



The Child Dental Health Survey Queensland 1995

by

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This report is the Queensland component of the Child Dental Health Survey, a project in which all Australian States and Territories are participating.

> The AIHW Dental Statistics and Research Unit (DSRU) is an external unit of the Australian Institute of Health and Welfare, and was established in 1988 at The University of Adelaide. The DSRU was funded to improve the range and quality of dental statistics and research on the dental workforce, dental health status, dental practices and use of dental services.

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THE CHILD DENTAL HEALTH SURVEY - QUEENSLAND 1995

Background to the Child Dental Health Survey

The Survey, originally established in 1977 by the (then) Commonwealth Department of Health, is intended to provide time-series data for the purpose of monitoring the dental health status of primary school children. The establishment of the Survey coincided with the development of the Australian School Dental Scheme (ASDS), a government-funded program providing dental care for school children. Implicit within the original goals of the Child Dental Health Survey was the collection of routine data from among all patients of the ASDS which was administered through each of the State and Territory health authorities. There was no attempt to obtain information about those children not-enrolled in the ASDS. From the inception of the Survey, data were collected by School Dental Service staff and processed by the Commonwealth Department of Health in Canberra.

The Survey has been maintained annually since 1977. Following some changes to the Survey procedures by individual State and Territory health authorities (principally in the methods of sampling, but also including some alterations to data items), a redesigned Survey was developed in 1988. At that time, responsibility for the management and processing of the Survey was passed to Dental Statistics and Research Unit (DSRU), an external unit of the (then) Australian Institute of Health. In the process of transferring responsibility for the Survey, State and Territory health authorities were encouraged to adopt some limited changes to the types of data collected, and to move towards sampling of a proportion of children. Those changes were adopted uniformly by the end of 1991.

Scope and aims of the Survey

The redesigned Child Dental Health Survey provides dental health data concerning the population of persons enrolled in School Dental Services throughout the States and Territories. There are four aims of the Survey.

- 1) To maintain the national time-series of statistics providing annual estimates of children's dental health status in Australian States and Territories.
- 2) To examine temporal changes in caries experience among Australian children.
- 3) To examine the distribution of dental health status by geographic location and demographic factors.
- 4) To identify high risk groups according to geographic location and demographic status.

Survey methods

Data for the Child Dental Health Survey were collected during the 1995 calendar year from a sample of patients of the Queensland School Dental Service by dental therapists and dentists. They transcribed data items from routine clinical records onto Optical Mark Reader data sheets which were processed and edited.

Processing and editing of all data forms was performed by the AIHW Dental Statistics and Research Unit. Unit record data were forwarded to the DSRU in Adelaide for processing and analysis. Analyses were undertaken to compute summary statistics describing caries experience, frequency of fissure sealants, immediate treatment needs and children's history of School Dental Service examinations among age groups.

Source of subjects and sampling

Children throughout Queensland were designed to be sampled at a ratio of 1:5 by selecting those whose date of birth fell on the first six days of any month. All children with an unknown date of birth also were sampled. Sampling occurred at the time of routine clinical examinations which occurred prior to the commencement of any course of care.

Data items

Core data items for the established Child Dental Health Survey were collected in a uniform manner throughout Queensland during the first six months of the year. Demographic and service provision data items included the child's age, sex and the date of the current and previous examination. Provision was made for recording country of birth and Aboriginality of each child and mother, although the items were not recorded in Queensland during 1995.

Dental health status data items included a count of the number of teeth which were decayed, missing (because of dental caries) or filled (because of dental caries). Separate counts were made of deciduous and permanent teeth. A count of the number of permanent teeth with fissure sealants (and which were not decayed or filled) also was made. An additional data item was marked to indicate if the child had a need for immediate treatment, defined as the presence of oral pain or infection, or the likely occurrence of oral pain of infection within four weeks. This would include children requiring treatment for existing pain, dental abscesses, grossly decayed teeth with pulp exposure, avulsed or fractured teeth, or life threatening conditions. All indices follow recommendations made by World Health Organization (1987) and by Palmer *et al* (1984) concerning epidemiological recording of dental conditions.

