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## ABSTRACT

Questionnaires were sent to 1,822 trainees and fellows of the National Institute of Dental Research (NIDR). Questions covered demographic characteristics of NIDR graduate trainees and fellows and their length of training, professional activities, estimates of importance of NIDR training, and publications. A response rate of 78.7 percent was achieved. Findings were that: more than 90 percent of the fellows and trainees were employed full-time; more than half the trainees, and 60 percent of the fellows, were employed by a university, more than one-quarter were self-employed; about two-thirds of the trainees, three-fourths of the fellows, were doing some teaching; more than 80 percent of both groups had held teaching or research positions since the end of their NIDR-supported training; dentistry and dental specialties were the fields of about 47 percent of the trainees and about 54 percent of the fellows; former NIDR fellows/trainees sponsored an estimated 960 other trainees and fellows; about 70 percent of the trainees, over 82 percent of the fellows, felt NIDR-supported training helped them significantly toward their career goals; more than 54 percent of the trainees, and over 62 percent of the fellows, said they could not have obtained the same training without NIDR support. (Author/NH)

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## FINAL REPORT

### FOLLOW-UP SURVEY OF NATIONAL INSTITUTE OF DENTAL RESEARCH GRADUATE TRAINEES AND POSTDOCTORAL FELLOWS

Submitted to:

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Extramural Programs  
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NOTE: The computer-printed tables referred to in this report are available for examination at NIDR.



## I. SURVEY RESULTS

## I. SURVEY RESULTS

### I.1 Summary of Major Findings

- Questionnaires were mailed to 1,141 trainees and 501 fellows. The response rate was 74.4 percent for trainees and 87.8 percent for fellows.
- More than 90 percent of the fellows and the trainees are employed full-time at the present time.
- More than half of the trainees and more than 60 percent of the fellows report that they are presently employed by a university. Slightly more than one-quarter are self-employed.
- About two-thirds of the trainees and about three-fourths of the fellows do some teaching at the present time.
- More than 80 percent of both the fellows and the trainees have held positions in teaching and/or research since the end of their NIDR-supported training.
- Dentistry and dental specialties are the present fields of activity of about 47 percent of the trainees and about 54 percent of the fellows.
- Former NIDR fellows and trainees have sponsored an estimated total of 960 other trainees and fellows.
- About 70 percent of the trainees and over 82 percent of the fellows feel that their NIDR-supported training helped them significantly in achieving their career goals.
- More than 54 percent of the trainees and over 62 percent of the fellows state that they could not have obtained the same training without NIDR support.



## I.2 Demographic Characteristics of NIDR Graduate Trainees and Fellows

In designing the questionnaire, one of the important criteria to be observed was to ask as few questions as possible which could be considered "too personal." It was felt that some of these questions, such as marital status, income, etc., could have an adverse effect on the rate of response, and, for this reason, only two direct questions pertaining to demographic characteristics were asked. They were age and sex. The third demographic variable, geographic location of the respondent, was of course immediately available through his address.

Table 2-1 shows the age distribution for the trainees and fellows. The average age for the trainees is 37.6 years, while for the fellows it is 41.0 years. At first glance, it may seem that these average ages are somewhat higher than expected, but it must be remembered that a considerable span of years is covered by this survey and that all trainees and fellows who are still in training at this time have been excluded. Another point to keep in mind is that the majority of both trainees and fellows already had a doctoral degree while in training. Of the trainees, 64.9 percent already had a doctoral degree, while for the fellows the comparable figure is 85.5 percent.

Table 2-2 below shows the sex distribution for the two groups of respondents.



Table 2-1 Present age distribution

Age	Trainees		Fellows	
	Number	Percent	Number	Percent
Under 26	1	0.1	-	-
26 - 30	125	14.9	27	6.2
31 - 35	225	26.8	69	15.9
36 - 40	237	28.2	123	28.4
41 - 45	146	17.4	99	22.9
46 - 50	63	7.5	66	15.2
51 - 55	32	3.8	39	9.0
56 and over	11	1.3	8	1.8
DK/NA	-	-	2	0.5
Total	840	100.0	433	100.0

Table 2-2 Sex distribution

Sex	Trainees		Fellows	
	Number	Percent	Number	Percent
Male	775	92.3	416	96.1
Female	65	7.7	17	3.9
Total	840	100.0	433	100.0

The geographic distribution of the trainees and fellows is shown in Table 2-3. In this table, geographic distribution shows the location of the respondents at the time they answered the questionnaire. For geographic division, the 10 DHEW geographic regions were used with one additional category for "Abroad."



Table 2-3      Distribution of trainees and fellows by DHEW  
geographic regions

Region		Trainees		Fellows	
		Number	Percent	Number	Percent
I.	CT, ME, MA, NH, RI, VT	64	7.6	47	10.9
II.	NY, NJ, PR, VI	101	12.0	59	13.6
III.	DE, DC, MD, PA, VA, WV	137	16.3	50	11.5
IV.	AL, FL, GA, KY, MS, NC, SC, TN	139	16.5	55	12.7
V.	IL, IN, MN, MI, OH, WI	154	18.3	88	20.3
VI.	AR, LA, NM, OK, TX	67	8.0	25	5.8
VII.	IA, KS, MO, NB	31	3.7	27	6.2
VIII.	CO, MT, ND, SD, UT, WY	15	1.8	11	2.5
IX.	AZ, CA, HI, NV	93	11.1	43	9.9
X.	AK, ID, OR, WA	27	3.2	18	4.2
Abroad		12	1.4	10	2.3
Total		840	100.0	433	100.0

In general, the trainees and fellows seem to be well-distributed over the United States. The largest concentration, not surprisingly, is found in the areas of great population density, large universities, and research institutes. Region V, consisting of the States of Illinois, Indiana, Minnesota, Michigan, Ohio, and Wisconsin, has the largest percentage of both trainees and fellows. For trainees, the next largest group resides in Regions III and IV, while for fellows, Region II which includes New York is in second place. Somewhat surprisingly, perhaps, Region IX, which includes California, is in fifth place for trainees and in sixth place for fellows.

The last demographic characteristic to be discussed is the employment status of the two groups. Table 2-4 below shows the results of this tabulation. Only very small





percentages report that they are unemployed, and comments made on the questionnaires indicate that at least some of the "unemployed" are women who have interrupted their careers in order to raise families.

Table 2-4 Employment status

Status	Trainees		Fellows	
	Number	Percent	Number	Percent
Employed full-time	762	90.7	403	93.1
Employed part-time	42	5.0	21	4.8
Unemployed	11	1.3	3	0.7
Retired	1	0.1	1	0.2
Student	23	2.7	5	1.2
Other	1	0.1	-	-
Total	840	100.0	433	100.0

### I.3 Length of Training

The graduate trainees and fellows who responded to this survey were trained with NIDR support for the lengths of time shown in Table 3-1 below. This table shows that two-thirds or more of the trainees and fellows were trained for less than three years. Compared to fellows, a larger percentage of trainees were trained for three years or more.



Table 3-1 Length of training

Number of months	Trainees		Fellows	
	Number	Percent	Number	Percent
9 - 11 months	44	5.2	26	6.0
12 - 23 months	269	32.0	148	34.2
24 - 35 months	244	29.0	130	30.0
36 - 47 months	146	17.4	86	19.9
48 - 59 months	76	9.0	11	2.5
More than 59 months	58	6.9	11	2.5
DK/NA	3	0.4	21	4.8
Total	840	100.0	433	100.0



### I.3.1 Principal Employer and Length of Training

Before looking at the connection between principal employer and length of training it might be worthwhile to look at the distribution of present employers without regard to the length of training in Table 3-2 below.

Table 3-2 Principal employers

Employer	Trainees		Fellows	
	Number	Percent	Number	Percent
Federal government	30	3.6	16	3.7
State or local government	17	2.0	3	0.7
Hospital (except VA)	14	1.7	5	1.1
VA hospital	12	1.4	2	0.5
University	450	53.6	264	61.0
Research institute	15	1.8	6	1.4
Foundation	6	0.7	2	0.5
Private industry (medical)	8	0.9	3	0.7
Private industry (other)	24	2.9	2	0.5
Private health or social agency	9	1.1	6	1.4
Self	215	25.6	114	26.3
Other	2	0.2	-	-
Unemployed	36	4.3	9	2.1
DK/NA	2	0.2	1	0.2
Total	840	100.0	433	100.0

This table shows that for both trainees and fellows there are two employment categories which tower above the rest. These two are "University" and "Self," with "University" being more than twice as large as the "Self" category. The kind of employment designated by the two groups as "University" indicates,



by definition, that this group most likely spends a considerable part of its time in teaching/training or in research. We will return to this point later in this report. The self-employed category largely consists of dentists in private practice. It will be seen later that some of those dentists in private practice nevertheless spent part of their time in teaching/training and/or research. Only small numbers of trainees and fellows report employers probably completely outside of the fields of teaching/training and research. These are:

<u>Employer</u>	<u>Trainees</u>	<u>Fellows</u>
Private industry (other)	2.9 percent	0.5 percent
Other	0.2 percent	-
Unemployed	4.3 percent	2.1 percent

All other reported employers can be inferred to have at least some connection with teaching, research, or institutional patient care. The percentage of unemployment in the above table is somewhat larger than has been reported earlier in this section. The reason for this is that this category here includes some retired as well as some full-time students.

A cross-tabulation between principal employer and the number of months in training was also made. The only two employment categories with sufficiently large numbers to make any valid comparisons are employment by a university and self-employment. No very pronounced differences between the two groups can be observed. Looking at those trainees and fellows who had less than two years training, we find for the two largest employment categories:

<u>Employer</u>	<u>Trainees</u>	<u>Fellows</u>
University	29.6 percent	39.8 percent
Self	49.8 percent	42.1 percent



Trainees who are now self-employed generally had shorter periods of NIDR-supported training than those who are now employed by a university. Among the fellows, on the other hand, this trend is much less pronounced, with both groups having almost an equal percentage with less than two years of training.

At the other end of the scale, looking at those who had four years or more of NIDR-supported training we see that, among the trainees, about 20 percent of those who are now employed by a university fall into this category, while among the self-employed, only 6.5 percent had four or more years of training. The same trend can be observed among the fellows, with 8 percent of the university employed having had four or more years of training as compared to only 0.9 percent of the self-employed. (For full details see the computer-printed Table 9.)\*

#### I.4 Professional Activities

One of the most important questions on which the questionnaire attempted to get information was how the trainees and fellows spend their professional time. Do they spend at least part of their time in activities which might be considered to be positively connected with the NIDR-supported training they received, or do they tend more towards activities which might not be considered a positive outgrowth of their training?

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\*The computer-printed tables referred to in this report are available for examination at NIDR.



In order to answer this question, the respondents were asked:

Including all your current professional activities, please give a percentage of time and effort for each of the following categories that is applicable:

	<u>Percent</u>
(1) Receiving training	_____ %
(2) Teaching/training others in educational institutions	
Dental students	_____ %
Dental auxiliaries	_____ %
Other health professionals	_____ %
(3) Research	
Dental	_____ %
Other (Specify) _____	_____ %
(4) Direct patient care	
Institutional	_____ %
Intramural	_____ %
Private	_____ %
(5) Administration	
Research	_____ %
Educational	_____ %
Other (Specify) _____	_____ %
(6) Writing or consulting	_____ %
(7) Other (Specify) _____	_____ %
PLEASE HAVE TOTAL ADD TO:	<u>100.0%</u>

#### I.4.1 Percent of Time Spent on Teaching and Research

Two kinds of tabulations were made. One shows the distribution of professional activities for all those who spent at least 10 percent of their time in a given activity, and the second one deals with all those who spent at least 50 percent of their time in a given activity (see the computer-printed Tables 26, 30, and 31.)



