## EXECUTIVE SUMMARY 2002 KENTUCKY ADULT ORAL HEALTH SURVEY JULY 2003

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#### INTRODUCTION

The 2002 Kentucky Adult Oral Health Survey (KAOHS) was conducted by the University of Louisville School of Dentistry, in conjunction with the Office of Oral Health of the Department for Public Health, Commonwealth of Kentucky, to meet the following specific aims:

- To provide a point-in-time benchmark of the oral health status of adult Kentuckians
- To serve as a starting point for an ongoing surveillance system of adult Kentuckians' oral health status
- To provide information for the assessment of Healthy Kentuckians 2010 objectives
- To develop a comparison to the 1987 Kentucky Oral Health Survey
- To identify the distribution of oral diseases among adult Kentuckians regarding age, sex, income level, and other demographic factors
- To identify problems of access to dental care among adult Kentuckians
- To identify social and personal characteristics that affect the oral health of adult Kentuckians
- To compare the oral health status of adult Kentuckians to other populations

KAOHS was conducted by means of a telephone survey of a random sample of adults (N = 2,066) in each of five regions of the Commonwealth: Western Kentucky, Central Kentucky, Eastern Kentucky, the Louisville Metro area, and Northern Kentucky. The survey was conducted by the University of Louisville Urban Studies Institute during the summer and fall of 2002. The sample size was calculated in a manner similar to that used in the Behavioral Risk Factor Surveillance System (BRFSS), and allows generalizability of the data to the regional level.

Five basic components were included in the survey instrument: demographic information; general health questions; information regarding the utilization of dental services, including reasons for non-utilization; self-reported oral health status using a number of disease and outcome indicators; and knowledge and beliefs concerning the causes of oral cancer. In many cases, questions were used from other surveys to facilitate comparison of results.

A clinical validation component was conducted prior to the final telephone survey in which participant self-reports of oral health status were compared to professional clinical assessments conducted on 250 subjects. These data were used to calculate "correction factors" to account for differences between self and professional reports of oral health status, if needed.

The data presented in this report provide a summary of the survey findings. The first section reflects key findings for the state as a whole, for each individual region, and for location of residence of the respondent (Metropolitan Statistical Area [MSA], small city, or rural). An MSA, as defined in the Census 2000 Geographic Terms and Concepts, is an area that has a large population nucleus, with adjacent communities that have a high degree of economic and social integration with that nucleus. Counties included in Kentucky MSAs are identified in the 1999 Population Estimates of the Kentucky State Data Center. For the purposes of this study, a "small city" is defined as a county in which the largest city is at least 5,000 but which is not included in an MSA. "Rural" is defined as a county in which the largest city is less than 5,000 people. The second section of this document provides a comparison of selected findings by region, location, or other demographic variable of interest.

A detailed description of the methodology and complete report of the findings is available from the Office of Oral Health in the document entitled Report of Findings: 2002 Kentucky Adult Oral Health Survey.

## Adult Oral Health in the Commonwealth of Kentucky Fact Sheet

- An estimated 1,497,098 adults in Kentucky have NO dental insurance of any kind. Lack of insurance is
  one of the largest barriers to dental care.
- An estimated 814,012 adult Kentuckians smoke cigarettes every day. Besides the well known general health problems, smoking is one of the primary contributors to periodontal disease.
- 757,041 adults in Kentucky (24.9%) report having had oral pain within the past three months. This problem falls disproportionately on the underclass. 41.3% of Kentucky's adults who receive Medicaid reported oral pain. The effects of pain on the daily functioning of adults includes problems with nutrition, speech, self-esteem, missed work, and out-of-pocket expense for treatment.
- 21.2% (1 in 5) of Kentucky's adults report having had 6 or more teeth extracted.
- An estimated 649,825 (21.4%) adults in Kentucky have open, active dental caries.
- Over 1 million adults (36.1%) in Kentucky have NOT made a visit to the dentist, for any reason, in the
  past year. This problem falls disproportionately on the poor. 31.7% of the lowest income group have
  not even made a dental visit in more than 5 years, compared to 2.0% of the highest income group.
  Professional and public health recommendations call for at least one visit per year for every adult.
- Cost was cited as the reason for not making a dental visit by 26.0% of the adults in Kentucky
  (approximately 274,547 adults) who reported no visit within the past year. Among those without
  insurance, cost was cited by 33.0% of adult Kentuckians as the reason they did not make a dental visit.
- 27.6% of Kentucky's adults report that their oral health is either "fair" or "poor." Poor oral health again falls disproportionately on the poor. 44.8% of Kentucky's poorest group report poor or fair oral health, compared to only 14.7% of the wealthiest group.
- 324,595 (10.7%) of Kentucky's adults report problems chewing their food as a result of their teeth or dentures. The effect on their diet, nutritional status and resulting health can only be surmised.
- 613,563 (20.2%) of Kentucky's adults are dissatisfied with the appearance of their teeth or dentures.
   This has an obvious impact on employability and economic development.