A survey guide was issued to all clinics explaining the conventions for data recording. However, there were no formal procedures for training or calibration in the clinical procedures for detection of caries experience. Instead, clinical staff used their own clinical judgement when making decisions about the presence or absence of decayed, missing, filled or fissure sealed teeth.

Analyses

Data were analyzed to provide age-specific means and percentages for each dental health index and for periodicity of examinations. Standard deviations were computed for all means. The level of statistical precision for all age-specific estimates was assessed by computing the relative standard error (that is, standard error of the estimate divided by the estimate, and expressed as a percentage). When the relative standard error exceeded 40 per cent, the statistics for that estimate were not printed. This convention follows those used by other authorities, such as the Australian Bureau of Statistics.

A further aspect of the analysis was the weighting of unit records to reflect the sampling procedure. This was necessary because children were sampled using different probabilities of selection. The probability was 1.0 (ie selected by full enumeration) for children with an unknown date of birth throughout the state, and for children in Townsville between July and December. Elsewhere the probability was 0.2 (*ie* equivalent to the ratio of 1:5). Hence, the weighting process considered the number of children sampled (n_i) and the number of children in the population (N_i = n_i /[sampling probability]) for each of two sampling strata. Two stratum specific weights, w_i , which could be applied to unit record data were computed to avoid inflating the sample size. The following formula was used:

$$w_i = \frac{N_i / n_i}{\sum N_i / \sum n_i}$$

Application of those figures to the formula above yields a unit record weight, w_1 of 1.108 (rounded) for children sampled at the ratio of 1:5 and 0.222 (rounded) for the other children. Those unit record weights were applied to all statistics computed for Tables 2 to 7. Table 8 deals with a different number of sampled children (since it refers to total number of examinations rather than total number of children examined), and hence slightly different weights were computed using the same formula.

Purpose of this report

This report is part of the annual series providing descriptive statistics concerning child dental health in Queensland. The report contains tables and figures. Information listed in the tables includes: the age and sex of children in the sample, their deciduous and permanent caries experience, frequency of fissure sealants, immediate treatment needs and children's history of school dental service examinations. The figures combine and summarize information from four of the tables.

The following sections briefly describe each table and provide a simple, summary statement highlighting differences between the 1995 and 1994 findings. However, no formal hypothesis tests have been undertaken, and descriptions of differences between years are intended as a guide to the reader, rather than a formal evaluation of trends.

Supplementary tables requested by the Queensland Department of Health also have been prepared. They contain region-specific caries experience data for both deciduous and permanent teeth along with further detail of the components of deciduous and permanent caries experience.

Table 1: Demographic composition of the sample

A total number of 5,114 children were sampled during 1995. The majority of children in the complete sample were aged between five and 13 years inclusive. There were very small numbers of children aged less than four or greater than 13 years. Females were represented in slightly smaller percentages (49.1 per cent across all ages) than males.

This distribution reflects the age range of primary school children who are the principal target group of the Queensland School Dental Service. However, there are some individual

ages (18 years or more) where it would appear that age has been recorded in error. The small numbers of children aged three or less and 14 years or more results in less reliability of computed statistics for those ages. Furthermore, children in those ages are outside the main target group of the School Dental Service, and it is likely that they have some special characteristics which make them less representative of their respective age groups within the Queensland population.

Changes since 1994

The total number of children sampled in 1995 was 4,449 cases fewer than for 1994.

In other respects, the percentage age and sex distribution did not change substantially in 1995.

Table 2: Country of birth (including Aboriginality)

These data were not collected in 1995.

Changes since 1994

There were minor changes in the percentages of children and mothers born overseas, which is possibly due to sampling variation across years and attrition of the cohort for whom this information was recorded in 1991/92.

Table 3: Deciduous teeth: age-specific caries experience

The mean number of decayed teeth among children aged five to 10 years declined quite consistently with increasing age. In contrast, mean dmft increased from 1.84 among five year-olds to 2.68 among nine year-olds. Among older children, mean dmft declines, consistent with exfoliation of teeth. As a consequence of these two trends, the d/dmft ratio exceeds 70 per cent among children aged five years or less, and declines to a low of 23 per cent among those aged ten years or more.