Since "Teaching/training others in educational institutions" was considered one of the more desirable activities for trainees and fellows, special tabulations were made on this subject (see the computer-printed Tables 36 and 37). The trainees' and fellows' answers regarding their teaching activities are shown in Table 4-1 below. (For easier presentation the percentage intervals have been somewhat compressed.)

Table 4-1 Percent of professional time spent on teaching/training

Percent of time	Trainees		Fellows	
	Number	Percent	Number	Percent
None	284	33.8	116	26.8
1 - 25 percent	249	29.6	155	35.8
26 - 49 percent	120	14.3	76	17.5
50 - 69 percent	113	13.5	67	15.5
70 - 99 percent	59	7.0	17	3.9
100 percent	15	1.8	2	0.5
Total	840	100.0	433	100.0

This table shows that about two-thirds of the trainees and about three-fourths of the fellows do some teaching. More than 22 percent of the trainees teach for 50 percent or more of their professional time. For the fellows this figure amounts to almost 20 percent.

#### I.4.2 Positions Held in Teaching and/or Research

Respondents were also asked a somewhat broader question: whether they had held positions in teaching/training and/or research since the end of their NIDR-supported training.



Research, of course, was considered to be the most important activity to follow for the former trainee or fellow. The respondents' replies to this question are shown in Table 4-2 below.

Table 4-2 Positions held since NIDR training

Positions held	Trainees		Fellows	
	Number	Percent	Number	Percent
Yes, teaching only	206	24.5	87	20.1
Yes, research only	75	8.9	24	5.5
Yes, both	440	52.4	280	64.7
No	117	13.9	38	8.8
DK/NA	2	0.2	4	0.9
Total	840	100.0	433	100.0

From Table 4-2 it can be seen that rather large majorities of both trainees and fellows have held teaching and/or research positions since the end of their NIDR-supported training. Slightly more trainees have held teaching positions. Relatively small percentages in both groups have held jobs involving only research.

#### I.4.3 Present Field of Activity

The present fields of activity for the trainees and fellows were classified under 50 different headings (see computer-printed Table 11). This, of course, resulted in widely dispersed replies. For a more readable presentation, Table 4-3 below shows the replies for Dentistry and all dental specialties plus six additional fields which show a considerable number of answers.





Table 4-3 Present field of activity

Field of Activity	Trainees		Fellows	
	Number	Percent	Number	Percent
Dentistry	89	10.6	-	9.2
Oral surgery	62	7.4	21	4.8
Orthodontics	49	5.8	57	13.2
Pedodontics	36	4.3	16	3.7
Periodontics	76	9.0	59	13.6
Prosthodontics	29	3.5	8	1.8
Oral Pathology	39*	4.6	27	6.2
Endodontics	17	2.0	7	1.6
Total (dental specialties)	397	47.2	235	54.1
Anatomy	39	4.6	22	5.1
Biochemistry	38	4.5	29	6.7
Microbiology	11	1.3	17	3.9
Pathology	17	2.0	15	3.5
Pharmacology	13	1.5	6	1.4
Physiology	22	2.6	12	2.8
Other	303	36.2	97	22.4
Total	840	100.0	433	100.0

Among the trainees, almost half are in dentistry or one of the dental specialties at the present time. Among the fellows, this figure is slightly larger, reaching 54 percent. The largest single field for both trainees and fellows is Periodontics.



The comparatively large number of "Others" consists of respondents in virtually all scientific specialties. Some of the larger groups classified as "Other" are:

Speech pathology and audiology  
Behavioral sciences  
Engineering  
Metallurgy

I.5 Trainees' and Fellows' Estimates of Importance of NIDR Training

In the questionnaire sent to the trainees and fellows an effort was made to have the respondents estimate the significance of the NIDR support for themselves and for the course of their careers. For this purpose, the following series of questions was asked:

Since the completion (termination) of your National Institute of Dental Research-sponsored training, have you sponsored other trainees or fellows?

No \_\_\_\_\_ Yes \_\_\_\_\_ How many? \_\_\_\_\_

Did your National Institute of Dental Research-supported training contribute to the achievement of your career goals?

No \_\_\_\_\_ Moderately \_\_\_\_\_ Significantly \_\_\_\_\_

Would you have been able to obtain the same training without NIDR support?

Yes \_\_\_\_\_ No \_\_\_\_\_ Don't know \_\_\_\_\_

Number of scientific publications \_\_\_\_\_  
Number as senior author \_\_\_\_\_



### 1.5.1 Sponsorship of Other Trainees or Fellows

The question asking whether other trainees or fellows have been sponsored resulted in the answers shown in Table 5-1 below.

Table 5-1 Sponsorship of other trainees or fellows

Sponsorship	Trainees		Fellows	
	Number	Percent	Number	Percent
None	709	84.4	327	75.5
Yes, 1 - 5	91	10.8	59	13.6
Yes, 6 - 10	16	1.9	12	2.8
Yes, more than 10	7	0.8	19	4.4
DK/NA	17	2.0	16	3.7
Total	840	100.0	433	100.0

While large percentages of both trainees and fellows did not sponsor anyone, it is possible to say that as a minimum the following were sponsored:

#### Trainees

91 sponsored at least 1 = 91  
 16 sponsored at least 6 = 96  
 7 sponsored at least 11 = 77

Total 264

#### Fellows

59 sponsored at least 1 = 59  
 12 sponsored at least 6 = 72  
 19 sponsored at least 11 = 209

Total 340



This shows that the minimum number sponsored by the trainees and fellows is 604. In actuality, the number must be somewhat higher, and, considering that only the more promising students are sponsored, the total number is not insignificant even if a large percentage did not sponsor anyone.

We can also calculate the estimated total sponsored by each group. This can be done by taking the midpoint for each response category and multiplying by the applicable number of respondents. Thus:

	<u>Number sponsored</u>	<u>Midpoint</u>		<u>Number of sponsors</u>		<u>Estimated total</u>
Trainees:	1-5	3	x	91	=	273
	6-10	8	x	16	=	128
	11+	11	x	7	=	<u>77</u>
	Total					478
Fellows:	1-5	3	x	59	=	177
	6-10	8	x	12	=	96
	11+	11	x	19	=	<u>209</u>
	Total					482

The estimated total for both groups, therefore is 960.

#### I.5.2 Trainees' and Fellows' Estimates of Significance of NIDR-Supported Training Towards Achievement of Career Goals

The marginal tabulations of the responses to this question are shown in Table 5-2 below. Both groups are emphatic in stating that the NIDR-supported training has contributed to the



achievement of their career goals. A larger percentage of the fellows than of the trainees feels that the contribution was significant.

Table 5-2 Estimated significance of NIDR-supported training towards achievement of career goals

Estimated contribution	Trainees		Fellows	
	Number	Percent	Number	Percent
Contributed significantly	584	69.5	356	82.2
Contributed moderately	206	24.5	62	14.3
Did not contribute	37	4.4	11	2.5
DK/NA	13	1.5	4	0.9
Total	840	100.0	433	100.0

A cross-tabulation of this question by title of employment mainly shows that the contribution of the NIDR-supported training is valued more highly by those in academic professions as compared to those engaged in private dental practice. (See the computer-printed Table 63.)

### 5.3 Availability of the Same Training Without NIDR Support

As the last question in this series, respondents were asked, "Would you have been able to obtain the same training without NIDR support?" The answers to this question are shown in Table 5-3 below.



Table 5-3 Availability of same training

Availability	Trainees		Fellows	
	Number	Percent	Number	Percent
Yes	163	19.4	66	15.2
No	456	54.3	270	62.4
Don't know	209	24.9	90	20.8
NA	12	1.4	7	1.6
Total	840	100.0	433	100.0

Differences between answers from trainees and fellows are rather small. Considerably more than half the fellows feel that the same training would not have been available without NIDR support. About one-fifth to one-fourth of both groups are not sure about availability of the same training.

A cross-tabulation with "Title of employment" shows again that those in the academic professions feel more strongly that the same kind of training would not have been available without NIDR support, while private practitioners are less inclined to feel this way. (See the computer-printed Table 70.)

#### I.5.4 Trainees' and Fellows' Comments

As the last item on the questionnaire, the respondents were told: "If you would like to make any additional comments, please do so below."



Of the 840 trainees who returned a questionnaire, 154 or 18.3 percent availed themselves of the opportunity and did make a comment.

Of the 433 fellows, 93 or 21.5 percent commented. In the process of coding, the comments were classified into "Favorable" and "Unfavorable or neutral" comments. After the comments had been classified in this manner, the results were:

	<u>Trainees</u>	<u>Fellows</u>
Favorable	121 or 78.6 percent	82 or 88.2 percent
Unfavorable or neutral	<u>33</u> or <u>21.4</u> percent	<u>11</u> or <u>11.8</u> percent
Total	154 100.0 percent	93 100.0 percent

Favorable comments generally were of the type that the NIDR program should be continued in order to assure the proper training of scientific manpower. (For full details concerning all questions discussed in this section see the computer-printed Tables 57-74.)

## 1.6 Publications

The number of scientific publications produced by the trainees and fellows is an important indicator of the success or failure of such a program. It is recognized, of course, that the sheer number of publications does not reveal anything as to the quality of the written output, but we must content ourselves here with the quantitative output, remembering always that the quality at least was high enough to be acceptable to a scientific journal.



The questionnaire asked for the number of scientific publications by each respondent and the number of publications they have produced as a senior author.

Tables 6-1a and 6-1b below show the numbers of scientific publications and publications as senior author by the trainees and fellows as well as the average number for each group.

Table 6.1a Number of publications as senior author

Number of publications as senior author	Trainees		Fellows	
	Number	Percent	Number	Percent
None	232	27.6	68	15.7
1 - 5	362	43.1	161	37.2
6 - 10	118	14.0	69	15.9
11 - 15	49	5.8	33	7.6
16 - 20	29	3.4	38	8.8
21 - 25	9	1.1	12	2.8
26 or more	22	2.6	42	9.7
DK/NA	19	2.3	10	2.3
Average	4.9		8.5	
Total	840	100.0	433	100.0





Table 6-1b Number of scientific publications

Number of publications	Trainees		Fellows	
	Number	Percent	Number	Percent
None	136	16.2	40	9.2
1 - 5	371	44.2	140	32.3
6 - 10	129	15.4	74	17.1
11 - 15	77	9.2	48	11.1
16 - 20	38	4.5	26	6.0
21 - 25	20	2.4	17	3.9
26 or more	51	6.1	83	19.2
DK/NA	18	2.1	5	1.2
Average	7.0		11.3	
Total	840	100.0	433	100.0

Taken as a whole, it would appear that both trainees and fellows are quite prolific writers. The fellows, being older and professionally more experienced, have published considerably more than the trainees. Among the fellows, only about 9 percent have not published anything, while the corresponding number for trainees is about 16 percent. On the other hand, about 22 percent of the trainees have published more than 10 times, and 12 percent have had more than 10 publications as senior author.

#### I.6.1 Degree Status While in Training by Number of Publications as Senior Author

One of the more interesting questions to be investigated here is a comparison of the publication output as senior author by the trainee's or fellow's degree status while in training.



The full results can be seen in the computer-printed Table 43 for both fellows and trainees. Averages have been computed for the three largest degree types (predoctoral, postdoctoral, and post-DDS/DMD) and are shown in Table 6-2 below.

