rural comparisons

The Urban/Rural calculations were identical to the Kentucky Adult Oral Health Survey. The population was divided into location of residence. The ZIP code of the participant was identified with a county. The county was then classified into one of three locations, based on the size of the largest city in the county. If the county was included in a Metropolitan Statistical Area (MSA) for the 2000 Census, then the county was included in the **MSA** location, regardless of the size of the largest city in the county. (Census 2000 defines Metropolitan Area as "either a place with a minimum population of 50,000 or a U.S. Census Bureau defined urbanized area...An MSA also may include one or more outlying counties that have close economic and social relationships with the central county". A **small city** location was defined as counties in which the largest city is at least 5,000, but not included in an MSA. **Rural** areas were those counties in which the largest city was less than 5,000 population. Assignments were based on the adult population of the county, not on the total population

The following table describes the counties that were assigned to the various residence locations. A map showing the urban, small city and rural counties can be seen in <u>Appendix 7</u>.

Location Assignment	Kentucky Counties
MSAs (US Census 2000)	
Cincinnati, OH	Boone, Campbell, Gallatin, Grant, Kenton, Pendleton
Clarksville, TN	Christian
Evansville, IN	Henderson
Huntington, WV	Boyd, Carter, Greenup
Lexington, KY	Bourbon, Clark, Fayette, Jessamine, Madison, Scott, Woodford
Louisville, KY	Bullitt, Jefferson, Oldham
Owensboro, KY	Daviess
Small City Counties	Allen, Anderson, Barren, Bell, Boyle, Caldwell, Calloway, Franklin, Grayson,
	Graves, Hardin, Harlan, Harrison, Hopkins, Johnson, Knox, Larue, Laurel,
	Letcher, Logan, Marion, Mason, McCracken, Mercer, Nelson, Pike, Perry,
	Pulaski, Rowan, Shelby, Taylor, Warren, Wayne, Whitley
Rural Counties	Adair, Ballard, Bath, Bracken, Breathitt, Breckinridge, Butler, Carlisle,
	Carroll, Casey, Clay, Clinton, Crittenden, Cumberland, Edmonson, Elliott,
	Estill, Fleming, Floyd, Fulton, Garrard, Green, Hancock, Hart, Henry,
	Hickman, Jackson, Knott, Lawrence, Lee, Leslie, Lewis, Lincoln, Livingston,
	Lyon, Magoffin, Marshall, Martin, McCreary, McLean, Meade, Menifee,
	Metcalfe, Monroe, Montgomery, Morgan, Muhlenberg, Nicholas, Ohio,
	Owen, Owsley, Powell, Robertson, Rockcastle, Russell, , Simpson, Spencer,
	Todd, Trimble, Trigg, Union, Washington, Webster, Wolfe

	Census 2000 Population	Total Population Percentage	Well Elder Population	Percent of Well Elder Population	Total Well Elder Sample N (%)
Urban Areas	1, 479,677	48.5%	219,581	46.2%	176 (40.9)
Small Cities	825,332	27.1%	134,928	28.4%	158 (36.8)
Rural Areas	741,942	24.4%	121,018	25.4%	74 (17.2)
Missing					22 (5.1)
Total	3,046,951	100.0%	425,527	100.0%	430 (100.0)

• Regional comparisons

The regional comparisons were conducted utilizing the same 5 geographic regions as in the Kentucky Children's and Adults' surveys. The five regions and counties included in each region can be seen in <u>Appendix 8</u>.

Region	Counties included in Regions
Western	Allen, Ballard, Barren, Breckinridge, Butler, Caldwell, Calloway, Carlisle, Christian, Crittenden, Daviess, Edmonson, Fulton, Graves, Grayson, Hancock, Hart, Henderson, Hickman, Hopkins, Livingston, Logan, Lyon, Marshall, McCracken, McLean, Meade, Metcalfe, Muhlenberg, Ohio, Simpson, Todd, Trigg, Union, Warren, Webster
Louisville	Bullitt, Jefferson, Oldham, Shelby, Spencer
Bluegrass	Anderson, Bourbon, Boyle, Fayette, Franklin, Hardin, Harrison, Jessamine, Larue, Marion, Mercer, Nelson, Nicholas, Scott, Taylor, Washington, Woodford
Northern	Boone, Bracken, Campbell, Carroll, Gallatin, Grant, Henry, Kenton, Mason, Owen, Pendleton, Robertson, Trimble
Eastern	Adair, Bath, Bell, Boyd, Breathitt, Carter, Casey, Clark, Clay, Clinton, Cumberland, Elliott, Estill, Fleming, Floyd, Garrard, Green, Greenup, Harlan, Jackson, Johnson, Knott, Knox, Laurel, Lawrence, Lee, Leslie, Letcher, Lewis, Lincoln, Madison, Magoffin, Martin, McCreary, Menifee, Monroe, Montgomery, Morgan, Owsley, Perry, Pike, Powell, Pulaski, Rockcastle, Rowan, Russell, Wayne, Whitley, Wolfe

Regional comparisons were done in order to provide insights regarding oral health status and to determine particular areas of oral health need.

V. Results

The follow sections contain the results of the three elder groups surveyed on the Interview/Questionnaire (Form A) and the Clinical Findings (as examined by a dentist). It includes all of the variables collected in quantitative analyses.

Each data sheet contains the following information:

1. Heading Information

This lists the variable under consideration, and gives a brief description of the variable.

2. Graphical Representation of Data

This section presents a graphical representation of the information and includes the geographic and urban/rural place of residence on selected variables.

3. Tabular Representation of Data

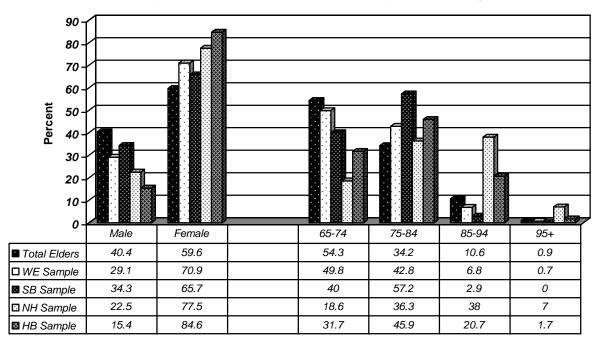
This section presents data in a tabular form. Geographic and urban/rural place of residence is included for selected variables.

4. Discussion

This section gives insight into what the significance of the information in the graphs and tables mean. This may be done with comparison to the Kentucky Adult Oral Health Survey, the Healthy Kentuckians 2010 goals, or additional elder surveys.

Kentucky Elder Population and KEOHS Elders by Gender and Age (AQ1 and AQ2)

This page describes the population and the actual sample by gender and age. The population data came from the Census 2000 data.



Kentucky Elder Population and KEOHS Sample by Gender and Age

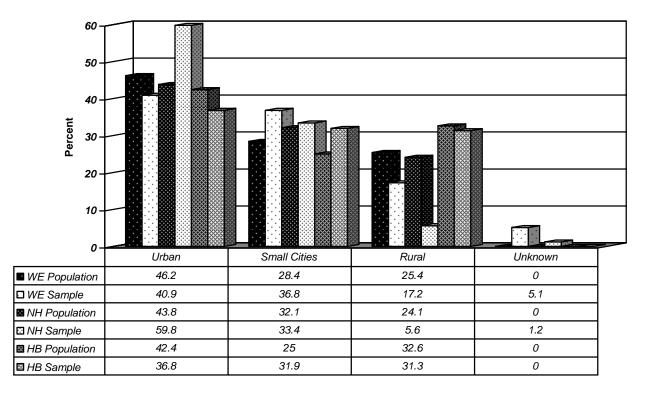
	Kentuck	y Elder Popula	tion	Well Eld Sample	er (WE)	Sanders (SB) Sar		Nursing (NH) Sa (29,266	mple	Homebo (HB) Sai (8,066)	
	Elder Pop	oulation	%	WE	% of	SB	% of	NH	% of NH	HB	% of
			Elder Pop.	Sample	WE Sample	Sample	SB Sample	Sample	Sample	Sample	HB Sample
Statewide)	504,793*	100	430	100	70	100	413	100	473	100
Age 1	65 – 74	273,943	54.3	214	49.8	28	40.0	77	18.6	150	31.7
Age 2	75 – 84	172,589	34.2	184	42.8	40	57.2	150	36.3	217	45.9
Age 3	85 – 94	53,706	10.6	29	6.8	2	2.9	157	38.0	98	20.7
Age 4	95 +	4,555	0.9	3	0.7	0	0.0	29	7.0	8	1.7
			•				•		-	•	
Gender 1	Male	203,981	40.4	125	29.1	24	34.3	93	22.5	73	15.4
Gender 2	Female	300,812	59.6	305	70.9	46	65.7	320	77.5	400	84.6

*The total elder population statewide is 504,793 per the 2000 Census Data. The age breakdown given is the only reported age category information regarding elders. This includes the 29,266 institutionalized elders that make up the NH component of the KEOHS. The actual population of Well Elders (including the Sanders-Brown group) is 504,793 – 29,266 = 475,527 Well Elders. The Homebound are included in the Well Elders. The total Kentucky Elder Sample = 1,386 (70 SB, 430 WE, 413 NH and 473 HB).

A total of 92.6% of the Well Elders surveyed for this study were between the ages of 65 to 84 years of age. This compares to 88.5% of the Kentucky Elder population who are between 65 and 84. Note the NH and HB elders are proportionately older (38% and 20.7% respectively, age 85-94). While the ratio of male to female is approximately 2/3 (40.4/59.6%) in the Kentucky Elder population, the ratio for the Well Elder sample is about 1 male to every 2 females (29.1/70.9%). The breakdown among the Sanders-Brown group is similar, with the ratio of 1 to 2 males to females (34.3/65.7%). The ratio of male to female for the NH sample is about 1 male to 3 females (22.5/77.5%) and the ratio of males to females in the Homebound sample is over 1 male to every 4 females (15.4/84.6%). These ratios reflect the proportionate number of males/females living in the various settings: at home, nursing homes, and those homebound.

Kentucky Elder Population and KEOHS Elders by Urban/Small City/Rural Location (AQ6)

This page describes the population and the actual sample by urban, small city and rural places of residence



Kentucky Elder Population (Total and Sample) by Urban/Small Cities/Rural Location

		WE Population N (%) OF WE Population	WE Sample N (%) of WE Sample	NH Population N (%) of NH Population	NH Sample N (%) of Sample	HB Population N (%) of Population	HB Sample N (%) of Sample
Statewide		475,527* (100)	430 (100)	29,266 (100)	413 (100)	8066 (100)	473 (100)
Location 1	Urban Areas	219,581 (46.2)	176 (40.9)	12,804 (43.8)	247 (59.8)	3423 (42.4)	174 (36.8)
Location 2	Small Cities	134,928 (28.4)	158 (36.8)	9,403 (32.1)	138 (33.4)	2014 (25.0)	151 (31.9)
Location 3	Rural Areas	121,018 (25.4)	74 (17.2)	7,059 (24.1)	23 (5.6)	2629 (32.6)	148 (31.3)
Unknown	N/A	N/A	22 (5.1)	N/A	5 (1.2)	N/A	N/A

*The total Well Elder population does not include the 29,266 institutionalized elders.

	Sample	Percent of Total Sample
Sanders-Brown Group*	70	100

*Sanders-Brown elders all reside in the Lexington-Fayette county Urban area in Central Kentucky. SB elders were not included in urban/rural calculations (1,386-70 = 1,316).

The majority of the Kentucky statewide oral health elder sample resides in an urban or small city locality (1044/1316 = 79.3%). The well elder sample is similar, with 77.7% residing in an urban or small city location. The NH sample finds the majority of nursing home elders located in urban or small city areas (93.2%). The HB sample finds an even distribution of about one-third of HB elders residing in urban, small city, and rural areas. Only 18.6% (245/1316) live in rural areas.

KEOHS Elders' Current Living Arrangement (AQ7)

Nursing Home

Assisted Living Facility

This page describes the living arrangements of the Kentucky elders sampled in the KEOHS.

	- 100 - 80 - 60 - 60 - 40 - 20 - 0 - 0					
		Home	Nursing Home	Assisted Living	Other	
	🖸 SB	97.2	0	0	2.9	
	D WE	97.7	0.2	1.4	0.7	
	NH	0	81.4	17.2	1.5	
	🖸 HB	100	0	0	0	
	□ KY	69.3	24.3	5.6	0.8	
Can dana Dru	C	Arrangements		70	Sample	
Sanders-Bro		p N = 70 se, apt., mobile home	etc)	70 68	100 97.2	
	ursing Hor		e, etc.)	0	0.0	
		ing Facility		0	0.0	
	ther			2	2.9	
Well Elders	N = 430			430	100	
		se, apt., mobile home	e, etc.)	420	97.7	
Nursing Home				1	0.2	
Assisted Living Facility				6	1.4	
Other				3	0.7	
Nursing Hor	ne Elders	5 N = 413		413	100	
Home (house, apt., mobile home, etc.)			e, etc.)	0	0.0	
N	ursing Hor	ne		336	81.4	
Assisted Living Facility				71	17.2	
A.				6	1.5	
	ther			0	1.5	
		N = 473		473	1.0	

Elders' Current Living Arrangements

Other	0	0.0
KY Statewide Elders N = 1386	1386	100
Home (house, apt., mobile home, etc.)	961	69.3
Nursing Home	337	24.3
Assisted Living Facility	77	5.6
Other	11	0.8

Statewide, 69.3% of sampled elders live at home and 24.3% live in nursing homes. The remaining 6.4% live elsewhere (assisted living facilities, etc.).

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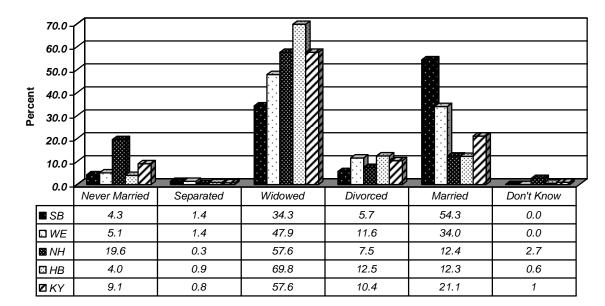
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KEOHS Elders' Marital Status (AQ8)

This page describes the elders' self-reported marital status.





Marital Status	Total Sample	Percent of Total
		Sample

Sanders-Brown Group N = 70		70	100
	Never Married	3	4.3
	Separated	1	1.4
	Widowed	24	34.3
	Divorced	4	5.7
	Married	38	54.3
	Don't know/not sure	0	0.0

Well Elders $N = 430$		430	100
	Never Married	22	5.1
	Separated	6	1.4
	Widowed	206	47.9
	Divorced	50	11.6
	Married	146	34.0
	Don't know/not sure	0	0.0

Nursing Home Elders N = 413		413	100
	Never Married	81	19.6
	Separated	1	0.3
	Widowed	238	57.6
	Divorced	31	7.5
	Married	51	12.4
	Don't know/not sure	11	2.7

	Marital Status	Total Sample	Percent of Total Sample
		470	100
Homebound Elders N = 473		473	100
	Never Married	19	4.0
	Separated	4	0.9
	Widowed	330	69.8
	Divorced	59	12.5
	Married	58	12.3
	Don't know/not sure	3	0.6
KY Statewide Elders N = 1386		1386	100
	Never Married	125	9.1
	Separated	12	0.8
	Widowed	798	57.6
	Divorced	144	10.4
	Married	293	21.1
	Don't know/not sure	14	1.0

The majority of elders in this sample were widowed (57.6%). The next highest percentage of elders in the sample were married (21.1%) As might be expected the greatest percent of married elders were in the Sanders-Brown group (54.3%), followed by the well elders (34.0%), with the fewest married elders among the nursing home elders (12.4%) and homebound elders (12.3%). Conversely, the greatest percent of widowed elders were in reverse order: HB elders 69.8%, NH elders 57.6%, well elders 47.9%, and SB elders 34.3.

KEOHS Elders' Household Composition (AQ9)

This page describes the elders' household living arrangements and composition.

Percent	00 - 90 - 80 - 70 - 50 - 40 - 30 - 20 - 10 -								
	Ū	Category 1	Category 2	Category 3	Category 4	Category 5	Category 6	Category 7	Category 8
∎ S	SB	44.3	51.4	2.9		1.4			
οv	NE	52.1	33	9.3	3	0.9	0.7	0.5	0.5
	VН	0.5	1.2	0	0	0	98.1	0.3	0
⊡ <i>H</i>	ΙB	80.6	10.8	5.7	2.8	0.1	0	0	0
⊠ <i>K</i>	٢Y	46	16.9	5	1.9	0.4	29.4	0.2	0.2

Elders' Household Composition

	Self-Reported	Self-Reported Household Composition		Percent of Total Sample
anders	-Brown Group N	= 70	70	100
	Category 1	Live Alone	31	44.3
	Category 2	With Spouse	36	51.4
	Category 3	With Children	2	2.9
	Category 4	With Relatives	0	0.0
	Category 5	With Non-Relatives	1	1.4
	Category 6	Nursing Home/Asst. Living Facility	0	0.0
	Category 7	Don't Know/Not Sure	0	0.0
	Category 8	Refused	0	0.0
Vell Eld	ers N = 430		430	100
	Category 1	Live Alone	224	52.1
	Category 2	With Spouse	142	33.0
	Category 3	With Children	40	9.3
	Category 4	With Relatives	13	3.0
	Category 5	With Non-Relatives	4	0.9
	Category 6	Nursing Home/Asst. Living Facility	3	0.7
	Category 7	Don't Know/Not Sure	2	0.5
	Category 8	Refused	2	0.5

Self-reported Household Composition	Total Sample	Percent of Total
		Sample

Nursing Home Elders N =	413	413	100
Category 1	Live Alone	2	0.5
Category 2	With Spouse	5	1.2
Category 3	With Children	0	0.0
Category 4	With Relatives	0	0.0
Category 5	With Non-Relatives	0	0.0
Category 6	Nursing Home/Asst. Living Facility	405	98.1
Category 7	Don't Know/Not Sure	1	0.3
Category 8	Refused	0	0.0

Homebound Elder	omebound Elders N = 473			100
Categ	ory 1	Live Alone	381	80.6
Categ	ory 2	With Spouse	51	10.8
Categ	ory 3	With Children	27	5.7
Categ	ory 4	With Relatives	13	2.8
Categ	ory 5	With Non-Relatives	1	0.1
Categ	ory 6	Nursing Home/Asst. Living Facility	0	0.0
Categ	ory 7	Don't Know/Not Sure	0	0.0
Categ	ory 8	Refused	0	0.0

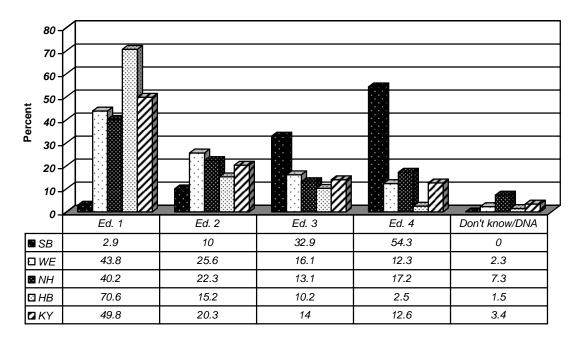
KY Statewi	KY Statewide Elders N = 1386			100
	Category 1	Live Alone	638	46.0
	Category 2	With Spouse	234	16.9
	Category 3	With Children	69	5.0
	Category 4	With Relatives	26	1.9
	Category 5	With Non-Relatives	6	0.4
	Category 6	Nursing Home/Asst. Living Facility	408	29.4
	Category 7	Don't Know/Not Sure	3	0.2
	Category 8	Refused	2	0.2

Statewide, 46% of elders live alone. Another 16.9% live with their spouse and 5% live with their children. Not surprisingly, 29.4% of elders surveyed live in nursing homes since we targeted the NH elders. Only 1.9% of elders live with relatives other than children or spouses.

Regarding elder groups, 52.1% of the well elders live alone and 33% live with their spouse, whereas 44.3% of the Sanders-Brown group live alone and 51.4% live with their spouse. The majority of HB elders live alone, another 10.8% live with their spouse and 5.7% live with children.

KEOHS Elders by Education (AQ11)

This page describes the elder sample by educational level attained.



Elders' Education Level

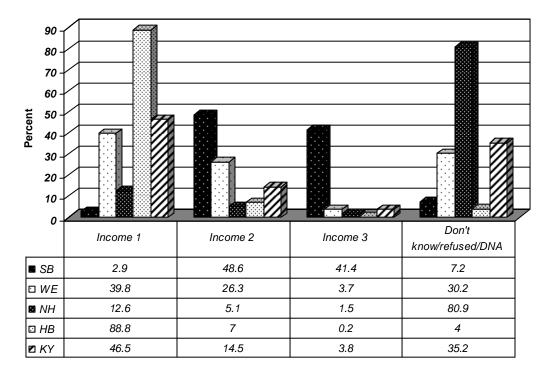
		Sa	mple
		Total Sample	Percent of Total Sample
Sanders-Brow	n Group N = 70	70	100
Education 1	Less than High School	2	2.9
Education 2	High School/GED	7	10.0
Education 3	Some College/Associate Degree	23	32.9
Education 4	College or Greater	38	54.3
	Don't know/Did not answer	0	0.0
Well Elders N	= 430	430	100
Education 1	Less than High School	188	43.8
Education 2	High School/GED	110	25.6
Education 3	Some College/Associate Degree	69	16.1
Education 4	College or Greater	53	12.3
	Don't know/Did not answer	10	2.3
		÷	
Nursing Home	Elders $N = 413$	413	100
Education 1	Less than High School	166	40.2
Education 2	High School/GED	92	22.3
Education 3	Some College/Associate Degree	54	13.1
Education 4	College or Greater	71	17.2
	Don't know/Did not answer	30	7.3

		Sa	mple
		Total Sample	Percent of Total Sample
Homebound El	ders N = 473	473	100
Education 1	Less than High School	334	70.6
Education 2	High School/GED	72	15.2
Education 3	Some College/Associate Degree	48	10.2
Education 4	College or Greater	12	2.5
	Don't know/Did not answer	7	1.5
KY Statewide	Elders N = 1386	1386	100
Education 1	Less than High School	690	49.8
Education 2	High School/GED	281	20.3
Education 3	Some College/Associate Degree	194	14.0
Education 4	College or Greater	174	12.6
	Don't know/Did not answer	47	3.4

Statewide, of those elders sampled, almost half (49.8%) had less than a high school education (attended up to 12th grade), but did not graduate from high school). Another 20.3% had a high school education, 14% had some college or an associate degree, and 12.6% obtained a college degree or advanced (graduate degree) education. Kentucky elders with less than a 12th grade education ranged from a high of 70.6% (homebound), 43.8% (well elders), 40.2% (nursing home), to a low of 2.9% in the SB elders. Conversely, the SB elders attained the highest educational status with 87.2% with at least some college, assoc. degree or higher, well elders with 28.4% with some college or greater, NH elders with 30.3% with some college or greater, and the HB elders with only 12.7% attaining some college education or higher

KEOHS Elders by Family Income (AQ13)

This page describes the elder sample by family income.



Elders by Family Income Category

		Sample	
		Total Sample	Percent of Total Sample
Sanders-Brown Group N = 70		70	100
Income 1	< 15,000	2	2.9
Income 2	15,000 - 49,999	34	48.6
Income 3	50,000+	29	41.4
	Don't know/refused/did not answer	5	7.2

Well Elders N = 430		430	100
Income 1	<15,000	171	39.8
Income 2	15,000 - 49,999	113	26.3
Income 3	50,000+	16	3.7
	Don't know/refused/did not answer	130	30.2

Nursing Home Elders N = 413		413	100
Income 1	<15,000	52	12.6
Income 2	15,000 - 49,999	21	5.1
Income 3	50,000+	6	1.5
	Don't know/refused/did not answer	334	80.9

Homebound Elders N = 473		473	100
Income 1	<15,000	420	88.8
Income 2	15,000 – 49,999	33	7.0
Income 3	50,000+	1	0.2
	Don't' know/refused/did not answer	19	4.0

		Sample	
		Total Sample	Percent of Total Sample
KY Statewide Elders N = 1386 1386 100		100	
Income 1	<15,000	645	46.5
Income 2	15,000 – 49,999	201	14.5
Income 3	50,000+	52	3.8
	Don't know/not sure/did not answer	488	35.2

Statewide, almost half (46.5%) of sampled elders' family income was \$15,000 or less. Another 14.5% of elders earned from \$15,000 up to \$50,000 and 3.8% of elders earned \$50,000 or greater.