The percentage of children with no caries experience (dmft=0) tends to mirror mean dmft by reducing to a low of 36 per cent among nine year-olds. It is noteworthy that under 52 per cent of children are free of deciduous caries experience at any individual age in the range of six to ten years.

Together these distributions suggest that younger children, probably presenting for the first time to the School Dental Service, have considerable untreated decay, and that this is managed in later years to achieve a relatively low frequency of untreated decay.

Changes since 1994

Changes in mean number of decayed or dmf teeth between 1994 and 1995 were small. The percentage of caries-free children has increased slightly so that over 50 per cent of six year-old children and younger have a dmft score of zero.

Table 4: Permanent teeth: age-specific prevalence

The mean numbers of decayed permanent teeth and DMFT were smaller than the corresponding means for deciduous teeth across the range of five to 10 years. In addition, the mean number of decayed and DMF teeth increased in a fairly consistent manner across increasing age groups within that range. As a consequence, the percentage of DMFT present as untreated decay (D/DMFT) and the percentage of children caries free in the permanent dentition (DMFT=0) declined substantially across age groups. It is noteworthy that more than 49 per cent of children aged 12 years or less were caries free (DMFT=0).

Among those aged 12 to 14 years, the age-associated increase in mean DMFT was greater than the pattern observed for the younger half of the age range. This pattern suggests either that new caries progression accelerates after the age of 12, or that these older children represent a cohort with a higher historical caries experience. However interpretation of this trend requires caution due to the smaller numbers of children involved. In particular, the estimates for those aged 15 appear to be inconsistent compared with other ages. The mean DMFT score for 12 year-old children was 1.37.

Changes since 1994

There were small changes in DMFT scores across age groups from 1994 to 1995 for children aged 11. Percentages with DMFT=0 were slightly higher for most ages.

Table 5: All teeth: age-specific prevalence

Untreated decay in the combined deciduous and permanent dentitions (d+D=1, 2, 3 or 4+) existed for between 25 and 41 per cent of children in the age range five to 12 years. The greatest likelihood of untreated decay occurred for nine year-olds where 41 per cent had d+D of one or more. The most extensive levels of untreated decay (d+D=4 or more) occurred in children aged seven years or less.

While more than 97 per cent of children aged 5 to 12 years had no deciduous or permanent teeth missing due to caries, smaller percentages avoided fillings, and this was associated with age. There was a reasonably consistent decline in the percentage of children with no caries experience in either deciduous or permanent dentition (dmft+DMFT=0), from 53.7 per cent at age five to 29.9 per cent at age ten. The percentage fluctuated around 30-40 per cent among most older ages, reflecting the pattern of exfoliation of deciduous teeth. This statistic serves to demonstrate that more than one third of children at any of the key primary school ages have no experience of dental caries.

Changes since 1994

There were no substantial changes in these statistics between 1994 and 1995 for children in the key age groups of five to 12 years.

Table 6: Fissure sealants: age-specific prevalence

Fissure sealants occurred at quite a consistent frequency among children aged seven to 12 years where the mean number of teeth with sealants ranged from 0.37 to 0.39. These means were comparable to the mean number of permanent teeth with untreated decay (mean D) in that age range. Children with some caries experience (DMFT=1+) were more likely to have fissure sealants than those with no caries experience (DMFT=0).

Changes since 1994

The mean number of fissure sealants was higher in 1995 compared to 1994, which may reflect changes in sampling as well as changes in sealing rates. Children with DMFT=1+ have substantially more sealants than those children with DMFT=0. This is consistent with targeting of sealants to children with disease in older ages.

Table 7: Immediate treatment needs

Immediate treatment needs were observed in fewer than nine per cent of children in ages 5-12 years. However, those children clearly had a higher mean dmft, mean DMFT and percentage with four or more decayed teeth in comparison with the overall sample. Those patterns of caries experience support the view that caries constitutes a substantial burden of disease for this small minority of children, and that it presumably contributes to immediate needs for treatment of pain or infection. The highest prevalence rate of immediate treatment needs (10.8 per cent among four year-olds) was observed in the youngest ages and would be consistent with more extensive deciduous caries experience and patterns of utilization (each discussed above) of younger children.