Table 6-2 Average number of publications as a senior author for three types of degree status while in training

Average number of publications as a senior author	Trainees			Fellows		
	Pre-doc-toral	Post-doc-toral	Post DDS/DMD	Pre-doc-toral	Post-doc-toral	Post-DDS/DMD
	3.8	8.2	5.1	6.9	10.2	8.5

As might have been expected, predoctoral trainees have the lowest average number of publications as senior author. Post-DDS/DMD trainees are very near the average, while the postdoctoral (mostly post-Ph.D.) trainees are well above average. For predoctoral fellows, the average number of publications as a senior author is almost twice as large as for predoctoral trainees. In the other two categories of postdoctoral and post-DDS/DMD, the average number for fellows is higher than for trainees, but the difference is not as large as in the predoctoral category (see the computer-printed Table 43.)

#### I.6.2 Number of Publications and Principal Employer

Because of the smallness of other employment categories, comparisons here will be restricted to those who are employed by a university and those who report themselves as "Self-employed."



Trainees employed by a university are, in general, publishing much more than the self-employed. Among the trainees, 8 percent of those employed by a university have not published at all, while among the self-employed the corresponding figure is over 27 percent. The figures for fellows show a similar trend.

The average numbers of publications for the two groups have not been computed since such a comparison might be unfair. It is part of the professional life of a university professor to publish scientific papers while this is not necessarily the case for a practicing DDS or DMD. One further point should be made regarding the group of fellows who report that their principal employer is the federal government. This group is quite small, consisting only of 16 respondents but more than 30 percent of this small group report that they each have more than 26 scientific publications to their credit. This is a larger percentage than for those employed by a university. (For detailed results see the computer-printed Tables 43, 48, and 50-55.)



## II. METHODOLOGY



## II. METHODOLOGY

### II.1 Description of Respondent Groups

In July of 1972, Westat, Inc. was awarded a contract by NIH to conduct a followup survey of two different groups of recipients of support from the National Institute of Dental Research. These two groups were:

Recipients of Graduate Training Awards, and  
Recipients of Fellowships.

These groups will be referred to in this report as trainees and fellows, respectively. In the case of trainees, this survey covered those who received training support from fiscal year 1958 through fiscal year 1971. Trainees and fellows who were still in training at the time of the survey were excluded from the study.

The group of NIDR fellows included in this survey covers all recipients of fellowships from the inception of the program through those fellowships starting in fiscal year 1971. For this reason, the fellows to be surveyed include some who had been NIDR fellows as long as 20 years ago.

NIDR furnished Westat with lists of graduate trainees and fellows. The list for trainees included:

Full name  
Address  
Training grant number  
Degree held while in training  
Social Security number (for the majority of cases)  
Date of birth.



For those who held an NIDR fellowship, the following information was furnished:

Full name  
Address  
Dates of fellowship (when known)  
Name of institution where the fellow studied (when known)  
Name of professor under whom he studied (when known).

The addresses, in many cases, were the ones the fellows and trainees used while in training, and many of them proved to be out of date. As a result it was necessary to perform substantial locating efforts using various techniques described below in Section II.3.

## II.2 Questionnaire Development

Based on suggestions and a questionnaire outline provided by NIDR, a survey instrument was developed. The instrument underwent various revisions and was pretested with nine respondents before being submitted to OMB for approval. After various delays OMB approval was received in late November, 1972.

## II.3 Procedures Used For Securing Current Addresses

Since addresses were available for almost all NIDR trainees and fellows, no address searching was necessary in the beginning of the project. However, as time progressed, it did prove to be necessary to do considerable address searching since a large number of the original addresses proved to be no longer valid. These efforts are described in the sections below.



### II.3.1 Library Sources

In order to secure current addresses, a great many library sources were used. The most important ones were the following:

American Dental Directory  
American Dental Association  
Chicago, Ill., 1973.

1969 American Medical Directory, 25th edition  
American Medical Association  
Chicago, Ill., 1969.

Directory of Medical Specialists  
Marquis, "Who's Who Inc.," Von Hoffman Press, Inc.  
St. Louis, Mo., 1972.

(During the course of the project a new 1973 edition of this reference work was published and used for locating missing addresses.)

Who Is Publishing in Science  
1971 and 1972 Annual Institute for Scientific Information, Inc.  
Philadelphia, Pa.

American Men of Science, 11th Edition  
ed. by Jacques Cattell Press  
R. R. Bowker Co., New York, 1965.

(A new edition of this work is being published at this time. The new title is American Men and Women of Science. At this time only the first four volumes, covering letters A-K, are available. These were used extensively.)

Another valuable source which was used extensively was:

Research Grants Index, Vol. II  
Fiscal Year 1971  
U. S. Dept. of HEW, Public Health Service.



This publication was quite fruitful in finding the present location of those trainees and fellows who held any type of NIH grant in fiscal year 1971. Probably because of age and experience, more NIH grants had been obtained by NIDR fellows than by trainees, and for this reason this source proved to be more fruitful for locating addresses of former NIDR fellows.

After these sources had been exhausted, arrangements were made with the National Science Foundation to look for missing addresses in the "National Scientific Register." This was done and a considerable number of additional addresses were secured.

Some of the addresses secured from library sources also proved to be out of date, and many were returned as "Undeliverable" by the Post Office. Other techniques were used in such cases to get valid addresses. Those techniques are described below.

### II.3.2 Contact With Alumni Offices

NIDR records contained information, in most cases, showing the undergraduate institution attended by trainees and fellows together with the year of graduation and the type of degree obtained.

A form letter was composed to the Director of Alumni Affairs (see Attachment G). Names of the institution and of the trainee or fellow were filled in, and these letters were sent out together with a postage-paid reply envelope. Letters were sent to the undergraduate institutions of all those trainees





and fellows for whom no address was located during the library search. In addition, such letters were also sent for those trainees and fellows for whom addresses had been obtained but whose questionnaire was returned by the Post Office as "Undeliverable."

This method of getting current addresses worked quite well. Almost all of the institutions replied. In most cases they supplied addresses which proved to be valid. In some cases, of course, the Alumni Office did not have a current address at all or supplied us with an address which later turned out to be incorrect. In general, however, we received excellent cooperation from Alumni Offices all over the country.

## II.4      Survey Operations

### II.4.1    Results of Address Search

The search for addresses was a continuing process. Many of the addresses which were found in one of the primary reference books, such as the ADA Directory, later turned out to be invalid and other steps had to be taken to find an address. As previously mentioned, one of the primary means of getting addresses was writing to the Alumni Affairs Office of the undergraduate institution attended by the trainee or fellow. Many such letters were written and almost all of them were answered by the Alumni Office in question. Most of the addresses secured in this way turned out to be valid.

The following table shows the number of names which were provided by NIDR for trainees and fellows and also the number for whom addresses were found as well as those for whom no address could be located or who were found to be deceased.



Table II-1 Results of address search

	Number of names on list	No address found	Deceased*	Left for mailing
NIDR trainees	1,266	6	-	1,260
NIDR fellows	578	13	3	562
Total	1,844	19	3*	1,822

\* The fact that these three fellows were deceased was discovered during the address search, and therefore no questionnaires were ever mailed to them. During the course of the regular mailing it was discovered that an additional number of fellows and trainees were deceased. This number is accounted for in the discussion of the various mailings and the response rates. A listing of all deceased fellows and trainees is attached (see Attachment H.)

#### II.4.2 Questionnaire Mailings and Response Rates

As has been previously mentioned, OMB clearance for the questionnaires was not obtained until late November of 1972. Since questionnaire printing still had to be done, this meant that the first mailing could not have taken place until early December, and this in turn meant that the returns of the respondents would have fallen into the immediate pre-Christmas season. In previous large-scale mail surveys, it has been Westat's experience that mailouts during the Christmas season generally do not result in a good response. For this reason, and with the concurrence of NIDR, the decision was made to postpone the first mailout until just after Christmas and spend the remaining days before Christmas in trying to locate more valid addresses.



Consequently, the first mailing of the questionnaire took place on December 26 and 27, 1972. The mailing consisted of the questionnaire and the "Code and Name List" (Attachments A and B).

About three weeks were allowed to elapse before the first followup was sent out to nonrespondents. The followup mailing consisted of the same materials as the original mailing but in addition included a letter from the Director of NIDR urging the respondent to fill out the questionnaire and return it to Westat (see Attachment D).

During the planning phase of the project it had been decided that the second followup to nonrespondents would be handled by "Certified Mail - Return Receipt Requested." This mailing was sent out on February 12-15, 1973. This procedure proved to be quite successful since it resulted in the receipt of about 20 percent of all trainee questionnaires and about 15 percent of all fellow questionnaires.

Late in April of 1972, another special attempt was made to get replies from nonrespondent fellows. Another certified mailing was sent to all fellows who had not replied by that date. This mailing included a letter signed by the Special Assistant to the Associate Director of NIDR. A total of 38 questionnaires were sent out at that time, and an additional 15 replies were received. Due to the overlap in time it was not always possible to say with certainty to which mailing the respondent actually had replied, but the above figures for the certified mailing and the special mailing are believed to be reasonably accurate.

Table II-2 below shows the overall results of all mailings and the response rates which were achieved.



Table II-2 Mailing results and response rates \*

	NIDR trainees	NIDR fellows	Total
Base count (mailout)	1,260	562	1,822
<u>Deductions</u>			
Still in training	17	34	51
Insufficient training	90	15	105
Never activated	1	11	12
Deceased	11	1	12
Total deductions	119	61	180
Revised base count	1,141	501	1,642
Completed questionnaires received and on tape	840	433	1,273
Refusals	12	6	18
Late arrivals	-	1	1
Total response	852	440	1,292
Response rate	74.4%	87.8%	78.7%
Undeliverable	129	30	159
Rate	11.3%	6.0%	9.7%
Nonrespondents	160	31	191
Rate	14.0%	6.2%	11.6%
Total	1,141	501	1,642

\* See explanatory notes on page 32.



## Explanatory Notes to Table II-2

Base count (mailout) - See Table II-1.

Still in training - The survey was to include only those trainees who had received a minimum of nine months' training. Those with less than nine months' training were eliminated.

Never activated - On the list of fellows and trainees provided to Westat, 12 were found whose fellowship applications had actually been approved by NIDR but who, for reasons of their own, decided not to accept the fellowship award. Therefore, they were in fact, never active as NIDR fellows.

Deceased - See footnote to Table II-1.

Refusals - These are respondents who returned blank questionnaires with notes saying that they refused to answer. Although they refused to fill out the questionnaire, their addresses can be assumed to be valid.

Late arrivals - On May 15, 1972, acceptance of responses for inclusion in the tabulations had to be cut off. Questionnaires in this category arrived after May 15, 1972. They have been coded and keypunched but they are not included in the tabulations.

Undeliverables - Those questionnaires which were returned to Westat by the Post Office. No valid addresses were found for these respondents.

Nonrespondents - Includes those respondents who never returned a questionnaire, but whose questionnaires were not returned by the Post Office as undeliverable. It can therefore be assumed that their addresses are valid and that these are simply people who, for one reason or another, chose not to answer the questionnaire.



## **ATTACHMENTS**

- A. NIDR Questionnaire**
- B. Code and Name List**
- C. List of Dental Specialties**
- D. Followup Letter**
- E. NCI/NIDR Coding Manual**
- F. Card Layout**
- G. Alumni Letter**
- H. List of Deceased Trainees and Fellows**



**ATTACHMENT A**  
**NIDR QUESTIONNAIRE**





DEPARTMENT OF HEALTH, EDUCATION, AND WELFARE  
PUBLIC HEALTH SERVICE  
NATIONAL INSTITUTES OF HEALTH  
BETHESDA, MARYLAND 20014

Dear Respondent:

The National Institute of Dental Research is sponsoring this survey of former participants in its fellowship and graduate research training programs. As a participant in one of these programs, I am sure you are aware of their importance. The data you are asked to supply will be of great value to the National Institute of Dental Research and to the National Institutes of Health.