Regarding elder groups, 39.8% of the well elders reported an income of less than \$15,000 as compared to only 2.9% of the Sanders-Brown group. Conversely, 41.4% of the Sanders-Brown group reported incomes of \$50,000 or higher and only 3.7% of the well elders reported an income of \$50,000 or higher. Only 12.6% of the nursing home elders reported having incomes of less than \$15,000. The majority of nursing home elders did not know, were unsure, or refused to report their family income (80.9%). Almost 90% (88.8%) of the HB elders reported having incomes of less than \$15,000.

KEOHS Elders' General Health Problems Experienced During the Past 12 Months (AQ15)

This page describes the elders' most common general health problems as indicated for the past 12 months.

	The Most Common General Health	Total Sample	% of Total
	Problems the Past 12 Months		Sample
Sanders-Brown Group N=70		* * *	* * *
	High Blood Pressure	31	44.3
	Arthritis/Rheumatism	29	41.4
	Back Problems	20	28.6
	Diabetes	9	12.9
	Heart Problems	9	12.9
Well Elders N=430		* * *	* * *
	High Blood Pressure	221	51.4
	Arthritis/Rheumatism	183	42.6
	Heart Problems	106	24.6
	Diabetes	91	21.2
	Back Problems	90	20.9
		•	•
Nursing Home Elders N=413		* * *	* * *
	High Blood Pressure	163	39.5
	Arthritis/Rheumatism	154	37.3
	Heart Problems	130	31.5
	Diabetes	80	19.4
	Back Problems	63	15.3
		•	
Homebound Elders N=473		* * *	* * *
	Arthritis/Rheumatism	371	78.4
	High Blood Pressure	308	65.1
	Back Problems	247	52.2
	Heart Problems	225	47.6
	Diabetes	133	28.1
		•	•
KY Statewide Elders N = 1386		* * *	* * *
	Arthritis/Rheumatism	737	53.2
	High Blood Pressure	723	52.2
	Heart Problems	470	33.9
	Back Problems	420	30.3
	Diabetes	324	23.4

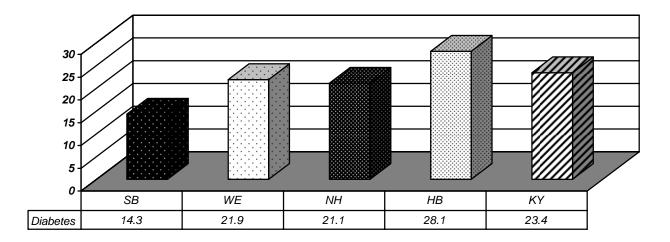
***Number and percent of total sample does not equal 100% because participants were asked to list all general health problems that applied.

Over half of the elders sampled reported arthritis/rheumatism (53.2%) and high blood pressure (52.2%). Besides arthritis and high blood pressure, the other top three health problems reported were: heart problems (33.9%), back problems (30.3%) and diabetes (23.4%).

The most reported general health problems experienced within the past 12 months by the Sanders-Brown elders was high blood pressure (44.3%), followed by arthritis/rheumatism (41.4%). Similarly, the well elders and the nursing home elders' top two general health problems were also high blood pressure (51.4% and 39.5% respectively), followed by arthritis/rheumatism (42.6% and 37.3% respectively). Homebound elders also reported the top two general health problems as arthritis/rheumatism (78.4%), and high blood pressure (65.1%), but this order was reversed compared to the other three groups.

KEOHS Elders with Diabetes (Self-Report) (AQ16)

This page describes the self-reported diabetic status of the sample population of elders.



Elders Who Reported Diabetes

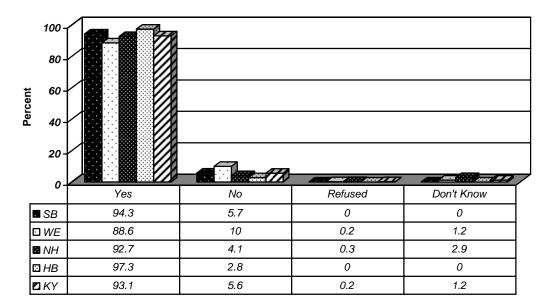
Self-Reported Diabetes		# of Sample Reporting Diabetes	Percent of Total Sample with Diabetes
Sanders-Brown Group	N = 70	10	14.3
Well Elders	N = 430	94	21.9
Nursing Home Elders	N = 413	87	21.1
Homebound Elders	N = 473	133	28.1
KY Statewide Elders	N = 1386	324	23.4

Statewide, 23.4% of Kentucky elders reported having diabetes. Regarding elder groups, the highest group reporting diabetes is the homebound with 28.1%, followed by the well elders and NH elders with 21.9% and 21.1% respectively, and the SB group with the lowest percentage of diabetes 14.3%. The KEOHS statewide sample (23.4%) is slightly higher than the 17.6% reported in the 2003 BRFSS report for Kentucky, age 65 years and older. Except for the SB group, the percentage of elders with diabetes reported is more than double the rate reported for the 2002 KAOHS (10%).

KEOHS Elders Who Take Medications (AQ17)

This page describes the elders who take medications.

Elders Who Reported Taking Medications



Sanders-Brown Group N = 70 70 100 Yes 66 94.3 No 4 5.7		Total Sample Percent of Total Samp		
	Sanders-Brown Group N	70 100	ders-Brown Group	100
No 4 57		66 94.3		94.3
10 4 3.7		4 5.7		5.7
Refused 0 0.0		0 0.0		0.0
Did not answer 0 0.0		0 0.0		0.0

Well Elders N = 430		430	100
	Yes	381	88.6
	No	43	10.0
	Refused	1	0.2
	Did not answer	5	1.2

Nursing Home Elders N = 413		413	100
	Yes	383	92.7
	No	17	4.1
	Refused	1	0.3
	Did not answer	12	2.9

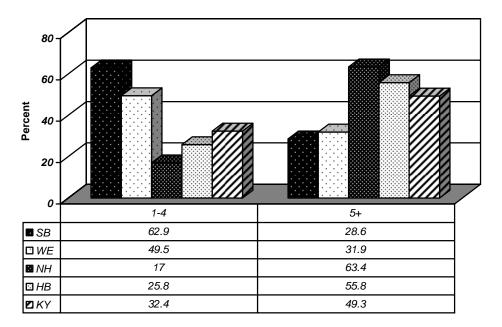
Homebound Elders N = 473		473	100
	Yes	460	97.3
	No	13	2.8
	Refused	0	0.0
	Did not answer	0	0.0

KY Statewide Elders N = 1386		1386	100
	Yes	1290	93.1
	No	77	5.6
	Refused	2	0.2
	Did not answer	17	1.2

Statewide, almost all elders sampled take medications (93.1%).

KEOHS Elders' Reported Number of Prescription Medications Currently Being Taken (AQ17s1)

This page describes the current number of prescription medications taken by the elders.



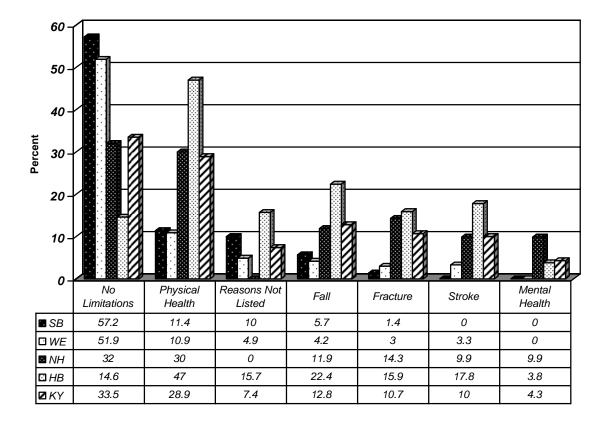


	Self-Reported Number of Prescription Medications Taken	Sample reporting taking prescription meds	Percent of Total Sample
Sanders-Brown Group N	l = 70	64	91.4
	1 – 4	44	62.9
	5 +	20	28.6
Well Elders N = 430		350	81.4
	1 – 4	213	49.5
	5 +	137	31.9
Nursing Home Elders N	= 413	332	80.4
	1 – 4	70	17.0
	5 +	262	63.4
Homebound Elders N =	473	386	81.6
	1 - 4	122	25.8
	5 +	264	55.8
KY Statewide Elders N = 1386 1132			
	1 - 4	449	32.4
	5 +	683	49.3

Statewide, the majority of elders take prescription meds (1132/1382, 81.7%). The Sanders-Brown elders take the most prescription meds (64/70, 91.4%), followed by the homebound elders (386/473, 81.6%). The majority of well elders also take prescription meds (350/430, 81.4%), as well as the nursing home elders (332/413, 80.4%). However, the majority of nursing home elders take 5 or more prescription meds (262/413, 63.4%), followed by the homebound elders (264/473, 55.8%). This high number of medications being taken is characteristic of elder populations managing chronic diseases and conditions, and is consistent with the literature.

KEOHS Elders' Top Conditions/Diseases that Limit Mobility (AQ19)

This page describes the top conditions and/or diseases reported that limit mobility among elders.



Elders' Top Conditions/Diseases that Limit Mobility

	Self-Reported Conditions/Diseases that Limit Mobility	Total Sample	Percent of Total Sample
Sanders-Brown N=70		* * *	* * *
-	No Limitations	40	57.2
	Physical Health	8	11.4
	Reasons Not Listed	7	10.0
	Fall	4	5.7
	Fracture (hip, knee, ankle)	1	1.4
	Stroke	0	0.0
	Mental Health	0	0.0
Well Elders N=430		* * *	* * *
	No Limitations	223	51.9
	Physical Health	47	10.9
	Reasons Not Listed	21	4.9
	Fall	18	4.2
	Fracture (hip, knee, ankle)	13	3.0
	Stroke	14	3.3
	Mental Health	0	0.0

	Self-Reported Conditions/Diseases that Limit Mobility	Total Sample	Percent of Total Sample
Nursing Home Elders	I=413	* * *	***
	No Limitations	132	32.0
	Physical Health	124	30.0
	Reasons Not Listed	0	0.0
	Fall	49	11.9
	Fracture (hip, knee, ankle)	59	14.3
	Stroke	41	9.9
	Mental health	41	9.9
Homebound Elders N=-	473	* * *	***
	No Limitations	69	14.6
	Physical Health	222	47.0
	Reasons Not Listed	74	15.7
	Fall	106	22.4
	Fracture (hip, knee, ankle)	75	15.9
	Stroke	84	17.8
	Mental Health	18	3.8
KY Statewide Elders N :	= 1386	* * *	* * *
	No Limitations	464	33.5
	Physical Health	401	28.9
	Reasons Not Listed	102	7.4
	Fall	177	12.8
	Fracture (hip, knee, ankle)	148	10.7
	Stroke	139	10.0
	Mental Health	59	4.3

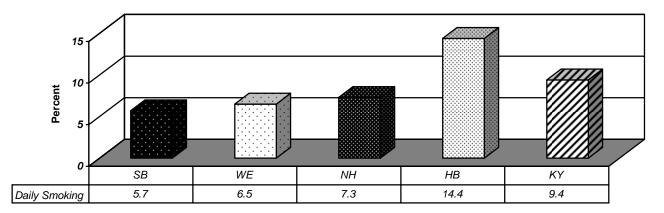
***Total sample numbers and percentages do not equal 100% because more than one category may have been chosen.

Statewide, elders' top conditions/diseases that limit mobility, in descending order, were: physical health limitations (28.9%, falls (12.8%), fractures (hip, knee, ankle) (10.7%), and stroke (10%).

Regarding elder groups, 51.9% of the well elders reported that they have no limitations of their mobility due to any conditions and/or diseases. Among the Sanders-Brown group, 57.2% reported no limitations. The greatest percentage of limitations were in the homebound elders (47% with physical health limitations, 22.4% limited due to a fall, and 17.8% limited due to stroke), followed by the nursing home elders (30% with physical health limitations, 14.3% due to a fracture of the hip, knee or ankle, 11.9% limited due to a fall and 9.9% with a stroke).

KEOHS Elders Who Smoke Cigarettes Every Day (AQ22a)

This page describes the elders who reported smoking cigarettes every day. This does not include people who use other forms of tobacco only (i.e. spit tobacco, pipes or cigars)



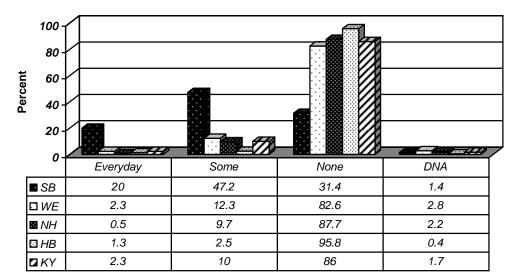
Elders Who Smoke Cigarettes Every Day

Self-Reported Smoking Cigarettes Daily		Number of Everyday Smokers	Percent of Everyday Smokers
Sanders-Brown Group	N = 70	4	5.7
Well Elders	N = 430	28	6.5
Nursing Home Elders	N = 413	30	7.3
Homebound Elders	N = 473	68	14.4
KY Statewide Elders	N = 1386	130	9.4

Statewide, only 9.4% of all sampled elders reported smoking every day. Only 5.7% of the Sanders-Brown group, 6.5% of the well elders, and 7.3% of the nursing home elders reported smoking cigarettes everyday compared to the total adult population of 26.8% as reported in the 2002 KAOHS results. In the 2003 BRFSS for people aged 65 years and older, 12.5% reported smoking cigarettes daily. The only group surveyed which was similar to the BRFSS findings was the homebound group in which 14.4% reported smoking every day

KEOHS Elders' Self-Reported Frequency of Alcohol Consumption (AQ23a)

This page describes the self-reported frequency of alcohol consumption by elders



Elders' Self-Reported Frequency of Alcohol Consumption

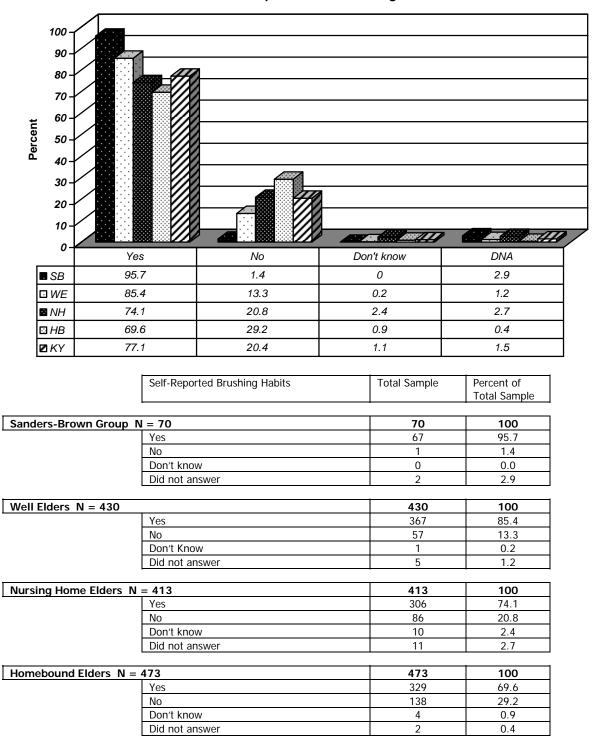
Self-Reported Frequency of Alcohol	Total Sample	Percent of
	Total Sample	Total Sample
		rotal outliplo
N = 70	70	100
Everyday	14	20.0
Some	33	47.2
None	22	31.4
Did Not Answer	1	1.4
		100
		2.3
		12.3
		82.6
Did Not Answer	12	2.8
= 413	413	100
	2	0.5
Some	40	9.7
None	362	87.7
Did Not Answer	9	2.2
		100
	-	1.3
		2.5
		95.8
Did Not Answer	2	0.4
KY Statewide Elders N = 1386		100
		2.3
Some	138	10.0
		86.0
Did Not Answer	24	1.7
	Some None Did Not Answer Everyday Some None Did Not Answer = 413 Everyday Some None Did Not Answer 473 Everyday Some None Did Not Answer	Consumption 70 V = 70 70 Everyday 14 Some 33 None 22 Did Not Answer 1 430 430 Everyday 10 Some 53 None 355 Did Not Answer 12 = 413 413 Everyday 2 Some 40 None 362 Did Not Answer 9 473 473 Everyday 6 Some 12 None 362 Did Not Answer 9 473 473 Everyday 6 Some 12 None 453 Did Not Answer 2 = 1386 1386 Everyday 32 Some 138 None 1192

Statewide, most elders (86.0%) reported having consumed no alcoholic beverages within the past 30 days. Ten percent (10.0%) reported drinking some alcohol occasionally, but not every day, and 2.3% of elders reported drinking alcohol daily.

Regarding elder groups,, almost 83% of well elders reported having consumed no alcoholic beverages within the past 30 days. Similar percentages reveal the great majority of NH and HB elders also do not drink (87.8% and 95.8%, respectively). Twenty percent of the Sanders-Brown group reported daily alcohol consumption compared to the well elders' report of 2.3% and even less for the NH and HB elders. The 2003 BRFSS data reported that 16.9% of people aged 65 years and older had a drink within the past 30 days.

KEOHS Elders' Self-Report on Toothbrushing Habits (AQ25)

This page describes the elders who reported toothbrushing habits.



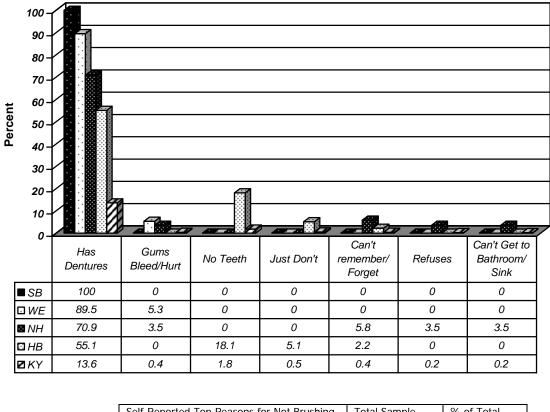
Elders' Self-Reported Toothbrushing Habits

	Self-Reported Brushing Habits	Total Sample	Percent of Total Sample
KY Statewide Elders N =	= 1386	1386	100
	Yes	1069	77.1
	No	282	20.4
	Don't know	15	1.1
	Did not answer	20	1.5

Statewide, the majority of elders reported brushing their teeth at least once a day (77.1%). Regarding elder groups, 85.4% of the well elders reported that they brushed their teeth and 95.7% of the Sanders-Brown reported brushing habits. Only 74.1% of the nursing home elders reported brushing their teeth, followed by the homebound elders who reported the lowest percent of those brushing (69.6%).

Top Reasons KEOHS Elders Reported for Not Brushing their Teeth Regularly (AQ25s1)

This page describes the main reasons the elders gave for not brushing..



Elders' Self-Reported Reasons for Not Brushing Teeth Regularly

	Self-Reported Top Reasons for Not Brushing	Total Sample	% of Total
	Regularly	who answered	Sample who
		No to question	answered No
		on brushing	to question
Sanders-Brown Group	N=1*	* * *	* * *
	Has Dentures/ Uses Polident	1	100.0
Well Elders N=57*		* * *	* * *
	Has Dentures/Have no teeth	51	89.5
	Gums Bleed/Hurt	3	5.3
Nursing Home Elders N	l=86*	* * *	* * *
	Has Dentures/Have no teeth	61	70.9
	Can't remember	5	5.8
	Refuses	3	3.5
	Can't get to bathroom/sink	3	3.5
	They bleed or hurt when brushing	3	3.5
Homebound Elders N=138*		* * *	* * *
	Has Dentures	76	55.1
	No teeth	25	18.1
	Just Don't	7	5.1
	Can't remember (forget)	3	2.2

Self-Reported Top Reasons for Not Brushing	Total Sample	% of Total
Regularly	who answered	Sample who
	No to question	answered No
	on brushing	to question

KY Statewide Elders N = 282*	* * *	* * *
Has Dentures	189	13.6
Gums bleed/hurt	6	0.4
No teeth	25	1.8
Just don't	7	0.5
Can't remember (forget)	7	2.5
Refuses	3	0.2
Can't get to bathroom/sink	3	0.2

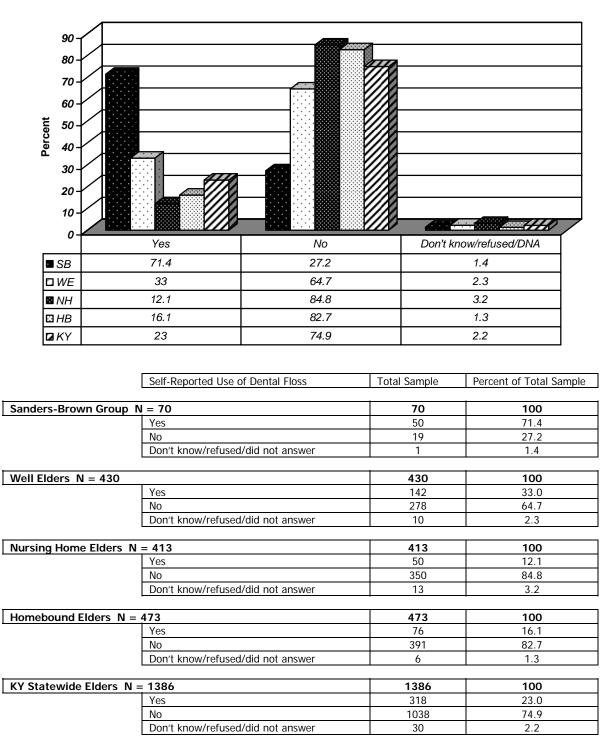
*Totals of elders in each group who reported not brushing their teeth.

***Does not equal 100% because there were more reasons given for not brushing than those listed. Single responses by the NH group include: put it off, too busy, don't have enough time, never taught how to, no brush, no use of hands, not able, only brush when children come, requires verbal cues and assistance, staff does not brush, too hard. The most frequent response given by NH elders for not brushing teeth was wearing dentures/having no teeth.

Among the homebound elders, single responses included: afraid of teeth falling out, causes pain, don't even know where toothbrush is, don't feel like it, don't need to – chews tobacco instead, don't want to, inconvenient, lazy, limited mobility in hands due to arthritis.

KEOHS Elders' Self-Report on Use of Dental Floss (AQ26)

This page describes the self-reported use of dental floss by elders.

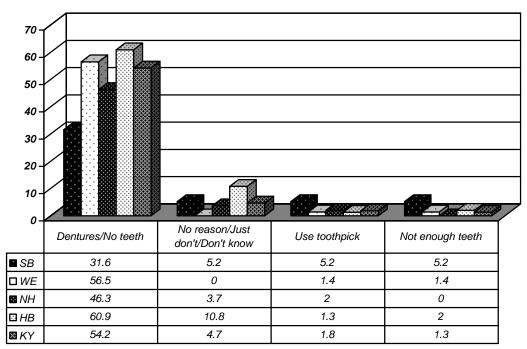


Elders' Self-Reported Use of Dental Floss

Statewide, a much lower percent (23.0%) of all sampled elders reported t flossing regularly. However, there was a wide range of flossing reported between elder groups, with only 33.0% of the well elders reporting using dental floss while 71.4% of the Sanders-Brown group reported using dental floss. Only a very small percentage of the homebound sample reported using dental floss (16.1%) followed by the nursing home elders at 12.1%. If you include only the number of dentate elders (those who have teeth), the number of elders who floss increases to 42.5%. Of the elders who reported using dental floss, almost all reported using it 1 or 2 times a day.

KEOHS Elders' Self-Report on Not Using Dental Floss (AQ26s1)

This page describes the elders' self-reported top reasons for not using dental floss regularly.