Changes since 1994

The percentage of children with immediate treatment needs increased since 1994. Again, this change may be due to the relatively small and selective sample for 1995.

Table 8: School Dental Service examinations

Table 8 refers to the total number of examinations conducted during 1995. Since individuals may have received more than one examination during the year, the number of children in the sample for this table is greater than the numbers present in preceding tables, where subsequent examinations of children in the year were excluded. The percentage of children with no previous examination in the School Dental Service was greatest among four year-olds, and reduced to 5 per cent or less for children aged more than seven. Those percentages were mirrored approximately by the percentage with a previous examination, although relatively greater percentages of younger children had an unknown previous examination status.

Among children with a previous examination, more than one half within most ages had received examinations within a 13-24 month period. That time interval was the most frequent of the four intervals contained in the table for each of the ages. A re-examination interval of 7-12 months occurred for most of the remaining children, and was more likely for

younger rather than older children within the range five to 12 years. Very few children were re-examined after a period of two or more years.

Changes since 1994

There were no substantial changes in the pattern of care across years.

Figure 1: Percentage of children with dmft=0, DMFT=0 and d+D=4+

This figure presents data contained in Tables 3, 4 and 5 to summarize the extent of dental health (represented by percentage with no caries experience) and the extent of more extensive untreated decay (represented by the percentage with d+D=4 or more).

Figure 2: Time since last dental examination

This figure draws on information from Table 8, and selects six- and 12-year-olds to demonstrate the variation in time since last examination.

References

Palmer JD, Anderson RJ, Downer MC. (1984) Guidelines for prevalence studies of dental caries. *Community Dental Health* 1:55-66.

World Health Organization. (1987) Oral Health Surveys. Basic Methods. 3rd Edition. WHO; Geneva.

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TABLE 1: NUMBER IN SAMPLE AND ESTIMATED RESIDENT POPULATION

Data for the Child Dental Health Survey are collected from a stratified random sample of children in all Australian States and Territories. The sampling procedure selects a constant proportion of children for whom date of birth is known by selecting only those children born on particular dates. Within Queensland, the sampling ratio for children whose date of birth is known is 1:5, except in Townsville where complete enumeration was used.

State/Territory: Queensland

Sampling ratio

Townsville: 1:1

Other Queensland: 1:5

Data for period January-December 1995

| | N | | OF REC | NUMBER OF CHILDREN IN SAMPLE ¹ | | | | | |
|---------|-----------------------|-----------|--------|--|---------|---------|----------------------|------|------|
| Age | Know | n date of | | | only kn | own | | | |
| (years) | Males Females Persons | | | | Females | Persons | Males Females Persor | | |
| 3 | 0 | 0 | 0 | 1 | 0 | 1 | 0 | 0 | 0 |
| 4 | 82 | 85 | 167 | 1 | 0 | 1 | 82 | 85 | 167 |
| 5 | 290 | 245 | 535 | 0 | 0 | 0 | 290 | 245 | 536 |
| 6 | 302 | 320 | 622 | 2 | 0 | 2 | 303 | 320 | 623 |
| 7 | 265 | 276 | 541 | 0 | 0 | 0 | 265 | 276 | 542 |
| 8 | 298 | 286 | 584 | 0 | 0 | 0 | 298 | 286 | 585 |
| 9 | 289 | 297 | 586 | 1 | 0 | 1 | 290 | 297 | 587 |
| 10 | 316 | 314 | 630 | 0 | 0 | 0 | 316 | 314 | 631 |
| 11 | 311 | 264 | 575 | 0 | 0 | 0 | 311 | 264 | 576 |
| 12 | 217 | 208 | 425 | 0 | 0 | 0 | 217 | 208 | 425 |
| 13 | 151 | 142 | 293 | 0 | 1 | 1 | 151 | 142 | 294 |
| 14 | 71 | 68 | 139 | 0 | 0 | 0 | 71 | 68 | 139 |
| 15 | 4 | 4 | 8 | 0 | 0 | 0 | 4 | 4 | 8 |
| 16 | 0 | 1 | 1 | 0 | 0 | 0 | 0 | 1 | 1 |
| 17 | 1 | 0 | 1 | 0 | 0 | 0 | 1 | 0 | 1 |
| Total | 2597 | 2510 | 5107 | 5 | 1 | 6 | 2601 | 2513 | 5114 |