The primary scope of this survey is to obtain data needed for an evaluation of the National Institute of Dental Research fellowship and graduate research training programs. The data obtained from the survey will be used to determine how present activities are related to training received as fellows or trainees, and to determine the extent to which these activities are related to teaching, research, patient care and administration. The results of the survey will have an important effect on future planning. Please be assured that individual answers will be kept strictly confidential and will only be used for statistical purposes.

NIDR has entered into a contract with Westat, Inc. for the administration of this survey. The contractor has tried to make the questionnaire as simple as possible and it is hoped that you will fill it out as soon as possible and return it in the enclosed postage-free return envelope.

Sincerely yours,

Seymour J. Kreshover, D.D.S., M.D.  
Director

National Institute of Dental Research

Our records show your name and address as given on the above label. If address is incorrect or if you prefer another mailing address, please change on page 1.



OMB No. 68-S72033  
Expires: April 30, 1974

GENERAL INSTRUCTIONS

1. Please answer all questions except where questionnaire instructions call for skipping a question.
2. If a given question is not applicable to you please indicate N.A. in the space allotted for a response.
3. Don't hesitate to write explanatory notes if you feel further explanation is necessary. Use an additional sheet of paper for this purpose and be sure to make reference to the question number you are elaborating on.
4. Where called for, please make careful use of the attached green colored "Code and Name List." Codes from this list should be used in answering items 7 and 8, in Question 2 and also for Questions 3b, 3d, 5 and 6.

SURVEY OF GRADUATE TRAINEES  
AND FELLOWS

If address incorrect, or if you prefer another mailing  
address, please write it here:

\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_  
(City) (State) (ZIP)

1. Demographic Information

a. Date of Birth

\_\_\_\_/\_\_\_\_/\_\_\_\_  
Month Day Year

b. Maiden or Other Name \_\_\_\_\_

c. Sex

(1) Male ☐  
(2) Female ☐

d. Social Security Number

--	--	--

## 2. Training Experience

Include all professionally-oriented training even if no degree was (is) anticipated. "Professionally-oriented" training includes academic, research, and clinical training. Start with current training, if applicable, and list, in reverse chronological order, all training to, and including, your receipt of the baccalaureate degree.

	Dates		Type of Training			Source of Support Code*	Fields from Code and Name List**		Degree Awarded or to be Awarded (9)	Year of Award (10)
	Began (Mo)(Yr)	Completed (Mo)(Yr)	Acad.	Rsch.	Clin.		Code	Name		
	(1)	(2)	(3)	(4)	(5)		(7)	(8)		
Current Training										
Previous Training 1.										
2.										
3.										
4.										
5.										
6.										
7.										

\* Use the code list below for filling in "Source of Support." (List all sources of support)

\*\*Use green colored "Code and Name List."

## SOURCE OF SUPPORT (for questions 2 and 3d)

- 01 National Institute of Dental Research
- 02 National Cancer Institute
- 03 National Institutes of Health (other than NIDR or NCI)
- 04 Public Health Service (other than NIH)
- 05 Department of Defense - DOD
- 06 Atomic Energy Commission - AEC
- 07 National Aeronautics and Space Administration - NASA
- 08 Veterans Administration - VA
- 09 National Science Foundation - NSF
- 10 State or local government agency (non-educational)
- 20 Public college or university
- 30 Private college or university
- 40 Private health or social agency
- 50 Private foundation
- 60 Industry
- 70 Self
- 80 Other (Specify) \_\_\_\_\_

3. Employment

a. Are you presently:

Employed full-time. . . . . ☐  
Employed part-time. . . . . ☐  
Unemployed. . . . . ☐ (Skip to Q.3c)  
Retired . . . . . ☐ (Skip to Q.3c)  
Other (Specify) \_\_\_\_\_ ☐ (Skip to Q.3c)

\_\_\_\_\_

b. Indicate your current position title, field or discipline  
(see Code and Name List), principal employer(s), and  
organizational component(s).

\_\_\_\_\_  
(Title)

\_\_\_\_\_  
(Field or Discipline)

\_\_\_\_\_  
(Enter Code from  
"Code and Name List")

\_\_\_\_\_  
(Name of Principal Employer -- University, Institution,  
Self, etc.)

\_\_\_\_\_  
(College, School, Division, etc.)

\_\_\_\_\_  
(Branch, Department, Office, etc.)

\_\_\_\_\_  
(Joint Appointment(s) -- if any, specify and give per-  
cent of time and effort to each)

- c. Including all your current professional activities, please give a percentage of time and effort for each of the following categories that is applicable:

	Percent
(1) Receiving Training	_____ %
(2) Teaching/training others in educational institutions	
Dental Students	_____ %
Dental Auxiliaries	_____ %
Other Health Professionals	_____ %
(3) Research	
Dental	_____ %
Other (Specify) _____	_____ %
(4) Direct Patient Care	
Institutional	_____ %
Intramural*	_____ %
Private	_____ %
(5) Administration	
Research	_____ %
Educational	_____ %
Other (Specify) _____	_____ %
(6) Writing or Consulting	_____ %
(7) Other (Specify) _____	_____ %
PLEASE HAVE TOTAL ADD TO: 100 %	

- d. If you are currently involved in research for at least 10% of your time (3,c.(3)), please complete the following. If not, go on to question 4.

Indicate your primary research area in the space below. Please choose one, but if you are doing research equally in two areas, list them both. (Use the attached "Code and Name List" and enter the code(s) which best describe(s) your research area(s).) Identify the source of support (from the appropriate codes on page 2) and be as specific as possible about your subject(s) of interest.

(1)	_____ (Code-Area)	_____ (Research Area)	_____ (Code-Support)
(2)	_____ (Code-Area)	_____ (Research Area)	_____ (Code-Support)
(3)	_____ (Other descriptors if necessary)		_____ (Code-Support)
(4)	_____ (Specific subject(s) of interest, e.g., plaque, teratology, collagen, etc.)		

\* Private patient care using institutional facilities.

4. a. Since the end of your NIDR supported training, have you held any position in:

	<u>YES</u>	<u>NO</u>
Teaching	<input type="checkbox"/>	<input type="checkbox"/>
Research	<input type="checkbox"/>	<input type="checkbox"/>

If you held any positions involving either teaching or research, GO TO Q.4b, if not, GO TO Q.5.

- b. Since the end of your NIDR supported training, how many years have you spent in positions involving:

	<u>FULL-TIME</u>	<u>PART-TIME</u>
Teaching	<u># Years</u>	<u># Years</u>
Teaching and Research	<u># Years</u>	<u># Years</u>
Research	<u># Years</u>	<u># Years</u>

ONLY RESPONDENTS WITH MD, OD, DDS, DMD OR DVM DEGREES ANSWER QUESTIONS 5 AND 6.

5. List your basic specialty(ies) in order of significance to your professional activity. Use the attached green colored "Code and Name List."

	<u>Code</u>	<u>Name</u>
a.	_____	_____
b.	_____	_____
c.	_____	_____

6. Please indicate below the specialties in which you have U.S. Board Certification. If you do not have a U.S. Board Certification, check here: ☐

a. First Certification	<u>(Code)*</u>	<u>(Specialty Field)</u>	<u>(Year)</u>
Second Certification	<u>(Code)*</u>	<u>(Specialty Field)</u>	<u>(Year)</u>
Foreign Certified Specialty	<u>(Code)*</u>	<u>(Specialty Field)</u>	<u>(Year)</u>

\* Use attached green colored "Code and Name List."

7. Since the completion (termination) of your National Institute for Dental Research-supported training, have you sponsored other trainees or fellows?

No \_\_\_\_\_ Yes \_\_\_\_\_ How many? \_\_\_\_\_

8. Did your National Institute of Dental Research-supported training contribute to the achievement of your career goals?

No \_\_\_\_\_ Moderately \_\_\_\_\_ Significantly \_\_\_\_\_

8. Would you have been able to obtain the same training without NIDR support?

Yes \_\_\_\_\_ No \_\_\_\_\_ Don't know \_\_\_\_\_

10. Number of scientific publications \_\_\_\_\_  
Number as senior author \_\_\_\_\_

If you would like to make any additional comments, please do so below:

THANK YOU VERY MUCH FOR YOUR COOPERATION

**ATTACHMENT B**

**CODE AND NAME LIST**





OMB No. 68-S72033  
Expires: April 30, 1974

CODE AND NAME LIST

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# BIOLOGICAL SCIENCES

<u>Code</u>		<u>Code</u>	
102000	<u>ANATOMY</u> Anatomic pathology see <u>242030</u> in MS* Cytology see <u>122000</u>	118000	<u>BOTANY</u>
102030	Anatomy, general	122000	<u>CELL BIOLOGY; CYTOLOGY</u> Cyto-histochemistry see <u>106090</u> Cytogenetics see <u>134120</u> Histology see <u>102150</u>
102060	Comparative anatomy		
102090	Embryology, develop, anatomy (Reproductive physiology see <u>158270</u> )	126000	<u>ECOLOGY</u>
102120	Gross anatomy		<u>EMBRYOLOGY</u> (use code <u>102090</u> )
102150	Histology, microanatomy		
102180	Neuroanatomy	130000	<u>ENTOMOLOGY</u>
102999	Anatomy, all other <sup>1</sup>		
106000	<u>BIOCHEMISTRY</u> Clinical chemistry see <u>242150</u> in MS Immunochemistry see <u>138090</u> Biochemical genetics see <u>134090</u>	134000	<u>GENETICS</u>
106030	Biochemistry, general	134030	Genetics, general
106060	Biophysical chemistry	134060	Behavioral genetics
106090	Cyto-histochemistry	134090	Biochemical genetics
106120	Intermediary metabolism	134120	Cytogenetics
106150	Metabolic errors and diseases	134150	Developmental genetics
106179	Metabolism, other <sup>1</sup> (Code drug metabolism here)	134180	Immunogenetics
106210	Medicinal chemistry, including Pharmaceutical chemistry	134210	Microbial genetics
106240	Microbiological chemistry	134240	Population genetics
106270	Molecular biology	134270	Radiation genetics <sup>1</sup>
106300	Neurochemistry	134999	Genetics, all other <sup>1</sup>
106400	Visual processes	138000	<u>IMMUNOLOGY</u> Immunogenetics see <u>134180</u> See also Allergy <u>218060</u> in MS
106999	Biochemistry, all other <sup>1</sup>	138030	Immunology, general including Serology
110000	<u>BIOLOGY</u> (refers to general biology only)	138060	Hypersensitivity, Allergy, Allergic reactions
114000	<u>BIOPHYSICS</u> Biophysical chemistry see <u>106060</u>	138090	Immunochemistry

\* MS and MPE are used throughout this list to refer to the Medical Specialties and Mathematics, Physical Sciences and Engineering sections, respectively.

<sup>1</sup> Please specify on report form.

