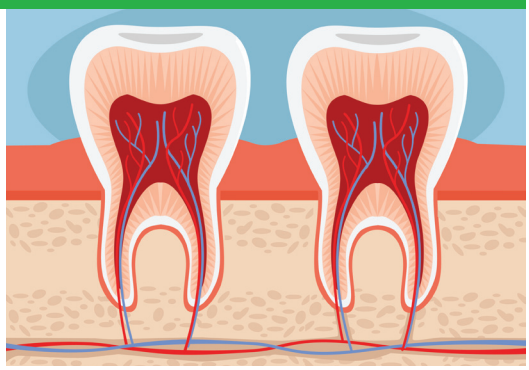
Dental Admission Test (DAT)

Validity Study: 2012-2014 Data



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Introduction

Validity is the most important consideration for any testing program. Validity refers to the degree to which logic and evidence support the use of test scores for making critical decisions (e.g., pass/fail, admission, placement, grouping, etc.) concerning examinees.

This report presents the relationship among pre-dental science and pre-dental total grade point averages (GPAs), DAT scores, and academic and preclinical achievements for a sample of students during their first- and second-year in United States dental schools. Correlation coefficients were used to understand the relationship between admission selection criteria (such as GPAs and DAT scores) and pre-dental success in students' first two years of dental education.

The Dental Admission Testing Program recognizes the importance placed upon the validity of the DAT. The value of a report of this nature is enhanced when the sample of study participants is large and representative of the population under study. In contrast, the value is diminished by low participation and low representativeness. In past reports, participating schools were identified by name. Beginning with the 2002 report, each school is identified by a code number.

Data

A total of 65 United States dental schools were eligible to participate in this study. In order for school data to be included in all analyses, schools needed to provide grades in every area that was requested (i.e., dental school GPAs and pre-dental GPAs). For the first-year class, 52 schools provided comprehensive data in all areas requested, while 13 of the eligible schools did not. Thus, a total of 52 schools participated with respect to this class. For the second-year class, 46 schools provided comprehensive data in all areas requested, four (4) schools provided incomplete data, and 15 of the eligible schools did not provide grades in the areas requested. Thus a total of 50 schools participated with respect to the second-year class.

The report presents findings involving first- and second-year grades in biomedical sciences and pre-clinical dental technique, and first- and second-year grade point averages (GPAs). Students' grades in the first or second year of dental school during the 2012-2013 and 2013-2014 academic years, and students' undergraduate science and pre-dental GPA were submitted by the dental schools participating in this study.

Dental schools received the following instructions describing how to report undergraduate and first- and second-year dental school grades:

Pre-dental Course Grades

Pre-dental Total GPA (4.0 Scale): The grade point average calculated for all courses taken by the student during his/her undergraduate years. The official final recorded Pre-dental Total GPA that the dental school has for the student.

Pre-dental Science GPA (4.0 Scale): The grade point average calculated for all science courses taken by the student during his/her undergraduate years. The official final recorded Pre-dental Science GPA that the dental school has for the student.

Course Grades in the First-Year Class

Biomedical Science Total GPA (4.0 Scale): Please include in this category any courses your dental school considers as 1st Year Biomedical Science courses. These could include such courses as Dental Anatomy, Gross Anatomy, Head and Neck Anatomy, Microscopic Anatomy, Oral Histology, Oral Biology, Oral Diagnosis, Biochemistry, Microbiology, Immunology, Oral Pathology, Pharmacology, Physiology, Genetics, etc.

Preclinical Dental Technique Total GPA (4.0 Scale): Please include in this category any courses your dental school considers as 1st Year Preclinical Dental Technique courses. These could include such courses as Preclinical Operative Technique, Fixed Prosthodontics Technique, Removable Prosthodontics Technique, etc. Please use only Preclinical courses.

1st Year (Only) Cumulative Dental GPA (4.0 Scale): This includes the cumulative Dental GPA of all 1st Year dental courses.

> Recommended method to calculate the 1st Year Biomedical Science or Preclinical Dental Technique Total GPA, as well as the 1st Year (Only) Cumulative Dental GPA: Please use the weight assigned to each course by your school (the weight used in the student's transcript). Take the grade and multiply it by the course weight and determine a "number." Add all the "numbers" and get a total, which is divided by the whole weight.

Course Grades in the Second-Year Class

Biomedical Science Total GPA (4.0 Scale): Please include in this category any courses your dental school considers as 2nd Year Biomedical Science courses. These could include such courses as Dental Anatomy, Gross Anatomy, Head and Neck Anatomy, Microscopic Anatomy, Oral Histology, Oral Biology, Oral Diagnosis, Biochemistry, Microbiology, Immunology, Oral Pathology, Pharmacology, Physiology, Genetics, etc.

Preclinical Dental Technique Total GPA (4.0 Scale): Please include in this category any courses your dental school considers as 2nd Year Preclinical Dental Technique courses. These could include such courses as Preclinical Operative Technique, Fixed Prosthodontics Technique, Removable Prosthodontics Technique, Endodontics Technique, Orthodontics Technique, Preclinical Periodontics, Preclinical Pediatric Dentistry, etc. Please use only Preclinical courses.

2nd Year (Only) Cumulative Dental GPA (4.0 Scale): This includes the cumulative Dental GPA of all second year dental courses. Please include only the second year courses, exclude first year courses from this calculation.

> Recommended method to calculate the 2nd Year Biomedical Science or Preclinical Dental Technique Total GPA, as well as the 2nd Year (Only) Cumulative Dental GPA: Please use the weight assigned to each course by your school (the weight used in the student's transcript). Take the grade and multiply it by the course weight and determine a "number." Add all the "numbers" and get a total, which is divided by the whole weight.

Methods

Pearson product-moment correlation coefficients (r) and squared multiple correlation coefficients (R^2 or R-Squared) were used to understand the relationship between admission selection information—such as undergraduate GPAs (i.e., pre-dental GPA and science GPA) and DAT scores—and student performance criteria (academic and technique performance) in students' first two years of dental education.

Since dental schools use DAT scores and undergraduate GPAs to make admission decisions, applicants who were accepted into dental schools would have higher DAT scores and undergraduate GPAs than those who were not admitted. In other words, the range of DAT scores and undergraduate GPAs in a dental student sample would be restricted, relative to the score range found in the full population of applicants to dental schools. Research has shown that range restriction is a statistical artifact that can reduce the size of observed correlation coefficients. Given this, the observed relationship found within the current dataset would underestimate the relationship found if the entire spectrum of applicants had been admitted to dental school. To address this issue, corrections for range restriction were also implemented. These corrections involved using standard formulas that utilize the ratio of the restricted and unrestricted standard deviation of students' scores on the predictor variables (e.g., DAT scores). The restricted standard deviation would be the standard deviation found in the observed sample, while the unrestricted standard deviation would be the corresponding standard deviation associated with the pool of all potential applicants

in a given year (i.e., all DAT examinations in 2011-2012 or 2010- 2011, for first and second year students, respectively). The corrected validity coefficient estimates the level of association that would have been obtained if students had not been selected on the aforementioned predictors.

Multiple regression was used to produce the presented R^2 values. The R^2 represents the squared multiple correlation between a dependent variable and a set of independent variables. The R^2 is interpreted as the percentage of the total variance in the criteria that can be accounted for by the set of predictors. R^2 ranges from zero to one, with 0 indicating the absence of a relationship and 1 indicating a perfect relationship. In the context of this report, R^2 is the squared multiple correlation between grades/GPAs in first- and second-year dental school (i.e., the dependent variables) and undergraduate GPAs and DAT scores (i.e., the set of independent variables). Separate multiple correlations were obtained for first- and second-year grades/GPAs. R^2 thus provides an index of how well first- and second-year grades or GPAs can be predicted from undergraduate GPAs and DAT scores. More specifically, R^2 is the proportion of the variance in first- and second-year grades or GPAs that can be predicted by a linear combination of pre-dental GPA, science GPA, and DAT scores.

The r and R^2 values reported in the following three sets of findings show the relationships between dental school performance and students' prior achievement as indicated by undergraduate GPAs and DAT scores.

In the first set of findings (Part I), Tables 1 through 3 present r values between 1) first-year dental school grades and 2) undergraduate GPAs and DAT scores. Tables 4 through 6 present squared multiple correlations (R^2) obtained through multiple regressions. These multiple regressions involve the following predictors: undergraduate GPAs, DAT academic scores (reading comprehension, quantitative reasoning, biology, general chemistry, organic chemistry), all DAT scores (DAT academic scores plus the perceptual ability test score), and the full set of all predictors (combination of undergraduate GPAs and all DAT scores).

In the second set of findings (Part II), Tables 7 through 9 present correlations between 1) second-year dental school grades, and 2) undergraduate GPAs and DAT scores, while Tables 10 through 12 present squared multiple correlations (R^2) involving second-year dental school grades and these predictors. The squared multiple correlations were obtained from separate multiple regressions involving the following predictors: undergraduate GPAs, DAT academic scores (reading comprehension, quantitative reasoning, biology, general chemistry, organic chemistry), all DAT scores (DAT academic scores plus the perceptual ability test score), and the full set of all predictors (combination of undergraduate GPAs and all DAT scores).

In the third set of findings (Part III), Table 13 presents the median correlations, both observed (in parentheses) and corrected for range restriction, between DAT scores and first- and second-year dental school grades, while Table 14 summarizes the median r and R^2 involving the ten predictors with dental school performance.

In interpreting the tables presented in this report, the following should be noted:

- Coefficients which are significant at the 0.05 level are flagged with an asterisk and displayed in bold face. At the .05 level, there is a 95% probability that the obtained results are not attributable to chance.
- Numbers reported in rows labeled "# of Correlations" or "# of Multiple R^2s" represent the number of schools for which sufficient data were available to perform the analysis.
- "# of Significant Correlations" and "# of Significant Multiple R^2s" represent the number of schools for which the computed coefficient was significant at the 0.05 level.
- "Percent Significant" is a ratio representing the number of significant coefficients (the second row) divided by the total number of coefficients (the first row). This value is expressed as a percentage.
- "Median Correlation" or "Median R^2" is the value of the corresponding coefficient (i.e., the Correlation or R^2) appearing at the 50th percentile within the distribution of coefficients.