Elders' Reasons Given for Not Flossing Teeth

	Self-Reported Top Reasons for Not using Dental Floss	Total Sample who answered No to question on flossing	% of Total Sample who answered No to question
Sanders-Brown Group	N=19*	* * *	* * *
•	Dentures/no teeth	6	31.6
	No reason, just don't	1	5.2
	Use toothpick	1	5.2
	Not enough teeth	1	5.2
Well Elders N=278*		* * *	* * *
<u>.</u>	Dentures/no teeth	157	56.5
	No reason, just don't	0	0.0
	Use toothpick	6	2.2
	Not enough teeth	4	1.4
Statewide NH Elders N:	=350*	* * *	* * *
	Dentures/no teeth	162	46.3
	No reason, just don't	6	3.7
	Use toothpick	7	2.0
	Not enough teeth	0	0.0
Statewide Homebound E	Iders N = 391*	* * *	* * *
	Dentures/no teeth	238	60.9
	No reason, just don't	42	10.8
	Use toothpick	5	1.3
	Not enough teeth	8	2.0

Self-Reported Reasons for Not using Dental	Total Sample	% of Total
Floss	who answered	Sample who
	No to question	answered No
	on flossing	to question

KY Statewide Elders N = 1038*		* * *	* * *
	Dentures/no teeth	563	54.2
	No reason, just don't	49	4.7
	Use toothpick	19	1.8
	Not enough teeth	13	1.3

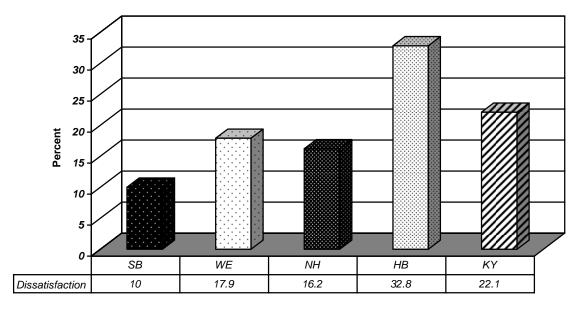
*Number who reported not using dental floss.

***Does not equal 100% because there were more reasons given for not flossing than those listed.

Other responses given by well elders included: don't think of/ forget, don't do, and dislike flossing. Other responses by nursing home elders were: gets stuck in teeth, no reason, dislike doing it, don't take the time, don't think of it, forget, too hard, mouth too small, afraid floss will break, confusion, unable due to arthritis, don't bother (teeth too bad), can't do it, hurts, don't want to, don't have two hands, no need, unable due to stroke, too much trouble. Additional reasons given by homebound elders included: I can't do it myself, broke tooth while flossing 1 year ago, can't hold floss, causes bleeding, doesn't like to, too much trouble, doesn't think it is necessary, doesn't have any floss, flossing doesn't help, got on nerves so quit, painful, inconvenient, limited mobility in hands, never have flossed, teeth are too close together, teeth are too bad, too lazy.

KEOHS Elders Who Reported Dissatisfaction with their Ability to Chew (AQ27a)

This page describes the elders who reported dissatisfaction with their ability to chew food as a result of the condition of their teeth, gums or dentures.



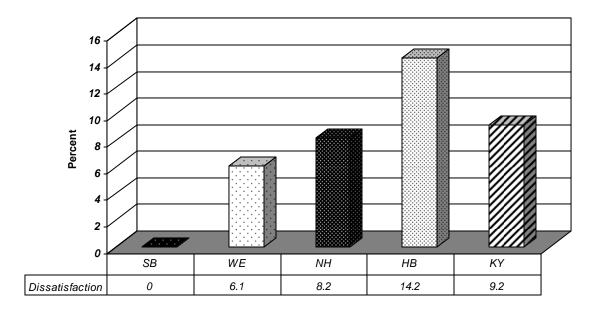
Elders' Dissatisfaction with the Ability to Chew

Dissatisfaction with the Ability to Chew	# (%) of Total Sample
Sanders-Brown Group N = 70	7 (10.0)
Well Elders N = 430	77 (17.9)
Nursing Home Elders N = 413	67 (16.2)
Homebound Elders N = 473	155 (32.8)
KY Statewide Elders N = 1386	306 (22.1)

Statewide, 22.1% of elders reported dissatisfaction with their ability to chew food as a result of the condition of their teeth, gums, or dentures. This ranged from a low of 10.0% in the SB group to a high of 32.8% in the HB elders.

KEOHS Elders Who Reported Dissatisfaction with the Ability to Speak Clearly (AQ27b)

This page describes the elders who reported dissatisfaction with their ability to speak clearly as a result of the condition of their teeth, gums or dentures.



Elders' Dissatisfaction with the Ability to Speak Clearly

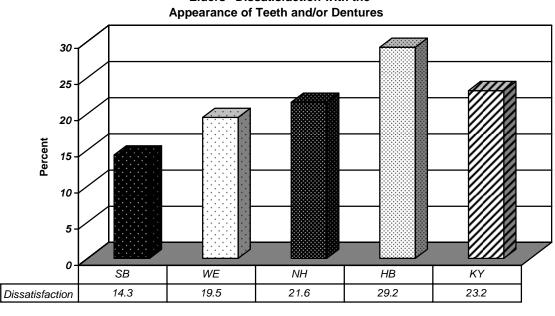
Dissatisfaction with	# (%) of Total Sample	
Sanders-Brown Group	N = 70	0 (0.0)
Well Elders	N = 430	26 (6.1)
Nursing Home Elders	N = 413	34 (8.2)
Homebound Elders	N = 473	67 (14.2)
KY Statewide Elders	N = 1386	127 (9.2)
		· · · ·

Statewide, 9.2% of elders reported dissatisfaction with their ability to speak clearly as a result of their teeth, gums or dentures. This ranged from a low of no reports (0%) from the SB group to a high of 14.2% for the homebound elders.

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KEOHS Elders' Dissatisfaction with the Appearance of Teeth and/or Dentures (AQ27c)

This page describes the elders who reported dissatisfaction with the appearance of their teeth and/or dentures.



Elders' Dissatisfaction with the

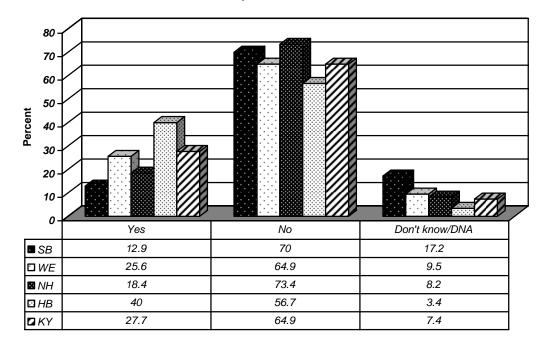
Dissatisfaction with the Appearance of Teeth and/or Dentures		# (%) of Total Sample
Sanders-Brown Group	N = 70	10 (14.3)
Well Elders	N = 430	84 (19.5)
Newslaw Have Fldere	N 440	00 (01 ()
Nursing Home Elders	N = 413	89 (21.6)
Homebound Elders	N = 473	138 (29.2)
KY Statewide Elders	N = 1386	321 (23.2)

Statewide, 23.2% of elders reported dissatisfaction with the appearance of their teeth and/or dentures.

The Sanders-Brown group reported the lowest dissatisfaction with the appearance of their teeth and/or dentures (14.3%). Among the well elders, 19.5% reported dissatisfaction with their teeth and/or dentures. This percentage is the same as the 2002 KAOHS statewide data. Almost 22% (21.6%) of NH elders were dissatisfied with the appearance of teeth and/or dentures and the homebound had the greatest percentage (29.2%) of those who were dissatisfied with the appearance of their teeth and/or dentures.

KEOHS Elders' Self-Report on Current Dental Problems (AQ28)

This page describes the elders' self-report on current dental problems.



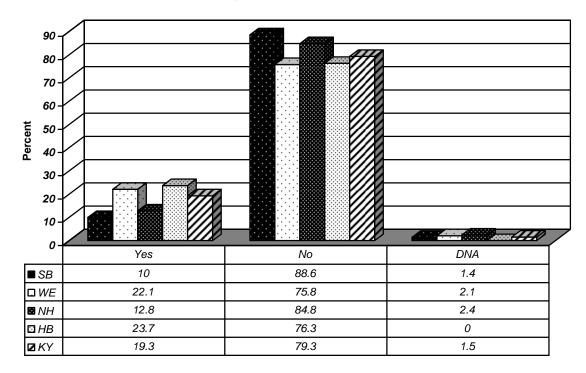
Elders' Self-Report on Current Dental Problems

	Self-Reported Current Dental Problems	Total Sample	Percent of Total Sample	
Sanders-Brown Group N	Sanders-Brown Group N = 70			
	Yes	9	12.9	
	No	49	70.0	
	Don't know/did not answer	12	17.2	
Well Elders N = 430		430	100	
	Yes	110	25.6	
	No	279	64.9	
	Don't know/did not answer	41	9.5	
Nursing Home Elders N	- 413	413	100	
	Yes	76	18.4	
	No	303	73.4	
	Don't know/did not answer	34	8.2	
	470	470	100	
Homebound Elders N =		473	100	
	Yes	189	40.0	
	No	268	56.7	
	Don't know/did not answer	16	3.4	
KY Statewide Elders N = 1386		1386	100	
	Yes	384	27.7	
	No	899	64.9	
	Don't know/did not answer	103	7.4	

Statewide, almost 28% (27.7%) of elders surveyed reported having current dental problems. This ranged from a low of 12.9% in the SB group to a high of 40% in the HB elders.

Kentucky Elders' Self-Report of Pain in Teeth, Gums or Jaws (AQ29)

This page describes the elders' self-report of any dental pain in their teeth, gums or jaws



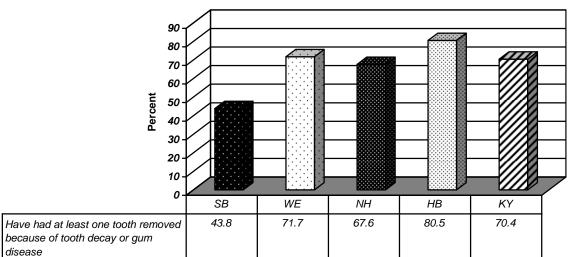


	Self-Reported Pain in Teeth, Gums or Jaws	Total Yes # (%)	Total No # (%)	Did not answer # (%)
Sanders-Brow	vn Group N = 70	7 (10.0)	62 (88.6)	1 (1.4)
Well Elders	N = 430	95 (22.1)	326 (75.8)	9 (2.1)
Nursing Hom	ne Elders N = 413	53 (12.8)	350 (84.8)	10 (2.4)
Homebound	Elders N = 473	112 (23.7)	361 (76.3)	0 (0.0)
KY Statewide	Elders N = 1386	267 (19.3)	1099 (79.3)	20 (1.5)

Statewide, nineteen percent (19.3%) of elders reported having dental pain in their teeth, gums or jaws. The range was a low of 10.0% in the SB group to a high of 23.7% in the HB group.

KEOHS Dentate Elders Who Have Had Teeth Removed Because of Tooth Decay or Gum Disease (AQ33)

This page describes the dentate elders who have had one or more teeth removed because of tooth decay or gum disease.



Teeth Removed Gum Disease	Because of Decay or	Total Dentate Sample	# (%) of Dentate Sample
Sanders-Brown Group	N=70	64*	28 (43.8)
		-	-
Well Elders	N=430	247*	177 (71.7)
Nursing Home Elders	N=413	225**	152 (67.6)
		•	· · · · · · · · · · · · · · · · · · ·
Homebound Elders	N=473	205	165 (80.5)
KY Statewide Elders	N = 1386	741	522 (70.4)

Elders Who Have Had Teeth Removed Because of Tooth Decay or Gum Disease

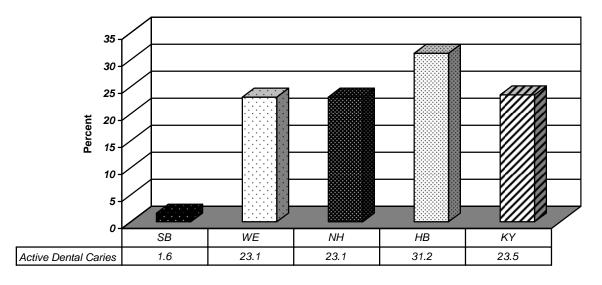
*Number of dentate sample confirmed by clinical question. A total of 64 (out of 70 SB elders) were confirmed dentate by the clinical exam. Similarly, a total of 247 WE were found to be dentate by the clinical exam.

**Only 225 (out of 232 who were found to be dentate in the clinical exam) reported being dentate on this questionnaire.

Statewide, 70.4% of sampled elders had at least one tooth removed due to gum disease or dental caries. Regarding elder groups, 71.7% of dentate well elders and 67.6% of the nursing home elders have had at least one tooth removed due to gum disease or dental caries. Homebound elders reported the highest percentage (80.5%) of those who had one or more teeth removed because of tooth decay or gum disease. In contrast, the SB group reported only 43.8% who had one or more tooth removed due to tooth decay or gum disease. The 2003 BRFSS data showed that statewide, 64.1% of the respondents reported that they have had six or more teeth removed due to decay or gum disease.

KEOHS Dentate Elders Who Reported Dental Caries (AQ33a2)

This page describes the dentate elders who reported having active dental decay in any of their teeth.



Dentate Elders Who Reported Dental Caries

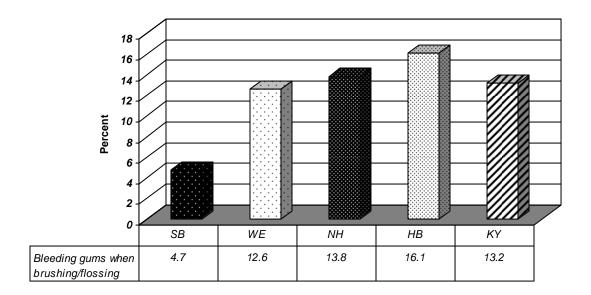
Active Dental	Caries	Total Dentate	# (%) Dentate Sample
		Sample	who Answered Question
Sanders-Brown Group	N = 70	64	1 (1.6)
Well Elders	N = 430	247	57 (23.1)
Nursing Home Elders	N = 413	225*	52 (23.1)
Homebound Elders	N = 473	205	64 (31.2)
KY Statewide Elders	N = 1386	741	174 (23.5)

* Only 225 (out of 232 who were found to be dentate in the clinical exam) reported being dentate on this questionnaire.

Statewide, of those elders who have teeth (are dentate), about one fourth (23.5%) reported having active dental decay. This ranged from a low of 1.6% reported by the SB group to a high of 31.2% in the HB group.

KEOHS Dentate Elders Who Reported Gums Bleeding when Brushing and/or Flossing (AQ33a3)

This page describes the elders who reported their gums bleed when they brush and/or floss their teeth. This excludes edentulous elders, and includes only elders who have one or more natural teeth.



Dentate Elders Who Reported Bleeding Gums when Brushing/Flossing

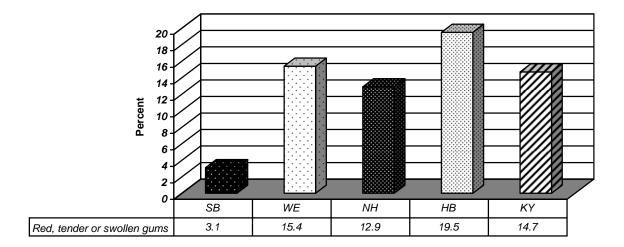
	Bleeding Gums when Brushing and/or Flossing		Total Dentate Sample	# (%) Dentate Sample who answered question
Sanders-Bro	own Group	N = 70	64	3 (4.7)
Well Elders		N = 430	247	31 (12.6)
Well Liders		N = 430	247	51 (12.0)
Nursing Hor	ne Elders	N = 413	225*	31 (13.8)
		N 470	0.05	00 (1 (1)
Homebound	Elders	N = 473	205	33 (16.1)
KY Statewid	le Elders	N = 1386	741	98 (13.2%)

* Only 225 (out of 232 who were found to be dentate in the clinical exam) reported being dentate on this questionnaire.

Statewide, 13.2% of dentate elders reported their gums bleed when they brush and/or floss their teeth. Bleeding gums indicate inflammation and gum disease. Regarding elder groups, 12.6% of the well elders and 13.8% of the nursing home elders reported bleeding when brushing and/or flossing their teeth. This is about three times as many as the Sanders-Brown group where only 4.7% reported bleeding gums. The highest percentage of elders with bleeding gums reported were the homebound elders with 16.1%.

KEOHS Dentate Elders Who Reported Red, Tender or Swollen Gums (AQ33a4)

This page describes the elders reporting red, tender or swollen gums. This excludes edentulous elders, and includes only elders who have one or more natural teeth.



Dentate Elders Who Reported Red, Tender or Swollen Gums

Red, Tende	er or Swollen Gums	Total Dentate Sample	Total Dentate Sample who answered question
Sanders-Brown Grou	p N = 70	64	2 (3.1)
Well Elders	N = 430	247	38 (15.4)
Nursing Home Elders	s N = 413	225*	29 (12.9)
Homebound Elders	N = 473	205	40 (19.5)
KY Statewide Elders	N = 1386	741	109 (14.7)

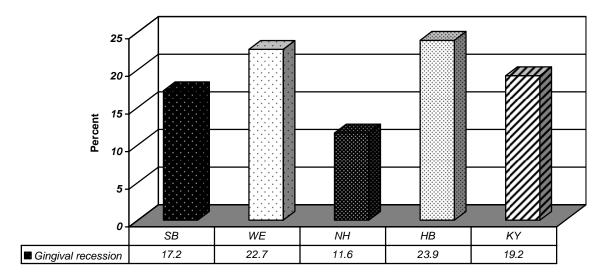
* Only 225 (out of 232 who were found to be dentate in the clinical exam) reported being dentate on this questionnaire.

Statewide, almost fifteen percent (14.7%) of dentate elders reported their gums red, tender, or swollen.

Regarding elder groups, 15.4% of the dentate well elders, 12.9% of the nursing home elders, and 19.5% of the homebound elders reported having red, tender and/or swollen gums as compared to the Sanders-Brown group where only 2 people (3.1%) reported having red, tender and/or swollen gums. Red, tender and swollen gums are indicators of gingival and periodontal diseases.

KEOHS Dentate Elders Who Reported Gingival Recession (AQ33a5)

This page describes the elders who reported that their "gums pull away from their teeth in places". This excludes edentulous elders and includes only elders who have one or more natural teeth.



Dentate Elders Who Reported Gingival Recession

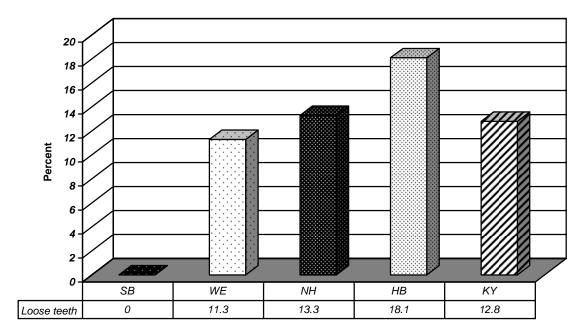
	Gingival Rece	ssion	Total Dentate Sample	# (%) Dentate Sample who answered question
Sanders-B	rown Group	N = 70	64	11 (17.2)
Well Elder	S	N = 430	247	56 (22.7)
Nursing H	ome Elders	N = 413	225*	26 (11.6)
Homebou	nd Elders	N = 473	205	49 (23.9)
KY Statew	vide Elders	N = 1386	741	142 (19.2)

* Only 225 (out of 232 who were found to be dentate in the clinical exam) reported being dentate on this questionnaire.

About twenty percent (19.2%) of dentate elders reported gingival recession. The greatest percentage of recession reported was in the WE (22.7%) and the HB (23.9%) elders.

KEOHS Dentate Elders Who Reported Loose Teeth (AQ33a6)

This page describes the elders' self-report of loose teeth. This excludes edentulous elders and includes only those who have one or more natural teeth.



Dentate Elders Who Reported Loose Teeth

Loose	Teeth	Total Dentate Sample	# (%)Dentate Sample who answered question
Sanders-Brown Group	N = 70	64	0 (0.0)
Well Elders	N = 430	247	28 (11.3)
Nursing Home Elders	N = 413	225*	30 (13.3)
Homebound Elders	N = 473	205	37 (18.1)
KY Statewide Elders	N = 1386	741	95 (12.8)

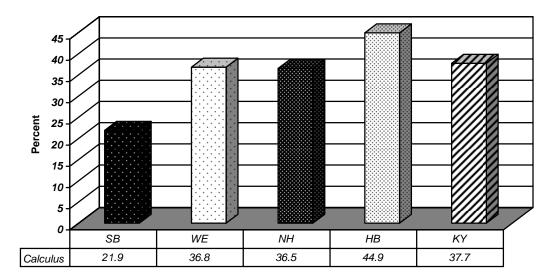
* Only 225 (out of 232 who were found to be dentate in the clinical exam) reported being dentate on this questionnaire.

Statewide, almost 13% (12.8%) of dentate elders reported loose teeth.

Regarding elder groups, 11.3% of well elders, 13.3% of the nursing home elders, and 18.1% of the homebound elders reported having loose teeth, which is a sign of severe periodontal disease. No one in the Sanders-Brown group reported having any loose teeth.

KEOHS Dentate Elders Who Reported Having Calculus, Tartar or Build-up (referred to collectively as calculus) on their Teeth (AQ33a7)

This page describes the elders who reported having calculus on their teeth. This excludes edentulous elders, and includes only those elders who have one or more natural teeth.



Dentate Elders Who Reported Having Calculus

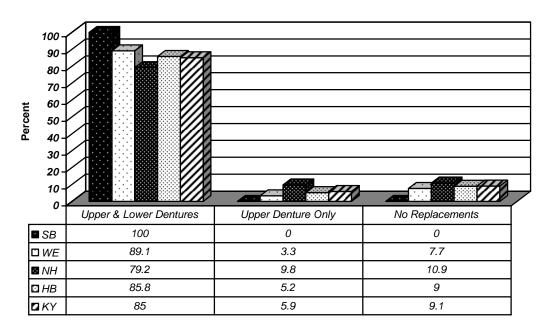
	Calculus, Tartar, or Build-up on Teeth	Total Dentate Sample	# (%) Dentate Sample who answered question			
Sanders-Brow	Sanders-Brown Group N = 70 64 14 (21.9)					
Well Elders	N = 430	247	91 (36.8)			
Nursing Home	Elders N = 413	225*	82 (36.5)			
Homebound E	ders N = 473	205	92 (44.9)			
KY Statewide	Elders N = 1386	741	279 (37.7)			

* Only 225 (out of 232 who were found to be dentate in the clinical exam) reported being dentate on this questionnaire.

Statewide, almost 38% of dentate elders reported having tartar (calculus) on their teeth. Regarding elder groups, 36.8% of the well elders, 36.5% of the nursing home elders, and 44.9% of the homebound elders reported having calculus build-up on their teeth. The Sanders-Brown group reported a lower percentage of having calculus on their teeth, 21.9%. The percentage is higher than the 2002 Kentucky Adult Oral Health Survey (KAOHS) data that reported 20% of adults having calculus build-up on their teeth.

KEOHS Edentulous Elders Who Reported Having Dentures (AQ36)

This page describes the edentulous elders who reported having upper and lower dentures, upper denture only, or no replacements.