<u>Code</u>		<u>Code</u>	
138120	Immunopathology, including auto-immunity and blood group incompatibility	154150	Psychopharmacology
138150	Transplantation immunology	154180	Toxicology
138999	Immunology, all other <sup>1</sup>	154999	Pharmacology, all other <sup>1</sup>
142000	<u>MICROBIOLOGY AND PARASITOLOGY</u>	158000	<u>PHYSIOLOGY</u>
	Clinical microbiology see <u>242180</u> in MS		Cell physiology see <u>122000</u>
	Tropical medicine see <u>270000</u> in MS		Metabolism see <u>Biochemistry</u>
142030	Microbiology, general		Nutrition see <u>146000</u>
142060	Parasitology		Physiological psychology see <u>522180</u> in Behavioral Sciences
142090	Bacteriology	158030	Physiology, general
142120	Mycology	158060	Cardiovascular physiology
142150	Protozoology	158090	Endocrinology (see also Endocrinology <u>218120</u> in MS)
142180	Virology	158120	Gastrointestinal physiology including pancreatic, biliary, and hepatic physiology
142999	Microbiology, all other <sup>1</sup>	158150	Muscle physiology
146000	<u>NUTRITION</u>	158180	Neurophysiology
	Food sciences and technology see <u>630000</u>	158190	Physiological Optics
	Dietetics see <u>622000</u> in Allied Health	158210	Pulmonary and res. physiology
150000	<u>PATHOLOGY</u>	158240	Renal physiology
	Immunopathology see <u>138120</u>	158270	Reproductive physiology
	See also <u>Pathology and Oncology</u> in MS	158999	Physiology, all other <sup>1</sup>
150030	Pathology, general	199999	<u>BIOLOGICAL SCIENCES, ALL OTHER<sup>1</sup></u>
150060	Comparative pathology		Please use this code <u>only</u> for a biological science area that cannot be subsumed under one of the above categories.
150090	Experimental pathology		
150120	Microscopic pathology		
150150	Oncology		
150180	Radiation pathology <sup>1</sup>		
150999	Pathology, all other <sup>1</sup>		
154000	<u>PHARMACOLOGY</u>		
	Pharmaceutical chemistry see <u>106210</u>		
	Drug metabolism see <u>106179</u>		
	See also Anesthesiology <u>202000</u> in MS		
154030	Pharmacology, general		
154060	Chemotherapy and experimental therapeutics		
154090	Clinical pharmacology		
154120	Neuropharmacology		

<sup>1</sup> Please specify on report form.

MEDICAL SPECIALTIES

<u>Code</u>	
202000	<u>ANESTHESIOLOGY</u>
206000	<u>CHEMOTHERAPY</u>
210000	<u>DERMATOLOGY</u>
214000	<u>GERIATRICS</u>
218000	<u>INTERNAL MEDICINE</u>
218030	Internal medicine, general
218040	Internal medicine, diagnostic
218060	Allergy (note specific code for pediatric allergy)
218090	Cardiovascular disease (note specific code for pediatric cardiology)
218120	Endocrinology
218150	Gastroenterology
	Hematology (use code 242300 in pathology series)
218180	Immunology
218210	Infectious diseases
218240	Metabolism
218270	Nephrology (Renal disease)
218300	Pulmonary disease
218330	Rheumatology
218999	Internal medicine, all other <sup>1</sup>
222000	<u>MEDICINE, GENERAL</u>
226000	<u>NUCLEAR MEDICINE</u>
226030	Nuclear medicine, general
226060	Radioisotope diagnosis
226090	Radioisotope therapy
226120	Radiobiology
226999	Nuclear medicine, all other <sup>1</sup>

---

<sup>1</sup> Please specify on report form.

<u>Code</u>		<u>Code</u>	
230000	<u>NEUROLOGY</u>		<u>PHARMACOLOGY, CLINICAL</u>
	Pediatric neurology see 246150		See code 154090 in biological sciences
	Psychiatry and neurology see 258060		
234000	<u>OBSTETRICS AND</u>	250000	<u>PHYSICAL MEDICINE AND</u>
	<u>GYNECOLOGY</u>		<u>REHABILITATION</u>
234030	Obstetrics and gynecology	250030	Physical medicine and
234060	Obstetrics		rehabilitation
234090	Gynecology	250060	Physical medicine
		250090	Rehabilitation
238000	<u>ONCOLOGY</u>	254000	<u>PUBLIC HEALTH AND</u>
238010	Oncogenesis/Carcinogenesis		<u>PREVENTIVE MEDICINE</u>
241000	<u>OPHTHALMOLOGY</u>	254030	Public health and preventive
241010	Neuro-ophthalmology		medicine
241020	Sensori-motor ophthalmology	254060	Aviation medicine; aerospace-
			medicine
242000	<u>PATHOLOGY</u>	254090	Community medicine
242030	Anatomic pathology	254120	Epidemiology
242060	Anatomic pathology and	254150	Industrial health
	clinical microbiology	254180	Occupational medicine
242090	Anatomic pathology and	254210	Preventive medicine
	clinical pathology	254240	Public health
242120	Anatomic pathology and	258000	<u>PSYCHIATRY</u>
	neuropathology		See also <u>PSYCHOLOGY</u> in behavioral
242150	Clinical chemistry		sciences
242180	Clinical microbiology	258030	Psychiatry, general
242210	Clinical microbiology and	258060	Psychiatry and neurology
	clinical chemistry	258090	Child psychiatry
242240	Clinical pathology	258999	Psychiatry, all other <sup>1</sup>
242270	Forensic pathology		
242300	Hematology (note specific	262000	<u>RADIOLOGY</u>
	code for pediatric hematology)	262030	Radiology, general
242330	Neuropathology	262060	Diagnostic roentgenology
		262090	Health physics
246000	<u>PEDIATRICS</u>	262120	Medical nuclear physics
246030	Pediatrics, general	262150	Radiological physics
246060	Allergy, pediatric	262180	Radium therapy
246090	Cardiology, pediatric	262210	Roentgen ray and radium
246120	Hematology, pediatric		physics
246150	Neurology, pediatric	262240	Roentgenology
246170	Neonatology	262270	Therapeutic radiology
246999	Pediatrics, all other <sup>1</sup>	262300	Therapeutic roentgenology
		262999	Radiology, all other <sup>1</sup>

<sup>1</sup> Please specify on report form.

Code

266000	<u>SURGERY</u>
266030	Surgery, general
266060	Colon and rectal surgery (Proctology)
266090	Cardiovascular surgery
266120	Neurological surgery
266150	Ophthalmology
266180	Ophthalmic surgery
266210	Otolaryngology
266240	Plastic surgery
266270	Thoracic surgery
266300	Urology
266999	Surgery, all other <sup>1</sup>
270000	<u>TROPICAL MEDICINE</u>
299999	<u>MEDICAL SPECIALTIES,</u> <u>ALL OTHER<sup>1</sup></u>

Please use this code only for a medical specialty that cannot be subsumed under one of the above categories.

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<sup>1</sup> Please specify on report form.

DENTAL SPECIALTIES

Code

318000	Dentistry (General Practitioner)
318010	Oral Surgeon
318015	Endodontist
318020	Orthodontist
318030	Pedodontist
318040	Periodontist
318050	Prosthodontist
318060	Oral Pathologist
318070	Public Health

MATHEMATICS, PHYSICAL SCIENCES,  
AND ENGINEERING

Code

410000      CHEMISTRY

See also the main categories of Biochemistry,  
Biophysics, and Immunology in the Biological  
Sciences.

414000      ENGINEERING

414030      Bioengineering

418000      INFORMATION AND COMPUTER SCIENCES

422000      MATHEMATICS

422030      Biostatistics (Biometry, Statistics, Public  
Health Statistics)

422060      Biomathematics, other than biostatistics

422999      Mathematics, other (non-biologically  
related)<sup>1</sup>

426000      PHYSICS

See also Biophysics in the Biological Sciences  
and Radiology in the Medical Specialties.

439999      PHYSICAL SCIENCES, ALL OTHER<sup>1</sup>

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<sup>1</sup> Please specify on report form.



BEHAVIORAL SCIENCES

Code

510000	<u>ANTHROPOLOGY</u>
512000	<u>DEMOGRAPHY</u>
522000	<u>PSYCHOLOGY</u> Psychopharmacology see 154150 in the Biological Sciences.
522030	Psychology, general
522060	Clinical psychology
522180	Experimental, comparative, and physiological psychology
522999	Psychology, all other <sup>1</sup>
530000	<u>SOCIOLOGY</u>
599999	<u>BEHAVIORAL SCIENCES, ALL OTHER</u> <sup>1</sup>

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<sup>1</sup> Please specify on report form.

ALLIED HEALTH (VETERINARY, ENVIRONMENTAL)

<u>Code</u>			
610000	<u>AUDIOLOGY AND SPEECH THERAPY</u>	662000	<u>OSTEOPATHY</u>
614000	<u>COMMUNITY HEALTH SERVICES</u>	678000	<u>RADIOLOGIC TECHNOLOGY</u>
622000	<u>DIETETICS</u>	682000	<u>VETERINARY SCIENCE</u>
626000	<u>ENVIRONMENTAL HEALTH SCIENCES</u>	682010	Laboratory Animal Medicine
626005	Toxicology (Environmental Agents, general)	682020	Veterinary Public Health
626010	Toxicology, Air Pollutants	682030	Veterinary Toxicology
626015	Toxicology, Food	682040	Veterinary Microbiology
626020	Toxicology, Pesticides	682050	Veterinary Pathology
626025	Toxicology, Metals	682060	Veterinary Surgery
626030	Toxicology, Synthetic Chemicals		
626035	Toxicology, Natural Products	699999	<u>ALLIED HEALTH, ALL OTHER<sup>1</sup></u>
626040	Toxicology, Other Chemicals		
626045	Toxicology, Physical Factors		
626050	Environmental, Biochemistry		
626055	Environmental, Biology		
626060	Environmental, Engineering		
626065	Environmental, Epidemiology		
626070	Environmental, Human Ecology		
626075	Environmental, Medicine		
626080	Environmental, Microbiology		
626085	Environmental, Pathology		
626090	Environmental, Physiology		
626095	Environmental, Statistics		
626100	Other Environmental Sciences		
630000	<u>FOOD SCIENCES AND TECHNOLOGY</u>		
634000	<u>LIBRARY SCIENCE</u>		
650000	<u>NURSING</u>		
658000	<u>OPTOMETRY</u>		

<sup>1</sup> Please specify on report form.

## ADMINISTRATION

Note: Please code departmental heads in their respective fields.

### Code

710030	Administration, general
710060	Education administration
710090	Hospital administration, including Health administration
710120	Research administration
799999	Administration, all other <sup>1</sup>

874999 ALL OTHER<sup>1</sup>

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<sup>1</sup> Please specify on report form.