Results and Discussion

<u>PART I: Pearson Product-Moment Correlation Coefficients and Multiple Correlations between First-Year Dental School Grades and Predictors (Undergraduate GPAs and DAT Scores)</u>

Tables 1 through 6 present r and R^2 values involving first-year dental school grades and various individual predictors. These predictors represent either undergraduate GPAs or DAT scores. Undergraduate GPAs include student pre-dental GPA and science GPA. DAT scores include two composite scores: total science and academic average, and six individual DAT scores: quantitative reasoning, reading comprehension, biology, general chemistry, organic chemistry, and perceptual ability. Tables 1 through 3 present correlations between first-year biomedical grades (Table 1), pre-clinical dental technique grades (Table 2), and grade point average (Table 3), and the aforementioned predictors. Tables 4 through 6 present R^2 values involving first-year biomedical grades (Table 4), pre-clinical dental technique grades (Table 5), and grade point average (Table 6), and the aforementioned sets of predictors. The variance accounted for as indicated by the median R-square is presented at the bottom of Tables 4 through 6.

Key results are summarized as follows:

- Pre-dental GPA, science GPA, the DAT academic average score, total science and organic chemistry score appear to have the largest number of significant correlations (percent significant) with biomedical grades in the first year of dental school (Table 1). The biology and general chemistry scores appear to be more strongly related to first-year biomedical grades than are the quantitative reasoning and reading comprehension scores. The perceptual ability score appears to have the lowest level of association with first-year biomedical grades.
- Correlations with first-year pre-clinical dental technique grades (Table 2) are lower than those obtained for first-year biomedical grades (Table 1), with the exception of the perceptual ability score. Of the six individual DAT scores, the perceptual ability score has the strongest relationship with first-year pre-clinical dental technique.
- The pattern of correlations involving first-year grade point average with pre-dental GPA and science GPA (Table 3) is moderately similar to that of first-year biomedical grades (Table 1). Pre-dental GPA, science GPA, the DAT academic average score, and total science score are the strongest predictors of first-year grade point average (Table 3). Among the remaining predictors, biology and organic chemistry scores are most strongly correlated with first-year grade point average.
- In Table 4, the percentage of variance in first-year biomedical grades explained by pre-dental GPA and science GPA is 12% and 13%, respectively, while 17% and 17% of the variance is explained by DAT academic scores and the set of all DAT scores, respectively. The preceding indicates that when the perceptual ability score is added to the set of DAT academic scores as a predictor, the explained variance remains unchanged.
- In Table 5, pre-dental GPA and science GPA appear to be similar in their individual contribution in predicting first-year pre-clinical dental technique grades (accounting for 6% and 5% of the variance, respectively), while 7% and 10% of the variance can be explained by DAT academic scores and all DAT scores, respectively. This indicates that the explained variance is increased by 3% when the perceptual ability score is added to the set of DAT academic scores as a predictor.
- In Table 6, the variance in first-year grade point average that is accounted for by each predictor is as follows: pre-dental GPA (14%), science GPA (14%), DAT academic scores (17%), and all DAT scores (18%). The explained variance is increased by 1% when the perceptual ability score is added to the set of DAT academic scores as a predictor. This pattern is similar to what was found for first-year pre-clinical dental technique grades (Table 5).
- Overall, the multiple correlation using all predictors (pre-dental GPA, science GPA, and all DAT scores) results in the greatest amount of explained variance in first-year biomedical grades (26%), pre-clinical dental technique grades (19%), and grade point average (27%).

<u>PART II: Pearson Product-Moment Correlation Coefficients and Multiple Correlations between Second-Year Dental School Grades and Predictors (Undergraduate GPAs and DAT Scores)</u>

Tables 7 through 12 present r and R^2 values involving second-year dental school grades and various individual predictors. These predictors represent either undergraduate GPAs or DAT scores. Undergraduate GPAs include student pre-dental GPA and science GPA. DAT scores include two composite scores: total science and academic average, and six individual DAT scores: quantitative reasoning, reading comprehension, biology, general chemistry, organic chemistry, and perceptual ability. Tables 7 through 9 present correlations between second-year biomedical

grades (Table 7), pre-clinical dental technique grades (Table 8), and grade point average (Table 8), and the aforementioned predictors. Tables 10 through 12 present R^2 values involving second-year biomedical grades (Table 10), pre-clinical dental technique grades (Table 11), and grade point average (Table 12), and the aforementioned sets of predictors. The variance accounted for as indicated by the median R-square is presented at the bottom of these tables.

Key results are summarized as follows:

- The DAT academic average score and pre-dental GPA, followed by science GPA and the total science score, appear to have the largest number of significant correlations (percent significant) with biomedical grades in the second year of dental school (Table 7). The biology score, general chemistry score, and organic chemistry score appear to be more strongly related to second-year biomedical grades than are the quantitative reasoning and reading comprehension scores. The perceptual ability score appears to have the lowest level of association with second-year biomedical grades.
- Correlations with second-year pre-clinical dental technique grades (Table 8) are lower than those obtained for second-year biomedical grades (Table 7), with the exception of correlations involving perceptual ability scores. Of the six individual DAT scores, the perceptual ability score has the strongest relationship with second-year pre-clinical dental technique grades. The same pattern was seen for the first-year pre-clinical dental technique grades (Table 2).
- The pattern of correlations involving second-year grade point average with pre-dental GPA, science GPA, and two DAT composite scores (Table 9) is somewhat similar to that seen for second-year biomedical grades (Table 7). Pre-dental GPA is the strongest predictors with respect to their level of association with second-year grade point average. Science GPA is also very strongly correlated with second-year grade point average. The DAT academic average and total science scores are correlated with second-year grade point average more strongly than are the remaining DAT scores.
- With respect to second-year biomedical grades, Table 10 indicates that the percentage of variance accounted for by each predictor is as follows: pre-dental GPA (9%), science GPA (10%), DAT academic scores (14%), and all DAT scores (14%). The preceding indicates that when the perceptual ability score is added to the set of DAT academic scores as a predictor, the explained variance remains unchanged.
- With respect to second-year pre-clinical dental technique grades, Table 11 indicates that the percentage of variance accounted for by each predictor is as follows: pre-dental GPA (7%), science GPA (8%), DAT academic scores (11%), and all DAT scores (14%). The preceding indicates that when the perceptual ability score is included with DAT academic scores as a predictor, the explained variance is increased by 3%.
- With respect to second-year grade point average, Table 12 indicates that the percentage of variance accounted for by each predictor is as follows: pre-dental GPA (11%), science GPA (12%), DAT academic scores (14%), and all DAT scores (16%). The preceding indicates that when the perceptual ability score is included with DAT academic scores as a predictor, the explained variance is increased by 2%.
- Overall, the multiple correlation using all predictors (pre-dental GPA, science GPA, and all DAT scores) results in the greatest amount of explained variance in second-year biomedical grades (24%), pre-clinical dental technique grades (23%), and grade point average (28%).

PART III: Summary

Table 13 presents the median observed and corrected correlation coefficients between DAT scores and first- and second-year dental school grades. As shown in this table, the corrected correlation coefficients indicate that DAT scores have higher levels of association with first and second year dental school grades when the impact of range restriction is considered. This was particularly true for the two DAT composite scores.

Table 14 summarizes the median r and median R^2 values presented in the preceding tables. As shown in this table, when all DAT scores and both undergraduate GPAs are included as predictors, the greatest amount of variance in first- and second-year biomedical grades, pre-clinical dental technique grades, and grade point averages is explained. This is to be expected given the requirements of multiple regression. However, it is nonetheless worthwhile to note the incremental contribution associated with the full set of predictors, when comparing the first four columns with the final column in the Median Multiple R-Square Summary section of Table 14.

Table 14 also shows that pre-clinical dental technique grades are predicted less well than biomedical grades and grade point averages in both the first and second years of dental school. Of the six individual DAT scores, the perceptual ability score is the best single predictor of pre-clinical dental technique grades in the first and second year of dental school.

Limitations

The data in this report are based on a sample consisting of dental students from 49 United States dental schools. A limitation of this study is that not all schools reported data in all areas. To the degree that the present sample is not representative of the full population, this would limit the ability to generalize conclusions from this sample to the entire dental school population. Having noted this, it should also be recognized that results reported for individual schools provide extremely valuable information for those participating schools. This information can be used to help optimize school admission practices.

Although validity coefficients were corrected with respect to range restriction and DAT scores, it should be noted that other predictors (i.e., pre-dental GPA and science GPA) and criteria (i.e., biomedical grades, preclinical dental technique grades, and grade point average) also likely suffer from range restriction. Higher DAT scores and higher undergraduate GPAs are associated with higher first- and second-year grades. Given this fact, dental student samples (which consist of these higher scoring individuals) would likely contain fewer students with poor dental grades than it would have had these predictor measures not been utilized in admission decisions.

Range restriction reduces the magnitude of obtained correlation coefficients. Similarly any unreliability that is present in criterion measures would further reduce the magnitude of obtained correlation coefficients. The net impact of these statistical artifacts is that reported correlations likely underestimate the true magnitude of the relationship between the predictors and true dental school performance. In short, the true correlation between DAT scores and dental school performance is likely to be even larger than the values that are currently being reported.

Conclusions

This study found that DAT scores and undergraduate GPAs were strong individual predictors of student performance in dental school. When these predictors were taken as a set, the total contribution of the set represented a more powerful predictor than that obtained when looking at each predictor individually. The criterion-related validity evidence presented in this report is consistent with the results of previous DAT validity studies, and should reassure admission committees of the continued value of including DAT scores as part of their selection criteria. Additionally, as evidenced within this report, addressing the statistical artifact of range restriction involving DAT scores reveals that the true relationship between DAT scores and dental school performance is even higher than has been reported in prior studies.