This information was obtained from the 2002 Kentucky Adult Oral Health Survey, conducted by the University of Louisville School of Dentistry, under a contract form the Office of Oral Health, Kentucky Department for Public Health.

## SUMMARY OF SURVEY FINDINGS

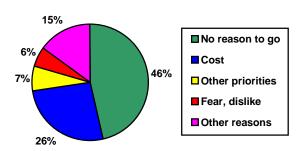
### **Kentucky (Statewide)**

Percent of adults (weighted) 18 years old and above, as reported by telephone interview

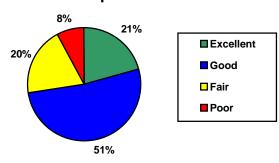
#### **Time Since Last Dental Visit**

## 12% 10% 14% 64% Less than 1 yr 1 to 2 yrs 2 to 5 yrs More than 5 yrs

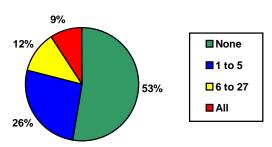
#### **Reason for No Dental Visit**



#### **Self-Reported Oral Health**



#### **Number of Teeth Extracted**



•	Having no dental insurance	49.6%
•	Oral pain in last 3 months	24.9%
•	Dissatisfaction with ability to speak	3.1%
•	Dissatisfaction with ability to chew	10.7%
•	Dissatisfaction with appearance of teeth	20.2%
•	Untreated decay*	21.4%
•	At least one filling, crown, or bridge	71.3%
•	Bleeding gums*	15.4%
•	Red, swollen, or tender gums*	25.3%
•	Gingival recession*	28.9%
•	At least one loose tooth*	7.9%
•	Calculus on their teeth*	20.0%
•	Bad breath due to teeth or gums	8.8%
•	Replacements for 6 or more missing teeth	
•	All missing teeth replaced	65.6%
	<ul> <li>Some missing teeth replaced</li> </ul>	16.5%
	<ul> <li>No missing teeth replaced</li> </ul>	17.9%
•	Adequate replacements for all missing teeth	57.3%

<sup>\*</sup> Percentage includes professional adjustment for self-report

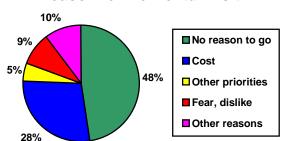
## **Region 1: Western Kentucky**

Percent of adults (weighted) 18 years old and above, as reported by telephone interview

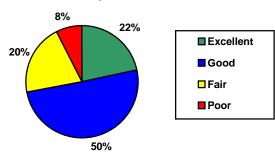


# 12% 10% 14% 64% Less than 1 yr 1 to 2 yrs 2 to 5 yrs More than 5 yrs

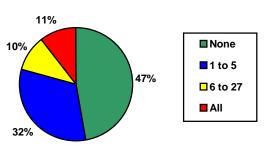
#### **Reason for No Dental Visit**



#### **Self-Reported Oral Health**



#### **Number of Teeth Extracted**



51.2%
26.1%
3.4%
9.1%
19.5%
18.6%
77.6%
18.6%
24.4%
28.7%
8.9%
20.0%
6.6%
70.7%
12.8%
16.5%
65.9%

<sup>\*</sup> Percentage includes professional adjustment for self-report

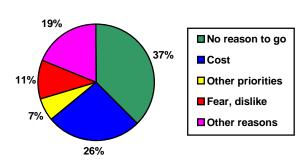
### **Region 2: Central Kentucky**

Percent of adults (weighted) 18 years old and above, as reported by telephone interview