Edentulous Elders Who Reported Having Dentures

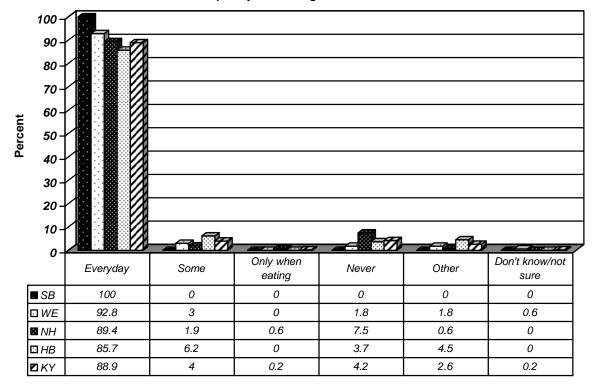
	Have Dentures	Total Edentulous	Percent Edentulous
		Sample who	Sample with or w/out
		Answered	Denture(s)
		Question	
Sanders-Brown Group N = 70		6	100
	Upper & Lower Dentures	6	100.0
	Upper Denture Only	0	0.0
	No replacements	0	0.0
Well Elders N = 430		183	100
	Upper & Lower Dentures	163	89.1
	Upper Denture Only	6	3.3
	No replacements	14	7.7
		-	
Nursing Home Elders N = 413		183*	100
	Upper & Lower Dentures	145	79.2
	Upper Denture Only	18	9.8
	No replacements	20	10.9
Homebound Elders N = 473		268	100
	Upper & Lower Dentures	230	85.8
	Upper Denture Only	14	5.2
	No replacements	24	9.0
			1
KY Statewide Elders N = 1386		640	100
	Upper & Lower Dentures	544	85.0
	Upper Denture Only	38	5.9
	No replacements	58	9.1

*Clinical exam found only 181 Nursing Home elders edentulous.

Statewide, 85% of those elders who are edentulous (have no teeth), reported having upper and lower dentures. This ranged from a low of 79.2% of NH patients who have both upper and lower dentures to a high of 100% of SB elders who have upper and lower dentures (all SB elders who are missing their teeth have dentures). The highest percentage of elders reporting having only an upper denture was 9.8% in the NH elder group and elders reporting having no replacements at all for missing teeth ranged from a low of 0% in the SB group to a high of 10.9% in the NH group.

KEOHS Edentulous Elders' Self- Report on the Frequency of Wearing their Denture(s) (AQ38)

This page describes the frequency of wearing dentures reported by denture wearers.



Edentulous Elders' Self-Report on the Frequency of Wearing their Dentures

Frequency of Wearing	Total Sample with	Percent Sample with
Denture(s)	Dentures who	Dentures Who Wear
	answered question	Their Dentures

Sanders-Brown Group N = 70		6*	100
	Everyday	6	100
Well Elders N = 430		166*	100
	Everyday	154	92.8
	Some	5	3.0
	Never	3	1.8
	Other	3	1.8
	Don't know/Not sure	1	0.6
Nursing Home Elders N =	413	161*	100
	Everyday	144	89.4
	Some	3	1.9
	Only when eating	1	0.6
	Never	12	7.5
	Other	1	0.6
	Don't know/Not sure	0	0.0

	Frequency of Wearing	Total Sample with	Percent Sample with
	Denture(s)	Dentures who	Dentures Who Wear
		answered question	Their Dentures
			•
Homebound Elders N = 47	'3	244*	100
	Everyday	209	85.7
	Some	15	6.2
	Never	9	3.7
	Other	11	4.5
	Don't know/Not sure	0	0.0
		-	•
KY Statewide Elders N = 1	386	577*	100
	Everyday	513	88.9
	Some	23	4.0
	Only when eating	1	0.2

 Only when eating
 1
 0.2

 Never
 24
 4.2

 Other
 15
 2.6

 Don't know/Not sure
 1
 0.2

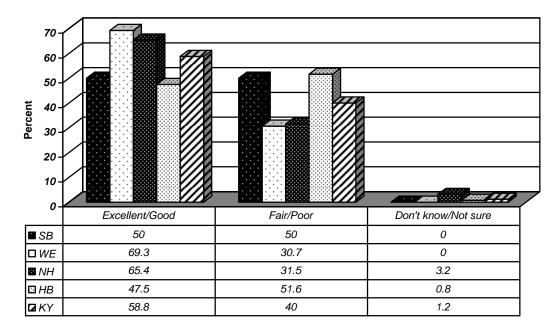
*Number of the edentulous who wear dentures who answered this question

Statewide, the majority of elders who have dentures wear them daily (88.9%).

Regarding elder groups, almost 93% of the well elders who wear dentures reported that they wear them everyday, as do 100% of the Sanders-Brown group, Among the nursing home elders who wear dentures, 89.4% wear them everyday, followed by 85.7% of the homebound elders.

KEOHS Edentulous Elders' Self-Report on Fit of Dentures (AQ39)

This page describes the fit of dentures reported by the elders who wear dentures.



Edentulous Elders' Self-Report on Fit of Dentures

Self-Reported Fit of Denture(s)			
Total Edentulous Sample Percent of Total			
with Dentures who	Edentulous Sample		
answered question	with Dentures who		
	answered question		

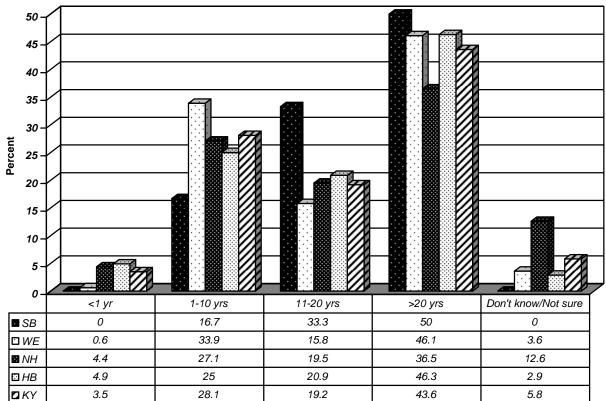
Sanders-Brown Group N = 7	0	6	100
	Excellent/Good	3	50.0
	Fair/Poor	3	50.0
	Don't know/Not sure	0	0.0
Well Elders N = 430		163	100
	Excellent/Good	113	69.3
	Fair/Poor	50	30.7
	Don't know/Not sure	0	0.0
Nursing Home Elders N = 413		159	100
	Excellent/Good	104	65.4
	Fair/Poor	50	31.5
	Don't know/Not sure	5	3.2
Homebound Elders N = 473		244	100
	Excellent/Good	116	47.5
	Fair/Poor	126	51.6
	Don't know/Not sure	2	0.8
KY Statewide Elders N = 13	36	572	100
	Excellent/Good	336	58.8
	Fair/Poor	229	40.0
	Don't know/Not sure	7	1.2

Statewide, the majority of elders who had dentures reported that their denture fit was either excellent or good (58.8%). However, a large minority felt their denture fit was either fair or poor (40.0%).

Regarding the elder groups, 50% of the Sanders-Brown group reported the fit of their dentures as excellent or good and 50% as fair to poor. Of the well elders 69.3% reported the fit of their dentures as excellent or good, and 30.7% reported their denture fit as fair to poor. Similarly, 65.4% of the NH elders reported the fit of their dentures as excellent or good, and 31.5% reported the fit of their dentures as fair to poor. Of the HB elders, 47.5% reported excellent to good denture fit compared to 51.6% who reported fair to poor.

KEOHS Elders' (with Dentures) Self-Report on Length of Time with Present Denture (AQ41)

This page describes the self-report by the elders who wear dentures on how long they have had their current dentures.



Elders' (with Dentures) Self-Report on Length of Time with Present Denture

Length of time with present denture(s)	Total Edentulous Sample with Dentures who answered question	Percent of Total Edentulous Sample with Dentures who answered question
N = 70	6	100
Less than 1 year	0	0.0
1-10 years	1	16.7
11-20 years	2	33.3
More than 20 years	3	50.0
Don't know/Not sure	0	0.0
		1
	165	100
Less than 1 year	1	0.6
1-10 years	56	33.9
11-20 years	26	15.8
More than 20 years	76	46.1
Don't know/Not sure	6	3.6
	denture(s) N = 70 Less than 1 year 1-10 years 11-20 years More than 20 years Don't know/Not sure Less than 1 year 1-10 years 11-20 years More than 20 years Don't know/Not sure Less than 1 year 1-10 years 11-20 years More than 20 years More than 20 years	denture(s)Sample with Dentures who answered questionN = 706Less than 1 year01-10 years111-20 years2More than 20 years3Don't know/Not sure0165Less than 1 year111-10 years5611-20 years26More than 20 years76

Length of time with	Total Edentulous	Percent of Total
present denture(s)	Sample with	Edentulous Sample
	Dentures who	with Dentures who
	answered question	answered question

Nursing Home Elders N =	413	159	100
	Less than 1 year	7	4.4
	1-10 years	43	27.1
	11-20 years	31	19.5
	More than 20 years	58	36.5
	Don't know/Not sure	20	12.6

Homebound Elders N = 473		244	100
	Less than 1 year	12	4.9
	1-10 years	61	25.0
	11-20 years	51	20.9
	More than 20 years	113	46.3
	Don't know/Not sure	7	2.9

KY Statewide Elders N =- 1386		574	100
	Less than 1 year	20	3.5
	1-10 years	161	28.1
	11-20 years	308	19.2
	More than 20 years	250	43.6
	Don't know/Not sure	33	5.8

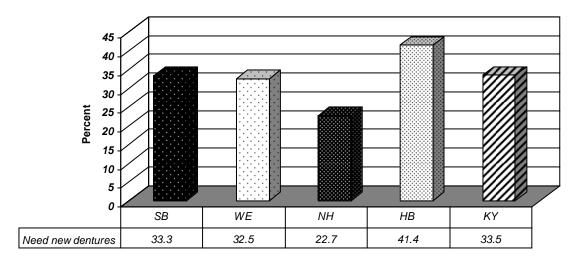
The length of time statewide elders reported having their dentures was as follows:

- ٠
- Less than 1 year (3.5%) From 1 year to 10 years (28.1%) From 11 to 20 years (19.2%) More than 20 years (43.6%). ٠
- ٠
- •

The groups who had their dentures the longest included the NH group (36.5% with dentures 21 or more years old), the WE group (46.1% with dentures 21 or more years old), and HB elders (46.3 with dentures 21 or more years old).

KEOHS Elders' (with Dentures) Self-Report of Need for New Dentures (AQ42)

This page describes the elders who had dentures who said they needed new dentures.



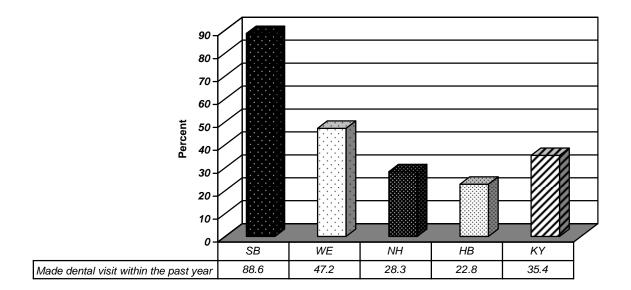
Elders' (with Dentures) Self-Report of Need for New Dentures

Self-F	Report of Need for New Dentures	Total Edentulous Sample with Dentures (from AQ36)	# (%) of Total Edentulous Sample with Dentures Reporting Need for New Dentures
Sanders-Brown G	roup N = 70	6	2 (33.3)
Well Elders	N = 430	169	55 (32.5)
Nursing Home Eld	ers N = 413	163	37 (22.7)
Homebound Elder	s N = 473	244	101 (41.4)
KY Statewide Elde	ers N = 1386	582	195 (33.5)

Statewide, elders' self-reported need for new dentures was 33.5% This ranged from a low of 22.7% for NH elders to a high of 41.4% for HB elders. Most frequent reasons included not being satisfied with the appearance or the way the dentures feel, and current dentures are worn out.

KEOHS Elders Who Made a Dental Visit within the Past Year (AQ43)

This page describes the number and percent of the elders who made a dental visit within the past year. These dental visits were for any reason (pain, preventive, reconstructive, periodontal).



Elders Who Made a Dental Visit within the Past Year

Made a Dental Visit within the Past Year	# (%) of Total Sample
Sanders-Brown Group N = 70	62 (88.6)
Well Elders N = 430	203 (47.2)
Nursing Home Elders N = 413	117 (28.3)
_	
Homebound Elders N = 473	108 (22.8)
KY Statewide Elders N = 1386	490 (35.4)

Statewide, 35.4% of elders reported they had made a dental visit within the past year.

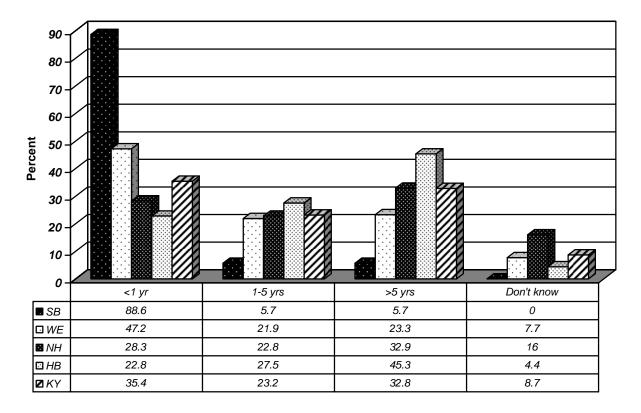
Regarding elder groups, only 22.8% of the homebound elders made a dental visit within the past year, followed by 28.3% of nursing home elders, 47.2% of the well elders, and the highest percent, 88.6% of the Sanders-Brown elders. The 2002 KAOHS data showed that overall, 64% of all adults made a dental visit within the past year. Except for the SB group, this is clearly a significant difference in percentage of elders who made a dental visit within the past year.

The Healthy Kentuckians 2010 goal is to increase to at least 70% to the proportion of adults who use the oral health care system each year. Baseline data are from the 1996 Kentucky BRFSS, which show 62% utilization. Other comparable surveys report baseline adult utilization, aged 65 years and older, of dental services within the past year of 58% (2003 Kentucky BRFSS) and 67.9 (National BRFSS).

Only the Sanders-Brown well elders exceeded the Healthy Kentuckians 2010 goal.

KEOHS Elders' Time Since Last Dental Visit (AQ43s1))

This page describes the time since last making a dental visit, for any reason.





	Time Since Last Dental Visit	Total Sample	Percent of Total Sample
Sanders-Brown Group		70	100
	Less than 1 year	62	88.6
	1 to 5 years	4	5.7
	More than 5 years	4	5.7
	Don't know/refused/did not answer	0	0
Well Elders $N = 430$		430	100
	Less than 1 year	203	47.2
	1 to 5 years	94	21.9
	More than 5 years	100	23.3
	Don't know/refused/did not answer	33	7.7
Nursing Home Elders N	= 413	413	100
	Less than 1 year	117	28.3
	1 to 5 years	94	22.8
	More than 5 years	136	32.9
	Don't know/refused/did not answer	66	16.0

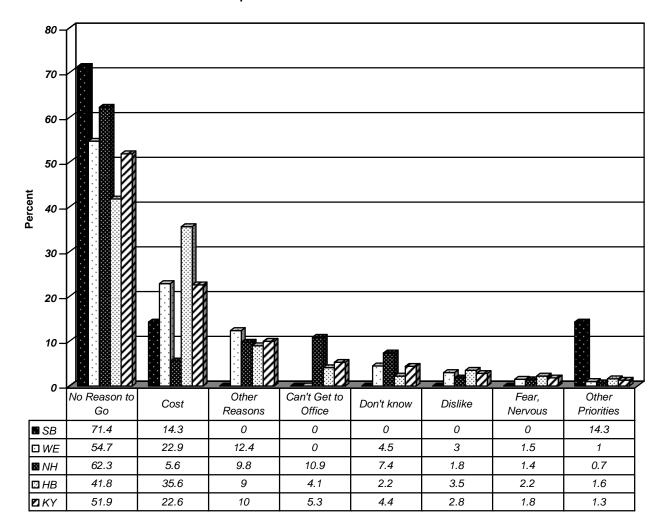
	Time Since Last Dental Visit	Total Sample	Percent of Total Sample
Homebound Elders N =	473	473	100
	Less than 1 year	108	22.8
	1 to 5 years	130	27.5
	More than 5 years	214	45.3
	Don't know/refused/did not answer	21	4.4
KY Statewide Elders N =	= 1386	1386	100
	Less than 1 year	490	35.4
	1 to 5 years	322	23.2
	More than 5 years	454	32.8
	Don't know/refused/did not answer	120	8.7

The length of time since an elder made a dental visit for any reason was found to be as follows: less than 1 year (35.4%), from 1-5 years (23.2%), and greater than 5 years (32.8%). The homebound group went the longest time without visiting the dentist of any the elder groups (45.3% had not visited in more than 5 years), followed by the NH group (32.9% had not visited the dentist in more than 5 years).

Regarding the elder groups, 88.6% of the SB group, 47.2% of well elders, 28.3% of NH elders, and 22.8% of homebound elders had a dental visit within the past year. Only 5.7% of the SB group and 23.3% of well elders indicated that it had been more than 5 since their last dental visit. The 2002 KAOHS data showed that adults age 65 years and older utilized dental services less often (51%) than adults age 25 to 44 (70%). This survey confirms that data.

KEOHS Elders' Reasons for No Dental Visit Within the Past Year (AQ44)

This page describes the reasons elders had for not making a dental visit. This excludes elders who visited a dentist within the past year.



Elders' Top Reasons for No Dental Visit Within the Past Year

	Reasons for <u>Not</u> Visiting a	Total Sample	Percent of Total
	Dentist in the past year		Sample
1			

Sanders-Brown Group	N=70	7*	100
	No Reason to Go	5	71.4
	Cost	1	14.3
	Other Reasons	0	0.0
	Can't Get to Office	0	0.0
	Don't know/Refused	0	0.0
	Dislike	0	0.0
	Fear, Nervousness	0	0.0
	Other Priorities	1	14.3

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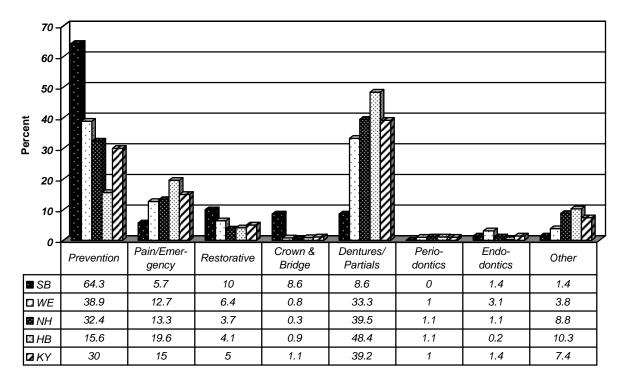
	Deserve for Net Mathema	Tatal Canada	Demonstrat Tabal
	Reasons for <u>Not</u> Visiting a	Total Sample	Percent of Total
	Dentist in the past year		Sample
Well Elders N = 430		201*	100
	No Reason to Go	110	54.7
	Cost	46	22.9
	Other Reasons	25	12.4
	Can't Get to Office	0	0.0
	Don't know/Refused	9	4.5
	Dislike	6	3.0
	Fear, Nervousness	3	1.5
	Other Priorities	2	1.0
		-	110
Nursing Home Elders N =	413	284*	100
	No Reason to Go	177	62.3
	Cost	16	5.6
	Other Reasons	28	9.8
	Can't Get to Office	31	10.9
	Don't know/Refused	21	7.4
	Dislike	5	1.8
	Fear, Nervousness	4	1.4
	Other Priorities	2	0.7
		•	
Homebound Elders N – 47	3	368*	100
	No Reason to Go	154	41.8
	Cost	131	35.6
	Other Reasons	33	9.0
	Can't Get to Office	15	4.1
	Don't know/Refused	8	2.2
	Dislike	13	3.5
	Fear, Nervousness	8	2.2
	Other Priorities	6	1.6
KY Statewide Elders N = 1	386	860*	100
	No Reason to Go	446	51.9
	Cost	194	22.6
	Other Reasons	86	10.0
	Can't Get to Office	46	5.3
	Don't know/Refused	38	4.4
	Dislike	24	2.8
	Fear, Nervousness	15	1.8
	Other Priorities	11	1.3

*These numbers represent those who responded to why they didn't go to the dentist in the past year.

The two most common reasons for not visiting the dentist within the past year reported by elder Kentuckians were "no reason to go", 51.9% (ranging from 41.8% HB to 71.4% SB) and "cost", 22.6% (ranging from a low of 5.6% for NH elders to a high of 35.6% for homebound elders). Significantly, the NH elders and HB elders had a number of people who could not get to the dental office 10.9% of NH elders and 4.1% of HB elders. The other two groups did not mention "cannot get to office" as a reason they did not go.

KEOHS Elders' Reasons for Most Recent Visit to the Dentist (AQ45.1)

This page describes the reasons elders gave for their most recent dental visit.



Elders' Reasons for Most Recent Dental Visit

Rea	sons for most recent dental visit	Total Sample	Percent of Total
Rou		who answered	
		question	answered question

Sanders-Brown Group N = 70		70	100
	Prevention/cleaning	45	64.3
	Pain/Emergency/Extraction	4	5.7
	Restorative/Fillings	7	10.0
	Crowns/Bridges	6	8.6
	Dentures/Partials	6	8.6
	Gum Therapy/Periodontal	0	0.0
	Root Canals/Endodontics	1	1.4
	Other	1	1.4
Well Elders N =	430	393	100
	Prevention/cleaning	153	38.9

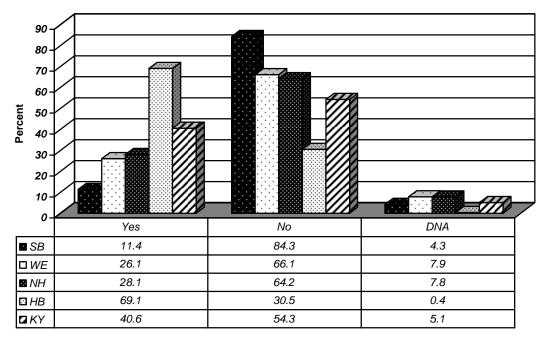
Elders N =	430	393	100
	Prevention/cleaning	153	38.9
	Pain/Emergency/Extraction	50	12.7
	Restorative/Fillings	25	6.4
	Crowns/Bridges	3	0.8
	Dentures/Partials	131	33.3
	Gum Therapy/Periodontal	4	1.0
	Root Canals/Endodontics	12	3.1
	Other	15	3.8

Reasons	for most recent dental visit	Total Sample	Percent of Total								
		who answered	Sample who								
		question	answered question								
Nursing Home E		377	100								
	Prevention/cleaning	122	32.4								
	Pain/Emergency/Extraction Restorative/Fillings		13.3								
			3.7								
	Crowns/Bridges	1	0.3								
	Dentures/Partials	149	39.5								
	Gum Therapy/Periodontal	4	1.1								
	Root Canals/Endodontics	4	1.1								
	Other	33	8.8								
Homebound Elde	ers N = 473	469	100								
	Prevention/cleaning	73	15.6								
	Pain/Emergency/Extraction	92	19.6								
	Restorative/Fillings	19	4.1								
Crowns/Bridges Dentures/Partials		4	0.9								
		227	48.4								
	Gum Therapy/Periodontal		1.1								
	Root Canals/Endodontics	1	0.2								
	Other	48	10.3								
KY Statewide Ele	ders N = 1368	1309	100								
	Prevention/cleaning	393	30.0								
	Pain/Emergency/Extraction	196	15.0								
	Restorative/Fillings	65	5.0								
	Crowns/Bridges	14	1.1								
	Dentures/Partials	513	39.2								
	Gum Therapy/Periodontal	13	1.0								
	Root Canals/Endodontics	18	1.4								
	Other	97	7.4								

The elders' top three reasons why they <u>did</u> go to see the dentist are listed here:
Prosthodontics (dentures or partials), 39.2%
Prevention/cleaning, 30.0%
Emergency Dentistry (pain/extraction), 15.0%

KEOHS Elders' Self-Reported Major Barriers to Getting Dental Care or Services (AQ46)

This page describes elders' self-reported barriers to getting dental care and services.