Table 1

First Year Biomedical Grades Correlated with Pre-Dental GPA, Science GPA and DAT Scores

School Code	Pre-Dental GPA	Science GPA	Academic Average	Total Science	Quanti-tative	Reading Comp.	Biology	General Chem.	Organic Chem.	Percep. Ability
D78	**0.33***	**0.30***	**0.35***	**0.33***	0.21	**0.25***	**0.27***	0.23	**0.30***	**0.26***
D43	**0.57***	**0.55***	**0.46***	**0.38***	**0.41***	**0.21***	**0.24***	**0.37***	**0.32***	**0.38***
D23	0.08	0.10	**0.31***	**0.29***	**0.20***	**0.19***	**0.26***	**0.23***	**0.18***	0.09
D44	**0.39***	**0.46***	**0.39***	**0.40***	**0.28***	0.06	**0.26***	**0.47***	**0.28***	**0.26***
D31	N/Av	N/Av	N/Av	N/Av	N/Av	N/Av	N/Av	N/Av	N/Av	N/Av
D96	**0.52***	**0.63***	**0.44***	**0.51***	0.13	0.09	**0.43***	**0.37***	**0.49***	**0.35***
D67	N/Av	N/Av	N/Av	N/Av	N/Av	N/Av	N/Av	N/Av	N/Av	N/Av
D10	N/Av	N/Av	N/Av	N/Av	N/Av	N/Av	N/Av	N/Av	N/Av	N/Av
D13	**0.20***	**0.32***	**0.21***	**0.22***	**0.22***	-0.02	0.17	**0.18***	**0.19***	**0.19***
D94	**0.44***	**0.42***	**0.44***	**0.44***	**0.28***	**0.21***	**0.32***	**0.38***	**0.38***	0.18
D61	N/Av	N/Av	N/Av	N/Av	N/Av	N/Av	N/Av	N/Av	N/Av	N/Av
D98	**0.38***	**0.41***	**0.33***	**0.34***	**0.20***	**0.19***	**0.30***	**0.17***	**0.29***	0.12
D86	**0.38***	**0.41***	**0.27***	0.14	**0.21***	0.14	0.13	0.09	**0.21***	0.01
D92	**0.52***	**0.53***	**0.50***	**0.45***	**0.25***	**0.30***	**0.40***	**0.40***	**0.37***	**0.18***
D72	**0.33***	**0.32***	**0.40***	**0.40***	**0.26***	**0.18***	**0.33***	**0.33***	**0.31***	**0.24***
D02	**0.44***	**0.42***	**0.41***	**0.42***	**0.21***	**0.17***	**0.37***	**0.31***	**0.29***	0.05
D76	**0.44***	**0.41***	0.19	0.16	0.17	0.16	0.05	0.16	0.12	0.05
D88	**0.15***	**0.13***	**0.14***	0.13	0.07	0.13	0.06	0.04	0.11	0.08
D89	-0.10	-0.06	**0.21***	0.18	0.17	0.11	0.16	0.15	0.12	0.16
D70	0.25	**0.37***	**0.46***	**0.55***	0.11	-0.06	**0.40***	**0.40***	**0.47***	-0.11
D49	**0.25***	**0.28***	**0.35***	**0.32***	**0.20***	**0.11***	**0.24***	**0.27***	**0.26***	**0.17***
D47	N/Av	N/Av	N/Av	N/Av	N/Av	N/Av	N/Av	N/Av	N/Av	N/Av
D90	**0.47***	**0.48***	**0.35***	**0.36***	**0.19***	**0.20***	**0.32***	**0.28***	**0.30***	0.05
D24	**0.39***	**0.37***	0.14	**0.21***	-0.01	0.04	**0.24***	0.11	0.12	0.07
D75	N/Av	N/Av	N/Av	N/Av	N/Av	N/Av	N/Av	N/Av	N/Av	N/Av
D71	**0.37***	**0.37***	**0.42***	**0.38***	**0.24***	**0.26***	**0.31***	**0.33***	**0.30***	0.12
D03	N/Av	N/Av	N/Av	N/Av	N/Av	N/Av	N/Av	N/Av	N/Av	N/Av
D11	0.11	0.15	0.16	**0.21***	0.17	-0.02	0.08	0.14	**0.23***	0.19
D68	**0.18***	**0.23***	**0.34***	**0.28***	**0.22***	**0.16***	**0.25***	**0.29***	**0.17***	**0.16***
D12	**0.20***	**0.21***	**0.38***	**0.34***	**0.23***	**0.29***	**0.31***	**0.30***	**0.26***	**0.23***
D22	**0.41***	**0.40***	**0.33***	**0.29***	0.18	**0.22***	**0.24***	**0.27***	**0.21***	0.12
D19	N/Av	N/Av	N/Av	N/Av	N/Av	N/Av	N/Av	N/Av	N/Av	N/Av
D91	N/Av	N/Av	N/Av	N/Av	N/Av	N/Av	N/Av	N/Av	N/Av	N/Av
D77	**0.38***	**0.39***	**0.35***	**0.35***	**0.24***	**0.21***	**0.29***	**0.34***	**0.23***	-0.01
D06	N/Av	N/Av	N/Av	N/Av	N/Av	N/Av	N/Av	N/Av	N/Av	N/Av
D57	N/Av	N/Av	N/Av	N/Av	N/Av	N/Av	N/Av	N/Av	N/Av	N/Av
D55	**0.40***	**0.38***	**0.53***	**0.51***	**0.32***	**0.30***	**0.39***	**0.48***	**0.41***	0.10
D81	**0.41***	**0.42***	**0.28***	**0.33***	0.04	0.04	**0.27***	**0.30***	**0.27***	0.08
D99	**0.35***	**0.35***	**0.49***	**0.47***	**0.31***	**0.18***	**0.33***	**0.44***	**0.40***	**0.19***
D56	-0.10	-0.11	**0.41***	**0.34***	0.21	**0.35***	0.25	0.22	**0.32***	**0.35***
D93	**0.22***	**0.25***	**0.31***	**0.30***	0.07	**0.22***	**0.30***	**0.21***	**0.25***	0.09
D41	**0.39***	**0.42***	**0.27***	**0.24***	0.11	**0.14***	**0.18***	**0.22***	**0.18***	**0.17***
D38	**0.29***	**0.33***	**0.39***	**0.37***	**0.24***	**0.22***	**0.33***	**0.26***	**0.28***	-0.02
D09	**0.33***	**0.34***	**0.37***	**0.36***	**0.32***	**0.16***	**0.34***	**0.26***	**0.25***	**0.19***
D95	**0.32***	**0.37***	**0.32***	**0.35***	0.08	0.18	0.18	**0.32***	**0.39***	0.13
D65	**0.34***	**0.39***	**0.42***	**0.41***	0.09	**0.25***	**0.37***	**0.31***	**0.27***	0.12
D87	**0.45***	**0.49***	**0.41***	**0.44***	**0.26***	0.04	**0.36***	**0.39***	**0.38***	0.18
D26	**0.26***	**0.33***	**0.46***	**0.44***	**0.29***	**0.21***	**0.31***	**0.41***	**0.36***	0.10
D52	**0.29***	**0.31***	**0.43***	**0.34***	**0.29***	**0.35***	**0.34***	**0.20***	**0.33***	**0.26***
D83	**0.31***	**0.27***	**0.49***	**0.41***	**0.47***	**0.22***	**0.31***	**0.42***	**0.32***	**0.38***
D53	**0.39***	**0.40***	**0.56***	**0.49***	**0.38***	**0.28***	**0.33***	**0.49***	**0.43***	**0.34***
D82	**0.39***	**0.40***	**0.27***	**0.23***	0.09	**0.29***	**0.20***	**0.13***	**0.12***	**0.28***
D84	**0.35***	**0.33***	**0.46***	**0.40***	**0.33***	**0.24***	**0.35***	**0.37***	**0.29***	**0.20***
D36	**0.42***	**0.38***	**0.22***	**0.24***	0.13	0.09	**0.19***	0.13	**0.19***	0.06
D20	**0.35***	**0.36***	**0.27***	**0.33***	-0.08	0.22	**0.24***	**0.25***	**0.35***	-0.03
D97	**0.23***	**0.18***	**0.40***	**0.38***	**0.23***	**0.25***	**0.36***	**0.34***	**0.21***	**0.19***
D33	**0.38***	**0.45***	**0.26***	**0.28***	0.13	0.07	**0.26***	**0.23***	**0.20***	0.06
D62	N/Av	N/Av	N/Av	N/Av	N/Av	N/Av	N/Av	N/Av	N/Av	N/Av
D29	**0.29***	**0.35***	**0.50***	**0.47***	**0.39***	**0.23***	**0.37***	**0.43***	**0.34***	**0.32***
D17	**0.42***	**0.37***	**0.35***	**0.36***	**0.21***	0.17	**0.26***	**0.37***	**0.25***	0.00
D63	**0.34***	**0.31***	**0.28***	**0.29***	0.11	0.19	**0.39***	0.15	0.26	0.16
D39	N/Av	N/Av	N/Av	N/Av	N/Av	N/Av	N/Av	N/Av	N/Av	N/Av
D08	0.07	0.11	0.36*	0.38*	0.23*	0.15*	0.31*	0.27*	0.27*	0.19*
D32	0.39*	0.29*	0.34*	0.37*	0.23*	0.10	0.30*	0.28*	0.32*	0.09
D15	0.26*	0.30*	0.36*	0.37*	0.16	0.06	0.32*	0.32*	0.30*	0.18*
# of Correlations	**52**	**52**	**52**	**52**	**52**	**52**	**52**	**52**	**52**	**52**
# of Significant Correlations	46	47	49	48	31	32	44	42	47	23
Percent Significant	88%	90%	94%	92%	60%	62%	85%	81%	90%	44%
Median Correlation	0.35	0.37	0.36	0.36	0.21	0.19	0.30	0.29	0.28	0.16

* Coefficients significant at the 0.05 level are flagged with an asterisk and displayed in bold.

Table 2

First Year Pre-Clinical Dental Technique Grades
Correlated with Pre-Dental GPA, Science GPA and DAT Scores