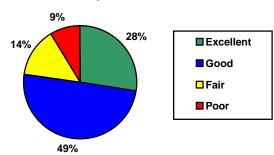
#### **Time Since Last Dental Visit**

# 9% 6% 12% 12% 12 to 2 yrs 2 to 5 yrs More than 5 yrs

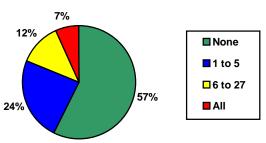
#### **Reason for No Dental Visit**



#### **Self-Reported Oral Health**



#### **Number of Teeth Extracted**



• H	laving no dental insurance	45.6%
• C	Pral pain in last 3 months	21.9%
• D	issatisfaction with ability to speak	2.8%
• D	issatisfaction with ability to chew	9.4%
• D	issatisfaction with appearance of teeth	19.4%
• U	Intreated decay*	18.9%
• A	t least one filling, crown, or bridge	74.3%
• B	leeding gums*	10.6%
• R	ed, swollen, or tender gums*	21.1%
• G	singival recession*	27.5%
• A	t least one loose tooth*	6.5%
• C	alculus on their teeth*	18.2%
• B	ad breath due to teeth or gums	7.7%
• R	eplacements for 6 or more missing teeth	
	<ul> <li>All missing teeth replaced</li> </ul>	72.3%
	<ul> <li>Some missing teeth replaced</li> </ul>	11.2%
	<ul> <li>No missing teeth replaced</li> </ul>	16.6%
• A	dequate replacements for all missing teeth	64.0%

<sup>\*</sup> Percentage includes professional adjustment for self-report

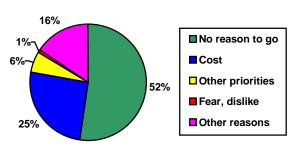
### Region 3: Appalachia

Percent of adults (weighted) 18 years old and above, as reported by telephone interview

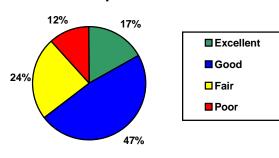
#### **Time Since Last Dental Visit**

## 17% Less than 1 yr 11% 1 to 2 yrs 2 to 5 yrs More than 5 yrs

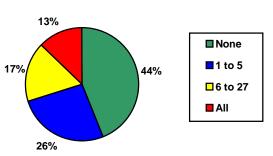
#### **Reason for No Dental Visit**



#### **Self-Reported Oral Health**



#### **Number of Teeth Extracted**



•	Having no dental insurance	58.1%
•	Oral pain in last 3 months	28.5%
•	Dissatisfaction with ability to speak	3.7%
•	Dissatisfaction with ability to chew	15.2%
•	Dissatisfaction with appearance of teeth	25.0%
•	Untreated decay*	31.1%
•	At least one filling, crown, or bridge	61.0%
•	Bleeding gums*	17.9%
•	Red, swollen, or tender gums*	34.9%
•	Gingival recession*	32.2%
•	At least one loose tooth*	9.6%
•	Calculus on their teeth*	22.6%
•	Bad breath due to teeth or gums	15.0%
•	Replacements for 6 or more missing teeth	
	<ul> <li>All missing teeth replaced</li> </ul>	59.5%
	<ul> <li>Some missing teeth replaced</li> </ul>	16.8%
	<ul> <li>No missing teeth replaced</li> </ul>	23.7%
•	Adequate replacements for all missing teeth	49.8%

<sup>\*</sup> Percentage includes professional adjustment for self-report

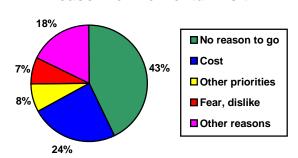
## **Region 4: Louisville Metro**

Percent of adults (weighted) 18 years old and above, as reported by telephone interview

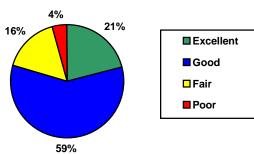


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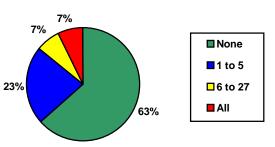
#### **Reason for No Dental Visit**