**ATTACHMENT C**

**LIST OF DENTAL SPECIALTIES**



Alphabetical Listing of  
DENTAL SUBJECT HEADINGS

000001	ABUTMENTS, DENTAL	000040	CARIOSTATIC AGENTS
000002	ACCREDITATION	000041	CEMENTATION
000003	ACRYLIC RESINS	000042	CEPHALOMETRY
000004	ACUPUNCTURE	000043	CHEEK
000005	AGE DETERMINATION BY TEETH	000044	CHEILITIS
000006	ALGINATES	000045	CHERUBISM
000007	ALLOYS	000046	CHEWING GUM
000008	ALVEOLAR PROCESS	000047	CHIN
000009	ALVEOLECTOMY	000048	CHROMIUM-COBALT ALLOYS
000010	ALVEOLOPLASTY	000049	CLEFT LIP
000011	AMELOBLASTOMA	000050	CLEFT PALATE
000012	AMELOBLASTS	000051	CLEFT PALATE PROSTHESIS
000013	AMELOGENESIS	000052	CLEIDOCRANIAL DYSOSTOSIS
000014	AMELOGENESIS IMPERFECTA	000053	COSTEN'S SYNDROME
000015	AMERICAN DENTAL ASSOCIATION	000054	CRANIOFACIAL DYSOSTOSIS
000016	ANALGESIA	000055	CROWNS
000017	ANALGESICS AND ANTIPYRETICS	000056	CRYING CAT SYNDROME
000018	ANESTHESIA, DENTAL	000057	CUSPID
000019	ANESTHESIA, GENERAL	000058	CYTOMEGALOVIRUSES
000020	ANESTHESIA, LOCAL	000059	DEGLUTITION
000021	ANESTHETICS, LOCAL	000060	DEGLUTITION DISORDERS
000022	ANODONTIA	000061	DENTAL AMALGAM
000023	APICOECTOMY	000062	DENTAL ARCH
000024	AUDIC ANALGESIA	000063	DENTAL ASSISTANTS
000025	AVIATION DENTISTRY	000064	DENTAL CALCULUS
000026	AWARDS AND PRIZES	000065	DENTAL CARE PLANS (see under INSURANCE, DENTAL)
000027	BEHCET'S SYNDROME	000066	DENTAL CARIES
000028	BICUSPID	000067	DENTAL CARIES ACTIVITY TESTS
000029	BONDING, DENTAL	000068	DENTAL CARIES SUSCEPTIBILITY
000030	BONE REGENERATION	000069	DENTAL CASTING INVESTMENT
000031	BONE RESORPTION	000070	DENTAL CASTING TECHNIC
000032	BRUXISM	000071	DENTAL CAVITY LINING
000033	BURKITT'S LYMPHOMA	000072	DENTAL CAVITY PREPARATION
000034	BURNING MOUTH SYNDROME	000073	DENTAL CEMENTUM
000035	CALCIUM	000074	DENTAL CLINICS
000036	CALCIUM HYDROXIDE	000075	DENTAL DEPOSITS
000037	CALCIUM METABOLISM DISORDERS	000076	DENTAL ENAMEL
000038	CANDY	000077	DENTAL ENAMEL HYPOPLASIA
000039	CARIOGENIC AGENTS	000078	DENTAL ENAMEL PROTEINS
		000079	DENTAL ENAMEL SOLUBILITY

000080	DENTAL EQUIPMENT	000123	DENTIN SENSITIVITY
000081	DENTAL FISTULA	000124	DENTIN SOLUBILITY
000082	DENTAL HEALTH SURVEYS	000125	DENTINOGENESIS
000083	DENTAL HIGH SPEED EQUIPMENT	000126	DENTINOGENESIS IMPERFECTA
000084	DENTAL HIGH SPEED TECHNIC	000127	DENTIST-PATIENT RELATIONS
000085	DENTAL HYGIENISTS	000129	DENTISTRY, OPERATIVE
000086	DENTAL IMPLANTATION	000130	DENSISTS
000087	DENTAL IMPRESSION MATERIALS	000131	DENTISTS, WOMEN
000088	DENTAL IMPRESSION TECHNIC	000132	DENTITION
000089	DENTAL INSTRUMENTS	000133	DENTURE BASES
000090	DENTAL MATERIALS	000134	DENTURE, COMPLETE
000091	DENTAL MODELS	000135	DENTURE, COMPLETE, IMMEDIATE
000092	DENTAL OCCLUSION	000136	DENTURE, COMPLETE, LOWER
000093	DENTAL OCCLUSION, BALANCED	000137	DENTURE, COMPLETE, UPPER
000094	DENTAL OCCLUSION, CENTRIC	000138	DENTURE LINERS
000095	DENTAL OCCLUSION, TRAUMATIC	000139	DENTURE, PARTIAL
000096	DENTAL OFFICE	000140	DENTURE, PARTIAL, FIXED
000097	DENTAL PINS	000141	DENTURE, PARTIAL, IMMEDIATE
000098	DENTAL PLAQUE	000142	DENTURE, PARTIAL, REMOVABLE
000099	DENTAL PORCELAIN	000143	DENTURE, PARTIAL, TEMPORARY
000100	DENTAL PROPHYLAXIS	000144	DENTURE, PRECISION ATTACHMENT
000101	DENTAL PROSTHESIS	000145	DENTURE REBASING
000102	DENTAL PROSTHESIS DESIGN	000146	DENTURE RETENTION
000103	DENTAL PULP	000147	DENTURE STABILITY
000104	DENTAL PULP AUTOLYSIS	000148	DIAGNOSIS, ORAL
000105	DENTAL PULP CALCIFICATION	000149	DIASTEMA
000106	DENTAL PULP CAPPING	000150	DICTIONARIES, DENTAL
000107	DENTAL PULP CAVITY	000151	DISSERTATIONS, DENTAL
000108	DENTAL PULP DEVITALIZATION	000152	DMF INDEX
000109	DENTAL PULP DISEASES	000153	DOCUMENTATION
000110	DENTAL PULP EXPOSURE	000154	DRY SOCKET
000111	DENTAL PULP GANGRENE		
000112	DENTAL PULP TEST		
000113	DENTAL RECORDS		
000114	DENTAL RESTORATION, PERMANENT	000155	ECONOMICS, DENTAL
000115	DENTAL RESTORATION, TEMPORARY	000156	ECTODERMAL DEFECT, CONGENITAL
000116	DENTAL STRESS ANALYSIS	000157	ECTODERMAL DYSPLASIA
000117	DENTAL TECHNICIANS	000158	EDUCATION, DENTAL
000118	DENTIFRICES	000159	EDUCATION, DENTAL, CONTINUING
000119	DENTIGEROUS CYST	000160	EDUCATION, DENTAL, GRADUATE
000120	DENTIN	000161	EDUCATION, DENTAL, POSTGRADUATE (see EDUCATION, DENTAL, CONTINUING; EDUCATION, DENTAL, GRADUATE)
000121	DENTIN DYSPLASIA		
000122	DENTIN, SECONDARY		

000162	EDUCATION, PREDENTAL	000206	GRANULOMA, LETHAL MIDLINE
000163	ELECTROCALVANISM	000207	GRANULOMA, PERIAPICAL
000164	ENAMEL CUTICLE	000208	GRANULOMA, REPARATIVE GIANT CELL
000165	ENDODONTICS	000209	GROUP PRACTICE, DENTAL
000166	EOSINOPHILIC GRANULOMA	000210	GUTTA-PERCHA
000167	ESTHETICS, DENTAL		
000168	ETHICS, DENTAL	000211	HALITOSIS
000169	FACE	000212	HARDNESS TESTS
000170	FACIAL BONES	000213	HEALTH EDUCATION, DENTAL
000171	FACIAL HEMIATROPHY	000214	HEALTH INSURANCE FOR AGED, TITLE 18
000172	FACIAL INJURIES	000215	HEMORRHAGE, ORAL
000173	FACIAL MUSCLES	000216	HERPES LABIALIS
000174	FACIAL NEOPLASMS	000217	HERPES SIMPLEX
000175	FACIAL NERVE	000218	HISTORY OF DENTISTRY
000176	FACIAL NEURALGIA	000219	HOSPITAL DENTAL SERVICE
000177	FACIAL PARALYSIS	000220	HUTCHINSON'S TEETH
000178	FACULTY, DENTAL	000221	HYPNOSIS, DENTAL
000179	FEES, DENTAL		
000180	FIBROMATOSIS GINGIVAE	000222	INCISOR
000181	FINANCING, ORGANIZED	000223	INDUSTRIAL DENTISTRY
000182	FINGERSUCKING	000224	INLAY CASTING WAX
000183	FISTULA	000225	INLAYS
000184	FLUORIDATION	000226	INSURANCE, DENTAL
000185	FLUORIDES	000227	INSURANCE, LIABILITY
000186	FLUORIDES, TOPICAL	000228	INTERNSHIP AND RESIDENCY
000187	FOCAL INFECTION, DENTAL	000229	INTERPERSONAL RELATIONS
000188	FORENSIC DENTISTRY	000230	INTERPROFESSIONAL RELATIONS
000189	FORMULARIES, DENTAL	000231	INVESTMENTS
000190	GENERAL PRACTICE, DENTAL		
000191	GERIATRIC DENTISTRY	000232	JAW
000192	GINGIVA	000233	JAW ABNORMALITIES
000193	GINGIVAL DISEASES	000234	JAW DISEASES
000194	GINGIVAL HYPERPLASIA	000235	JAW FRACTURES
000195	GINGIVAL HYPERTROPHY	000236	JAW NEOPLASMS
000196	GINGIVAL POLYPS	000237	JAW RELATION RECORD
000197	GINGIVECTOMY	000238	JOURNALISM, DENTAL
000198	GINGIVITIS	000239	JURISPRUDENCE
000199	GINGIVOPLASTY		
000200	GLOSSALGIA	000240	LABIAL FRENUM
000201	GLOSSECTOMY	000241	LABORATORIES
000202	GLOSSITIS	000242	LEGISLATION, DENTAL
000203	GLOSSITIS, BENIGN MIGRATORY	000243	LEONTIASIS OSSIIUM
000204	GOLD	000244	LEUKOPLAKIA, ORAL
000205	GOLD ALLOYS		



000245	LIBRARIES, DENTAL	000288	MOUTH BREATHING
000246	LICENSURE, DENTAL	000289	MOUTH DISEASES
000247	LINGUAL FRENUM	000290	MOUTH, EDENTULOUS
000248	LIP	000291	MOUTH MUCOSA
000249	LIP NEOPLASMS	000292	MOUTH NEOPLASMS
000250	LUDWIG'S ANGINA	000293	MOUTH PROTECTORS
		000294	MOUTH REHABILITATION
000251	MACROSTOMIA	000295	MOUTHWASHES
000252	MALOCCLUSION	000296	MUCOCELE
000253	MALPRACTICE		
000254	MANDIBLE	000297	NAIL BITING
000255	MANDIBULAR CONDYLE	000298	NEOPLASMS, DENTAL TISSUE
000256	MANDIBULAR DISEASES	000299	NOMA
000257	MANDIBULAR FRACTURES	000300	NONODONTOGENIC CYSTS
000258	MANDIBULAR INJURIES		
000259	MANDIBULAR NEOPLASMS	000301	ODONTOBLASTS
000260	MANDIBULAR NERVE	000302	ODONTOCLASTS
000261	MANDIBULAR PROSTHESIS	000303	ODONTOGENESIS
000262	MANDIBULOFACIAL DYSOSTOSIS	000304	ODONTOGENESIS IMPERFECTA
000263	MASTICATION	000305	ODONTOGENIC CYSTS
000264	MASTICATORY MUSCLES	000306	ODONTOGENIC TUMOR
000265	MATERIA ALBA	000307	ORAL HEALTH
000266	MAXILLA	000308	ORAL MANIFESTATIONS
000267	MAXILLARY ARTERY	000309	ORAL SUBMUCOUS FIBROSIS
000268	MAXILLARY DISEASES	000310	OROANTRAL FISTULA
000269	MAXILLARY FRACTURES	000311	OROFACIODIGITAL SYNDROME
000270	MAXILLARY NEOPLASMS	000312	ORTHODONTIC APPLIANCES
000271	MAXILLARY NERVE	000313	ORTHODONTICS
000272	MAXILLARY SINUS	000314	ORTHODONTICS, CORRECTIVE
000273	MAXILLOFACIAL DEVELOPMENT	000315	ORTHODONTICS, PREVENTIVE
000274	MAXILIOFACIAL INJURIES	000316	OSTEOGENESIS
000275	MAXILLOFACIAL PROSTHESIS	000317	OSTEOGENESIS IMPERFECTA
000276	MEDICAL ASSISTANCE		
000277	MEDICAL INDIGENCY	000318	PALATAL NEOPLASMS
000278	MELKERSSON-ROSENTHAL SYNDROME	000319	PALATE
000279	MICROGNATHISM	000320	PALEODONTOLOGY
000280	MILITARY DENTISTRY	000321	PAROTID GLAND
000281	MIXED SALIVARY GLAND TUMOR	000322	PAROTID NEOPLASMS
000282	MOBILE HEALTH UNITS	000323	PAROTITIS
000283	MOLAR	000324	PATHOLOGY, ORAL
000284	MONILIASIS, ORAL	000325	PEDODONTICS
000285	MOTTLED ENAMEL	000326	PERIAPICAL ABSCESS
000286	MOUTH	000327	PERICORONITIS
000287	MOUTH ABNORMALITIES	000328	PERIODONTAL CYST
		000329	PERIODONTAL DISEASES