School Code	Pre-Dental GPA	Science GPA	Academic Average	Total Science	Quanti-tative	Reading Comp.	Biology	General Chem.	Organic Chem.	Percep. Ability
D78	**0.33***	**0.33***	0.02	0.04	0.01	0.03	-0.07	0.00	0.15	0.22
D43	**0.32***	**0.33***	**0.22***	**0.14***	**0.24***	0.13	0.08	**0.18***	0.13	**0.35***
D23	0.09	**0.13***	0.13	0.06	**0.16***	0.13	0.10	0.09	-0.07	**0.23***
D44	**0.19***	**0.24***	**0.26***	**0.29***	0.14	0.05	**0.25***	**0.32***	**0.19***	**0.32***
D31	N/Av	N/Av	N/Av	N/Av	N/Av	N/Av	N/Av	N/Av	N/Av	N/Av
D96	**0.39***	**0.49***	**0.37***	**0.40***	0.11	0.09	**0.34***	**0.30***	**0.42***	**0.43***
D67	N/Av	N/Av	N/Av	N/Av	N/Av	N/Av	N/Av	N/Av	N/Av	N/Av
D10	N/Av	N/Av	N/Av	N/Av	N/Av	N/Av	N/Av	N/Av	N/Av	N/Av
D13	**0.54***	**0.40***	-0.01	0.00	0.06	-0.10	-0.01	0.05	-0.08	0.05
D94	**0.33***	**0.34***	**0.34***	**0.28***	**0.36***	0.16	0.16	**0.26***	**0.26***	**0.24***
D61	N/Av	N/Av	N/Av	N/Av	N/Av	N/Av	N/Av	N/Av	N/Av	N/Av
D98	**0.32***	**0.34***	**0.25***	**0.23***	**0.17***	**0.21***	**0.24***	0.09	**0.15***	**0.21***
D86	0.15	**0.17***	0.00	-0.09	**0.21***	0.00	-0.07	-0.10	-0.01	0.12
D92	**0.49***	**0.50***	**0.43***	**0.38***	**0.25***	**0.27***	**0.33***	**0.37***	**0.30***	**0.31***
D72	**0.22***	**0.25***	**0.30***	**0.23***	**0.33***	0.13	0.13	**0.21***	**0.21***	**0.52***
D02	**0.44***	**0.43***	**0.29***	**0.18***	**0.22***	**0.23***	0.15	**0.26***	0.07	0.09
D76	**0.23***	0.16	**0.19***	0.14	**0.21***	0.12	0.01	0.17	0.11	0.17
D88	**0.22***	**0.20***	0.09	0.09	0.05	0.09	0.09	0.02	0.09	**0.19***
D89	0.03	0.06	**0.21***	0.17	0.14	0.13	0.16	0.12	0.12	**0.22***
D70	-0.03	0.02	0.05	0.16	-0.20	-0.17	-0.02	0.20	0.16	0.26
D49	**0.15***	**0.17***	**0.22***	**0.21***	**0.17***	0.06	**0.20***	**0.15***	**0.13***	**0.22***
D47	N/Av	N/Av	N/Av	N/Av	N/Av	N/Av	N/Av	N/Av	N/Av	N/Av
D90	**0.35***	**0.36***	**0.21***	**0.21***	**0.15***	0.10	**0.20***	**0.20***	**0.14***	**0.24***
D24	**0.35***	**0.33***	0.08	0.12	-0.05	0.10	**0.19***	0.05	0.04	0.16
D75	N/Av	N/Av	N/Av	N/Av	N/Av	N/Av	N/Av	N/Av	N/Av	N/Av
D71	**0.33***	**0.22***	**0.23***	**0.18***	**0.17***	0.13	**0.20***	**0.19***	0.03	**0.16***
D03	N/Av	N/Av	N/Av	N/Av	N/Av	N/Av	N/Av	N/Av	N/Av	N/Av
D11	0.11	0.15	0.18	**0.22***	0.14	0.04	0.11	0.17	**0.20***	**0.29***
D68	0.05	0.06	-0.02	0.03	-0.04	-0.02	-0.05	0.06	0.05	**0.14***
D12	**0.19***	0.06	0.05	0.05	0.00	0.02	0.08	0.05	0.01	**0.14***
D22	**0.34***	**0.31***	0.13	0.05	**0.23***	0.13	-0.02	0.07	0.04	0.08
D19	N/Av	N/Av	N/Av	N/Av	N/Av	N/Av	N/Av	N/Av	N/Av	N/Av
D91	N/Av	N/Av	N/Av	N/Av	N/Av	N/Av	N/Av	N/Av	N/Av	N/Av
D77	0.03	0.04	0.08	0.09	0.01	0.12	0.02	**0.16***	0.04	0.01
D06	N/Av	N/Av	N/Av	N/Av	N/Av	N/Av	N/Av	N/Av	N/Av	N/Av
D57	N/Av	N/Av	N/Av	N/Av	N/Av	N/Av	N/Av	N/Av	N/Av	N/Av
D55	**0.20***	**0.24***	**0.36***	**0.36***	**0.18***	**0.22***	**0.27***	**0.28***	**0.38***	**0.26***
D81	**0.46***	**0.43***	**0.24***	**0.23***	0.03	**0.23***	**0.26***	0.17	0.16	0.09
D99	**0.18***	**0.21***	**0.25***	**0.26***	**0.20***	0.01	0.11	**0.31***	**0.20***	**0.25***
D56	0.12	0.06	0.15	0.15	0.05	0.13	0.10	0.20	0.00	0.20
D93	0.09	0.11	**0.14***	0.12	0.06	0.07	**0.16***	0.09	**0.13***	**0.20***
D41	**0.35***	**0.38***	**0.18***	**0.13***	0.09	0.11	0.08	**0.17***	0.06	**0.26***
D38	**0.22***	**0.22***	**0.20***	**0.15***	0.11	**0.24***	0.11	0.05	**0.14***	**0.21***
D09	**0.35***	**0.36***	**0.39***	**0.32***	**0.32***	**0.24***	**0.29***	**0.25***	**0.24***	**0.30***
D95	**0.25***	**0.26***	**0.29***	0.19	**0.28***	**0.30***	0.05	0.20	0.20	**0.43***
D65	**0.33***	**0.36***	**0.33***	**0.26***	**0.14***	**0.26***	**0.22***	**0.28***	0.13	**0.21***
D87	**0.33***	**0.39***	**0.38***	**0.38***	**0.23***	0.10	**0.32***	**0.31***	**0.35***	**0.24***
D26	0.05	**0.27***	**0.21***	**0.17***	**0.21***	0.11	0.10	0.16	0.13	0.13
D52	0.02	0.04	**0.18***	**0.17***	0.11	0.11	0.09	0.13	**0.17***	**0.24***
D83	**0.21***	0.14	**0.39***	**0.28***	**0.40***	**0.23***	**0.23***	**0.32***	**0.16***	**0.37***
D53	**0.50***	**0.35***	**0.38***	**0.32***	**0.29***	**0.26***	**0.21***	**0.30***	**0.27***	**0.29***
D82	**0.27***	**0.25***	0.09	0.06	0.05	0.10	0.00	0.05	0.09	**0.34***
D84	**0.25***	**0.21***	**0.25***	0.16	**0.22***	0.16	**0.18***	0.16	0.17	**0.24***
D36	0.09	0.11	0.15	0.14	**0.16***	0.00	0.04	0.12	0.07	**0.27***
D20	**0.39***	0.17	0.20	0.18	0.10	0.08	0.06	0.17	**0.26***	0.08
D97	**0.18***	**0.14***	**0.22***	**0.17***	**0.22***	0.10	**0.15***	**0.14***	**0.13***	**0.31***
D33	**0.36***	**0.43***	**0.19***	**0.16***	0.10	0.09	0.13	0.13	0.13	**0.17***
D62	N/Av	N/Av	N/Av	N/Av	N/Av	N/Av	N/Av	N/Av	N/Av	N/Av
D29	0.06	0.08	**0.16***	**0.15***	0.13	0.11	**0.15***	0.10	0.10	**0.26***
D17	**0.33***	**0.26***	**0.26***	**0.28***	**0.30***	-0.02	**0.21***	**0.27***	**0.20***	0.02
D63	**0.44***	**0.50***	0.15	0.13	0.00	0.13	0.15	-0.02	0.23	**0.31***
D39	N/Av	N/Av	N/Av	N/Av	N/Av	N/Av	N/Av	N/Av	N/Av	N/Av
D08	0.03	0.07	**0.29***	**0.29***	**0.19***	**0.19***	**0.29***	0.14	**0.18***	**0.25***
D32	**0.32***	**0.21***	**0.23***	**0.25***	0.16	0.09	**0.19***	0.15	**0.28***	0.11
D15	0.10	0.01	**0.30***	**0.21***	**0.20***	**0.18***	0.16	**0.18***	**0.20***	**0.25***
# of Correlations	**52**	**52**	**52**	**52**	**52**	**52**	**52**	**52**	**52**	**52**
# of Significant Correlations	37	36	35	31	28	13	22	22	24	37
Percent Significant	71%	69%	67%	60%	54%	25%	42%	42%	46%	71%
Median Correlation	0.24	0.23	0.21	0.17	0.16	0.11	0.15	0.17	0.14	0.24

Table 3

First Year Grade Point Average
Correlated with Pre-Dental GPA, Science GPA and DAT Scores