¹ The number of children included in the sample equals the number of records sampled where date of birth is known plus the product of the number of records of children with unknown birthdate and sampling ratio. Second and subsequent examinations of children within the reporting period are eliminated. These are rounded numbers of children.

TABLE 2: COUNTRY OF BIRTH (INCLUDING ABORIGINALITY)

These data were not collected in 1995.

TABLE 3: DECIDUOUS TEETH: AGE-SPECIFIC CARIES EXPERIENCE

This table uses State-wide data to describe the dmft¹ index and its components for individual (year of birth) ages. Indices are calculated from data collected over a 12 month period. Where children received more than one examination during this period, the information derived from examinations other than the first is excluded. Age-specific indices denoted with an asterisk (*) are those in which the relative standard error exceeds 40 per cent, and population estimates of these indices are statistically unreliable.

State/Territory: Queensland

Sampling ratio

Townsville: 1:1

Other Queensland: 1:5

Data for period January-December 1995

| Age | Number of Age children in | | yed | dn | d/dmf | Children with dmf=0 | |
|---------|---------------------------|------|------|------|-------|---------------------|------|
| (years) | sample ² | mean | sd | mean | sd | % | % |
| 4 | 167 | 1.39 | 2.64 | 1.70 | 3.02 | 86.0 | 63.5 |
| 5 | 532 | 1.25 | 2.32 | 1.84 | 2.94 | 72.6 | 53.9 |
| 6 | 621 | 0.91 | 1.79 | 1.99 | 2.90 | 50.0 | 51.8 |
| 7 | 533 | 0.62 | 1.44 | 2.19 | 3.05 | 30.2 | 51.1 |
| 8 | 576 | 0.57 | 1.30 | 2.52 | 3.12 | 24.3 | 40.5 |
| 9 | 580 | 0.63 | 1.14 | 2.68 | 2.83 | 26.5 | 36.3 |
| 10 | 629 | 0.47 | 1.06 | 2.26 | 2.73 | 23.2 | 40.9 |

¹ Legend

d - decayed deciduous teeth

dmf - decayed, missing or filled deciduous teeth

sd - standard deviation

² Data are weighted to reflect the sampling scheme by correcting for the over-representation in the sample of children with an unknown date of birth. Data relating to second or subsequent examinations of children within this reporting period are eliminated.

TABLE 4: PERMANENT TEETH: AGE-SPECIFIC CARIES EXPERIENCE

This table uses State-wide data to describe the DMFT¹ index and its components for individual (year of birth) ages. Indices are calculated from data collected over a 12 month period. Where children received more than one examination during this period, the information derived from examinations other than the first is excluded. Age-specific indices denoted with an asterisk (*) are those in which the relative standard error exceeds 40 per cent, and population estimates of these indices are statistically unreliable.

State/Territory: Queensland

Sampling ratio

Townsville: 1:1

Other Queensland: 1:5

Data for period January-December 1995

| | Number of | | | | C | Children wit | h |
|---------|---------------------|------|------|------|------|--------------|-------|
| Age | children in | DECA | YED | DN | ΛF | D/DMF | DMF=0 |
| (years) | sample ² | mean | sd | mean | sd | % | % |
| 5 | 532 | * | * | * | * | 83.3 | 98.9 |
| 6 | 621 | 0.07 | 0.37 | 0.09 | 0.43 | 82.8 | 95.0 |
| 7 | 533 | 0.12 | 0.46 | 0.17 | 0.58 | 66.8 | 89.1 |
| 8 | 576 | 0.18 | 0.58 | 0.36 | 0.86 | 51.8 | 79.1 |
| 9 | 580 | 0.19 | 0.54 | 0.54 | 0.98 | 39.1 | 70.1 |
| 10 | 629 | 0.23 | 0.65 | 0.79 | 1.34 | 31.0 | 63.0 |
| 11 | 576 | 0.32 | 0.82 | 1.01 | 1.62 | 30.1 | 59.7 |
| 12 | 421 | 0.42 | 1.27 | 1.37 | 2.05 | 27.5 | 49.9 |
| 13 | 294 | 0.60 | 1.38 | 1.83 | 2.41 | 29.2 | 43.7 |
| 14 | 139 | 0.51 | 0.98 | 2.19 | 2.37 | 25.7 | 33.8 |
| 15 | 8 | * | * | * | * | * | 50.0 |