Elders Who Reported Major Barriers to Getting Dental Care or Services

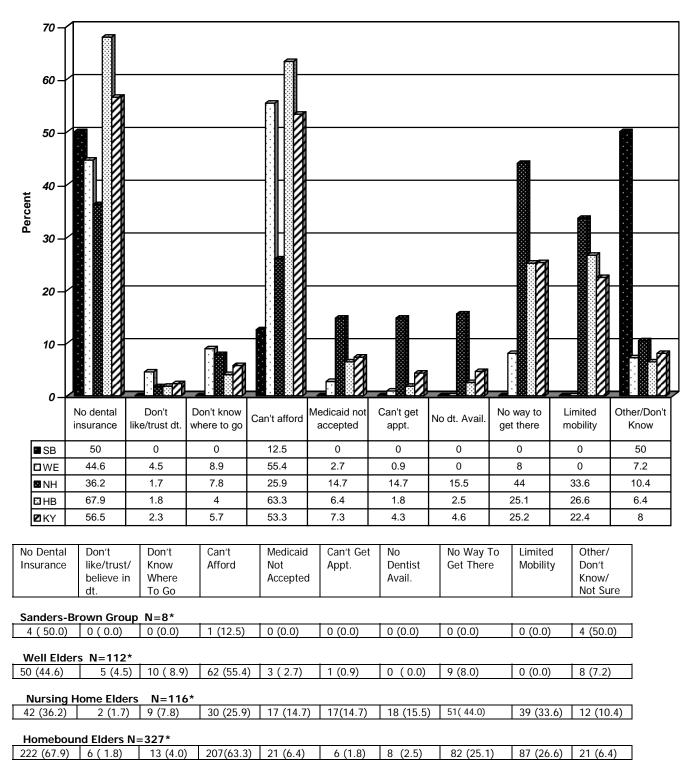
	Barriers to Dental	Total Sample	Percent of Total Sample
	Care or Services		
Sanders-Brown Group N = 70		70	100
	Yes	8	11.4
	No	59	84.3
	Did not answer	3	4.3
		•	
Well Elders N = 430		430	100
	Yes	112	26.1
	No	284	66.1
	Did not answer	34	7.9
Nursing Home Elders N = 413		413	100
· · · · · · · · · · · · · · · · · · ·	Yes	116	28.1
	No	265	64.2
	Did not answer	32	7.8
Homebound Elders N = 473		473	100
	Yes	327	69.1
	No	144	30.5
	Did not answer	2	0.4
KY Statewide Elders N = 1386		1386	100
	Yes	563	40.6
	No	752	54.3
	Did not answer	71	5.1

Statewide, 40.6% of elders reported major barriers to getting dental care and services.

Regarding the elder groups, 66.1% of the well elders and 84.3% of the SB group reported that they have no barriers that prohibit them from seeking access to dental care and services. Conversely, 69.1% of the homebound elders and 28.1% of the NH elders reported having major barriers in getting dental care.

KEOHS Elders' Barriers to Dental Care and Services (AQ46s1-10)

This page describes the elders' reported barriers to getting dental care or services.



Elders' Reasons Listed as Barriers to Dental Care and Services

No Dental Insurance	Don't like/trust/ believe in	Don't Know Where	Can't Afford	Medicaid Not Accepted	Can't Get Appt.	No Dentist Avail.	No Way To Get There	Limited Mobility	Other/ Don't Know/ Not
	dt.	To Go							Sure

KY Statewide Elders N = 563*									
318 (56.5)	13 (2.3)	32 (5.7)	300 (53.3)	41 (7.3)	24 (4.3))	26 (4.6)	142 (25.2)	126 (22.4)	45 (

*Numbers are based on those who responded that they had major barriers (AQ46); however, the questionnaire allowed participants to mark down any barriers that applied, so they may have answered more than once.

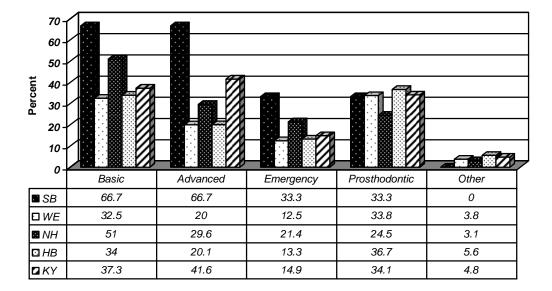
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KY Statewide Elders self-reported major barriers to getting dental services included:

- Lack of dental insurance, 56.5% •
- Inability to afford dental care, 53.3% ٠
- •
- •
- No way to get there, 25.2% Limited mobility, 22.4% Medicaid not accepted by dentist, 7.3% ٠
- Other reasons, 8.0%

KEOHS Elders Who Reported Difficulty in Obtaining Dental Services (AQ47s1-8)

This page describes the elders who reported having difficulty in obtaining dental services. **Basic dental services** are defined as dental check-ups, cleanings and fillings(restorations). **Advanced dental services** are crowns, bridges, implants, periodontal treatment and extractions. **Emergency dental services** are when the person is able to make an appointment and visit the dentist right away for any dental pain or acute oral problem. **Prosthodontic dental services** are having dentures or partials made by the dentist.



Elders Who Reported Difficulty in Obtaining Types of Dental Services

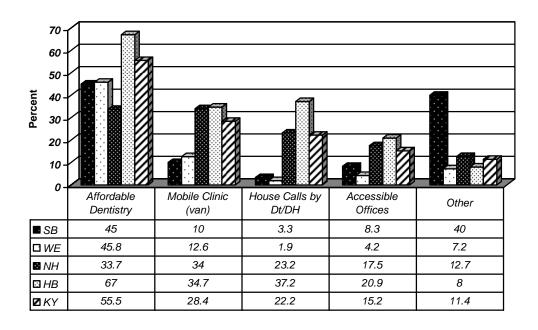
	Basic Dental Services	Advanced Dental Services	Emergency Dental Services	Prosthodontic Dental Services	Other Services					
Sander	s-Brown Group N=3	*								
	2 (66.7)	2 (66.7)	1 (33.3)	1 (33.3)	0 (0.0)					
Well E	Iders N=80*									
	26 (32.5)	16 (20.0)	10 (12.5)	27 (33.8)	3 (3.8)					
Nursin	g Home Elders N=98	*								
	50 (51.0)	29 (29.6)	21 (21.4)	24 (24.5)	3 (3.1)					
Homeb	ound Elders N=338*		_							
	115 (34.0)	68 (20.1)	45 (13.3)	124 (36.7)	19 (5.6)					
KY Sta	KY Statewide Elders N = 517*									
	193 (37.3)	215 (41.6)	77 (14.9)	176 (34.1)	25 (4.8)					

*Sample who answered question. Percentages do not equal 100% as elders were asked to select as many options as applied to them.

Over one-third (37.3%) of elders reported difficulty in obtaining basic services, 41.6% in obtaining advanced dental services, and 34.1% in obtaining prosthodontic dental services. About 15% reported difficulty in obtaining emergency dental services.

KEOHS Elders' Recommendations for Improving Access to Dental Care and Services (AQ48s1-5)

This page describes elders' recommendations for improving access to dental care and services to improve their oral health care. The people surveyed may have responded to more than one of the answers given.



Elders' Recommendations for Improving Access to Dental Care and Services

Make Dentistry Affordable	Mobile Clinic/Mobile Van	House Calls by Dentist or Dental Hygienist	Dental Offices More Handicapped Accessible	Other				
Sanders-Brown G	roup N=57*							
27 (47.4)	6 (10.5)	2 (3.5)	5 (8.8)	24 (42.1)				
Well Elders N= 3	321*							
197 (45.8)	54 (12.6)	8 (1.9)	18 (4.2)	31 (7.2)				
Nursing Home Eld	ers N=315*							
106 (33.7)	107 (34.0)	73 (23.2)	55 (17.5)	40 (12.7)				
Homebound Elder	s N=473*							
317 (67.0)	164 (34.7)	176 (37.2)	99 (20.9)	38 (8.0)				
KY Statewide Elde	KY Statewide Elders N = 1166*							
647 (55.5)	331 (28.4)	259 (22.2)	177 (15.2)	133 (11.4)				

*Number who answered this question.

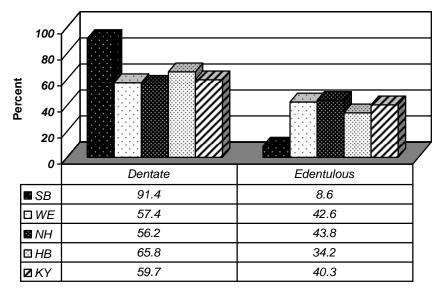
The elders gave recommendations for improving access to dental care and services. The top four recommendations were:

- Make dentistry affordable, 55.5%
- Use a mobile clinic/mobile van to access elders, 28.4%
- Have dentist/hygienists make house calls, 22.2%
- Make dental offices more handicapped accessible, 15.2%.

Kentucky Elders Clinical Questionnaire (CQ) and Screening Exam

KEOHS Elders' Overall Dentate and Edentulous Status

This section describes the breakdown of elders sampled by dentate and edentulous status (presence or absence of teeth).



Overall Dentate and Edentulous Status

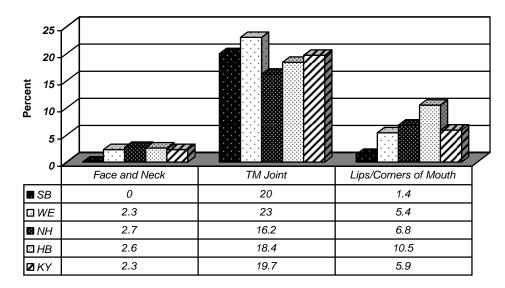
	Presence and Absence of teeth	Total Sample #	Total Dentate Sample (with teeth) # (%)	Total Edentulous Sample (no teeth) # (%)
Sanders-Brown	Group (SB)	70	64 (91.4)	6 (8.6)
Well Elders (WE))	430	247 (57.4)	183 (42.6)
Nursing Home E	Iders (NH)	413	232 (56.2)	181 (43.8)
Homebound Elde	ers (HB)	38	25 (65.8)	13 (34.2)
			20 (0010)	10 (0112)
KY Statewide Ele	ders (KY)	951	568 (59.7)	383 (40.3)

Statewide, 40.3% of all sampled elders were found to be edentulous (having no teeth), although this ranged from a low of 8.6% in the SB group to a high of 43.8% in the NH group.

Regarding elder groups, 42.6% of WE, 43.8% of the NH, and 34.2% of the HB are totally edentulous compared to only 8.6% of the SB group. This highlights the fact that the SB group represents those elders who have a higher socioeconomic (SE) status (higher education and income) and validates previous research which suggests tooth retention is strongly correlated with a higher SE status. Although the HB clinical sample only found 34.2% completely edentulous, the *self-reported survey* (Form A) found the HB elders reported the highest level of edentulism (56.7%).

KEOHS Elders' Extraoral Pathology (CQ1-CQ3)

Extraoral pathology includes the face and neck, the temporal mandibular joint (TMJ), and the lips to include the corners of the mouth. *Face and neck pathology* includes a swelling or lump, sore or mole more than 2 weeks old, or a change in size or color of a mole or sore. *TMJ Pathology* is present if one or more of the following symptoms: pain, popping or cracking, are reported or discovered during palpation. *Lips and corners of the mouth pathology* includes any color change more than 2 weeks old, swelling or lump, or an ulcer which may bleed on the lips or at the corners of the mouth.



Elders with Extraoral Pathology

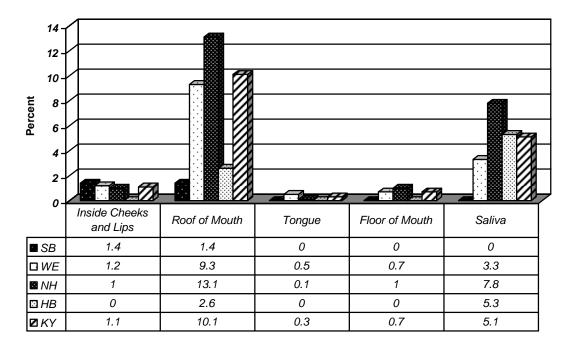
Extraoral Pathology		Number and percent () of total sample for Extraoral Pathology				
		Face and Neck	TM Joint	Lips/ Corners of Mouth		
Sanders-Brown Group	N = 70	0 (0.0)	14 (20.0)	1 (1.4)		
Well Elders	N = 430	10 (2.3)	99 (23.0)	23 (5.4)		
Nursing Home Elders	N = 413	11 (2.7)	67 (16.2)	28 (6.8)		
Homebound Elders	N = 38	1 (2.6)	7 (18.4)	4 (10.5)		
KY Statewide Elders	N = 951	22 (2.3)	187 (19.7)	56 (5.9)		

Statewide, extraoral pathology found in sampled elders was highest in the TM joint (19.7%) and lowest (2.3%) in the face and neck area.

Regarding the elder groups, lesions of the face and neck were found in only 10 (2.3%) of well-elders, 11 (2.7%) of NH elders, 1 (2.6%) of HB elders and not at all in the SB subgroup. Although the face and neck pathology noted was small, this finding represented potentially serious skin cancer. All these patients were advised to follow up with their physician or dermatologist for further exam and possible biopsy. A similar percent of TM joint pathology was noted in all four groups: 20% SB, 23% WE, 16.2 NH and 18.4% HB. The majority of elders who had TM joint pathology did not complain, but popping or cracking was discovered during palpation. There was more pathology in the lips and corners of the mouth in the HB group (10.5%), but only 8% (38/473) participated in the clinical screening exam. The NH and WE groups were noted to have more lips/corners of mouth pathology present (6.8% and 5.4% respectively) than the SB group (1.4%). The main type of pathology noted in the lips and corners of the mouth).

KEOHS Elders' Intraoral Pathology (CQ5-CQ9)

Intraoral pathology includes the inside of the cheeks and lips, the roof of the mouth, tongue, floor of mouth and saliva. *Inside of the cheeks and lips pathology* includes a white or red patch that is more than 2 weeks old, bleeding, swelling or lump, or an ulcer. *Roof of mouth pathology* is present if there is a sore or color change more than 2 weeks old, swelling or lump or an ulcer. *Tongue pathology* includes any ulcers or sores more than 2 weeks old, burning or pain, white/red patch which can't be removed, or smooth or shiny area on the top or side of the tongue. *Floor of mouth pathology* includes any color change more than 2 weeks old, any swelling or lump, or an ulcer. *Saliva pathology* is present if saliva is absent or there is no moisture, or the saliva is ropy or thick. Saliva pathology may be manifested by dry tongue or poor denture retention.



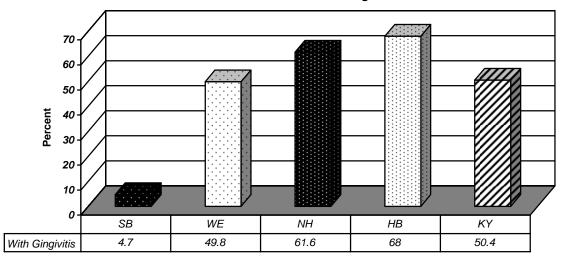
Elders with Intraoral Pathology

Intraoral Pathology	Number and percent () of total sample for Intraoral Pathology					
	Inside Cheeks and Lips	Roof of Mouth	Tongue	Floor of Mouth	Saliva	
Sanders-Brown Group N = 70	1 (1.4)	1 (1.4)	0 (0.0)	0 (0.0)	0 (0.0)	
Well Elders N = 430	5 (1.2)	40 (9.3)	2 (0.5)	3 (0.7)	14 (3.3)	
Nursing Home Elders N = 413	4 (1.0)	54 (13.1)	1 (0.1)	4 (1.0)	32 (7.8)	
Homebound Elders N = 38	0 (0.0)	1 (2.6)	0 (0.0)	0 (0.0)	2 (5.3)	
KY Statewide Elders N = 951	10 (1.1)	96 (10.1)	3 (0.3)	7 (0.7)	48 (5.1)	

Statewide, the highest percentage of intraoral pathology was found in the roof of the mouth (10.1%). This pathology was clinically diagnosed as denture stomatitis in the majority of these cases. Salivary pathology (dry or thick mucous) was seen in 5.1% of the elders sampled. A low number of nursing home and well elders had pathology inside cheeks and lips (4, 1% and 5, 1.2%, respectively. and the floor of mouth, 4 (1%) NH, and 3 (0.7%) WE. In contrast, the only pathology found in the SB group was in 1 person (1.4%) inside cheeks and lips, and one person (1.4%) with roof of mouth pathology, which was thought to be denture stomatitis.

KEOHS Dentate Elders' Clinical Screening Exam Findings of Gingivitis (CQ13)

This page describes the clinical exam findings of gingival inflammation.



Dentate Elders with Gingivitis

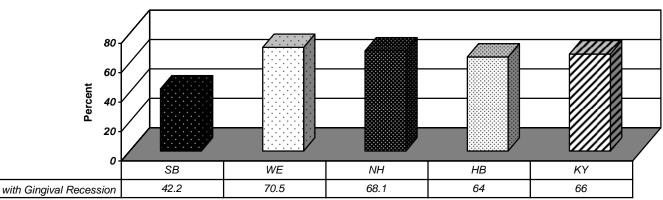
	Clinical Screening of Gingivitis		Total Dentate Sample	Dentate Sample with Gingivitis	Percent of Total Dentate Sample
	5			with Gingivitis	
Sanders-Brown	Group	N = 70	64	3	4.7
Well Elders		N = 430	247	123	49.8
Nursing Home Elders N = 413		N = 413	232	143	61.6
Homebound Elders N -= 38		N -= 38	25	17	68.0
KY Statewide Elders N = 951		568	286	50.4	

Statewide, 50.4% of dentate elders were found to have gingivitis.

Regarding elder groups, almost 50% of well elders were found to have gingival inflammation as compared to only 4.7% of the Sanders-Brown Group. The highest percent of gingivitis in the dentate elders was found in the homebound sample (68.0%) and NH elders (61.6%). Gingival inflammation is a good indicator of gingivitis and periodontal disease.

Dentate KEOHS Elders' Clinical Screening Exam Findings of Gingival Recession (CQ14)

This page describes the clinical exam findings of gingival recession.



Dentate Elders with Gingival Recession

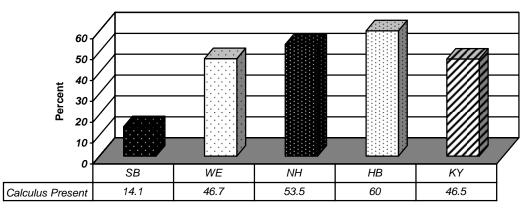
	Clinical Screenin Gingival Recessi	0	e Dentate Sample with Gingival Recession	Percent of Total Dentate Sample	
Sanders-Brown	Group N = 70	64	27	42.2	
Well Elders	N = 43	0 247	174	70.5	
Nursing Home E	Iders N = 41	3 232	158	68.1	
Homebound Elde	ers N = 38	25	16	64.0	
KY Statewide Ele	ders N = 95	1 568	375	66.0	

Statewide, 66% of elders had gingival recession. This ranged from a low of 42.2% (SB) to 64% (HB) to 68.1% (NH) to 70.5% (WE).

Gingival recession exposes the root surfaces of teeth, making them at higher risk for root-surface caries (cavities).

Dentate KEOHS Elders' Clinical Screening Exam Findings of Calculus Present (CQ15)

This page describes the clinical exam findings of calculus present.



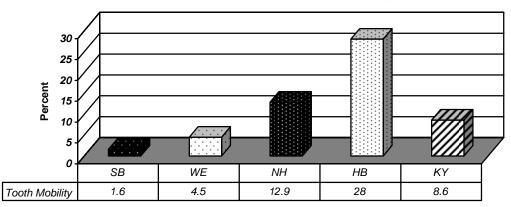
Dentate Elders with Calculus Present

	Clinical Screening of		Total Dentate	Dentate Sample	Percent of Total
	Calculus Prese	ent	Sample	with Calculus	Dentate Sample
				Present	
Sanders-Brown	Group N	= 70	64	9	14.1
Well Elders	N	= 430	247	116	46.7
Nursing Home	Elders N	= 413	232	124	53.5
Homebound Eld	lers N	= 38	25	15	60.0
KY Statewide E	Iders N	= 951	568	264	46.5

Statewide, 46.5% of the sampled elders clinically had calculus present. The percentage ranged from a low of 14.1% for the SB group, to a high of 60% in the HB elders.

KEOHS Dentate Elders' Clinical Screening Exam Findings of Tooth Mobility (CQ16)

This page describes the clinical exam findings of tooth mobility.



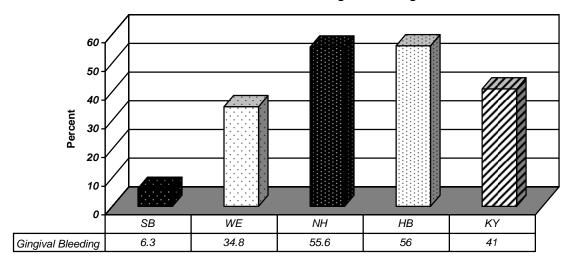
Dentate Elders with Tooth Mobility

	Clinical Screening of Tooth Mobility		Total Dentate Sample	Dentate Sample with Tooth Mobility	Percent of Total Dentate Sample
Sanders-Brown Group N = 70		64	1	1.6	
Well Elders		N = 430	247	11	4.5
Nursing Home El	ders	N = 413	232	30	12.9
Homebound Elders		N = 38	25	7	28.0
KY Statewide Eld	lers	N = 951	568	49	8.6

Only 8.6% of the dentate elders were found to have tooth mobility. This ranged from a low of 1.6% in SB elders to a high of 28.0% in the HB elders. Tooth mobility may indicate moderate to advanced periodontal disease.

KEOHS Dental Elders' Clinical Screening Exam Findings of Gingival Bleeding (CQ17)

This page describes the clinical exam findings of gingival bleeding. Gingival bleeding was measured by instructing the elder to floss between the lower middle teeth (#24 and #25), if present and noting if there was any bleeding. If the two lower middle teeth were not present, then the next two proximal tooth surfaces were used.



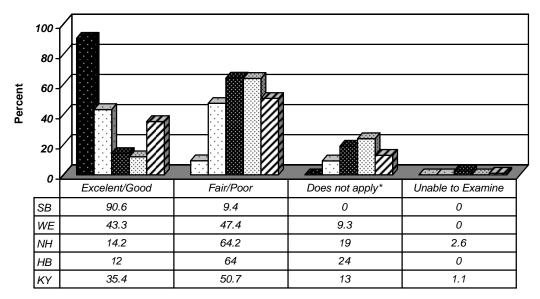
Dentate Elders with Gingival Bleeding

	Clinical Screening of Gingival Bleeding	Total Dentate Sample	Dentate Sample with Gingival	Percent of Total Dentate Sample	
	g		Bleeding		
Sanders-Brown Group N = 70		64	4	6.3	
Well Elders	N = 430	247	86	34.8	
Nursing Home Eld	ders N = 413	232	129	55.6	
Homebound Elders N = 38		25	14	56.0	
KY Statewide Eld	lers N = 951	568	233	41.0	

Statewide, 41% of dentate elders were found to have gingival bleeding. The range of gingival bleeding was from 6.3% in the SB group to 56% in the HB group. Gingival bleeding is a good indicator of gingivitis and/or periodontal disease.

KEOHS Dental Elders' Clinical Screening Exam Findings of Overall Periodontal Health (CQ18)

This page describes the clinical exam findings of overall periodontal oral health. The overall periodontal health was determined by the number of positive responses to the five previous criteria (in questions CQ13-17): gingival inflammation, recession, presence of calculus, tooth mobility and gingival bleeding. If all five criteria were present, the periodontal health was marked **poor**; if two to four criteria were present, the periodontal health was marked **fair**; if all criteria were not present, the periodontal health was marked **excellent**; and if all criteria were not present (except for gingival recession and/or calculus), the periodontal health was marked **good**.