School Code	Pre-Dental GPA	Science GPA	Academic Average	Total Science	Quanti-tative	Reading Comp.	Biology	General Chem.	Organic Chem.	Percep. Ability
D78	**0.33***	**0.31***	**0.31***	**0.30***	0.16	**0.23***	0.23	0.19	**0.29***	**0.26***
D43	**0.50***	**0.49***	**0.41***	**0.32***	**0.37***	**0.22***	**0.21***	**0.33***	**0.25***	**0.38***
D23	0.07	0.09	**0.29***	**0.26***	**0.20***	**0.21***	**0.23***	**0.23***	0.13	0.12
D44	**0.41***	**0.48***	**0.40***	**0.41***	**0.28***	0.10	**0.28***	**0.48***	**0.28***	**0.30***
D31	N/Av	N/Av	N/Av	N/Av	N/Av	N/Av	N/Av	N/Av	N/Av	N/Av
D96	**0.52***	**0.63***	**0.45***	**0.51***	0.13	0.09	**0.43***	**0.37***	**0.50***	**0.38***
D67	N/Av	N/Av	N/Av	N/Av	N/Av	N/Av	N/Av	N/Av	N/Av	N/Av
D10	N/Av	N/Av	N/Av	N/Av	N/Av	N/Av	N/Av	N/Av	N/Av	N/Av
D13	**0.45***	**0.48***	0.14	0.16	**0.18***	-0.11	0.10	0.17	0.12	**0.21***
D94	**0.44***	**0.42***	**0.44***	**0.40***	**0.34***	**0.21***	**0.28***	**0.36***	**0.36***	**0.23***
D61	N/Av	N/Av	N/Av	N/Av	N/Av	N/Av	N/Av	N/Av	N/Av	N/Av
D98	**0.39***	**0.42***	**0.32***	**0.32***	**0.20***	**0.19***	**0.28***	**0.15***	**0.27***	0.14
D86	**0.35***	**0.39***	**0.21***	0.09	**0.24***	0.09	0.08	0.07	0.16	0.05
D92	**0.56***	**0.57***	**0.51***	**0.45***	**0.27***	**0.32***	**0.39***	**0.41***	**0.38***	**0.21***
D72	**0.35***	**0.35***	**0.42***	**0.38***	**0.33***	**0.21***	**0.29***	**0.32***	**0.31***	**0.40***
D02	**0.45***	**0.42***	**0.37***	**0.37***	**0.18***	**0.18***	**0.34***	**0.29***	**0.24***	0.04
D76	**0.46***	**0.41***	**0.19***	0.16	0.19	0.15	0.03	0.15	0.13	0.07
D88	**0.18***	**0.15***	0.12	0.12	0.06	**0.13***	0.06	0.05	0.10	0.12
D89	0.02	-0.02	**0.22***	**0.24***	0.09	0.05	**0.23***	**0.18***	**0.13***	0.09
D70	0.22	**0.34***	**0.43***	**0.52***	0.06	-0.07	**0.35***	**0.39***	**0.45***	-0.06
D49	**0.24***	**0.27***	**0.33***	**0.31***	**0.20***	**0.12***	**0.23***	**0.25***	**0.24***	**0.19***
D47	N/Av	N/Av	N/Av	N/Av	N/Av	N/Av	N/Av	N/Av	N/Av	N/Av
D90	**0.43***	**0.44***	**0.33***	**0.33***	**0.19***	**0.18***	**0.27***	**0.27***	**0.29***	0.12
D24	**0.40***	**0.38***	0.12	**0.19***	-0.03	0.06	**0.23***	0.10	0.10	0.10
D75	N/Av	N/Av	N/Av	N/Av	N/Av	N/Av	N/Av	N/Av	N/Av	N/Av
D71	**0.36***	**0.33***	**0.40***	**0.35***	**0.25***	**0.26***	**0.27***	**0.32***	**0.28***	0.14
D03	N/Av	N/Av	N/Av	N/Av	N/Av	N/Av	N/Av	N/Av	N/Av	N/Av
D11	0.12	0.16	0.17	**0.22***	0.16	-0.01	0.09	0.15	**0.23***	**0.23***
D68	**0.18***	**0.21***	**0.27***	**0.22***	**0.18***	**0.14***	**0.18***	**0.23***	**0.14***	**0.18***
D12	**0.21***	**0.20***	**0.37***	**0.33***	**0.20***	**0.29***	**0.30***	**0.29***	**0.26***	**0.20***
D22	**0.46***	**0.44***	**0.29***	**0.22***	**0.22***	**0.24***	0.17	**0.22***	0.15	0.10
D19	N/Av	N/Av	N/Av	N/Av	N/Av	N/Av	N/Av	N/Av	N/Av	N/Av
D91	N/Av	N/Av	N/Av	N/Av	N/Av	N/Av	N/Av	N/Av	N/Av	N/Av
D77	**0.40***	**0.42***	**0.36***	**0.35***	**0.27***	**0.24***	**0.29***	**0.33***	**0.22***	0.00
D06	N/Av	N/Av	N/Av	N/Av	N/Av	N/Av	N/Av	N/Av	N/Av	N/Av
D57	N/Av	N/Av	N/Av	N/Av	N/Av	N/Av	N/Av	N/Av	N/Av	N/Av
D55	**0.27***	**0.35***	**0.47***	**0.44***	**0.26***	**0.31***	**0.30***	**0.40***	**0.41***	**0.19***
D81	**0.48***	**0.46***	**0.28***	**0.30***	0.03	0.16	**0.29***	**0.25***	**0.23***	0.10
D99	**0.30***	**0.30***	**0.43***	**0.41***	**0.28***	**0.17***	**0.30***	**0.39***	**0.32***	**0.17***
D56	-0.10	-0.15	**0.40***	**0.37***	0.18	**0.39***	**0.30***	0.18	**0.31***	**0.31***
D93	**0.23***	**0.26***	**0.34***	**0.32***	0.11	**0.21***	**0.30***	**0.26***	**0.26***	**0.15***
D41	**0.39***	**0.42***	**0.27***	**0.23***	**0.15***	**0.13***	**0.16***	**0.23***	**0.16***	**0.22***
D38	**0.29***	**0.33***	**0.39***	**0.34***	**0.23***	**0.30***	**0.30***	**0.24***	**0.25***	0.07
D09	**0.37***	**0.39***	**0.41***	**0.38***	**0.35***	**0.21***	**0.34***	**0.28***	**0.27***	**0.28***
D95	**0.37***	**0.41***	**0.32***	**0.27***	0.14	**0.27***	0.12	**0.28***	**0.30***	0.16
D65	**0.38***	**0.42***	**0.41***	**0.39***	0.11	**0.27***	**0.34***	**0.32***	**0.24***	**0.15***
D87	**0.45***	**0.49***	**0.42***	**0.44***	**0.27***	0.05	**0.37***	**0.39***	**0.39***	0.19
D26	**0.25***	**0.34***	**0.41***	**0.39***	**0.29***	**0.20***	**0.27***	**0.38***	**0.30***	0.13
D52	**0.29***	**0.29***	**0.43***	**0.36***	**0.28***	**0.32***	**0.31***	**0.23***	**0.36***	**0.31***
D83	**0.33***	**0.28***	**0.52***	**0.42***	**0.49***	**0.24***	**0.32***	**0.44***	**0.32***	**0.42***
D53	**0.45***	**0.44***	**0.53***	**0.47***	**0.37***	**0.29***	**0.33***	**0.45***	**0.40***	**0.31***
D82	**0.39***	**0.38***	**0.22***	**0.19***	0.08	**0.24***	**0.14***	0.11	**0.12***	**0.33***
D84	**0.40***	**0.36***	**0.48***	**0.41***	**0.34***	**0.24***	**0.36***	**0.40***	**0.29***	**0.26***
D36	**0.44***	**0.40***	**0.24***	**0.24***	0.13	0.13	**0.18***	0.15	**0.19***	0.10
D20	**0.38***	**0.42***	**0.38***	**0.41***	0.00	**0.28***	**0.29***	**0.30***	**0.41***	0.06
D97	**0.24***	**0.16***	**0.38***	**0.36***	**0.24***	**0.24***	**0.35***	**0.31***	**0.19***	**0.22***
D33	**0.44***	**0.50***	**0.26***	**0.26***	**0.15***	0.08	**0.20***	**0.24***	**0.20***	0.13
D62	N/Av	N/Av	N/Av	N/Av	N/Av	N/Av	N/Av	N/Av	N/Av	N/Av
D29	**0.29***	**0.35***	**0.49***	**0.44***	**0.37***	**0.26***	**0.35***	**0.41***	**0.31***	**0.23***
D17	**0.33***	**0.30***	**0.31***	**0.31***	**0.23***	0.10	**0.22***	**0.32***	**0.25***	0.04
D63	**0.43***	**0.45***	0.23	0.22	0.06	0.17	**0.29***	0.06	0.26	0.26
D39	N/Av	N/Av	N/Av	N/Av	N/Av	N/Av	N/Av	N/Av	N/Av	N/Av
D08	0.07	0.12	**0.36***	**0.36***	**0.23***	**0.18***	**0.30***	**0.23***	**0.27***	**0.25***
D32	**0.37***	**0.26***	**0.29***	**0.32***	**0.20***	0.10	**0.26***	**0.22***	**0.30***	0.10
D15	**0.23***	**0.22***	**0.37***	**0.38***	**0.18***	0.06	**0.35***	**0.33***	**0.30***	**0.18***
# of Correlations	**52**	**52**	**52**	**52**	**52**	**52**	**52**	**52**	**52**	**52**
# of Significant Correlations	46	47	47	47	35	35	44	41	44	28
Percent Significant	88%	90%	90%	90%	67%	67%	85%	79%	85%	54%
Median Correlation	0.37	0.37	0.37	0.34	0.20	0.20	0.29	0.28	0.27	0.18

Table 4

First Year Biomedical Grades Regressed with Pre-Dental GPA, Science GPA, and DAT Scores

School Code	Pre-Dental GPA	Science GPA	DAT Academic Scores	All DAT Scores	All Predictors
D78	**0.15***	**0.11***	0.14	0.16	**0.32***
D43	**0.32***	**0.29***	**0.25***	**0.29***	**0.43***
D23	0.01	0.01	**0.14***	**0.14***	**0.15***
D44	**0.15***	**0.21***	**0.23***	**0.23***	**0.33***
D31	N/Av	N/Av	N/Av	N/Av	N/Av
D96	**0.22***	**0.39***	**0.27***	**0.29***	**0.50***
D67	N/Av	N/Av	N/Av	N/Av	N/Av
D10	N/Av	N/Av	N/Av	N/Av	N/Av
D13	**0.04***	**0.10***	0.07	0.08	**0.19***
D94	**0.20***	**0.18***	**0.21***	**0.21***	**0.28***
D61	N/Av	N/Av	N/Av	N/Av	N/Av
D98	**0.15***	**0.17***	**0.13***	**0.13***	**0.23***
D86	**0.15***	**0.17***	**0.10***	**0.11***	**0.22***
D92	**0.25***	**0.27***	**0.25***	**0.25***	**0.36***
D72	**0.12***	**0.10***	**0.17***	**0.18***	**0.23***
D02	**0.19***	**0.16***	**0.18***	**0.18***	**0.29***
D76	**0.17***	**0.16***	0.04	0.05	**0.23***
D88	**0.02***	0.02	0.03	0.03	0.05
D89	0.01	0.01	0.05	0.06	0.07
D70	0.08	**0.16***	**0.28***	**0.35***	**0.54***
D49	**0.07***	**0.08***	**0.13***	**0.13***	**0.18***
D47	N/Av	N/Av	N/Av	N/Av	N/Av
D90	**0.22***	**0.23***	**0.14***	**0.15***	**0.27***
D24	**0.13***	**0.15***	0.07	0.07	**0.21***
D75	N/Av	N/Av	N/Av	N/Av	N/Av
D71	**0.13***	**0.13***	**0.20***	**0.20***	**0.29***
D03	N/Av	N/Av	N/Av	N/Av	N/Av
D11	0.01	0.02	0.08	0.10	0.12
D68	**0.03***	**0.05***	**0.13***	**0.13***	**0.16***
D12	**0.04***	**0.04***	**0.17***	**0.17***	**0.20***
D22	**0.16***	**0.15***	**0.13***	**0.14***	**0.26***
D19	N/Av	N/Av	N/Av	N/Av	N/Av
D91	N/Av	N/Av	N/Av	N/Av	N/Av
D77	**0.14***	**0.16***	**0.16***	**0.16***	**0.25***
D06	N/Av	N/Av	N/Av	N/Av	N/Av
D57	N/Av	N/Av	N/Av	N/Av	N/Av
D55	**0.17***	**0.14***	**0.30***	**0.31***	**0.37***
D81	**0.18***	**0.19***	**0.13***	**0.13***	**0.24***
D99	**0.12***	**0.12***	**0.24***	**0.24***	**0.28***
D56	0.01	0.01	**0.23***	**0.24***	0.26
D93	**0.05***	**0.06***	**0.13***	**0.13***	**0.17***
D41	**0.15***	**0.18***	**0.07***	**0.08***	**0.21***
D38	**0.09***	**0.12***	**0.17***	**0.20***	**0.25***
D09	**0.11***	**0.11***	**0.17***	**0.17***	**0.22***
D95	**0.11***	**0.15***	**0.19***	**0.20***	**0.31***
D65	**0.11***	**0.15***	**0.21***	**0.21***	**0.29***
D87	**0.23***	**0.25***	**0.26***	**0.26***	**0.39***
D26	**0.07***	**0.11***	**0.23***	**0.24***	**0.27***
D52	**0.09***	**0.09***	**0.23***	**0.23***	**0.28***
D83	**0.10***	**0.08***	**0.27***	**0.29***	**0.32***
D53	**0.15***	**0.16***	**0.37***	**0.37***	**0.43***
D82	**0.16***	**0.16***	**0.12***	**0.16***	**0.28***
D84	**0.06***	**0.05***	**0.18***	**0.19***	**0.22***
D36	**0.18***	**0.15***	0.07	0.07	**0.25***
D20	**0.08***	**0.08***	**0.25***	**0.26***	**0.28***
D97	**0.06***	**0.03***	**0.20***	**0.20***	**0.23***
D33	**0.18***	**0.24***	**0.10***	**0.10***	**0.32***
D62	N/Av	N/Av	N/Av	N/Av	N/Av
D29	**0.08***	**0.12***	**0.28***	**0.29***	**0.36***
D17	**0.17***	**0.13***	**0.16***	**0.16***	**0.27***
D63	**0.12***	**0.09***	0.19	0.19	0.26
D39	N/Av	N/Av	N/Av	N/Av	N/Av
D08	0.01	0.01	**0.14***	**0.14***	**0.15***
D32	**0.23***	**0.16***	**0.14***	**0.15***	**0.30***
D15	**0.07***	**0.10***	**0.16***	**0.16***	**0.24***
# of Multiple R^2s	**52**	**52**	**52**	**52**	**52**
# of Significant Multiple R^2s	46	46	43	43	47
Percent Significant	88%	88%	83%	83%	90%
Median R-Square	0.12	0.13	0.17	0.17	0.26