¹ Legend

D - decayed permanent teeth

DMF - decayed, missing or filled permanent teeth

sd - standard deviation

Data are weighted to reflect the sampling scheme by correcting for the over-representation in the sample of children with an unknown date of birth. Data relating to second or subsequent examinations of children within this reporting period are eliminated.

TABLE 5: ALL TEETH: AGE-SPECIFIC CARIES EXPERIENCE1

This table uses State-wide data to describe the combined dmft and DMFT indices and their components for individual (year of birth) ages. Indices are calculated from data collected over a 12 month period. Where children received more than one examination during this period, the information derived from examinations other than the first is excluded. Age-specific indices denoted with an asterisk (*) are those in which the relative standard error exceeds 40 per cent, and population estimates of these indices are statistically unreliable.

State/Territory: Queensland

Sampling ratio

Townsville: 1:1

Other Queensland: 1:5

Data for period January-December 1995

| Age | Number of children | % | of chil | dren w | ith d+ | % of | % of children with | | | |
|---------|--------------------|------|---------|--------|--------|------|--------------------|-------|-----------|--|
| (years) | in sample² | 0 | 1 | 2 | 3 | ≥4 | m+M=0 | f+F=0 | dmf+DMF=0 | |
| 4 | 167 | 65.9 | 6.6 | 8.4 | 3.0 | 16.1 | 97.6 | 92.2 | 63.5 | |
| 5 | 530 | 60.9 | 12.3 | 10.0 | 4.3 | 12.5 | 98.1 | 83.0 | 53.7 | |
| 6 | 615 | 63.2 | 13.5 | 10.6 | 4.4 | 8.3 | 98.2 | 68.4 | 51.1 | |
| 7 | 530 | 70.7 | 12.3 | 6.4 | 5.1 | 5.5 | 97.2 | 59.9 | 49.0 | |
| 8 | 576 | 64.9 | 17.6 | 9.2 | 2.8 | 5.6 | 98.1 | 44.3 | 35.5 | |
| 9 | 578 | 59.1 | 22.0 | 8.3 | 5.2 | 5.4 | 97.2 | 40.9 | 30.9 | |
| 10 | 622 | 65.4 | 17.5 | 8.0 | 4.5 | 4.5 | 97.2 | 37.8 | 29.9 | |
| 11 | 570 | 71.5 | 13.0 | 9.0 | 3.3 | 3.2 | 98.8 | 46.2 | 39.7 | |
| 12 | 417 | 75.1 | 13.7 | 6.7 | 1.7 | 2.9 | 98.8 | 48.9 | 41.7 | |
| 13 | 293 | 72.2 | 14.0 | 5.8 | 2.1 | 5.9 | 96.9 | 49.3 | 40.0 | |
| 14 | 138 | 67.4 | 19.6 | 6.5 | * | 3.6 | 97.8 | 40.6 | 31.2 | |
| 15 | 8 | 62.5 | * | * | 0.0 | 0.0 | 87.5 | 62.5 | 50.0 | |

¹ Legend

d - decayed deciduous teeth

D - decayed permanent teeth

m - deciduous teeth missing due to caries

M - permanent teeth missing due to caries

f - deciduous teeth restored due to caries

F - permanent teeth restored due to caries

dmf - decayed, missing or filled deciduous teeth

DMF - decayed, missing or filled permanent teeth

Data are weighted to reflect the sampling scheme by correcting for the over-representation in the sample of children with an unknown date of birth. Data relating to second or subsequent examinations of children within this reporting period are eliminated.