#### **Self-Reported Oral Health**



#### **Number of Teeth Extracted**



Having no dental insurance	43.0%
Oral pain in last 3 months	23.0%
Dissatisfaction with ability to speak	2.0%
<ul> <li>Dissatisfaction with ability to chew</li> </ul>	8.6%
<ul> <li>Dissatisfaction with appearance of teeth</li> </ul>	8.6%
<ul> <li>Untreated decay*</li> </ul>	15.5%
<ul> <li>At least one filling, crown, or bridge</li> </ul>	74.2%
Bleeding gums*	13.5%
<ul> <li>Red, swollen, or tender gums*</li> </ul>	19.8%
Gingival recession*	27.5%
<ul> <li>At least one loose tooth*</li> </ul>	7.0%
<ul> <li>Calculus on their teeth*</li> </ul>	17.5%
<ul> <li>Bad breath due to teeth or gums</li> </ul>	6.6%
<ul> <li>Replacements for 6 or more missing teeth</li> </ul>	
<ul> <li>All missing teeth replaced</li> </ul>	70.5%
<ul> <li>Some missing teeth replaced</li> </ul>	23.4%
<ul> <li>No missing teeth replaced</li> </ul>	6.2%
<ul> <li>Adequate replacements for all missing teeth</li> </ul>	59.7%

<sup>\*</sup> Percentage includes professional adjustment for self-report

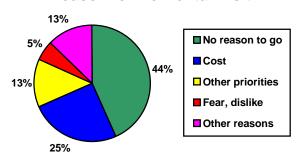
### **Region 5: Northern Kentucky**

Percent of adults (weighted) 18 years old and above, as reported by telephone interview

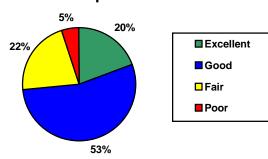
#### **Time Since Last Dental Visit**

## 11% 11% Less than 1 yr 1 to 2 yrs 2 to 5 yrs More than 5 yrs

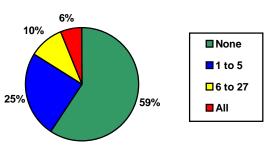
#### **Reason for No Dental Visit**



#### **Self-Reported Oral Health**



#### **Number of Teeth Extracted**



	10.10/
<ul> <li>Having no dental insurance</li> </ul>	43.1%
<ul> <li>Oral pain in last 3 months</li> </ul>	20.8%
<ul> <li>Dissatisfaction with ability to speak</li> </ul>	3.7%
<ul> <li>Dissatisfaction with ability to chew</li> </ul>	8.1%
<ul> <li>Dissatisfaction with appearance of teeth</li> </ul>	21.3%
Untreated decay*	18.7%
<ul> <li>At least one filling, crown, or bridge</li> </ul>	72.7%
Bleeding gums*	13.9%
<ul> <li>Red, swollen, or tender gums*</li> </ul>	21.3%
Gingival recession*	27.5%
<ul> <li>At least one loose tooth*</li> </ul>	6.3%
<ul> <li>Calculus on their teeth*</li> </ul>	21.3%
<ul> <li>Bad breath due to teeth or gums</li> </ul>	4.5%
<ul> <li>Replacements for 6 or more missing teeth</li> </ul>	
<ul> <li>All missing teeth replaced</li> </ul>	60.4%
<ul> <li>Some missing teeth replaced</li> </ul>	23.3%
<ul> <li>No missing teeth replaced</li> </ul>	16.3%
<ul> <li>Adequate replacements for all missing teeth</li> </ul>	54.2%

<sup>\*</sup> Percentage includes professional adjustment for self-report

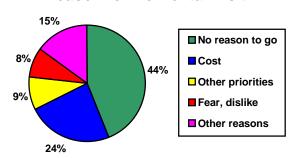
### **Location 1: MSA's in Kentucky**

Percent of adults (weighted) 18 years old and above, as reported by telephone interview