Dentate Elders' Overall Periodontal Health

	Clinical Screening of Periodontal Oral Health Status	Total Dentate Sample	Percent of Total	
Sanders-Brown Group		64	Dentate Sample 100	
Sanders-Brown Group	Excellent/Good	58	90.6	
	Fair/Poor	6	9.4	
	Does not apply*	0	0.0	
	Unable to examine	0	0.0	
Wall Elders N. 420		247	100	
Well Elders N = 430		247	100	
	Excellent/Good	107	43.3	
	Fair/Poor	117	47.4	
	Does not apply*	23	9.3	
	Unable to examine	0	0.0	
Nursing Home Elders	N - 412	232	100	
Nul sing Home Elders	Excellent/Good	-		
		33	14.2	
	Fair/Poor	149	64.2	
	Does not apply*	44	19.0	
	Unable to examine	6	2.6	
Homebound Elders N	= 473	25	100	
	Excellent/Good	3	12.0	
	Fair/Poor	16	64.0	
	Does not apply*	6	24.0	
	Unable to examine	0	0.0	

	Clinical Screening of Periodontal Oral Health Status	Total Dentate Sample	Percent of Total Dentate Sample
KY Statewide Elders	N = 951	568	100
	Excellent/Good	201	35.4
	Fair/Poor	288	50.7
	Does not apply*	73	13.0
	Unable to examine	6	1.1

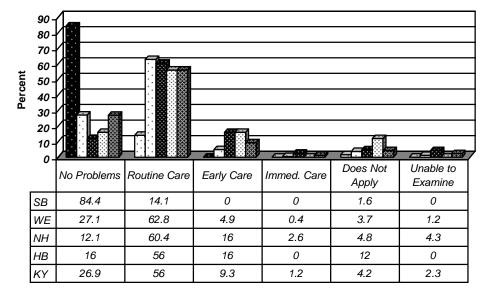
*"Does not apply" means that there were not enough or not any indicator teeth present for the clinical screener to assess overall periodontal health.

Statewide, the overall periodontal health among elders was clinically found to be good to excellent in 35.4% and fair to poor in 50.7% of those sampled.

Regarding elder groups, 43.3% of the well elders were clinically found to have "good to excellent" overall periodontal health, and 47.4% reported as "fair to poor" compared to 90.6% with overall periodontal health of "good to excellent" and only 9.4% described as "fair" in the Sanders-Brown Group. The majority of the HB and NH elders were found to have fair to poor periodontal health (64.0% and 64.2%, respectively). Periodontal disease is a primary cause of tooth loss in the adult and elder population.

KEOHS Dentate Elders' Urgency of Periodontal Problems (CQ19)

This page describes the dentate elders' urgency of periodontal treatment needed, broken down by four categories: *no problems detected* (recommend routine 6 month to 1 year recalls), *routine care* (needs to be seen by dentist within 6 months; represents no acute problems, but chronic problems needing routine care), *early care* is required (within 1 month; isolated or symptomatic chronic problem), and *immediate care* (needs to be seen as soon as possible; represents acute and symptomatic, emergency care needed).



Urgency of Periodontal Problems for Dentate Elders

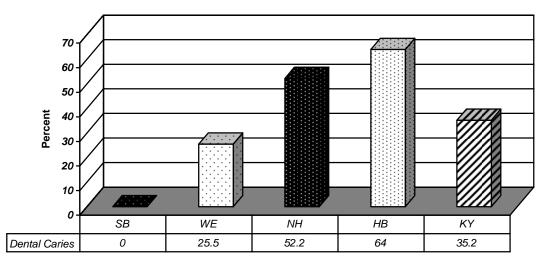
			Number and Percent of Total Dentate Sample Reporting # ()						
		Total Dentate Sample	No Problems	Routine Care	Early Care	Immed. Care	Does Not Apply	Unable to Examine	
SB Group	N = 70	64	54 (84.4)	9 (14.1)	0 (0.0)	0 (0.0)	1 (1.6)	0 (0.0)	
Well Elders	N = 430	247	67 (27.1)	155 (62.8)	12 (4.9)	1 (0.4)	9 (3.7)	3 (1.2)	
NH Elders	N = 413	232	28 (12.1)	140 (60.4)	37 (16.0)	6 (2.6)	11 (4.8)	10 (4.3)	
HB Elders	N = 38	25	4 (16.0)	14 (56.0)	4 (16.0)	0 (0.0)	3 (12.0)	0 (0.0)	
KY Statewide Elder	rs N = 951	568	153 (26.9)	318 (56.0)	53 (9.3)	7 (1.2)	24 (4.2)	13 (2.3)	

Statewide, the majority of elders (56%) were found to need routine care. Almost one-third (26.9%) had no problems. About 10% (9.3%) needed early care and 1.2% were found to need immediate care.

Regarding elder groups, 62.8% of well elders needed routine care within six months due to chronic periodontal problems, 4.9% needed early care and less than 1% (0.4%) needed urgent or immediate care. Only 27.1% of the well elders did not need any treatment for periodontal disease. Similarly, 60.4% of NH elders needed routine care within 6 months due to chronic periodontal problems, and over half (56.0%) of the HB sample needed routine periodontal care. Another 16% in both HB and NH groups needed early care and 6 NH persons (2.6%) needed immediate care. Only 12.1% of the NH elders did not need any treatment for periodontal disease, and only 4 of the 25 (16%) HB elders who were did not need treatment for periodontal disease.

KEOHS Elders' Clinical Screening Exam Findings of Dental Caries (CQ20)

This page describes the clinical findings of dentate elders who had decay on at least one tooth surface.





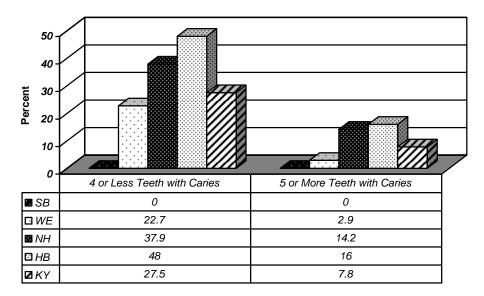
	Clinical S Dental C	creening of aries	Total Dentate Sample	Dentate Sample with Dental Caries	Percent of Total Dentate Sample
Sanders-Brow	n Group	N = 70	64	0	0.0
Well Elders		N = 430	247	63	25.5
Nursing Home	Elders	N = 413	232	121	52.2
Homebound E	lders	N = 38	25	16	64.0
KY Statewide	Elders	N = 951	568	200	35.2

Statewide, 35.2% of dentate elders were found to have dental caries.

Regarding elder groups, 25.5% of well elders clinically had at least one tooth surface with decay as compared to no clinical evidence of tooth decay noted in the Sanders-Brown group. The percentage of active decay is highest in the Homebound (64%) and NH elders (52.2%).

KEOHS Dentate Elders' Clinical Screening Exam Findings of Number of Teeth with Dental Caries (CQ21)

This page describes the clinical findings of dentate elders who had decay on at least one tooth surface (including root tips).



Dentate Elders' Teeth with Dental Caries

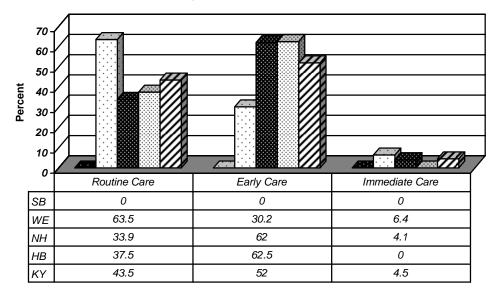
	Clinical Screening of	Total Dentate	4 or less teeth	5 or more teeth
	Dental Caries	Sample	w/caries = Few	w/caries = Many #
			# (%)	(%)
Sanders-Brown G	Group N = 70	64	0 (0.0)	0 (0.0)
Well Elders	N = 430	247	56 (22.7)	7 (2.9)
Nursing Home Eld	ders N = 413	232	88 (37.9)	33 (14.2)
Homebound Elder	rs N= 38	25	12 (48.0)	4 (16.0)
KY Statewide Eld	er N = 951	568	156 (27.5)	44 (7.8)

Statewide, 27.5% of dentate elders had 4 or less teeth with caries (few) and 7.8% had 5 or more teeth with caries (many).

Regarding elder groups, the homebound elders had the highest percentage of dental caries (64%). Dentate elders in the Sanders-Brown group were found to have no caries.

KEOHS Dentate Elders' Urgency of Caries (CQ22)

This page describes the urgency of dental caries. There are three categories: *Routine care* means that cavities are present but it is unlikely that the caries will become symptomatic, so dental treatment is recommended within 6 months. *Early care* means that cavities are present and may be currently asymptomatic but it is likely that the dental caries will become symptomatic, so dental treatment is recommended within 1 month. *Immediate care* means that the dental caries detected are symptomatic and/or pulp exposure is present or imminent. Care is required as soon as possible



Urgency of Caries for Dentate Elders

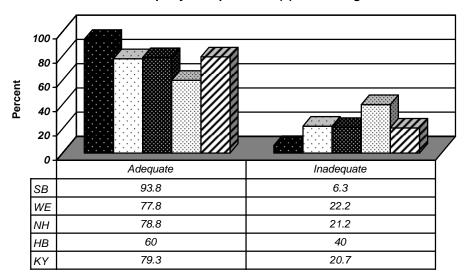
Total Sample	Total Dentate Sample	Dentate Sample w/Caries	# (%) of Dentate Sample w/Caries		
			Routine Care	Early Care	Immediate Care
					Cale
Sanders-Brown Group N = 70	64	0	0 (0.0)	0 (0.0)	0 (0.0)
Well Elders N = 430	247	63	40 (63.5)	19 (30.2)	4 (6.4)
Nursing Home Elders N = 413	232	121	41 (33.9)	75 (62.0)	5 (4.1)
Homebound Elders N = 38	25	16	6 (37.5)	10 (62.5)	0 (0.0)
KY Statewide Elders N = 951	568	200	87 (43.5)	104 (52.0)	9 (4.5)

Statewide, 52% (104/200) of the dentate elders with caries needed early care. Forty-four percent (43.5) needed routine care and 4.5% needed immediate care.

Regarding the elder groups, there were no caries noted in the elders in the Sanders Brown Group. In contrast, 63.5% of well elders needed routine care within six months due to caries present. Thirty percent (30.2%) of well elders needed early care within one month, and only four well elders (6.4%) needed restorative care as soon as possible. The HB and NH elders had the greatest percentage of elders needing early care (62.5% and 62% respectively). The NH group had 5 elders (4.1%) needing immediate care.

KEOHS Dentate Elders' Adequacy of Replacement(s) for Missing Teeth (CQ26)

This page describes the adequacy of replacements for dentate elders' missing teeth. Adequacy is in the patient's opinion, not the examiner's. If the person responded positively to these three criteria (replacements for missing teeth are comfortable, they function/work well, and look good), their prosthesis(es) was/were adequate. Replacement(s) could mean either removable or fixed partial bridge(s).



Adequacy of Replacement(s) for Missing Teeth

	# Reporting	Adequate* (comfort, function,	Inadequate (comfort, function,
		esthetics)	esthetics)
Sanders-Brown Group N = 70	32	30 (93.8)	2 (6.3)
Well Elders N = 430	135	105 (77.8)	30 (22.2)
Nursing Home Elders N = 413	118	93 (78.8)	25 (21.2)
Homebound Elders N = 38	10	6 (60.0)	4 (40.0)
KY Statewide Elders N = 951	295	234 (79.3)	61 (20.7)

Statewide, 20.7% of elders sampled reported that their prostheses were inadequate.

Regarding the elder groups, the SB group had a majority of responses confirming they felt their prostheses were adequate (30/32, 93.8%). The majority of well elders also felt their prostheses were adequate (105/135, 77.8%). Similar findings were evident for HB and NH elders (6/10, 60% adequate, and 93/118, 78.8% adequate, respectively). However, almost one-fourth (22.2%) of the WE, 21.2% of the NH elders and 40% of the HB elders felt their prostheses were inadequate based on at least one of the three criteria.

KEOHS Dentate Elders' Clinical Screening Exam Findings of Overall Oral Health Status (CQ27)

This page describes the dentate elders clinical screening report of their overall oral health status. Overall oral health status considers oral pathology, overall cleanliness of dentition, and presence or absence of oral symptoms. Examiners were calibrated to ensure that the overall oral health status rating was consistent with the most severe rating of periodontal disease or caries. For example, a person with five or more teeth with caries should not be able to rank as excellent. Specifically, for each criteria, the following guide was given:

Excellent=Excellent periodontal health; no caries

- Good =Good periodontal health; four teeth or fewer with caries
- Fair =Fair periodontal health; and five teeth or more with caries

Poor =Poor periodontal health; and teeth with caries which are symptomatic or close to the pulp

100 80 60 Percent 40 20 ASSN . 0 Excellent/Good Fair/Poor Unable to Examine 7.8 92.2 0 SB 49.4 50.6 0 WE 18.1 79.8 2.2 NH 24 76 0 ΗB 40.3 58.8 0.9 KΥ

	Clinical Screening of Overall Oral Health Status	Total Dentate Sample	Percent of Total Dentate Sample
Sanders-Brown Group		64	100
· · · · ·	Excellent/Good	59	92.2
	Fair/Poor	5	7.8
	Unable to examine	0	0.0
			1
Well Elders N = 430		247	100
	Excellent/Good	122	49.4
	Fair/Poor	125	50.6
	Unable to examine	0	0.0
		-	
Nursing Home Elders	N = 413	232	100
	Excellent/Good	42	18.1
	Fair/Poor	185	79.8
	Unable to examine	5	2.2
Homebound Elders N =	= 38	25	100
	Excellent/Good	6	24.0
	Fair/Poor	19	76.0
	Unable to examine	0	0.0

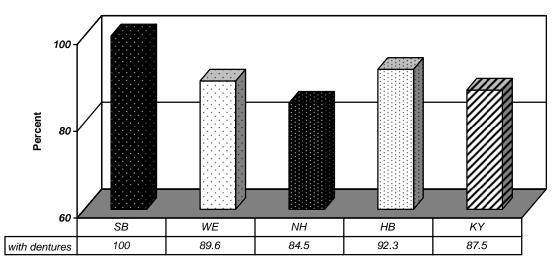
Clinical Screening of Overall Oral Health Status KY Statewide Elders N = 951		Total Dentate Sample	Percent of Total
			Dentate Sample
		568	100
	Excellent/Good	229	40.3
	Fair/Poor	334	58.8
	Unable to examine	5	0.9

Statewide, 40.3% of dentate elders were found to have excellent to good overall oral health and 58.8% had fair to poor oral health.

Regarding elder groups, 49.4% of the well elders' overall oral health status was clinically found to be excellent to good and 50.6% as fair to poor. Significantly, 92.2% of the Sanders-Brown group's overall oral health was described as excellent to good and only 7.8% as fair to poor. Conversely, the NH elders' overall oral health status was clinically found to be fair to poor (79.8%) and good to excellent only 18.1%. Similarly, the HB elders were found to have an overall oral health status of fair to poor (76%) and excellent to good, in only 24% of the sample.

KEOHS Edentulous Elders' Clinical Screening Exam Findings of Dentures (CQ28)

This page describes the edentulous (those having no remaining natural teeth) elders' clinical findings of having dentures.



Edentulous Elders with Dentures

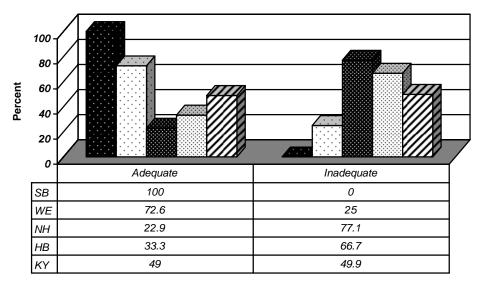
Clinical Screening Report of Having Dentures		Total Edentulous Sample	Edentulous Sample with Dentures	Percent of Edentulous Sample with Dentures	
Sanders	s-Brown Group	N = 70	6	6	100.0
Well Eld	ders	N = 430	183	164	89.6
Nursing	Home Elders	N = 413	181	153	84.5
Homeb	ound Elders	N = 38	13	12	92.3
KY Stat	ewide Elders	N = 951	383	335	87.5

Statewide, 87.5% of the edentulous elders (those with no remaining natural teeth) had dentures.

Regarding elder groups, all of the Sanders-Brown group of well elders who were edentulous had dentures and almost 90% of the edentulous well elders had dentures. Similarly, 92.3% of the HB group had dentures, as did 84.5% of the NH sample.

KEOHS Edentulous Elders' Clinical Screening Exam Findings of the Adequacy of Dentures (CQ31)

This page describes the clinical findings of the adequacy of replacements of complete (upper/lower) dentures. Similar to the partially edentulous person with replacements, adequacy was in the perception of the person being examined. As before, adequacy had to meet three criteria: the dentures are comfortable, they function/work well and look good. If one or more of these criteria were not met, the person reported his/her denture to be inadequate.



Adequacy of Dentures for Edentulous Elders

	Adequacy of De	ntures	Total Edentulous Sample	Edentulous Sample w/ dentures	Percent of Edentulous Sample w Dentures	Sample reporting* adequate	Sample reporting* not adequate
Sanders	Brown Group	N = 70	6	6	100.0	6 (100.0)	0 (0.0)
Well Eld	lers	N = 430	183	164	89.6	119 (72.6)	41 (25.0)
NH Elde	rs	N = 413	181	153	84.5	35 (22.9)	118 (77.1)
HB Elde	rs	N = 38	13	12	92.3	4 (33.3)	8 (66.7)
KY State	ewide Elders	N = 951	383	335	87.5	164 (49.0)	167 (49.9)

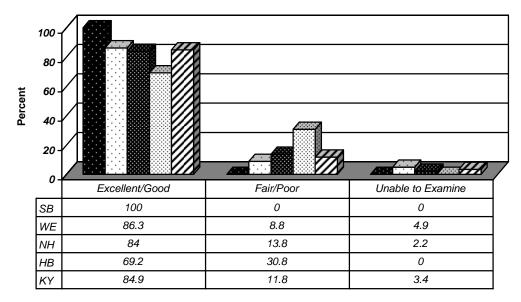
*Totals do not add to 100% (of edentulous sample with dentures), due to some people responding in the categories: *does not apply* (because person did not have dentures) or *unable to examine*.

Statewide, about half (49.9%) of the edentulous sample with dentures reported their dentures were **inadequate** based on problems perceived in comfort, function, or esthetics.

Regarding elder groups, The SB group all reported their dentures to be adequate. The great majority of well elders found their dentures to be adequate (119, 72.6%), although 25% did report their dentures to be inadequate on at least one of the three criteria. Conversely, the great majority of NH elders found their dentures to be inadequate (118/153, 77.1%), and only 22.9% were adequate. The HB sample fond 8/12 (66.7%) reorting their dentures were inadequate.

KEOHS Edentulous Elders' Clinical Screening Exam Findings of Overall Oral Health Status (CQ32)

This page describes the clinical findings of overall oral health status. The overall oral health status considers the presence or absence of oral/perioral lesions or debris, the condition of the alveolar ridges, mucosa, oral tissues and TMJ. The examiner **did not** consider the presence or absence of dentures and the conditions of dentures if present.



Overall Oral Health Status for Edentulous Elders

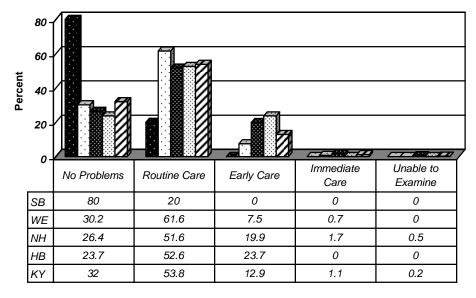
	Clinical Screening of Overall Oral Health Status- Edentulous	Total Edentulous Sample	Percent of Total Edentulous Sample	
Sanders	-Brown Group $N = 70$	6	100 100.0	
Curracito	Excellent/Good	6		
	Fair/Poor	0	0.0	
Unable to examine		0	0.0	
			-	
Well Eld	ers N = 430	183	100	
	Excellent/Good	158	86.3	
	Fair/Poor		8.8	
Unable to examine		9	4.9	
Nursing	Home Elders N = 413	181	100	
	Excellent/Good	152	84.0	
	Fair/Poor	25	13.8	
	Unable to examine	4	2.2	
Homebo	und Elders N = 38	13	100	
	Excellent/Good	9	69.2	
	Fair/Poor	4	30.8	
	Unable to examine	0	0.0	
KY State	ewide Elders N = 951	383	100	
	Excellent/Good	325	84.9	
	Fair/Poor	45	11.8	
	Unable to examine	13	3.4	

Statewide, the majority (84.9%) of the edentulous elders were found to have an oral health status of excellent or good. The 11.8% of edentulous elders found to be clinically fair or poor had denture sores, denture stomatitis, and oral conditions resulting from chronic use of dentures or poor oral hygiene.

Regarding elder groups, 100% of the SB group were found to have excellent to good oral health. The remaining groups had a range of fair/poor oral health from 8.8% of the well elders to 30.8% of the homebound elders. Many of these factors regarding fair to poor oral health were felt to be reversible if a dentist could adjust or reline dentures or could evaluate that elder.

Overall Treatment Urgency For All KEOHS Elder Participants CQ33)

Overall treatment urgency is broken down into four categories. *No problems* means that there were no problems detected with the screening and recommends yearly recalls if edentulous, or 6 months to 1 year if dentate. *Routine dental care* means that dental care is required within 6 months of this screening because chronic or other noted problems need further evaluation and treatment. *Early care* means that dental care is required within 1 month of this screening because there may be chronic problems that, if not taken care of, may result in emergency care if not seen soon. *Immediate care* means that dental care is required as soon as possible because there is an acute, emergent or symptomatic problem needing immediate attention.



Overall Treatment Urgency for All Elder Participants

Treatment Urgeno	су	No	Routine		Immediate	Unable to
		Problems	Dental Care	Early Care	Care	Examine
Sanders-Brown Gro	up N = 70	56 (80.0)	14 (20.0)	0 (0.0)	0 (0.0)	0 (0.0)
Well Elders	N = 430	130 (30.2)	265 (61.6)	32 (7.5)	3 (0.7)	0 (0.0)
Nursing Home Elder	s N = 413	109 (26.4)	213 (51.6)	82 (19.9)	7 (1.7)	2 (0.5)
Homebound Elders	N= 38	9 (23.7)	20 (52.6)	9 (23.7)	0 (0.0)	0 (0.0)
KY Statewide Elders	N = 951	304 (32.0)	512 (53.8)	123 (12.9)	10 (1.1)	2 (0.2)

Statewide, clinical treatment urgency for all elders (dentate, partially dentate, and edentulous) is shown broken down into four categories:

- No problems seen, recommend seeing dentist yearly (32%)
 Routine dental care, recommend seeing dentist within 6 months (53.8%)
- Routine dental care, recommend seeing dentist within 1 month (12.9%)
- Immediate care, recommend seeing dentist Within Finioniti (12.3)
 Immediate care, recommend seeing dentist ASAP (1.1%).

The significant findings for those elders who needed early care were related to dental problems (caries, periodontal disease, broken dentures, etc.) whereas the elders noted to have immediate care needs were potentially life threatening (possible oral cancer or serious oral infection).

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Computer and Technical AdvisorWell-Elder and Sanders-Brown Research CoordinatorAmber Truax, U.K. College of DentistryMarcy Butler, MPH, UK College of Public Health							
<u>Steering Committee</u> Janice M. Butters, RDH, MPH, EdD Project Co-Director, Kentucky Adult Oral Health Survey, University of Louisville School of Dentistry							
James Cecil, DMD, MPH Director of the Office of	Oral Health, Commonwe	ealth of Kentucky					
M. Raynor Mullins, DMD, Chief, Division of Dental		y of Kentucky College of De	ntistry				
David O. Willis, DMD, MBA Project Director, Kentucky Adult Oral Health Survey, University of Louisville School of Dentistry							
<u>Consultants and Co-sponsors</u> J. David Hardison Project Director, 2001 Kentucky Children's Oral Health Survey, Univ. of Kentucky College of Dentistry							
Graham Rowles, PhD, Professor and Director PhD Gerontology Program and Social Sciences, Sanders-Brown Center on Aging							
David Wekstein, PhD, Director Sanders-Brown Center on Aging							
Jerry Whitley, Executive Director							

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If you would like more information or have questions, please contact Dr. Bob Henry at robert.henry@med.va.gov.