000330	PERIODONTAL INDEX	000372	STOMATITIS
000331	PERIODONTAL PROSTHESIS	000373	STOMATITIS, APHTHOUS
000332	PERIODONTICS	000374	STUDENTS, DENTAL
000333	PERIODONTITIS	000375	SUBGINGIVAL CURETTAGE
000334	PERIODONTIUM	000376	SUBLINGUAL GLAND
000335	PEUTZ-JEGHERS SYNDROME	000377	SUBMANDIBULAR GLAND
000336	PIERRE ROBIN SYNDROME	000378	SURGERY, ORAL
000337	PLASTER OF PARIS		
000338	PRACTICE MANAGEMENT, DENTAL	000379	TECHNOLOGY, DENTAL
000339	PREVENTIVE DENTISTRY	000380	TEMPOROMANDIBULAR JOINT
000340	PROGNATHISM	000381	TISSUE CONDITIONING (DENTAL)
000341	PROSTHODONTICS	000382	TONGUE
000342	PUBLIC HEALTH DENTISTRY	000383	TONGUE DISEASES
000343	PULPECTOMY	000384	TONGUE, FISSURED
000344	PULPITIS	000385	TONGUE HABITS
000345	PULPOTOMY	000386	TONGUE NEOPLASMS
		000387	TONGUE THRUSTING (see under TONGUE HABITS)
000346	RADICULAR CYST	000388	TOOTH
000347	RADIOGRAPHY, DENTAL	000389	TOOTH ABNORMALITIES
000348	RANULA	000390	TOOTH ABRASION
000349	RETROGNATHISM	000391	TOOTH, ARTIFICIAL
000350	RETROGRADE OBTURATION	000392	TOOTH CALCIFICATION
000351	ROOT CANAL FILLING MATERIAL	000393	TOOTH, DECIDUOUS
000352	ROOT CANAL OBTURATION	000394	TOOTH DISCOLORATION
000353	ROOT CANAL THERAPY	000395	TOOTH DISEASES
000354	ROOT RESORPTION	000396	TOOTH EROSION
		000397	TOOTH ERUPTION
000355	SALIVA	000398	TOOTH ERUPTION, ECTOPIC
000356	SALIVARY DUCT CALCULI	000399	TOOTH EXFOLIATION
000357	SALIVARY GLAND DISEASES	000400	TOOTH EXTRACTION
000358	SALIVARY GLAND FISTULA	000401	TOOTH FRACTURES
000359	SALIVARY GLAND NEOPLASMS	000402	TOOTH GERM
000360	SALIVARY GLANDS	000403	TOOTH, IMPACTED
000361	SALIVATION	000404	TOOTH LUXATION
000362	SCHOOLS, DENTAL	000405	TOOTH MIGRATION
000363	SILIOGRAPHY	000406	TOOTH MOBILITY
000364	SILICATE CEMENT	000407	TOOTH PERMEABILITY
000365	SILICONES	000408	TOOTH REIMPLANTATION
000366	SJOGREN'S SYNDROME	000409	TOOTH RESORPTION
000367	SOCIETIES, DENTAL	000410	TOOTH ROOT
000368	SPACE MAINTENANCE	000411	TOOTH, SUPERNUMERARY
000369	SPECIALTIES, DENTAL	000412	TOOTHACHE
000370	STATE DENTISTRY	000413	TOOTHBRUSHING
000371	STEVENS-JOHNSON SYNDROME	000414	TRIGEMINAL NERVE
		000415	TRIGEMINAL NEURALGIA

000416 UVULA

000417 VERTICAL DIMENSION

000418 VESTIBULOPLASTY

000419 VICENT'S INFECTION

000420 XEROSTOMIA

000421 ZINC OXIDE-EUGENOL CEMENT

000422 ZINC PHOSPHATE CEMENT

000423 ZYGOMA

**ATTACHMENT D**

**FOLLOWUP LETTER**





DEPARTMENT OF HEALTH, EDUCATION, AND WELFARE  
PUBLIC HEALTH SERVICE  
NATIONAL INSTITUTES OF HEALTH  
BETHESDA, MARYLAND 20314

Dear Respondent:

About three weeks ago we sent you a letter and a questionnaire and asked you to participate in a nationwide survey of former participants in the fellowship and graduate research training program of the National Institute of Dental Research.

It is possible that our original mailing did not reach you, or that the pressure of work has kept you from replying. We are therefore sending you another copy of the questionnaire plus a postage-free return envelope, and invite you again to take a few minutes of your time and return the questionnaire to us. The success of this project depends entirely on the goodwill and cooperation of the former trainees and fellows.

Thank you for your cooperation.

Sincerely,

Seymour J. Kreshover, D.D.S., M.D.  
Director  
National Institute of Dental Research

Our records show your name and address as given on the above label. If address is incorrect or if you prefer another mailing address, please change on page 1.

**ATTACHMENT E**  
**CODING MANUAL**



**NCI/NIDR**  
**CODING MANUAL**

NCI/NIDR Coding Manual

CARD 01

<u>Column</u>	<u>Variable</u>	<u>Code</u>
1 - 6	ID No. assigned respondent	11 NCI Trainees 12 NCI Fellows 21 NIDR Trainees 22 NIDR Fellows
7 - 33	Respondents Name	
34 - 38	Grant No.	
39 - 50	Respondents Training Dates	
51 - 52	BLANK	
53 - 56	Respondents Degree	Professional Doctorate PMD Professional Doctorate of Vet.Medicine PDVM Academic PD Baccalaureate ]-PRED Masters ] No degree ND Doctor of Dental Science DDS Doctor of Dental Medicine DMD
57 - 67	Respondents Social Security Number	
79 - 80	Card type	01

<u>Column</u>	<u>Variable</u>	<u>Code</u>
1 - 6	ID No. assigned respondent	
7 - 58	Respondents address	
59 - 71	Respondents town or city	
72 - 73	State Code	
74 - 78	Respondents Zip Code	
79 - 80	Card type	02



NCI/NIDR Coding Manual

CARD 03

<u>Column</u>	<u>Variable</u>	<u>Code</u>
1 - 6	ID No. assigned respondent	11 NCI Trainees 12 NCI Fellows 21 NIDR Trainee 22 NIDR Fellows
7 - 12	1a. Respondent date of birth	actual month 2 digits actual day 2 digits actual year 2 digits
13	1c. Respondents sex	Male 1 Female 2
14- 22	1d. Respondent's Social Security Number	Actual
23	3a. Respondent's employment status	Employed full time 1 Employed part time 2 Unemployed 3 Retired 4 Student 5 Other 6 - 9
24 - 25	3b. (1) Respondent's position title	Use appendix list
26 - 31	(2) Field (1)	Actual - if uncoded use "Code and Name List"
32 - 37	Field (2)	Actual - if uncoded use "Code and Name List"

<u>Column</u>	<u>Variable</u>	<u>Code</u>
38 - 39	(3) Principal employer	Open end code
40 - 41	(4) College or school	Open end code
42 - 43	(5) Branch, department	Open end code
44 - 45	(6) First appointment	Open end code
46-47	(7) Second appointment	Open end code
79-80	Card type	03

CARD 04

<u>Column</u>	<u>Variable</u>	<u>Code</u>
1 - 6	Respondent's ID number	
7 - 48	3c. Current professional activities by percentage of time	
7 - 9	(1) Receiving training	Actual (3 digits)
10 - 12	(2) Teaching/training others in educational institutions/dental	Actual (3 digits)
13 - 15	b1. Dental auxiliaries	Actual (3 digits) (Blank on NCI)
16 - 18	b2. Other health professionals	Actual (3 digits) (Blank on NCI)
19 - 21	(3) Research/Dental	Actual (3 digits)
22 - 24	b1. Other	Actual (3 digits) (Blank on NCI)
25 - 27	(4) Direct Patient Care Institutional	Actual (3 digits)
28 - 30	b.1 Intramural	Actual (3 digits) (Blank on NCI)
31 - 33	Private	Actual (3 digits)
34 - 36	(5) Administration Research	Actual (3 digits)
37 - 39	Educational	Actual (3 digits)
40 - 42	Other	Actual (3 digits)

CARD 04

<u>Column</u>	<u>Variable</u>	<u>Code</u>
43 - 45	(6) Writing or Consulting	Actual (3 digits)
46 - 48	(7) Other	Actual (3 digits)
49 - 72	3d. (Part) If currently involved in research for at least 10% of respondent's time	
49 - 54	(1) Primary research area	Precoded
55- 56	Source of support	Precoded
57 - 62	(2) 2nd Research area	Precoded
63 - 64	Source of support	Precoded
65 - 70	(3) Other descriptors if necessary	Precoded
71 - 72	Source of support	Precoded
79 - 80	Card type	04

<u>Column</u>	<u>Variable</u>	<u>Code</u>
1 - 6	Respondent's ID No.	
7 - 12	3d. Continued - Specific subjects of interest	Use Code Sheet
13 - 18	Specific subjects of interest	Use Code Sheet
19 - 24	Specific subjects of interest	Use Code Sheet
25 - 26	4a. Have you held any position in:	
25	Teaching	Yes 1 No 2
26	Research	Yes 1 No 2 Not Applicable 0
27 - 38	4b. Since the end of your supported training how many years have you spent in positions involving	
27 - 28	Teaching Full-time	Actual (2 digits)
29 - 30	Part - time	Actual (2 digits)
31 - 32	Teaching/Research full-time	Actual (2 digits)
33 - 34	part-time	Actual (2 digits)
35 - 36	Research full-time	Actual (2 digits)
37 - 38	part-time	Actual (2 digits)
39 - 56	5. Basic specialties in order of significance to professional activity	
39 - 44	a	Precoded
45 - 50	b	Precoded
51 - 56	c	Precoded

CARD 06

<u>Column</u>	<u>Variable</u>	<u>Code</u>
1 - 6	Respondent's ID	
7	6. Respondent does/does not have U.S. Board Certification	1 if checked 2 if not checked 0 not applicable
8 - 13	6a (1) Specialty field code of certification	Precoded
14 - 15	Year received	Actual
16 - 21	(?) Specialty field code of 2nd certification	Precoded
22 - 23	Year received	Actual
24 - 29	(3) Foreign certified specialty code	Precoded
30- 31	Year received	Actual
32 - 33	7. Since completion of your NCI/NIDR have you sponsored other trainees or fellows?	If yes, actual number If no, 00
34	8. Did your NCI/NIDR training .....?	Significantly 1 Moderately 3 No 2
35	9. Would you have been able to obtain the same training.....?	Yes 1 No 2 Don't know 3