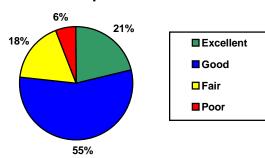


# 11% 9% 13% Less than 1 yr 1 to 2 yrs 2 to 5 yrs More than 5 yrs

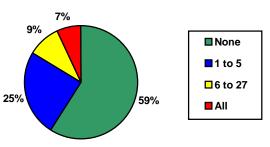
#### **Reason for No Dental Visit**



#### **Self-Reported Oral Health**



#### **Number of Teeth Extracted**



•	Having no dental insurance	44.4%
•	Oral pain in last 3 months	22.1%
•	Dissatisfaction with ability to speak	2.8%
•	Dissatisfaction with ability to chew	7.6%
•	Dissatisfaction with appearance of teeth	17.9%
•	Untreated decay*	16.9%
•	At least one filling, crown, or bridge	74.0%
•	Bleeding gums*	13.7%
•	Red, swollen, or tender gums*	19.8%
•	Gingival recession*	27.1%
•	At least one loose tooth*	6.1%
•	Calculus on their teeth*	18.0%
•	Bad breath due to teeth or gums	6.1%
•	Replacements for 6 or more missing teeth	
	<ul> <li>All missing teeth replaced</li> </ul>	64.8%
	<ul> <li>Some missing teeth replaced</li> </ul>	23.4%
	<ul> <li>No missing teeth replaced</li> </ul>	11.8%
•	Adequate replacements for all missing teeth	57.8%

<sup>\*</sup> Percentage includes professional adjustment for self-report

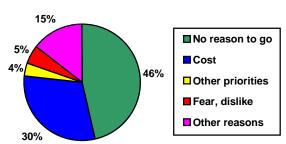
### **Location 2: Small Towns in Kentucky**

Percent of adults (weighted) 18 years old and above, as reported by telephone interview

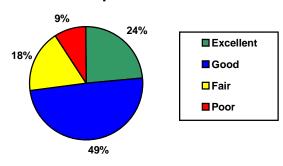
#### **Time Since Last Dental Visit**

## 12% Less than 1 yr 1 to 2 yrs 2 to 5 yrs More than 5 yrs

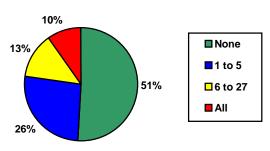
#### **Reason for No Dental Visit**



#### **Self-Reported Oral Health**



#### **Number of Teeth Extracted**



•	Having no dental insurance	50.0%
•	Oral pain in last 3 months	25.7%
•	Dissatisfaction with ability to speak	3.6%
•	Dissatisfaction with ability to chew	13.6%
•	Dissatisfaction with appearance of teeth	20.8%
•	Untreated decay*	21.9%
•	At least one filling, crown, or bridge	69.4%
•	Bleeding gums*	15.0%
•	Red, swollen, or tender gums*	27.8%
•	Gingival recession*	29.2%
•	At least one loose tooth*	9.3%
•	Calculus on their teeth*	19.0%
•	Bad breath due to teeth or gums	9.0%
•	Replacements for 6 or more missing teeth	
	<ul> <li>All missing teeth replaced</li> </ul>	66.4%
	<ul> <li>Some missing teeth replaced</li> </ul>	14.4%
	<ul> <li>No missing teeth replaced</li> </ul>	19.2%
•	Adequate replacements for all missing teeth	58.8%

<sup>\*</sup> Percentage includes professional adjustment for self-report

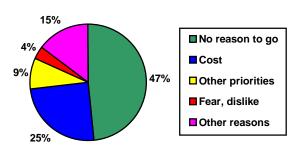
### **Location 3: Rural Areas in Kentucky**

Percent of adults (weighted) 18 years old and above, as reported by telephone interview