APPENDIX 1

KENTUCKY ELDER ORAL HEALTH SURVEY FORM A: (to be given to all groups except homebound/AOA clients)

INTERVIEWER:	PARTICIPANT NAME:	
	PARTICIPANT ID#:	

INSTRUCTIONS: Please fill in or circle answers as appropriate It is not necessary to answer any questions in this survey that you do not wish to answer

DEMOGRAPHIC INFORMATION

1.	What is your gender?1Male2Female		
2.	What is your date of birth?		
	// Month Date Year		
3.	In what town is your primary residence?		
4.	In what county is your home located?		
5.	What is your ZIP CODE? ZIP		
6.	What is your Area of Residence? Urban Rural		
7.	Which of the following best describes your current living situation?1Home (house, apartment, mobile home, etc.)4Other2Nursing home8Don't know/Not sure3Assisted living facility9Refused		
8.	What is your marital status?1Never married4Divorced8Don't know/Not sure2Separated5Married9Refused3Widowed		
9.	What is your household composition?1Live alone4With relatives8Don't know/Not sure2With spouse5With non-relatives9Refused3With children6Live in Nursing Home/Assisted Living Facility		
10.	What is your race?1Asian/Pacific Island42American Indian/Alaskan Origin 5White/Non-minority3Black/African American8Don't know/Not sure9Refused		

DEMOGRAPHIC INFORMATION (continued)

11. What is the highest level of education (school) that you have completed?

Circle years of education completed.

If you are currently in school, mark the highest level completed.

- 1 5 Associate degree
- 8^{th} grade or less $9^{th} 12^{th}$ grade 2 6 Bachelor's degree
- High school graduate or GED 7 3 Graduate/Professional degree
- Some college, no degree Don't know/Not sure 4 8

9 Refused

12. Do you have any dental insurance that covers all or part of the cost of your dental treatment?

- No dental insurance 1
- Private dental insurance 2
- Medicaid (any Medicaid recipient is eligible for some dental benefits) 3
- Government pay program (such as Veteran's Administration) 4
- 8 Don't know/Not sure
- Refused 9

Explanation of Dental Insurance: This is dental insurance only. This does not include general health insurance. This is insurance that covers you, not necessarily others in the family. "Private insurance" is traditional dental insurance such as Delta Dental or other private pay dental reimbursement plans. Medicaid is also known as KMAP, MA, MAP, The Medical Card, The Card medical Assistance,

Kentucky Medical Assistance Plan

Medicaid is not the same as Medicare.

Medicare is medical insurance for older (over 65) and disabled Americans.

Medicare does not have any dental coverage. Medical does have some dental coverage.

Please give us an estimate of your family's income (for total annual household income).* 13.

Circle only one response.

1	Less than \$3,000	10	\$15,000 - \$19,999
2	\$3,001 - \$4,000	11	\$20,000 - \$24,999
3	\$4,001 - \$5,000	12	\$25,000 - \$34,999
4	\$5,001 - \$6,000	13	\$35,000 - \$49,999
5	\$6,001 - \$7,000	14	\$50,000 - \$74,999
6	\$7,001 - \$8,000	15	\$75,000 and above
7	\$8,001 - \$9,000		
8	\$9,001 - \$9,999	88	Don't know/Not sure
9	\$10,000 - \$14,999	99	Refused

*Your best estimate of total family income. From all sources including all family members living at home.

GENERAL HEALTH

14. Would you rate your overall general health as being:

- Excellent 3 Fair 1
- 2 Good 4 Poor

GENERAL HEALTH (continued)

15. Please indicate health problems experienced during the past 12 months. Circle all that apply.

- 16 Osteoporosis (bone loss) 1 Anemia (low blood/iron) 2 Arthritis/Rheumatism 17 Paralysis 3 Back Problems 18 Parkinson's Disease (Palsy) 4 Cancer/Leukemia 19 Prostate Enlargement 20 Recent Surgery 5 Circulation Problems 6 Cirrhosis 21 Shingles 7 Constipation 22 Stroke 8 Diabetes (sugar) 23 Urinary Tract Disorder 9 Foot or nail problems 24 Vertigo (Dizziness) 10 Gout 25 TB 26 Hepatitis 11 Heart problems 12 High Blood Pressure 27 Methicillin Resistant Staph Aureus 13 Injuries from fall/accident 28 Other (specify) 14 Jaundice 29 None 15 Lung problems 88 Don't know/Not sure 99 Refused 16.Are you diabetic? _____No _____Yes _____Don't know/Not sure _____Refused If Yes, how do you control your diabetes? 1 No control measures 8 Don't know/Not sure 2 Exercise and diet only (No medication)9 Refused 3 Take pills 4 Use insulin (shots) 17. Are you taking any medication now? ____No ____Yes ____Don't know/Not sure _____Refused If Yes, how many medications are you taking? ____Number of prescriptions Number of over-the-counter medications Do you regularly use mouthwash? 18. _No ____Yes ____Don't know/Not sure _____Refused If Yes: What brand do you use?_____ How many times a day?_____ **19.Have any of the following conditions/diseases limited your mobility?** Circle all that apply. "Limited in mobility" means difficulty in going to church, doctor appointments, community centers, etc. Stroke 1 2 Fall 3 Fracture (hip, knee, ankle) Mental health (Explain: 4 Physical health (Explain: 5 6 Other
 - No limitations in mobility (SKIP TO QUESTION #21) 7
 - Don't know/Not sure 8
 - 9 Refused

GENERAL HEALTH (continued)

20.If you have a limitation in mobility, how long has it lasted?

- 1 Less than 1 month 5 More than 1 year
- 2 1-3 month 6 Other_____
 - 3 4-6 months 7 Not applicable
 - 4 7-12 months 8 Don't know/Not sure
 - 9 Refused

21. Are you able to feed, bathe, and toilet yourself?

Yes ____No

If No, who is your primary caregiver? (the one who feeds, bathes and/or toilets you?). 1 Spouse

- 5 Caregiver in a nursing home or assisted living facility
- 2 Child 6 Other_
- 3 Relative 8 Don't know/Not sure
- 4 Neighbor 9 Refused

These next 2 questions are asked to determine your risk for oral health problems and are not meant to be invasive in any way. Please answer as appropriate.

22. Regarding tobacco products:

- 22a. Do you smoke cigarettes every day, some days, or not at all?
 - 1 Every day 8 Don't know/Not sure
 - 2 Some days 9 Refused
 - 3 Not at all (SKIP TO QUESTION #22b)

22a1. When you smoke, how many cigarettes a day do you smoke?

- 1 Less than 1 cigarette a day 8 Don't know/Not sure
- 2 1-3 cigarettes per day 9 Refused
- 3 4-19 cigarettes (less than 1 pack) per day
- 4 20 cigarettes (1 pack) per day
- 5 More than 20 cigarettes (>1 pack) per day

22b. Do you now use spit tobacco (dip, snuff or chew) every day, some days, or not at all?

- 1 Every day
- 2 Some days

1

2

3 Not at all (SKIP TO QUESTION #23)

22b1. When you use spit tobacco, how many times a day do you use it?

- Less than 1 time a day 8 Don't know/Not sure
- 1-3 times per day 9 Refused
- 3 4-19 times per day
- 4 More than 20 times per day

23. Regarding alcohol.

23a. Do you drink alcohol every day, some days, or not at all? A drink of alcohol is 1 can or

bottle of beer, 1 glass of wine, 1 can or bottle of a wine cooler, 1 cocktail, or 1 shot of liquor.

- 1 Every day 8 Don
 - 8 Don't know/Not sure
- 2 Some days 9 Refused
- 3 Not at all (SKIP TO QUESTION #24)

GENERAL HEALTH (continued)

23a1. When you drink alcohol, how much do you drink on the average per day?

- 1 Less than 1 drink per day 5 More than 6 drinks per day
- 2 1 drink per day
- 8 Don't know/Not sure9 Refused
- 3 2-3 drinks per day
- 4 4-6 drinks per day
- 23a2. Considering all types of alcoholic beverages, how many times during the past 30 days did you have 5 or more drinks on one occasion?

8 Don't know/Not sure

____ Number of times 9 Refused

ORAL HEALTH STATUS

- 24. Would you rate your overall oral health (that is, the condition of your teeth and gums) as being: *If you have no teeth, then the rating is for your gums and other oral tissues.*
 - 1 Excellent 3 Fair
 - 2 Good 4 Poor

25. Do you regularly brush your teeth?

_____No ____Yes ____Don't know/Not sure _____Refused If Yes, how many times per day? *Circle only one answer.*

- 1 1-2 times per day
- 2 3-4 times per day
- 3 5 or more times per day

If No, why not?_____

26. Do you regularly floss or clean between your teeth?

____No ____Yes ____Don't know/Not sure _____Refused

- If Yes, how many times per day? Circle only one answer.
 - 1 1-2 times per day
 - 2 3-4 times per day
 - 3 5 or more times per day

If No, why not?_____

27. Overall, are you satisfied with: (whether you have natural teeth or have dentures, please answer).

a. your ability to <u>chew any foods</u> that you want? Yes ____ No ____ Don't know/Not sure _____

b. your ability to speak clearly? Yes___ No___ Don't know/Not sure____

c. the <u>appearance of your teeth</u>? Yes No Don't know/Not sure

28. Do you have any current dental problems? Yes___ No___ Don't know/Not sure____

29. Do you have any <u>pain</u> in your teeth, gums or jaws? Yes____No____(SKIP TO QUESTION #32 IF NO) Pain indicates pain in the teeth, gums, oral tissues, jaws, TMJ (jaw joint) or oral musculature.

ORAL HEALTH STATUS (continued)

30. How long has your pain been present?

1 1 week or less

- 5 7-12 months
- 2 Less than a month
- 6 Greater than one year8 Refused
- 3
 1 to 3 months
 8

 4
 4-6 months
 9
 - 9 Don't know/Not sure

31. What type of dental pain do you have?

1 Pain in teeth

- 3 Pain in jaws (including jaw joint/TMJ)
- 2
 Pain in gums
 4
 Other (Explain:_____)

32. Have you lost any natural teeth for any reason?

____No ____Yes

If yes, how many teeth have you lost?

- 1 Minimal tooth loss (5 or less teeth)
- 2 Some or partial tooth loss (6 or more, but not all teeth)
- 3 No remaining teeth (SKIP TO QUESTION #36)

33. How many of your teeth have been removed because of tooth decay or gum disease?

Teeth extracted because of pain, swelling, loose teeth, etc. have been removed because of gum disease or caries. Do not include teeth lost for other reasons, such as injury, orthodontics, or wisdom teeth removal.

1 None

- 8 Don't know/Not sure9 Refused
- 1 to 5
- 3 6 or more, but not all
- 4 All

2

33a. If you have teeth remaining:

- **33a1.** Do you presently have any restorations in your teeth? (white or silver fillings, gold or porcelain crowns or bridges)
 - 1 Yes8Don't know/Not sure2 No9Refused
- **33a2.** Do you believe that you presently have any active decay/dental cavities in any of your teeth?
 - 1 Yes 8 Don't know/Not sure 2No 9 Refused

33a3. Do your gums often bleed when you brush or floss?

2

- 1 Yes 8 Don't know/Not sure
- 2 No 9 Refused

33a4. Are your gums often red, tender or swollen?

- 1 Yes 8 Don't know/Not sure
 - No 9 Refused
- 33a5. Do your gums pull away from your teeth in places?
 - 1 Yes 8 Don't know/Not sure
 - 2 No 9 Refused

ORAL HEALTH STATUS (continued)

33a6. Are your permanent teeth loose or separating?

- 1 Yes 8 Don't know/Not sure 2
 - 9 Refused No

33a7. Do you have any tartar/calculus or buildups on your teeth?

- 1 Yes 8 Don't know/Not sure
- 2 No 9 Refused

33a8. Do you frequently have bad breath?

- 1 Yes 8 Don't know/Not sure
- 2 No 9 Refused

33a9. Is the way your teeth <u>bite</u> together changing?

- 8 Don't know/Not sure 1 Yes
- 2 No 9 Refused
- 34. If you have partial tooth loss, have you had all or some of your lost teeth replaced? This means you wear a denture, partial denture, bridge or dental implant.
 - 1 Yes, I have replacements for **all** of my lost teeth.
 - 2 Yes, I have replacements for some, but **not all** of my lost teeth.
 - 3 No, I do not have replacements for any of my lost teeth. (SKIP TO OUESTION #43)
 - 8 Don't know/Not sure
 - 9 Refused
- 35. If you answered that you have replacements for some or all of your lost teeth, are your partials or bridges adequate? Adequate means they are comfortable, they function/work well, and they look good. Must meet all three criteria.
 - 1 Yes 8 Don't know/Not sure
 - 2 No. 9 Refused

PERSONS WITH DENTURES

If you have <u>ANY</u> natural teeth <u>AND DO NOT WEAR DENTURES</u> SKIP TO QUESTION #43.

36.Do you have:

- 1 Upper and lower dentures
- 2 Upper denture only
- 3 Lower denture only
- 4 Implant supported denture
- 8 Don't know/Not sure

5 Other

- 9 Refused
- 37. Which of these do you wear routinely?
 - 1 Upper and lower dentures
- 5 Other___
- 2 Upper denture only
- 8 Don't know/Not sure
- Lower denture only 3
- 4 Implant supported denture
- 9 Refused

PERSONS WITH DENTURES (continued)

38.How often do you wear your dentures? *Circle only one answer.*

- 1 Every day 5 Other
- 8 Don't know/Not sure 2 Some days
- 3 Only while eating 9 Refused
- 4 Never

No

39. How do you feel your dentures fit?

- 3 Fair 1 Excellent 8 Don't know/Not sure
- 2 Good 4 Poor 9 Refused

40. Do you have any sores or ulcers in your mouth or on your gums that you feel are caused by your dentures?

No Yes_____ If yes, how often do you have them?

- 3 Rarely8 Don't know/Not sure 1 Frequently
- 2 Sometimes 9 Refused

41. How long have you had your present dentures?

- 8 Don't know/Not sure 1 Less than 1 year 4 11-20 years
- 2 1-5 years 5 21-30 years 9 Refused
- 3 6-10 years $6 \quad 31 + years$

_____Yes

42. Do you feel you need new dentures made at this time?

Don't know/Not sure Refused

If Yes, you need new dentures made at this time, what is the reason? Circle all that apply.

- 1 Currently, don't have dentures 5 Not satisfied (appearance, way they feel)
- 2 Current dentures are worn out 6 Other
- Teeth in dentures are broken or missing 8 Don't know/Not sure 3
- 4 Lost dentures 9 Refused

USE OF DENTAL HEALTH SERVICES

43. How long has it been since you last visited a dentist or dental clinic for any reason?*

- Within the past year (0 to 12 months ago) 1
- 2 Within the past two years (1 to 2 years ago)
- 3 Within the past five years (2 to 5 years ago)
- 8 Don't know/Not sure
 - 9 Refused

5 Never

4 5 or more years ago

*Your best estimate.

If you last went to the dentist under or EXACTLY 1-year ago, mark "0-12 months ago."

If you last went to the dentist from 1 year to EXACTLY 2 years ago, mark "1-2 years."

If you last went to the dentist from two years to five years ago, mark "2 to 5 years ago."

If you last went to the dentist EXACTLY or greater than 5 years ago, please mark "5 or more years ago."

If you are unsure, mark "Don't know/Not sure."

USE OF DENTAL HEALTH SERVICES (continued)

44. If you have not visited a dentist in more than 1 year, what is the main reason? <u>Circle only one answer</u> (the MAIN reason) Does not apply/have been to a dentist in the past year 8 Other priorities 1 9 Have not thought of it 2 Fear, apprehension, nervousness 3 Dislike going 10 Other 4 Cost 5 Do not have/know a dentist 88 Don't know/Not sure 6 Cannot get to the office/clinic 99 Refused (too far away, no appointments available, no transportation) 7 No reason to go (no problems, no teeth) 45. What was the purpose of your most recent visit to the dentist? Circle only one answer (the MAIN reason) 1 Prevention/Cleaning 5 **Dentures**/Partial Dentures 2 Pain/Dental Emergency/Extraction 6 Gum Therapy/Periodontal 3 Restorative/Fillings 7 Root Canals/Endodontic 4 Crowns/Bridges 8 Other HEALTH ACCESS BELIEFS AND QUESTIONS

46.Do you have any major barriers in getting dental care or services?

Yes_____ No____ (SKIP TO QUESTION #48)

If Yes, circle all that apply.

- 1 Do not have dental insurance 7
- No dentist available
- 2 Don't like/trust/believe in dentists 8 No way to get there (transportation)
- 3 Did not know where to go 9 Lim
- 9 Limitation of mobility 10 Other
 - 4 Could not afford (no money)
- 5 Dentist did not accept Medicaid 88 Don't know/Not sure
- 6 Difficulty in getting appointment 99 Refused

47. Which of the following services do you have difficulty in obtaining? *Circle all that apply.*

- 1 Basic dental services: check-ups, cleaning and fillings.
- 2 Advanced dental services: crowns, bridges, implants, periodontal treatment and extractions.
 - 3 Emergency dental services: able to make appointment and visit dentist right away for dental pain or oral problem.
 - 4 Prosthodontic dental services: having dentures or partial dentures made by dentist.
 - 5 Other service (please list) ____
 - Don't know/Not sure
- 9 Refused

8

HEALTH ACCESS BELIEFS AND QUESTIONS (Continued)

48. What are your recommendations for improving your oral health status?

Circle all that apply or write in comment.

- 1 Make dentistry affordable.
- 2 Mobile clinic (mobile van comes to a specific location such as a senior center or church in your community)

- 3 House calls (Dentist or dental hygienist comes to your house)
- 4 Dental offices made more accessible for wheelchairs, parking, etc.
- 5 Other _____
- 8 Don't know/Not sure
- 9 Refused

THANK YOU FOR TAKING TIME TO RESPOND TO THIS QUESTIONNAIRE!

APPENDIX 2

KENTUCKY ELDER ORAL HEALTH SURVEY CLINICAL SCREENING FORM

EXAN	INER: PARTICIPANT NAME:							
PARTICIPANT ID#:								
*Compliance should be checked for EVERY PERSON examined.								
	Patient fully compliant Patient partially compliant Patient non-compliant							
	OVERALL ORAL HEALTH MEASURES							
	AORAL PATHOLOGY							
	tions: Indicate "NO" for no pathology or "YES" for possible pathology for each area examined. If possible pathology, give							
	clinical impression.							
	1. FACE and NECK: Pathology = swelling or lump, sore or mole more than 2 weeks old, change in size or color of mole or							
	ore. Do not include variation of normal (freckles, vessels, bruising or non-suspicious color changes).							
	No pathologyYes, possible pathologyUnable to examine							
	Variation of normal/Reversible Possible Pathology							
	LipomaSkin cancer (Basal or squamous cell)							
-	Petechia/Ecchymosis (age-related)Unilateral/Bilateral facial swelling							
-	Keratosis (Actinic or Seborrheic)Unilateral/Bilateral Neck Swelling							
-	VaricositiesMelanoma							
-	OtherOther							
	TM Joint: ONLY INCLUDE as Pathology if one or more of these three symptoms: pain, popping, cracking are							
	eported or discovered during palpation.							
	No pathologyYes, possible pathologyUnable to examine							
	f yes, describe:							
-								
3.	LIPS/Corners of Mouth: Pathology= color change more than 2 weeks old, swelling or lump, ulcer which may							
	bleed.							
	No pathologyYes, possible pathologyUnable to examine							
	Variation of normal/Reversible Possible pathology							
	Herpes labialis (lip)Cancer (Basal or squamous cell)							
	Mucocele Angular chelitis (corners of mouth) Fibroma Actinic cheilosis (lip)							
	FibromaActinic cheilosis (lip)							
	OtherOther							
INTR.	ORAL PATHOLOGY							
4.	Does this person have dentures or partials?NOYES. If yes, ask them to remove. If patient refuses,							
	lease check Refused Other comments Please continue exam.							
5.	NSIDE CHEEKS AND LIPS: <i>Pathology=white or red patch more than 2 weeks old, bleeding, swelling or lump,</i>							
	ulcer							
	No pathologyYes, possible pathologyUnable to examine							
	Variant of Normal/Reversible Possible pathology.							
	Apthous ulcer/traumatic ulcerLeukoplakia							
	Fordyce granulesErythroplakia							
	Fibroma/linea albaSwelling of lump							
-	Lichen planus (asymptomatic)Lichen planus (ulcerative or symptomatic)							
	OtherOther							

INTRAORAL PATHOLOGY (continued)

6.		Pathology=sore or color change more than 2 weeks old, swelling or lump, ulcer. Yes, possible pathology Unable to examine			
	Variant of Normal/R		Possible pathology		
	<u>Maxillary torus palatinus</u> Nicotine stomatitis Inflamed salivary gland		Denture stomatitis		
			Denture related lesion		
			<u>Ulceration unhealed for > 2 weeks</u>		
	Longstanding exos	tosis	Swelling/enlargement		
	Other		Other		

INTRAORAL PATHOLOGY (continued)

7. **TONGUE:** *Pathology=ulcer, burning or pain; white/ red patch which can't be removed; smooth or shiny shiny area on top or side.*

· _	No pathology	Yes, possible pathologyUnable to examine
	Variant of Normal/Reversible	Possible pathology
	_Fissured tongue	Ulcer or sore > 2 weeks
	_CandidiasisE	rythroplakia
	_Median rhomboid glossitis	Leukoplakia
	_Migratory glossitis (Asyptoma	tic)Migratory glossitis (Ulcerative or symptomatic)
	_Other	Other

8. FLOOR OF MOUTH: Pathology=color change more than 2 weeks old, swelling or lump, ulcer. No nathology Ves. possible nathology Unable to examine

	No pathology	_ res, possible pai	linologyUnable to) exam
	Variant of Normal/Rev	ersible Possible	le Pathology	
_	Torus mandibulari	sErythr	oplakia	
	Lingual varicositie	esLeukoj	plakia	
_	Hyperplastic lymp	hoid aggregates	Swelling or enlarge	ment
	Mucocele (small)	Ulo	cer or sore > 2 weeks	
_	Other		_Other	

9. SALIVA: *Pathology= absent, no moisture, ropy or thick. May be manifested by dry tongue, poor denture retention.*

_No pathology _____Yes, possible pathology ____Unable to examine If yes, describe_____

10. Dentate status by arch.

Indicate number of teeth in each arch; do not count root tips. If no teeth present, enter 00 for each arch.

- _____ upper teeth _____Unable to examine
- ____ lower teeth

11. Occlusion

- 1 adequate (premolar or molar natural teeth in bilateral occlusal contact)
- 2 inadequate (lack of bilateral occlusal contact upon mouth closing; no premolar or molar natural teeth occlude)
- 3 adequate prosthetic bilateral occlusal contact
- 4 inadequate prosthetic bilateral occlusal contact
- 7 unable to examine

12. Oral Hygiene Status

- 1 excellent (no visible debris or plaque seen)
- 2 good (visible debris on teeth, but less than 25%)
- 3 fair (25-49% visible debris on teeth)
- 4 poor (50% or more visible debris on teeth)
- 7 unable to examine

FOR PEOPLE WITH NATURAL TEETH REMAINING (IF EDENTULOUS, GO TO QUESTION #28)

PERIODONTAL EXAMS (TEETH #22-27, INCLUSIVE)

For questions #13-17, mark "Does not apply" if there are fewer than <u>THREE</u> indicator teeth (#22-27) present.

13. Gingival signs _____No ____Yes ____ Unable to examine ____ Does not apply

Mark "No" if free or attached gingiva or papillae on the facial surface of 2 or less mandibular anterior teeth are moderately to severely red or blue gingival OR show significant deviations from normal contour or texture (loss of stippling, glossiness, fibrosis, frank swelling or enlargement, hyperplasia, and/or flaccidity of attached gingival); gingiva demonstrates only slight redness or change in contour or texture; signs are the result of a recent surgical procedure; or signs are the result of an obvious recent injury. Mark "Yes" if free or attached gingiva or papillae on the facial surface of 3 or more mandibular anterior teeth are moderately to severely red or blue OR show significant deviations from normal contour or texture (loss of stippling, glossiness, fibrosis, frank swelling or enlargement, hyperplasia, and/or flaccidity of attached gingiva).

PERIODONTAL EXAMS (TEETH #22-27, INCLUSIVE)

For questions #13-17, mark "Does not apply" if there are fewer than <u>THREE</u> indicator teeth (#22-27) present.

14. Recession No Yes Does not apply

Mark "No" if no mandibular anterior tooth has equal to or less than 1 mm of root surface exposed on the facial surface.

Mark "Yes" if there is more than 1 mm of root surface exposed on the facial surface of any indicator mandibular tooth.