Table 5

First Year Pre-Clinical Dental Technique Grades Regressed with Pre-Dental GPA, Science GPA, and DAT Scores

School Code	Pre-Dental GPA	Science GPA	DAT Academic Scores	All DAT Scores	All Predictors
D78	**0.13***	**0.13***	0.05	0.10	**0.26***
D43	**0.10***	**0.11***	**0.07***	**0.14***	**0.19***
D23	0.02	**0.03***	0.06	**0.09***	**0.12***
D44	0.02	**0.04***	**0.12***	**0.17***	**0.18***
D31	N/Av	N/Av	N/Av	N/Av	N/Av
D96	**0.13***	**0.24***	**0.18***	**0.27***	**0.38***
D67	N/Av	N/Av	N/Av	N/Av	N/Av
D10	N/Av	N/Av	N/Av	N/Av	N/Av
D13	**0.33***	**0.18***	0.04	0.04	**0.35***
D94	**0.11***	**0.11***	**0.16***	**0.16***	**0.20***
D61	N/Av	N/Av	N/Av	N/Av	N/Av
D98	**0.10***	**0.12***	**0.08***	**0.09***	**0.17***
D86	0.03	**0.04***	0.08	0.08	0.11
D92	**0.22***	**0.23***	**0.19***	**0.21***	**0.30***
D72	**0.05***	**0.06***	**0.12***	**0.29***	**0.32***
D02	**0.20***	**0.18***	**0.13***	**0.13***	**0.26***
D76	**0.05***	**0.04***	0.04	0.05	0.12
D88	**0.05***	**0.04***	0.02	0.05	**0.10***
D89	0.00	0.00	0.05	0.07	0.07
D70	0.00	0.00	0.10	0.23	0.24
D49	**0.03***	**0.03***	**0.06***	**0.08***	**0.10***
D47	N/Av	N/Av	N/Av	N/Av	N/Av
D90	**0.12***	**0.13***	**0.06***	**0.08***	**0.19***
D24	**0.11***	**0.11***	0.06	0.08	**0.22***
D75	N/Av	N/Av	N/Av	N/Av	N/Av
D71	**0.11***	**0.05***	**0.07***	**0.08***	**0.21***
D03	N/Av	N/Av	N/Av	N/Av	N/Av
D11	0.01	0.02	0.05	0.11	0.13
D68	0.00	0.01	0.02	0.04	0.05
D12	**0.04***	0.00	0.01	0.03	**0.10***
D22	**0.15***	**0.12***	0.06	0.06	**0.17***
D19	N/Av	N/Av	N/Av	N/Av	N/Av
D91	N/Av	N/Av	N/Av	N/Av	N/Av
D77	0.00	0.00	0.03	0.03	0.04
D06	N/Av	N/Av	N/Av	N/Av	N/Av
D57	N/Av	N/Av	N/Av	N/Av	N/Av
D55	**0.04***	**0.05***	**0.17***	**0.19***	**0.20***
D81	**0.24***	**0.20***	0.10	0.10	**0.26***
D99	**0.03***	**0.04***	**0.10***	**0.12***	**0.15***
D56	0.01	0.00	0.07	0.08	0.12
D93	0.01	0.02	0.03	0.05	0.07
D41	**0.11***	**0.13***	0.04	**0.09***	**0.20***
D38	**0.05***	**0.05***	**0.07***	**0.09***	**0.13***
D09	**0.12***	**0.14***	**0.17***	**0.21***	**0.27***
D95	**0.07***	**0.08***	**0.18***	**0.32***	**0.37***
D65	**0.11***	**0.13***	**0.14***	**0.14***	**0.23***
D87	**0.13***	**0.16***	**0.18***	**0.19***	**0.27***
D26	0.00	**0.08***	0.06	0.06	**0.20***
D52	0.00	0.00	0.03	0.07	0.07
D83	**0.04***	0.02	**0.19***	**0.22***	**0.24***
D53	**0.25***	**0.12***	**0.19***	**0.19***	**0.38***
D82	**0.07***	**0.06***	0.02	**0.12***	**0.17***
D84	**0.07***	**0.05***	0.09	0.10	**0.14***
D36	0.01	0.01	0.03	0.08	0.09
D20	**0.12***	0.01	0.08	0.08	**0.25***
D97	**0.04***	0.01	**0.06***	**0.11***	**0.14***
D33	**0.14***	**0.19***	0.04	0.06	**0.26***
D62	N/Av	N/Av	N/Av	N/Av	N/Av
D29	0.00	0.00	0.04	**0.08***	0.08
D17	**0.11***	**0.08***	**0.13***	**0.13***	**0.21***
D63	**0.16***	**0.20***	0.11	**0.23***	**0.31***
D39	N/Av	N/Av	N/Av	N/Av	N/Av
D08	0.00	0.00	**0.11***	**0.12***	**0.13***
D32	**0.18***	**0.11***	0.09	0.09	**0.23***
D15	0.01	0.00	0.11*	0.13*	0.18*
# of Multiple R^2s	**52**	**52**	**52**	**52**	**52**
# of Significant Multiple R^2s	36	36	24	29	40
Percent Significant	69%	69%	46%	56%	77%
Median R-Square	0.06	0.05	0.07	0.10	0.19

Table 6

First Year Grade Point Average Regressed with Pre-Dental GPA, Science GPA, and DAT Scores

School Code	Pre-Dental GPA	Science GPA	DAT Academic Scores	All DAT Scores	All Predictors
D78	**0.15***	**0.12***	0.12	0.15	**0.31***
D43	**0.25***	**0.24***	**0.20***	**0.25***	**0.35***
D23	0.01	0.01	**0.12***	**0.12***	**0.13***
D44	**0.16***	**0.22***	**0.23***	**0.24***	**0.35***
D31	N/Av	N/Av	N/Av	N/Av	N/Av
D96	**0.22***	**0.40***	**0.28***	**0.31***	**0.52***
D67	N/Av	N/Av	N/Av	N/Av	N/Av
D10	N/Av	N/Av	N/Av	N/Av	N/Av
D13	**0.25***	**0.27***	0.07	0.09	**0.35***
D94	**0.19***	**0.18***	**0.20***	**0.20***	**0.27***
D61	N/Av	N/Av	N/Av	N/Av	N/Av
D98	**0.15***	**0.17***	**0.12***	**0.12***	**0.22***
D86	**0.13***	**0.17***	0.09	0.09	**0.20***
D92	**0.29***	**0.30***	**0.26***	**0.26***	**0.38***
D72	**0.13***	**0.12***	**0.17***	**0.24***	**0.30***
D02	**0.20***	**0.17***	**0.16***	**0.16***	**0.27***
D76	**0.20***	**0.17***	0.05	0.05	**0.25***
D88	**0.03***	**0.02***	0.03	0.04	0.06
D89	0.00	0.00	0.08	0.08	0.08
D70	0.06	**0.13***	0.24	0.28	**0.44***
D49	**0.07***	**0.08***	**0.13***	**0.13***	**0.18***
D47	N/Av	N/Av	N/Av	N/Av	N/Av
D90	**0.19***	**0.19***	**0.12***	**0.12***	**0.23***
D24	**0.14***	**0.15***	0.07	0.08	**0.23***
D75	N/Av	N/Av	N/Av	N/Av	N/Av
D71	**0.12***	**0.11***	**0.18***	**0.18***	**0.26***
D03	N/Av	N/Av	N/Av	N/Av	N/Av
D11	0.01	0.02	0.07	0.10	0.13
D68	**0.03***	**0.05***	**0.08***	**0.09***	**0.12***
D12	**0.05***	**0.04***	**0.16***	**0.16***	**0.19***
D22	**0.21***	**0.18***	**0.12***	**0.12***	**0.28***
D19	N/Av	N/Av	N/Av	N/Av	N/Av
D91	N/Av	N/Av	N/Av	N/Av	N/Av
D77	**0.16***	**0.18***	**0.17***	**0.17***	**0.27***
D06	N/Av	N/Av	N/Av	N/Av	N/Av
D57	N/Av	N/Av	N/Av	N/Av	N/Av
D55	**0.07***	**0.12***	**0.25***	**0.25***	**0.28***
D81	**0.25***	**0.24***	**0.11***	**0.11***	**0.27***
D99	**0.09***	**0.09***	**0.18***	**0.18***	**0.21***
D56	0.01	0.02	**0.24***	**0.24***	**0.29***
D93	**0.05***	**0.07***	**0.15***	**0.15***	**0.20***
D41	**0.15***	**0.17***	**0.07***	**0.09***	**0.21***
D38	**0.10***	**0.12***	**0.18***	**0.18***	**0.23***
D09	**0.14***	**0.15***	**0.20***	**0.22***	**0.28***
D95	**0.15***	**0.18***	**0.17***	0.18	**0.33***
D65	**0.14***	**0.17***	**0.20***	**0.20***	**0.30***
D87	**0.23***	**0.25***	**0.26***	**0.26***	**0.39***
D26	**0.06***	**0.11***	**0.19***	**0.19***	**0.23***
D52	**0.08***	**0.08***	**0.21***	**0.22***	**0.26***
D83	**0.11***	**0.08***	**0.30***	**0.32***	**0.36***
D53	**0.20***	**0.19***	**0.34***	**0.34***	**0.45***
D82	**0.15***	**0.15***	**0.08***	**0.15***	**0.26***
D84	**0.09***	**0.06***	**0.21***	**0.21***	**0.26***
D36	**0.19***	**0.16***	0.07	0.07	**0.27***
D20	**0.11***	**0.12***	**0.31***	**0.32***	**0.34***
D97	**0.06***	**0.03***	**0.18***	**0.18***	**0.23***
D33	**0.19***	**0.25***	**0.08***	**0.09***	**0.32***
D62	N/Av	N/Av	N/Av	N/Av	N/Av
D29	**0.08***	**0.11***	**0.25***	**0.25***	**0.32***
D17	**0.12***	**0.10***	**0.12***	**0.12***	**0.19***
D63	**0.17***	**0.17***	0.15	0.21	**0.29***
D39	N/Av	N/Av	N/Av	N/Av	N/Av
D08	0.00	0.01	**0.14***	**0.15***	**0.17***
D32	**0.22***	**0.15***	**0.11***	0.11	**0.27***
D15	**0.05***	**0.05***	**0.17***	**0.18***	**0.22***
# of Multiple R^2s	**52**	**52**	**52**	**52**	**52**
# of Significant Multiple R^2s	46	47	41	39	49
Percent Significant	88%	90%	79%	75%	94%
Median R-Square	0.14	0.14	0.17	0.18	0.27