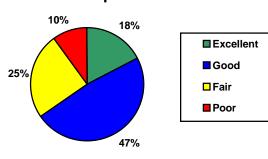
#### **Time Since Last Dental Visit**

## 14% Less than 1 yr 11% 1 to 2 yrs 2 to 5 yrs More than 5 yrs

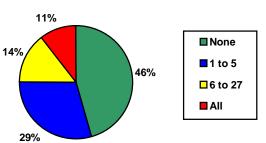
#### **Reason for No Dental Visit**



#### **Self-Reported Oral Health**



#### **Number of Teeth Extracted**

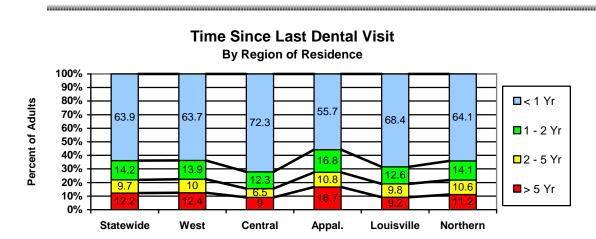


<ul> <li>Having no dental insurance</li> </ul>	57.5%
<ul> <li>Oral pain in last 3 months</li> </ul>	30.4%
<ul> <li>Dissatisfaction with ability to speak</li> </ul>	3.2%
<ul> <li>Dissatisfaction with ability to chew</li> </ul>	13.1%
<ul> <li>Dissatisfaction with appearance of teeth</li> </ul>	25.4%
<ul> <li>Untreated decay*</li> </ul>	29.7%
<ul> <li>At least one filling, crown, or bridge</li> </ul>	70.5%
Bleeding gums*	19.8%
<ul> <li>Red, swollen, or tender gums*</li> </ul>	34.9%
Gingival recession*	32.6%
<ul> <li>At least one loose tooth*</li> </ul>	9.8%
<ul> <li>Calculus on their teeth*</li> </ul>	25.0%
<ul> <li>Bad breath due to teeth or gums</li> </ul>	12.2%
<ul> <li>Replacements for 6 or more missing teeth</li> </ul>	
<ul> <li>All missing teeth replaced</li> </ul>	67.4%
<ul> <li>Some missing teeth replaced</li> </ul>	9.3%
<ul> <li>No missing teeth replaced</li> </ul>	23.3%
<ul> <li>Adequate replacements for all missing teeth</li> </ul>	56.8%

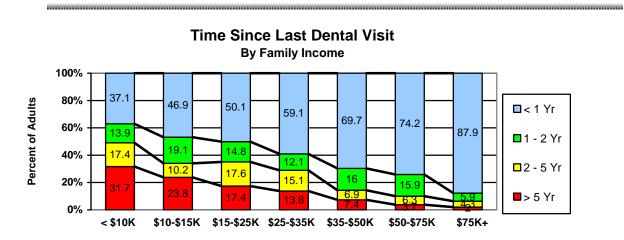
<sup>\*</sup> Percentage includes professional adjustment for self-report

## COMPARISONS OF SELECTED FINDINGS

#### Comparison of Selected Findings: Time Since Last Dental Visit



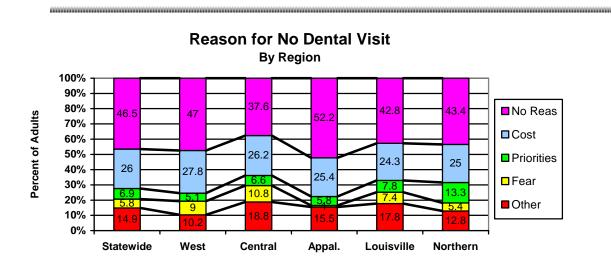
Residents of Appalachia have the lowest rate of utilization of dental services within the last year. Those in the Central Kentucky region have the highest.



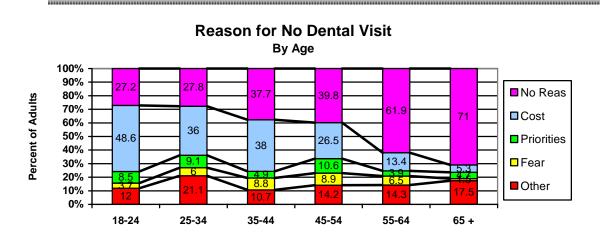
There are large disparities in time since last dental visit based on family income. Wealthy Kentuckians visit the dentist much more often than poorer Kentuckians.