 15. Calculus present ____No ___Yes ___Unable to examine ____Does not apply Mark "No" if no calculus is present, OR 1 mm or less of calculus is present on 3 or less mandibular anterior teeth (lingual surface). Mark "Yes" if there are more than 3 mandibular anterior teeth with more than 1 mm of calculus present on lingual surface.

16. Tooth mobility _____No ____Yes ____ Unable to examine ____ Does not apply

Mark "No" if no mandibular anterior tooth can be moved 2 or more mm by digital palpation (movement includes buccal-lingual, mesio-distal, or gingival (depression) movements). Mark "Yes" if any tooth can be moved 2 or more mm by digital palpation by the examiner (movement includes buccal-lingual, mesio-distal, or gingival (depression) movements).

17. Gingival bleeding _____No ____Yes ____ Unable to examine ____ Does not apply

Instruct the subject to floss between the middle two lower teeth, #24 , if present. Use the disposable flosser provided. Subject should extend flosser to bottom of sulcus. If #24 and #25 are not present, move laterally to the next available proximal tooth surface. Dispose of used flosser. After 30 seconds, observe the lower anterior teeth (#22-27) inclusive for any signs of gingival bleeding.

Mark "No" if there is no evidence of bleeding in the test area, bleeding is the result of an obvious recent injury, or bleeding is the result of an obvious recent dental or surgical procedure.

Mark "Yes" if there is evidence of gingival bleeding on the facial or interproximal surface of one or more of the test teeth (#24 & #25 or substitutes).

18. Overall Periodontal Health – Dentate

- 1 excellent (all 5 responses to questions #13-17 are "No")
- 2 good (all responses to questions #13-17 are "No" except #14 Recession and/or #15 Calculus)
- 3 fair (2 to 4 responses to questions #13-17 are "Yes")
- 4 poor (all 5 responses to questions #13-17 are "Yes")
- 5 does not apply (not enough or no indicator teeth present)
 - 7 unable to examine

PERIODONTAL EXAMS (TEETH #22-27, INCLUSIVE) (continued)

19. Urgency of periodontal problems

- 1 no problems detected (recommend routine 6 month to one year recalls)
- 2 routine care is required (within 6 months) (Represent no acute problems, but chronic problems needing routine care)
- 3 early care is required (within 1 month) (Isolated or symptomatic chronic problem)
 - 4 immediate care is required (ASAP) (Acute and symptomatic....emergency)
 - 5 does not apply
 - 7 unable to examine

CARIES EXAM

20. Caries Present

- 1 no (SKIP TO QUESTION #23)
- 2 yes
- 7 unable to examine
- For the purpose of this survey, caries (active decay) are said to be present if the following two tests are met:
- there must be cavitation (at least 1/2 mm of tooth surface broken)
- there must be discoloration (brownish coloration in the area of the cavitation)

Circle "1" (No caries present) if:

-teeth are chipped, fractured, crowned or filled, but there are no "caries present"

-one, but not both criteria for "caries present" are true

-teeth are filled or crowned, but there are no "caries present"

-there is white-colored discoloration, but both criteria are not present.

Circle "2" (Caries present) if:

- -any tooth or tooth fragment has "caries present" (defined above), a tooth has a restoration or crown and "caries present", a tooth has "caries present" around an existing restoration or crown (recurrent decay), a tooth is broken, chipped, and/or fractured and has "caries present", or there is a retained root.
- 21. If yes, how many caries (including root tips) are visibly seen? _____(write in # of teeth w/ caries). (Four or less than 4 teeth with caries is considered "a few". Five or more carious teeth are considered "many").

22. Urgency of Caries

- 1 routine care is required (within 6 months) (unlikely that caries will become symptomatic)
 - 2 early care is required (within 1 month) (currently asymptomatic but likely that caries will become symptomatic)
 - 3 immediate care is required (ASAP) (symptomatic or likely that pulp exposure is present or imminent)
 - 4 does not apply (no caries present)
- 7 unable to examine

23. Restorations present

- 1 no
- 2 yes
- 7 unable to examine

24. Broken or missing restorations

- 1 none
- 2 1-5
- 3 6-9
- 4 10 or more
- 7 unable to examine

CARIES EXAM (continued)

25. Presence of replacements for missing teeth (dentures, partials or bridges)

- 1 yes, for all missing teeth
- 2 yes for some, but not all missing teeth
- 3 no replacements because none are necessary (SKIP TO QUESTION #27)
- 4 no replacements for missing teeth (even if needed) (SKIP TO QUESTION #27)
- 7 unable to examine

Specify patient's prosthetic status: (Section applies to people who have prosthetic replacements)

-	Dentures: Partials (check all that apply)		Bridges/Implants:			
			(check all that apply)	(check all that apply)		
			upper and lower parti	alsupper and lower bridges/implants		
	upper denture only	up	oper partial only	upper bridge/implants only		
	lower denture only		_lower partial only	lower bridge/implant only		
	implant supported de	enture	no partials for missing	no bridges/implants for missing		
	no dentures	teeth	teeth			
_	unable to examine		_unable to examine	unable to examine		

26. Adequacy of replacements for missing teeth. Adequacy means they are <u>comfortable</u>, they <u>function/work well</u>, *AND they <u>look good</u>. Adequacy is the patient's opinion, not the examiner's.*

- 1 no, inadequate (comfort, function, and esthetics)
- 2 yes, adequate (comfort, function, and esthetics)
- 3 does not apply (no replacements)
- 7 unable to examine

27. Overall Oral Health Status – Dentate

Consider oral pathology, overall cleanliness of dentition, and presence or absence of oral symptoms. The overall oral health status rating **should be consistent with the most severe rating of periodontal or caries** exam.

- 1 excellent (Excellent periodontal health, no caries).
- 2 good (Good periodontal health, four teeth or fewer with caries)
- 3 fair (Fair periodontal health, and five teeth or more with caries)
- 4 poor (Poor periodontal health, and teeth with caries are symptomatic or pulpally or close to being pulpally involved)
- 7 unable to examine

FOR PEOPLE WITH NO NATURAL TEETH REMAINING

28. Does this person have a denture or dentures?

- 1 yes (Continue with question #29)
- 2 no (Skip to question #30)

FOR PEOPLE WITH NO NATURAL TEETH REMAINING (continued)

29. Denture evaluation: Circle which denture(s) is/are present: Opper Lower)
Hygiene:
Upper Adequate Inadequate Does not apply Unable to examine
Lower Adequate Inadequate Does not apply Unable to examine
Occlusion:
Upper Adequate Inadequate Does not apply Unable to examine
Lower Adequate Inadequate Does not apply Unable to examine
Integrity:
Upper Adequate Inadequate Does not apply Unable to examine
Lower Adequate Inadequate Does not apply Unable to examine
Stability:
Upper Adequate Inadequate Does not apply Unable to examine
Lower Adequate Inadequate Does not apply Unable to examine
Retention:
Upper Adequate Inadequate Does not apply Unable to examine
Lower Adequate Inadequate Does not apply Unable to examine

29. Denture evaluation: *Circle which denture(s) is/are present:* Upper Lower)

Hygiene: adequate – less than 50% of tissue surface of denture with visible debris inadequate – 50% or more of the tissue surface of denture with visible debris

Occlusion: inadequate – anterior crossbite or lack of bilateral occlusal contact upon mouth closing; no premolar or molars. **Integrity**: inadequate – defects of the denture teeth or base, such as broken teeth, broken flanges, inadequate extension,

severe discoloration, or unesthetic appearance.

Stability: inadequate -3 mm or more of lateral movement of the denture when it rests on the edentulous ridge and is manually moved laterally; or displacement of denture from ridge when moderate occlusal force is placed on contralateral premolar teeth.

Retention: inadequate – displacement of the denture from the alveolar ridge when the patient opens the mouth wide but without strain or when light occlusal pressure is placed on incisal of the anterior teeth.

 30. Health of Alveolar Ridges: _____No pathology (good) _____Yes, possible pathology (fair or poor, depends on severity)

 Pathology=denture sore, redness, white area, swelling or lump _____Unable to examine

 If possible pathology, give your clinical impression:

 _____Denture sore ____Epulis fissuartum ____Erythoplakia

 _____Denture stomatitis _____Leukoplakia ____Other______

- **31.** Adequacy of replacements for missing teeth (full dentures). Adequacy means they are <u>comfortable</u>, they <u>function/work well</u>, AND they <u>look good</u>. (Adequacy is in the patient's opinion, not the examiner's. May still be adequate if only 1 denture).
 - 1 no, inadequate (comfort, function, and esthetics)
 - 2 yes, adequate (comfort, function, and esthetics)

32. Overall oral health – edentulous

1 excellent (no pathology) 3 fair (isolated, acute areas) 7 unable to examine

2 good (minor pathology) 4 poor (significant path. or problems)

Consider: Do Not Consider:

- presence/absence of oral/perioral lesions or debris presence/absence of dentures
 - condition of alveolar ridges, mucosa, oral tissues, TMJ condition of dentures (if any)

7 unable to examine

3 does not apply (no replacements present)

OVERALL TREATMENT URGENCY FOR ALL PARTICIPANTS

33. Overall treatment urgency (dentate and edentulous participants)

*(IF A PERSON HAS A CONFLICTING URGENCY BETWEEN PERIODONTAL STATUS AND CARIES EXAM SELECT THE ONE WHICH IS MOST URGENT!)

- 1 no problems detected with this screening (recommend yearly recalls if edentulous, or 6 months to 1 year if dentate)
- 2 routine dental care is required (within 6 months) (chronic, noted problems need dental evaluation and treatment)
- 3 early dental care is required (within 1 month) (*chronic problem(s), may result in emergency if not seen soon*)
- 4 immediate dental care is required (ASAP) (acute, emergent, or symptomatic problem needing immediate attention)
- 7 unable to examine



KENTUCKY ELDER ORAL HEALTH SURVEY 2002



DENTAL REPORT CARD

Department for Public Health Cabinet for Health Services Commonwealth of Kentucky Frankfort KY 40621-0001

College of Dentistry University of Kentucky Lexington KY 40536-0297

Da	te							
Na	Name				has received a dental screening without x-ray films.			
We	e found the following:							
1.	Mouth sores/growth: (questions 5-8)	Prese	nt	Abs	sent		Unable to exa	amine
2.	Oral hygiene: (question 12)	Excel	ent _	Good	Fair	Poor	Unable to exa	amine
3.	Health of gums: (question 18 for dentate,	Excel question 30 for	_	Good	Fair	Poor	Unable to exa	amine
4.	Tooth decay: (question 21)	None	Few	Many	Does n	ot apply	Unable to exa	imine
5.	Dentures:	Adequate	Ina	dequate	Does n	ot apply	Unable to exa	amine
6.	Overall oral health sta (question 27 for dentate,			Good	Fair	Poor	Unable to exa	imine

Treatment Urgency:

(If a person has a conflicting urgency between periodontal status(question 19) and caries exam (question 22), select the one which is most urgent.)

No problems detected with this screening. Still, a regular examination at least one time a year is recommended.
 Routine dental care is required (within 6 months). Please schedule a dental appointment at your earliest convenience.
 Early dental care is required (within 1 month). Please schedule a dental appointment as early as possible.
 Immediate dental care is required because of pain and/or infection. Please call your dentist today.
 Unable to examine.

Comments:

These findings still need to be confirmed by x-rays. You should receive a dental examination by your dentist before treatment.

If you do not have a dentist and are in need of dental care, you may call the Kentucky Dental Association at 1-800-292-1855. They will be happy to refer you to a licensed dentist in your area. Please specify if you have access problems ,i.e., money, transportation, etc.

Participating Nursing Homes/Assisted Living Facilities

Baptist Convalescent Center 120 Main Street Newport KY 41071 *Region 4: Campbell County*

Baptist Towers Carl S. Hennigen, Director 800 Highland Avenue Covington, KY 41011 *Region 4: Kenton County*

Britthaven of Benton Jennifer Thomas, Administrator US Highway 641 South P.O. Box 385 Benton, KY 42025 *Region 1: Marshall County*

Britthaven of South Louisville Robert Flatt, Administrator 9600 Lamborne Boulevard Louisville, KY 40272 *Region 2: Jefferson County*

Brookfield Manor Rebecca Hammonds, Administrator 2820 Richard Street P.O. Box 711 Hopkinsville, KY 42240 *Region 1: Christian County*

Carmel Home Sr. Frances Teresa, Director 2501 Old Hartford Road Owensboro, KY 42301 Region 1: Daviess County

Carmel Manor Sr. Teresa Kennedy, Administrator Carmel Manor Road Ft. Thomas, KY 41075 *Region 4: Campbell County*

<u>Colonial Gardens</u> Ken Kaser, Manager 6900 Hopeful Road Florence, KY 41042 *Region 4: Boone County*

Episcopal Church Home Keith R. Knapp, Chief Executive Officer 1201 Lyndon Lane Louisville, KY 40222-4398 Region 2: Jefferson County

Fern Terrace Lodge of Bowling Green 1030 Shive Lane Bowling Green, KY 42103 *Region 1: Warren County*

Fern Terrace Lodge of Mayfield A. Loudean Austin, Administrator P.O. Box 325 Mayfield, KY 42066 *Region 2: Graves County*

Fern Terrace Lodge of Owensboro 45 Woodford Avenue Owensboro, KY 42301 *Region 1: Daviess County*

Four Courts Senior Center Deborah A. May, Executive Director 2100 Millvale Road Louisville, KY 40205 *Region 2: Jefferson County*

Franciscan Health Care Center Suzanne Rinne, Administrator 3625 Fern Valley Road Louisville, KY 40219 *Region 2: Jefferson County*

Good Shepherd Community Nursing Center Priscilla Hager, Executive Director P.O. Box 424 Phelps, KY 41553 *Region 5: Pike County* Laurel Heights Home for the Elderly Kathy Young, Administrator 208 West Twelfth Street P.O. Box 1800 London, KY 40743-1800 *Region 5: Laurel County*

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Laurel Village (Assisted Living) Kathy Young, Administrator P.O. Box 1920, 815 Mill St. London, KY 40743-1920 Region 5: Laurel County

Lexington Country Place Katherine E. Davis, Administrator 700 Mason Headley Road Lexington, KY 40504 *Region 3: Fayette County*

Loretto Motherhouse Infirmary Sr. Kay Carlew, Administrator 515 Nerinx Road Nerinx, KY 40049 *Region 3: Marion County*

Metzmeier Nursing Home, Inc. Don Metzmeier, Administrator 700 North Central Avenue Campbellsville, KY 42718-2098 *Region 4: Taylor County*

Paragon at West Park Angela Butts, Community Director 4960 Village Square Drive Paducah, KY 423001 *Region 1: McCracken County* Pine Meadows Health Care, Inc. Jamie Gitzinger, Administrator 1608 Hill Rise Drive Lexington, KY 40504 *Region 3: Fayette County* <u>Richmond Place (Assisted Living)</u> Carol A. Brinegar, Care Manager 3051 Rio Dosa Drive Lexington, KY 40509 *Region 3: Fayette County*

Rockcastle Health and Rehabilitation Brodhead, KY 40409 Region 5: Rockcastle County

Sacred Heart Village Leslie Wilson, President/CEO 2120 Payne Street Louisville, KY 40206 *Region 2: Jefferson County*

Stanton Nursing & Rehabilitation Center 31 Derickson Lane Stanton, KY 40380 *Region 5: Powell County*

Woodland Oaks Paula F. Long Barker, Administrator 1820 Oakview Road P.O. Box 1309 Ashland, KY 41105-1309 *Region 5: Boyd County*

Participating Senior Citizens Centers

Anderson County Senior Citizens Program 160 Township Square Lawrenceburg, KY 40342 *Region 3*

Campbell County Senior Center 3504 Alexandria Pike Highland Heights, KY 41076 *Region 4*

Casey County Senior Center P.O. Box 393 Liberty, KY 42539 *Region 5*

Corbin Senior Citizens Center P.O. Box 691 Corbin, KY 40701 *Region 5: Knox County*

<u>Elderserve – Oak & Acorn</u> 631 South 8th St. Louisville, KY 40211 *Region 2: Jefferson County*

Elliott County Senior Center P.O. Box 711, Main St. Sandy Hook, 41171 *Region 5*

Estill County Senior Center 532 Stacy Lane Road Irvine, KY 40336 Region 3

<u>Georgetown/Scott County Senior Center</u> 800 Cincinnati Pike, Suite 10 Georgetown, KY 40324 Region 3

Fleming County Senior Center Rocky Adkins Community Center P.O. Box 711 Sandy Hook, KY 41171 Region 5

<u>Green County Senior Center</u> 110 S. First Street Greensburg, KY 42743 Region 5

<u>Hartford Senior Center</u> Ohio County Senior Services 2320 Highway 69 North *Region 1*

Harrison County Senior Citizens Center 219 Old Lair Road Cynthiana, KY 41031 *Region 3*

Jessamine County Senior Center 111 Hoover Drive Nicholasville, KY 40356 *Region 3*

McLean County Senior Services 857 Walnut Street P.O. Box 334 Calhoun, KY 42327 *Region 1*

<u>Jeffersontown Senior Center/</u> <u>Jeffersontown Community Ctr. Health Fair</u> Jeffersontown, KY 40243 *Region 2*

Jessamine County Senior Center 111 Hoover Drive Nicholasville, KY 40356 *Region 3*

Arthur S. Kling Center 219 West Ormsby Avenue Louisville, KY 40203 *Region 2: Jefferson County* Lexington/Fayette County Senior Citizens Center 1530 Nicholasville Road Lexington, KY 40503 *Region 3*

Livermore Senior Center 105 W. Third St. Livermore, KY 42352 *Region 1: McLean County*

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Madisonville-Hopkins County Senior Center Pennyrile Senior Citizens Center Regional Senior Citizens Center 200 North Main Madisonville, KY 42431 *Region 1*

Mayfield-Graves County Senior Center 901 North 15th St. P.O. Box 434 Mayfield, KY 42066 *Region 1*

Mason County Senior Center 1679 Forest Avenue Maysville, KY 41056 *Region 4*

McLean County Senior Services 875 Walnut Street P.O. Box 334 Calhoun, KY 42327 *Region 1*

Elizabeth Munday Senior Center 1650 West Second Street Owensboro, KY 42301 Region 1: Daviess County

Murray-Calloway County Senior Center P.O. Box 1291 Murray, KY 42071

Nicholas County Senior Citizens Center 124 East Main St. Carlisle, KY *Region 3* Pendleton County Senior Center 1111 Chipman St. Falmouth, KY 41040 *Region 4*

Pulaski County Senior Center 807 Monticello St. Somerset, KY 42501 *Region 5*

Robertson County Senior Center P.O. Box 298 Mt. Olivet, KY 41064 *Region 4*

Shelby County Senior Center P.O. Box 305 213 Washington St. Shelbyville, KY 40066-0305 *Region 2*

Taylor County Senior Citizens Center 110 N. Jackson St. Campbellsville, KY 42718 *Region 3*

Trigg County Senior Center 39 Jefferson St. P.O. Box 99 Cadiz, KY 42211 *Region 1*

Woodford County Senior Citizens Center 112 North Main Versailles, KY 40383 *Region 3*

Kentucky Area Agencies on Aging

Kentucky Agency on Aging Jerry Whitley, Director Frankfort, KY

Barren River Area Agency on Aging Debbie McCarty, Aging Planner Michelle Hines, Homebound Coord. 177 Graham Ave, P.O. Box 90005 P.O. Box 90005 Bowling Green, KY 42102-9005

Big Sandy Area Agency on Aging Donna Frazier, Aging Planner 100 Resource Dr. Prestonsburg, KY 41653

Bluegrass Area Agency on Aging Peggy Chadwick, Aging Planner 699 Perimeter Dr. Lexington, KY 40517

Buffalo Trace Area Agency on Aging Caroline C. Ullery, Aging Planner 327 W. 2nd St., P.O. Box 460 Maysville, KY 41056

Cumberland Valley Area Agency on Aging Bernice Miracle, Aging Planner Tom Doty, Homebound Coordinator Cathy Frederick P.O. Box 1740, 342 Old Whitley Rd. London, KY 40743-1740

FIVCO Area Agency on Aging

Karen Rice Sizemore, Aging Planner P.O. Box 636, 3000 Louisa St. Catlettsburg, KY 41129-0636

<u>Gateway Area Agency on Aging</u> Charles Jones, Aging Planner Cheryl Muller, Homebound Coordinator Court House Annex, Main St. P.O. Box 1070 Owingsville, KY 40360

Green River Area Agency on Aging Bill Cooper, Aging Planner Jennifer Williams, Homebound Coordinator 3860 U.S. Highway 60 West Owensboro, KY 42301-0200

Kentucky River Area Agency on Aging Peggy Roll, Aging Planner 917 Perry Park Rd Hazard, KY 41701

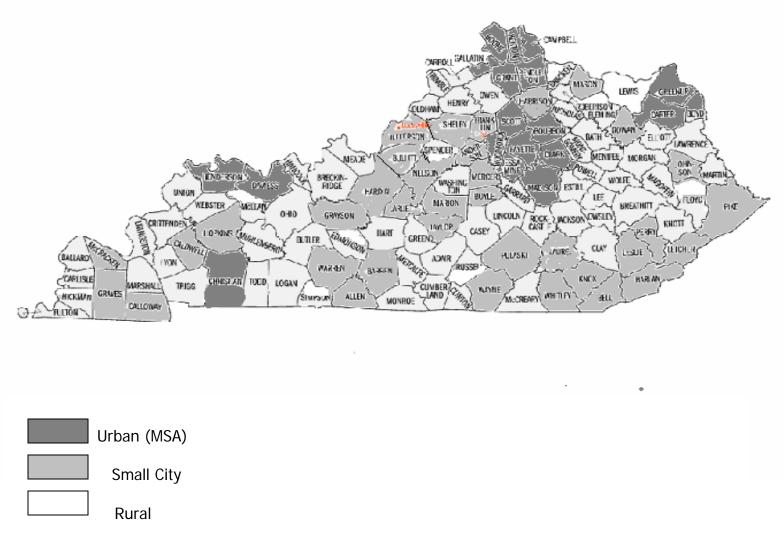
<u>KIPDA</u> Evelyn Tinker, Aging Planner 11520 Commonwealth Dr. Louisville, KY 40299 Lake Cumberland Area Agency on Aging Cindy Branscum, Aging Planner P.O. Box 1570, 2374 Lakeway Dr. Russell Springs, KY 42642

Lincoln Trail Area Agency on Aging Nancy Addington, Aging Planner 613 College Street Road P.O. Box 604 Elizabethtown, KY 42702-0604

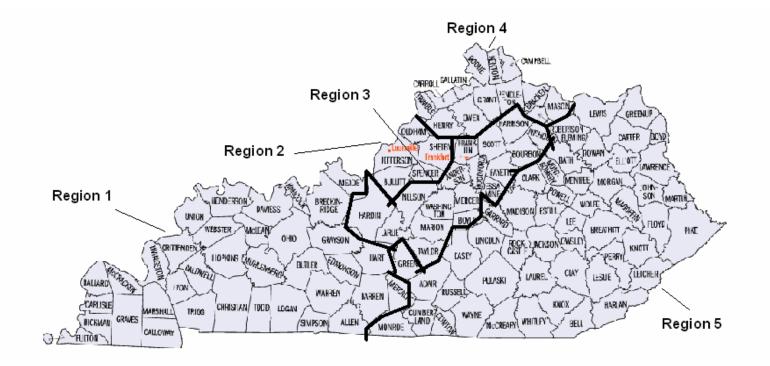
N. Kentucky Area Agency on Aging Carol Marek, Aging Planner Liza Lucas, Homebound Coordinator 16 Spiral Dr., P.O. Box 668 Florence, KY 41022-0668

Purchase Area Agency on Aging Vicki Williams, Aging Planner P.O. Box 588, 1002 Medical Dr. Mayfield, KY 42066

Pennyrile Area Agency on Aging Agnes Davis, Aging Planner 300 Hammond Dr. Hopkinsville, KY 42240



Appendix 7: Urban/Rural Location Map



APPENDIX 8: REGIONAL MAP