<u>Column</u>	<u>Variable</u>	<u>Code</u>
36 - 38	10. Number of scientific publications	Actual (3 digits)
39 - 41	Number of publications as senior author	Actual (3 digits)
42 - 56	11. NCI <u>ONLY</u> Are you presently engaged in one or more of the following activities? (15 activities)	1 if Yes 2 if No
57	Additional comments	If comments (favorable) 1 If no comments 2 If comments (unfavorable) 3
79 - 80	Card Type	06

CARD 07

<u>Column</u>	<u>Variable</u>	<u>Code</u>
1 - 6	Respondents ID	
7 - 69	Training Experience	
7 - 27	<u>Current training</u> (1A)	
7 - 10	Date training began	Actual month & year
11 - 14	<u>Blank</u>	
15	Type of training	Academic 1 Research 2 Clinical 3 Academic & Research 4 Academic & Clinical 5 Research & Clinical 6 All Three 7
16 - 17	Source of support	Precoded
18 - 23	Field code	Precoded
24 - 25	Degree to be awarded	See code appendix
26 - 27	Year	Actual
28 - 48	Previous training (1)	
28 - 31	Date training began	Actual month & year
32 - 35	Dates training was completed	Actual month & Year
36	Type of training	Academic 1 Research 2 Clinical 3 Academic & Research 4 Academic & Clinical 5 Research & Clinical 6 All 3 7



CARD 07

<u>Column</u>	<u>Variable</u>	<u>Code</u>
37 - 38	Source of support	Precoded
39 - 44	Field code	Precoded
45 - 46	Degree awarded	See code appendix
47 - 48	Year	Actual
49 - 69	Previous training (2)	
49 - 52	Date training began	Actual month & year
53 - 56	Date training was completed	Actual month & Year
57	Type of training	Academic 1
		Research 2
		Clinical 3
		Academic & Research 4
		Academic & Clinical 5
		Research & Clinical 6
		All three 7
58 - 59	Source of support	Precoded
60 - 65	Field code	Precoded
66 - 67	Degree to be awarded	See code appendix
68 - 69	Year	Actual
79 - 80	Card type	07

CARD 08

<u>Column</u>	<u>Variable</u>	<u>Code</u>
1 - 6	Respondent's ID	
7 - 69	Training Experience (Continued)	
7 - 27	<u>Previous training (3)</u>	
7 - 10	Date training began	Actual month & year
11 - 14	Dates training was completed	Actual month & year
15	Type of training	Academic 1 Research 2 Clinical 3 Academic & Research 4 Academic & Clinical 5 Research & Clinical 6 All Three 7
16 - 17	Source of support	Precoded
18 - 23	Field code	Precoded
24 - 25	Degree to be awarded	See code appendix
26 - 27	Year	Actual
28 - 48	Previous training (4)	
28 - 31	Date training began	Actual month & year
32 - 35	Dates training was completed	Actual month & year
36	Type of training	Academic 1 Research 2 Clinical 3 Academic & Research 4 Academic & Clinical 5 Research & Clinical 6 All Three 7
38	Source of support	Precoded

CARD 08

<u>Column</u>	<u>Variable</u>	<u>Code</u>
39 - 44	Field code	Precoded
45 - 46	Degree awarded	See code appendix
47 - 48	Year	Actual
49 - 69	Previous training (5)	
49 - 52	Date training began	Actual month & year
53 - 56	Date training was completed	Actual month & year
- 57	Type of training	Academic 1 Research 2 Clinical 3 Academic & Research 4 Academic & Clerical 5 Research & Clinical 6 All Three 7
58 - 59	Source of support	Precoded
60 - 65	Field code	Precoded
66 - 67	Degree to be awarded	See code appendix
68 - 69	Year	Actual
79 - 80	Card type	08

CARD 09

<u>Column</u>	<u>Variable</u>	<u>Code</u>
1 - 6	Respondent's ID	
7 - 69	Training Experience	
7 - 27	<u>Previous training (6)</u>	
7 - 10	Date training began	Actual month & year
11 - 14	Date training was completed	Actual month & year
15	Type of training	Academic 1 Research 2 Clinical 3 Academic & Research 4 Academic & Clinical 5 Research & Clinical 6 All Three 7
16 - 17	Source of support	Precoded
18 - 23	Field Code	Precoded
24 - 25	Degree to be awarded	See code appendix
26 - 27	Year	Actual
28 - 48	Previous training (7)	
28 - 31	Date training began	Actual month & year
32 - 35	Dates training was completed	Actual month & year
36	Type of training	Academic 1 Research 2 Clinical 3 Academic & Research 4 Academic & Clinical 5 Research & Clinical 6 All Three 7

CARD 09

<u>Column</u>	<u>Variable</u>	<u>Code</u>
37 - 38	Source of support	Precoded
39 - 44	Field code	Precoded
45 - 46	Degree awarded	See code appendix
47 - 48	Year	Actual
49 - 69	Previous training (8) (if necessary)	
49 - 52	Date training began	Actual month & year
53 - 56	Date training was completed	Actual month & year
57	Type of training	Academic 1 Research 2 Clinical 3 Academic & Research 4 Academic & Clinical 5 Research & Clinical 6 All three 7
58 - 59	Source of support	Precoded
60 - 65	Field code	Precoded
66 - 67	Degree to be awarded	See code appendix
68 - 69	Year	Actual
79 - 80	Card type	09

NCI/NIDR  
CODING MANUAL  
OPEN END CODES

OPEN END CODES

PROJECT # 0303

QUESTION 2(9) DEGREE TO BE AWARDED

- 01. BA
- 02. BS
- 03. MA
- 04. MS
- 05. PHD
- 06. MD
- 07. DDS
- 08. DVM
- 09. DOCTOR OF SCIENCE
- 10. DMD
- 20. OD
- 30. RADIATION THERAPIST
- 40. PHM - DOCTOR OF PHARMACY
- 50. OTHER - SPECIFY

3B TITLE (2 DIGITS)

- 01 STUDENT
- 02 INTERN
- 03 RESIDENT
- 04 FELLOW
- 05 INSTRUCTOR
- 06 ASSISTANT PROFESSOR
- 07 ASSOCIATE PROFESSOR
- 08 PROFESSOR
- 09 ADMINISTRATOR DIRECTOR
- 10 RESEARCH SCIENTIST
- 11 SENIOR SCIENTIST
- 12 ASSISTANT MEMBER
- 13 MEMBER
- 14 RESEARCH ASSOCIATE
- 15 PHYSICIAN (PRIVATE PRACTICE)
- 16 DENTIST (PRIVATE PRACTICE)
- 17 DENTAL SURGEON
- 18 RADIATION THERAPIST
- 3B COLLEGE, SCHOOL, DIVISION, ETC.
- 01 SCHOOL OF MEDICINE
- 02 SCHOOL OF DENTISTRY
- 03 SCHOOL OF PUBLIC HEALTH
- 04 SCHOOL OF HYGIENE

3B PRINCIPAL EMPLOYER

- 01 FEDERAL GOVERNMENT
- 02 STATE OR LOCAL GOVERNMENT
- 03 HOSPITAL (EXCEPT VA)
- 04 VA HOSPITAL
- 05 UNIVERSITY
- 06 RESEARCH INSTITUTE
- 07 FOUNDATION
- 08 PRIVATE INDUSTRY (MEDICAL)
- 09 PRIVATE INDUSTRY (OTHER)
- 10 PRIVATE HEALTH OR SOCIAL AGENCY
- 20 SELF
- 30 OTHER
- 19 PHYSICIAN (HOSPITAL STAFF MEMBER)
- 20 POST-DOCT.
- 30 OTHER
- 40 SPEECH THERAPIST AND AUDIO
- 05 SCHOOL OF VET. MEDICINE
- 06 TEACHING HOSPITAL  
(MED. CENTER OR LAB.)
- 07 OTHER



3B BRANCH DEPARTMENT

01 MEDICINE	21 NEUROLOGY
02 DENTISTRY	22 GYNECOLOGY
03 ANATOMY	23 ONCOLOGY
04 BIOCHEMISTRY	24 OPHTHALMOLOGY
05 BIOLOGY	25 PEDIATRICS
06 BIOPHYSICS	26 PUBLIC HEALTH, PREVENTITIVE MEDICINE
07 BOTANY	27 PSYCHIATRY
08 CYTOLOGY	28 RADIOLOGY
09 ECOLOGY	29 SURGERY
10 EMBRYOLOGY	30 CHEMISTRY
11 ENTOMOLOGY	31 PHYSICS
12 GENETICS	32 ENVIRONMENTAL HEALTH SCIENCES
13 IMMUNOLOGY	33 VETERINARY SCIENCE
14 MICROBIOLOGY	34 ORAL SURGERY
15 NUTRITION	35 ENDODONTISTRY
16 PATHOLOGY	36 ORTHODONTISTRY
17 PHARMACOLOGY	37 PEDODONTISTRY
18 PHYSIOLOGY	38 PERIODONTISTRY
19 DERMATOLOGY	39 PROSTHODONTISTRY
20 GERIATRICS	40 ORAL PATHOLOGY

3B BRANCH DEPARTMENT

50 OTHER BIOLOGICAL SCIENCE

60 OTHER NATURAL SCIENCE

70 OTHER

80 NUCLEAR MEDICINE

81 HEMATOLOGY

85 SPEECH THERAPY AND AUDIOLOGY

90 ORAL BIOLOGY

ATTACHMENT F

CARD LAYOUT

:



Westat Research, Inc. NC1/NIDR - 0303

SERIAL NO.	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40	41	42	43	44	45	46	47	48	49	50	51	52	53	54	55	56	57	58	59	60	61	62	63	64	65	66	67	68	69	70	71	72	73	74	75	76	77	78	79	80	81	82	83	84	85	86	87	88	89	90	91	92	93	94	95	96	97	98	99	00
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ATTACHMENT F  
Page 1 of 3

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CITY																																																																																																				
STATE ZIP CODE																																																																																																				

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estat Research, Inc.

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**ATTACHMENT G**

**ALUMNI LETTER**





Westat, Inc.

11600 Nebel Street  
Rockville, Maryland 20852  
Telephone 301-881-5310

ATTACHMENT G

Page 1 of 1

Under a contract with the National Institute of Dental Research, Westat, Inc. is conducting a survey of all former graduate trainees and fellows who have been supported by the National Institute of Dental Research. We have addresses for most of the former trainees but for some we have not been able to locate an address.

Therefore, we are asking you to supply us, if possible, with the latest address shown in your records for graduates of your institution. Below are the name, date of graduation, and degree (if known) for those graduates for whom we are seeking addresses. A postage-paid reply-envelope is enclosed for your convenience.

Thank you for your cooperation.

Sincerely,

George K. Schueller  
Assistant Project Director

Please supply address(es) for the following:

<u>Name</u>	<u>Year of Graduation</u>	<u>Degree</u>
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ATTACHMENT H

LIST OF DECEASED TRAINEES AND FELLOWS



LIST OF DECEASED NIDR TRAINEES

210081	Behrens, David
210105	Beveridge, Edward E.
210120	Blaine, Helen L.
210485	Gruber, Rolf G.
210660	Knapp, Donald Everett
210854	Miller, Neal C.
210875	Moore, Russell Otto
210978	Podque, William L.
211191	Stanton, Gilbert
211243	Tanzer, Ernest C.
211293	Vaughan, Rodney K.



LIST OF DECEASED NIDR FELLOWS

220152	Durkin, James F.
220169	Fiedler, D. E.
220257	Jackson, S.
220337	McBride, W. D.