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#### Comparison of Selected Findings: Reason for No Dental Visit

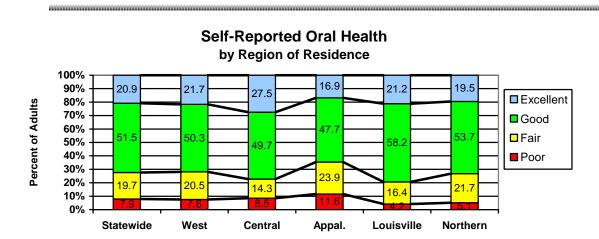


Of the Kentuckians who did not visit a dentist last year, over  $\frac{1}{4}$  cited cost as the primary reason for not going. Almost  $\frac{1}{2}$  simply saw no reason to seek dental care.

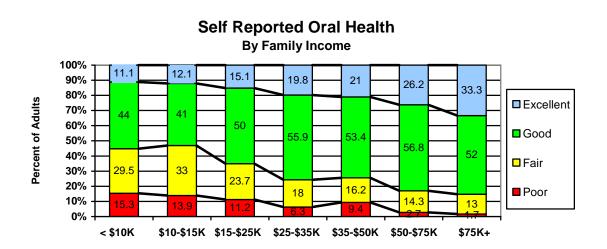


Cost of services was an especially important reason for not visiting a dentist among younger adult Kentuckians.

#### Comparison of Selected Findings: Self-Reported Oral Health



Residents of Appalachia have the largest self-reported "Fair" and "Poor" oral health. Those in the Central Kentucky and Louisville metro regions have the smallest.

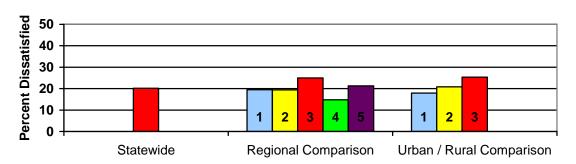


There are large disparities in self-reported oral health based on family income. Wealthy Kentuckians perceive themselves to be healthier than do poorer Kentuckians.

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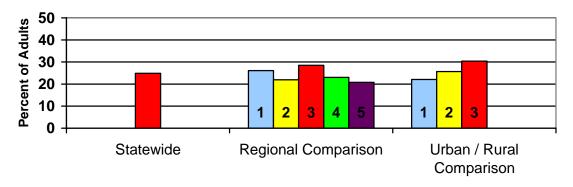
#### Comparison of Selected Findings: Satisfaction with Dental Outcomes

## Adults Dissatisfied with Appearance of Teeth by Region and Location



Statewide, over 20% of adult Kentuckians are dissatisfied with the appearance of their teeth or dentures. This is highest in the rural areas of the state, especially in the Appalachian region.

## Adults Reporting Oral Pain in Past 3 Months by Region and Location

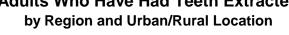


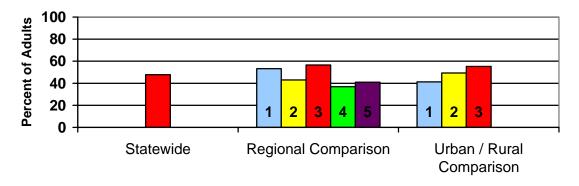
Statewide, over 26% of adult Kentuckians report having had oral pain in the past three months. This is highest in the rural areas of the state, especially in the Appalachian and Western regions.

Regions 1 = Western Ky 2 = Central KY 3 = Appalachia 4 = Louisville Metro 5 = Northern KY	Locations 1 = MSA's 2 = Small Cities 3 = Rural Areas
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#### Comparison of Selected Findings: Teeth Extracted

### Adults Who Have Had Teeth Extracted

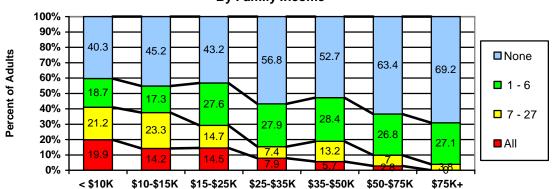




Statewide, nearly 50% of adult Kentuckians report having had teeth extracted, due to caries or gum problems. This is highest in the rural areas of the state, especially in the Appalachian and Western regions.