Table 7

Second Year Biomedical Grades
Correlated with Pre-Dental GPA, Science GPA and DAT Scores

School Code	Pre-Dental GPA	Science GPA	Academic Average	Total Science	Quanti-tative	Reading Comp.	Biology	General Chem.	Organic Chem.	Percep. Ability
D78	N/Av	N/Av	0.11	0.10	0.06	0.09	0.06	0.14	0.09	-0.19
D43	**0.60***	**0.57***	**0.44***	**0.37***	**0.21***	**0.27***	**0.26***	**0.33***	**0.33***	**0.28***
D23	0.09	0.12	0.11	0.10	0.07	0.08	0.11	0.14	-0.02	-0.13
D44	**0.29***	**0.30***	**0.25***	**0.32***	0.11	0.07	**0.26***	**0.30***	**0.22***	**0.20***
D31	N/Av	N/Av	N/Av	N/Av	N/Av	N/Av	N/Av	N/Av	N/Av	N/Av
D96	N/Av	N/Av	**0.48***	**0.53***	0.05	0.08	**0.33***	**0.38***	**0.53***	0.12
D67	N/Av	N/Av	N/Av	N/Av	N/Av	N/Av	N/Av	N/Av	N/Av	N/Av
D10	N/Av	N/Av	N/Av	N/Av	N/Av	N/Av	N/Av	N/Av	N/Av	N/Av
D13	**0.66***	**0.67***	**0.32***	**0.32***	0.12	0.04	**0.19***	**0.38***	**0.24***	-0.06
D94	N/Av	N/Av	**0.23***	**0.23***	0.18	0.10	0.17	**0.22***	0.14	-0.06
D61	N/Av	N/Av	N/Av	N/Av	N/Av	N/Av	N/Av	N/Av	N/Av	N/Av
D98	**0.46***	**0.47***	**0.29***	**0.28***	0.13	0.07	**0.18***	**0.24***	**0.30***	0.02
D86	**0.58***	**0.56***	**0.33***	0.17	**0.29***	0.16	0.12	0.11	**0.19***	0.12
D92	**0.66***	**0.66***	**0.54***	**0.44***	**0.43***	**0.35***	**0.31***	**0.47***	**0.28***	**0.23***
D72	**0.40***	**0.35***	**0.36***	**0.31***	**0.21***	**0.26***	**0.24***	**0.27***	**0.30***	0.15
D02	**0.33***	**0.29***	**0.18***	0.12	0.15	**0.20***	**0.20***	0.13	-0.08	0.05
D76	**0.45***	**0.40***	**0.26***	**0.20***	0.12	0.19	**0.22***	0.16	0.15	0.15
D88	**0.24***	**0.19***	**0.18***	**0.17***	0.05	**0.15***	0.10	0.13	**0.15***	-0.01
D89	0.15	-0.04	**0.23***	**0.31***	0.03	-0.07	**0.24***	**0.29***	**0.24***	-0.07
D70	N/Av	N/Av	N/Av	N/Av	N/Av	N/Av	N/Av	N/Av	N/Av	N/Av
D49	**0.33***	**0.34***	**0.30***	**0.30***	**0.16***	**0.10***	**0.26***	**0.23***	**0.22***	0.06
D47	N/Av	N/Av	N/Av	N/Av	N/Av	N/Av	N/Av	N/Av	N/Av	N/Av
D90	**0.47***	**0.46***	**0.39***	**0.41***	**0.24***	0.08	**0.31***	**0.37***	**0.34***	-0.04
D24	**0.34***	**0.34***	**0.33***	**0.32***	0.06	**0.23***	**0.30***	**0.25***	**0.20***	0.05
D75	N/Av	N/Av	N/Av	N/Av	N/Av	N/Av	N/Av	N/Av	N/Av	N/Av
D71	0.12	0.14	**0.29***	**0.25***	**0.16***	**0.28***	**0.27***	**0.23***	0.12	-0.10
D03	N/Av	N/Av	N/Av	N/Av	N/Av	N/Av	N/Av	N/Av	N/Av	N/Av
D11	**0.36***	**0.37***	0.07	0.08	-0.03	0.11	0.06	0.00	0.09	0.05
D68	0.16	0.14	**0.15***	**0.17***	0.01	**0.15***	0.12	**0.14***	0.05	0.01
D12	**0.17***	**0.19***	**0.20***	**0.19***	0.06	**0.18***	**0.27***	0.09	**0.11***	0.02
D22	**0.44***	**0.38***	**0.35***	**0.32***	**0.28***	**0.27***	0.16	**0.25***	**0.20***	0.03
D19	N/Av	N/Av	N/Av	N/Av	N/Av	N/Av	N/Av	N/Av	N/Av	N/Av
D91	N/Av	N/Av	N/Av	N/Av	N/Av	N/Av	N/Av	N/Av	N/Av	N/Av
D77	**0.25***	**0.23***	**0.29***	**0.28***	**0.18***	**0.17***	**0.21***	**0.27***	**0.21***	**0.18***
D06	N/Av	N/Av	N/Av	N/Av	N/Av	N/Av	N/Av	N/Av	N/Av	N/Av
D57	N/Av	N/Av	N/Av	N/Av	N/Av	N/Av	N/Av	N/Av	N/Av	N/Av
D55	**0.27***	0.14	**0.39***	**0.35***	**0.25***	**0.23***	**0.31***	**0.32***	**0.31***	0.05
D81	**0.33***	**0.31***	**0.19***	0.10	0.17	**0.19***	0.02	0.14	0.05	0.01
D99	**0.44***	**0.37***	**0.33***	**0.29***	**0.18***	**0.22***	**0.28***	**0.26***	**0.19***	0.02
D56	N/Av	N/Av	**0.40***	**0.39***	0.25	0.16	**0.39***	**0.38***	0.22	0.02
D93	**0.22***	**0.28***	**0.21***	**0.18***	0.13	**0.15***	**0.20***	0.11	**0.16***	0.03
D41	**0.36***	**0.39***	**0.34***	**0.28***	**0.19***	**0.16***	**0.28***	**0.21***	**0.23***	**0.19***
D38	**0.26***	**0.31***	**0.27***	**0.32***	**0.17***	0.04	**0.24***	**0.19***	**0.24***	-0.02
D09	**0.33***	**0.32***	**0.26***	**0.24***	**0.19***	0.12	**0.22***	**0.15***	**0.21***	0.03
D95	0.15	0.08	0.20	0.10	0.11	0.20	0.18	0.05	0.09	-0.08
D65	**0.30***	**0.39***	0.07	0.06	0.01	0.03	0.02	0.02	0.10	-0.03
D87	**0.37***	**0.46***	**0.29***	**0.28***	0.13	0.20	0.16	**0.30***	**0.26***	**0.26***
D26	**0.30***	**0.31***	**0.42***	**0.35***	**0.28***	**0.26***	**0.25***	**0.36***	**0.26***	-0.01
D52	**0.22***	0.21	**0.30***	**0.20***	**0.21***	**0.37***	**0.21***	0.11	0.12	0.11
D83	**0.37***	**0.31***	**0.53***	**0.47***	**0.45***	**0.24***	**0.41***	**0.46***	**0.37***	**0.32***
D53	**0.41***	**0.30***	**0.20***	**0.21***	0.16	0.02	0.06	**0.27***	0.15	0.04
D82	**0.41***	**0.41***	**0.21***	**0.18***	**0.19***	**0.14***	**0.15***	0.11	0.08	**0.28***
D84	**0.27***	**0.25***	**0.23***	0.13	**0.13***	**0.18***	0.11	0.11	**0.14***	0.09
D36	**0.31***	**0.25***	**0.22***	**0.20***	**0.20***	0.00	**0.23***	0.16	0.07	0.03
D20	0.21	0.22	**0.28***	**0.31***	0.04	0.21	**0.27***	**0.30***	**0.24***	0.15
D97	**0.20***	0.14	**0.39***	**0.35***	**0.22***	**0.27***	**0.31***	**0.32***	**0.17***	**0.15***
D33	0.11	**0.25***	0.09	0.15	-0.06	0.10	**0.19***	0.12	0.03	-0.06
D62	N/Av	N/Av	N/Av	N/Av	N/Av	N/Av	N/Av	N/Av	N/Av	N/Av
D29	**0.27***	**0.38***	**0.45***	**0.39***	**0.30***	**0.23***	**0.30***	**0.39***	**0.28***	0.04
D17	**0.27***	**0.26***	**0.23***	0.15	**0.22***	**0.21***	0.09	0.14	0.10	0.14
D63	N/Av	N/Av	N/Av	N/Av	N/Av	N/Av	N/Av	N/Av	N/Av	N/Av
D39	N/Av	N/Av	N/Av	N/Av	N/Av	N/Av	N/Av	N/Av	N/Av	N/Av
D08	**0.32***	**0.34***	**0.18***	**0.17***	0.11	0.12	**0.16***	0.11	0.13	-0.01
D32	**0.50***	**0.41***	**0.42***	**0.46***	0.13	0.11	**0.27***	**0.39***	**0.40***	**0.24***
D15	**0.32***	**0.34***	**0.20***	**0.21***	0.07	0.11	0.16	**0.17***	**0.17***	-0.01
# of Correlations	**46**	**46**	**50**	**50**	**50**	**50**	**50**	**50**	**50**	**50**
# of Significant Correlations	39	37	44	39	23	25	34	31	31	10
Percent Significant	85%	80%	88%	78%	46%	50%	68%	62%	62%	20%
Median Correlation	0.32	0.31	0.28	0.27	0.16	0.16	0.22	0.23	0.19	0.04