TABLE 6: FISSURE SEALANTS: AGE-SPECIFIC CARIES EXPERIENCE¹

This table uses State-wide data to describe the distribution of fissure sealants for individual (year of birth) ages, along with the caries experience of those who have fissure sealants and those who do not. Indices are calculated from data collected over a 12 month period. Where children received more than one examination during this period, the information derived from examinations other than the first is excluded. Age-specific indices denoted with an asterisk (*) are those in which the relative standard error exceeds 40 per cent, and population estimates of these indices are statistically unreliable.

State/Territory: Queensland

Sampling ratio

Townsville: 1:1

Other Queensland: 1:5

Date of report: 29th November 1996

Data for period January-December 1995

| | Number of Number of | | | EN WITH | CHILDREN WITH DMF=1+ | | |
|---------|---------------------|------|------|---------|-------------------------|--------|--------|
| Age | children in | seal | ants | | % with | | % with |
| (years) | sample | mean | sd | number | F/S=1+ | number | F/S=1+ |
| 6 | 616 | 0.06 | 0.38 | 588 | 2.6 | 28 | 10.7 |
| 7 | 530 | 0.37 | 1.01 | 473 | 13.3 | 57 | 21.1 |
| 8 | 573 | 0.70 | 1.33 | 454 | 26.5 | 119 | 24.4 |
| 9 | 576 | 0.67 | 1.28 | 406 | 24.2 | 170 | 27.1 |
| 10 | 624 | 0.51 | 1.16 | 394 | 19.8 | 229 | 22.7 |
| 11 | 569 | 0.50 | 1.25 | 341 | 17.3 | 227 | 26.0 |
| 12 | 418 | 0.39 | 0.95 | 210 | 14.8 | 208 | 21.6 |
| 13 | 292 | 0.42 | 1.14 | 128 | 14.1 | 163 | 20.8 |
| 14 | 137 | 0.52 | 1.28 | 46 | 15.2 | 91 | 22.0 |
| 15 | 6 | * | * | 4 | 0.0 | 2 | 100.0 |

[!] Legend

DMF - decayed, missing or filled permanent teeth

F/S - fissure sealed teeth

TABLE 7: IMMEDIATE TREATMENT NEEDS AGE-SPECIFIC DISTRIBUTION¹

This table, based on State-wide data, describes the number and proportion of children in immediate need of dental treatment. This classification is accorded to children who have, or who are likely to develop within four weeks, oral pain or infection. The dental caries experience of this group of children is also described. Indices are calculated from data collected over a 12 month period. Where children received more than one examination during this period, the information derived from examinations other than the first is excluded. Age-specific indices denoted with an asterisk (*) are those in which the relative standard error exceeds 40 per cent, and population estimates of these indices are statistically unreliable.

State/Territory: Queensland

Sampling ratio

Townsville: 1:1

Other Queensland: 1:5

Date of report: 29th November 1996

Data for period January-December 1995

CHILDREN IN NEED OF IMMEDIATE TREATMENT Number of % of all % with d+D=children dmf **DMF** 0 1 2 3 (years) in sample No. children 4+ mean sd mean sd 0.0 22.2 4 167 10.8 1.83 2.79 61.1 18 5 48.9 532 45 8.5 3.24 31.1 4.65 11.1 * * 7.8 2.50 2.71 45.8 25.0 10.4 14.6 6 621 48 7 0.22 0.56 68.9 13.3 533 45 8.6 2.42 3.48 8 576 49 8.6 3.96 4.43 0.69 1.10 49.0 22.4 14.3 12.2 9 45.7 23.9 3.20 3.22 0.80 1.00 15.2 10.9 580 46 8.1 1.10 56.8 22.7 13.6 0.0 10 629 44 7.0 2.45 2.79 0.61 1.21 2.04 61.8 14.7 14.7 11 576 34 6.0 1.85 3.31 2.34 22.6 12 421 30 7.5 1.84 61.3 2.45 2.95 67.2 0.0 17.9 13 294 40 13.8 14 139 17 12.4 2.29 2.66 76.5 0.0 0.0