Regions 1 = Western Ky 2 = Central KY 3 = Appalachia 4 = Louisville Metro 5 = Northern KY	Locations 1 = MSA's 2 = Small Cities 3 = Rural Areas
5 = Northern KY	

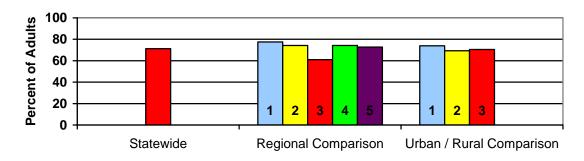
## Number of Teeth Extracted By Family Income



There are large disparities in the number of teeth extracted based on family income. Poorer Kentuckians have had more teeth extracted than wealthy Kentuckians.

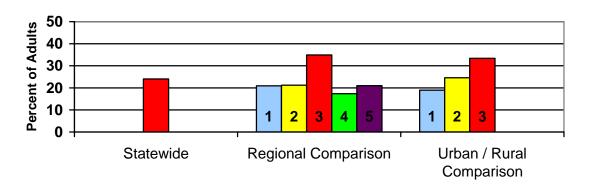
#### Comparison of Selected Findings: Caries Experience

## Adults with Restorations by Region and Location



Statewide, nearly 70% of adult Kentuckians report having had restorations to treat dental caries. The percentage reporting the presence of restorations was noticeably lower in Appalachia than in the other regions of the state.

## Adults Who Report Caries by Region and Location

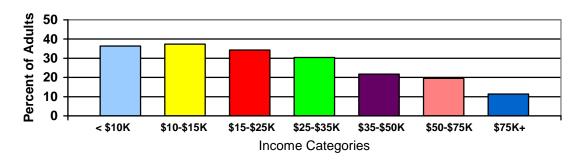


Statewide, nearly 25% of adult Kentuckians report having dental caries. This is highest in the rural areas of the state, especially in the Appalachian region.

Regions 1 = Western Ky 2 = Central KY 3 = Appalachia 4 = Louisville Metro	Locations 1 = MSA's 2 = Small Cities 3 = Rural Areas
5 = Northern KY	

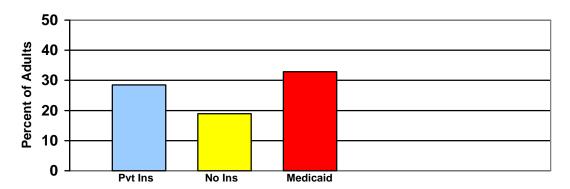
#### Comparison of Selected Findings: Caries Factors

## Adults Who Report Caries by Family Income



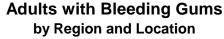
There are large variations in the rate of caries among adult Kentuckians, based on family income. Poorer Kentuckians are much more likely to report having current, active decay than are wealthier Kentuckians.

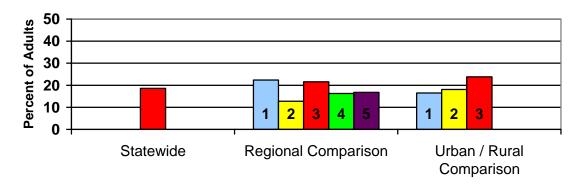
## Adults Who Report Caries by Insurance Status



There are large disparities in caries rates based on dental insurance status. Medicaid recipients have much higher rates than those without insurance or those with private dental insurance.

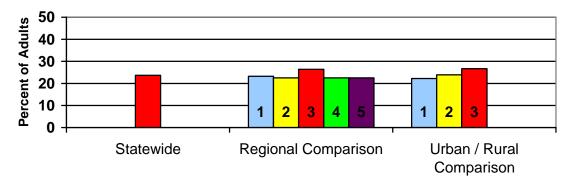
#### Comparison of Selected Findings: Periodontal Indicators





Statewide, nearly 19% of adult Kentuckians report having bleeding gums, one of the most important indicators of periodontal disease. This is highest in the rural areas of the state, especially in the Appalachian and Western regions.

## Adults with Gums Pulling Away fromTeeth by Region and Location



Statewide, nearly 25% of adult Kentuckians report gingival recession ("gums pulling away from their teeth"), one of the important indicators of periodontal disease. This is highest in the rural areas of the state, especially in the Appalachian region.

RegionsLocations1 = Western Ky1 = MSA's2 = Central KY2 = Small Cities3 = Appalachia3 = Rural Areas4 = Louisville Metro5 = Northern KY
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