¹ Legend

dmf - decayed, missing or filled deciduous teeth

DMF - decayed, missing or filled permanent teeth

d - decayed deciduous teeth

D - decayed permanent teeth

TABLE 8: SCHOOL DENTAL SERVICE EXAMINATIONS: AGE-SPECIFIC DISTRIBUTION

This table describes the percentage distribution of children who have received initial and subsequent dental examinations in the School Dental Service. Data from all examinations of children who were examined during the report period are included in this table; percentage estimates denoted with an asterisk (*) are those in which the relative standard error exceeds 40 per cent, and population estimates of these percentages are statistically unreliable.

State/Territory: Queensland

Sampling ratio

Townsville: 1:1

Other Queensland: 1:5

Data for period January-December 1995

| | | | | | CHILDREN WITH PREVIOUS EXAMINATION | | | | | |
|----------------|-----------------------------|---|------|------|------------------------------------|------|-------|------------------|--|--|
| Age (years) | Number of children examined | children School Dental Service (%) Months | | | | | | nation¹(% 25+ | | |
| | | | | | | 7-12 | 13-24 | | | |
| 4 | 167 | 67.6 | * | 31.8 | 0.0 | 100 | 0.0 | 0.0 | | |
| 5 | 538 | 35.4 | 22.7 | 41.9 | 13.9 | 56.5 | 29.6 | 0.0 | | |
| 6 | 625 | 18.3 | 48.4 | 33.3 | 3.4 | 49.0 | 47.3 | * | | |
| 7 | 544 | 5.5 | 73.7 | 20.8 | 3.9 | 35.5 | 57.8 | 2.8 | | |
| 8 | 585 | 3.8 | 79.5 | 16.8 | 2.2 | 33.9 | 56.6 | 7.3 | | |
| 9 | 588 | 3.6 | 80.4 | 16.0 | 1.1 | 34.9 | 57.1 | 6.9 | | |
| 10 | 636 | 2.8 | 77.8 | 19.4 | 1.6 | 29.6 | 63.0 | 5.8 | | |
| 11 | 580 | 3.5 | 79.1 | 17.4 | 3.1 | 29.7 | 60.8 | 6.4 | | |
| 12 | 426 | 1.6 | 73.5 | 24.9 | 13.3 | 31.5 | 50.3 | 4.9 | | |
| 13 | 299 | 3.0 | 66.4 | 30.6 | 15.0 | 51.8 | 28.0 | 5.2 | | |
| 14 | 142 | * | 83.1 | 16.2 | 4.3 | 61.7 | 26.1 | 7.8 | | |
| 15 | 8 | 0.0 | 75.0 | * | 0.0 | 50.0 | 50.0 | 0.0 | | |

¹ Excludes those with no previous examination and where the date of previous examination is unknown.

FIGURE 1: PERCENTAGE OF CHILDREN WITH dmf=0, DMF=0 and d+D=4+

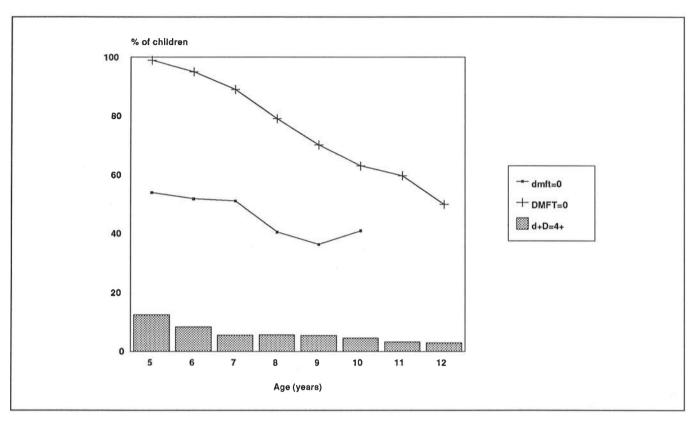


FIGURE 2: TIME SINCE LAST DENTAL EXAMINATION