Table 8

Second Year Pre-Clinical Dental Technique Grades
Correlated with Pre-Dental GPA, Science GPA and DAT Scores

School Code	Pre-Dental GPA	Science GPA	Academic Average	Total Science	Quanti-tative	Reading Comp.	Biology	General Chem.	Organic Chem.	Percep. Ability
D78	N/Av	N/Av	0.08	0.04	0.09	0.07	0.01	0.03	0.12	-0.17
D43	**0.39***	**0.38***	**0.30***	**0.20***	**0.28***	**0.17***	**0.17***	**0.22***	**0.17***	**0.36***
D23	0.14	0.18	-0.07	-0.08	0.03	-0.07	-0.01	-0.05	-0.14	**0.21***
D44	**0.27***	**0.31***	**0.23***	**0.28***	**0.18***	-0.01	**0.21***	**0.23***	**0.22***	**0.26***
D31	N/Av	N/Av	N/Av	N/Av	N/Av	N/Av	N/Av	N/Av	N/Av	N/Av
D96	N/Av	N/Av	**0.26***	**0.29***	0.08	-0.06	0.16	0.17	**0.33***	**0.31***
D67	N/Av	N/Av	N/Av	N/Av	N/Av	N/Av	N/Av	N/Av	N/Av	N/Av
D10	N/Av	N/Av	N/Av	N/Av	N/Av	N/Av	N/Av	N/Av	N/Av	N/Av
D13	**0.47***	**0.36***	**0.20***	0.12	0.15	0.03	0.10	0.13	0.14	**0.25***
D94	N/Av	N/Av	0.12	0.12	0.19	-0.01	0.08	0.18	0.05	-0.03
D61	N/Av	N/Av	N/Av	N/Av	N/Av	N/Av	N/Av	N/Av	N/Av	N/Av
D98	**0.47***	**0.48***	**0.26***	**0.22***	0.14	0.13	0.14	**0.16***	**0.27***	0.09
D86	**0.57***	**0.50***	**0.31***	**0.21***	0.09	**0.21***	**0.19***	0.16	**0.22***	0.05
D92	**0.45***	**0.47***	**0.34***	**0.32***	**0.24***	**0.18***	**0.25***	**0.30***	**0.22***	**0.35***
D72	**0.26***	**0.25***	**0.30***	**0.25***	**0.28***	0.13	**0.19***	**0.22***	**0.24***	**0.28***
D02	**0.47***	**0.35***	**0.21***	0.11	0.16	**0.27***	**0.17***	0.13	-0.08	0.11
D76	**0.44***	**0.43***	0.14	0.11	**0.24***	0.05	0.10	0.14	0.05	**0.27***
D88	**0.29***	**0.23***	**0.14***	0.13	0.03	**0.14***	0.13	0.08	0.10	**0.20***
D89	0.12	0.01	0.10	0.14	-0.02	-0.04	0.08	0.16	0.13	-0.06
D70	N/Av	N/Av	N/Av	N/Av	N/Av	N/Av	N/Av	N/Av	N/Av	N/Av
D49	**0.24***	**0.24***	**0.14***	**0.12***	**0.15***	0.00	0.07	**0.13***	**0.10***	**0.23***
D47	N/Av	N/Av	N/Av	N/Av	N/Av	N/Av	N/Av	N/Av	N/Av	N/Av
D90	**0.35***	**0.34***	**0.25***	**0.23***	**0.15***	0.03	0.12	**0.26***	**0.26***	**0.21***
D24	**0.44***	**0.45***	**0.25***	**0.24***	0.02	**0.19***	**0.27***	0.14	0.13	**0.20***
D75	N/Av	N/Av	N/Av	N/Av	N/Av	N/Av	N/Av	N/Av	N/Av	N/Av
D71	0.15	0.20	0.11	0.04	0.11	**0.20***	0.02	0.07	-0.01	0.11
D03	N/Av	N/Av	N/Av	N/Av	N/Av	N/Av	N/Av	N/Av	N/Av	N/Av
D11	0.28	**0.34***	-0.04	0.05	-0.11	-0.03	0.05	0.00	0.02	**0.32***
D68	0.11	0.13	**0.14***	0.12	0.04	**0.16***	0.05	**0.14***	0.03	**0.14***
D12	**0.21***	**0.17***	**0.11***	0.10	0.06	0.06	**0.11***	0.09	0.04	**0.22***
D22	0.15	0.24	0.09	0.03	**0.22***	0.08	0.03	0.01	-0.04	0.09
D19	N/Av	N/Av	N/Av	N/Av	N/Av	N/Av	N/Av	N/Av	N/Av	N/Av
D91	N/Av	N/Av	N/Av	N/Av	N/Av	N/Av	N/Av	N/Av	N/Av	N/Av
D77	0.06	0.06	0.12	0.04	0.11	0.13	0.03	0.13	0.01	**0.23***
D06	N/Av	N/Av	N/Av	N/Av	N/Av	N/Av	N/Av	N/Av	N/Av	N/Av
D57	N/Av	N/Av	N/Av	N/Av	N/Av	N/Av	N/Av	N/Av	N/Av	N/Av
D55	**0.29***	-0.02	**0.19***	**0.16***	0.06	**0.20***	**0.23***	0.14	0.05	0.07
D81	**0.44***	**0.41***	0.17	0.10	0.16	0.13	0.08	0.14	0.03	0.13
D99	**0.33***	**0.32***	**0.30***	**0.22***	**0.24***	**0.21***	**0.19***	**0.26***	0.15	**0.22***
D56	N/Av	N/Av	**0.26***	**0.31***	0.24	-0.07	**0.34***	**0.31***	0.14	**0.40***
D93	0.13	0.14	0.08	0.06	0.08	0.08	0.05	0.09	0.03	0.12
D41	**0.39***	**0.41***	**0.25***	**0.14***	**0.15***	**0.20***	**0.16***	0.12	**0.14***	**0.22***
D38	**0.20***	**0.27***	**0.18***	**0.21***	0.11	-0.04	**0.19***	**0.14***	**0.15***	0.04
D09	**0.29***	**0.34***	**0.23***	**0.24***	0.11	0.14	**0.24***	**0.16***	**0.16***	**0.24***
D95	0.23	0.28	0.15	0.04	0.10	0.19	0.18	-0.10	0.11	0.09
D65	**0.30***	**0.37***	0.09	0.05	-0.01	0.11	0.01	0.04	0.09	0.10
D87	0.23	**0.44***	**0.23***	0.20	0.15	0.06	0.09	**0.26***	**0.21***	**0.33***
D26	**0.23***	**0.25***	**0.25***	**0.17***	**0.21***	**0.21***	0.13	**0.21***	0.11	0.06
D52	0.13	0.19	**0.16***	**0.17***	0.15	0.06	0.07	**0.17***	0.12	**0.40***
D83	**0.36***	**0.31***	**0.50***	**0.43***	**0.47***	**0.25***	**0.37***	**0.41***	**0.32***	**0.42***
D53	**0.35***	0.11	0.16	0.10	**0.22***	0.07	-0.03	0.18	0.11	**0.25***
D82	**0.33***	**0.28***	0.06	0.08	0.08	-0.04	0.03	0.08	0.02	**0.30***
D84	**0.20***	**0.20***	**0.23***	**0.17***	**0.18***	0.03	**0.14***	**0.16***	**0.17***	**0.24***
D36	**0.34***	**0.29***	-0.01	-0.03	0.12	0.00	0.02	-0.01	-0.12	**0.20***
D20	0.25	0.25	**0.34***	**0.32***	0.13	**0.30***	0.22	**0.28***	**0.30***	0.17
D97	**0.20***	0.15	**0.22***	**0.15***	**0.15***	**0.13***	**0.18***	0.12	0.08	0.10
D33	**0.28***	**0.42***	0.12	0.12	0.10	**0.17***	0.15	0.03	0.01	**0.17***
D62	N/Av	N/Av	N/Av	N/Av	N/Av	N/Av	N/Av	N/Av	N/Av	N/Av
D29	**0.26***	**0.33***	**0.22***	**0.20***	0.14	0.03	**0.22***	**0.19***	0.12	**0.36***
D17	0.20	0.15	0.14	0.04	**0.19***	0.18	-0.03	0.12	-0.03	0.16
D63	N/Av	N/Av	N/Av	N/Av	N/Av	N/Av	N/Av	N/Av	N/Av	N/Av
D39	N/Av	N/Av	N/Av	N/Av	N/Av	N/Av	N/Av	N/Av	N/Av	N/Av
D08	0.17	0.20	**0.26***	**0.18***	**0.26***	**0.19***	**0.23***	0.07	0.13	**0.32***
D32	**0.54***	**0.36***	**0.34***	**0.38***	0.08	0.09	0.13	**0.35***	**0.41***	**0.26***
D15	0.22	0.23	**0.24***	**0.28***	0.08	0.10	**0.26***	**0.21***	**0.17***	0.13
# of Correlations	**46**	**46**	**50**	**50**	**50**	**50**	**50**	**50**	**50**	**50**
# of Significant Correlations	31	30	32	26	17	17	20	21	18	31
Percent Significant	67%	65%	64%	52%	34%	34%	40%	42%	36%	62%
Median Correlation	0.28	0.28	0.20	0.15	0.14	0.11	0.13	0.14	0.12	0.21

Table 9

Second Year Grade Point Average
Correlated with Pre-Dental GPA, Science GPA and DAT Scores

School Code	Pre-Dental GPA	Science GPA	Academic Average	Total Science	Quanti-tative	Reading Comp.	Biology	General Chem.	Organic Chem.	Percep. Ability
D78	N/Av	N/Av	0.15	0.12	0.12	0.10	0.05	0.11	0.17	-0.10
D43	**0.46***	**0.42***	**0.40***	**0.29***	**0.34***	**0.21***	**0.18***	**0.30***	**0.27***	**0.36***
D23	0.13	0.17	0.06	0.03	0.09	0.05	0.07	0.09	-0.08	-0.01
D44	**0.30***	**0.32***	**0.27***	**0.34***	0.14	0.04	**0.27***	**0.30***	**0.25***	**0.24***
D31	N/Av	N/Av	N/Av	N/Av	N/Av	N/Av	N/Av	N/Av	N/Av	N/Av
D96	N/Av	N/Av	**0.43***	**0.48***	0.07	0.04	**0.29***	**0.34***	**0.49***	0.18
D67	N/Av	N/Av	N/Av	N/Av	N/Av	N/Av	N/Av	N/Av	N/Av	N/Av
D10	N/Av	N/Av	N/Av	N/Av	N/Av	N/Av	N/Av	N/Av	N/Av	N/Av
D13	**0.71***	**0.67***	**0.34***	**0.28***	**0.20***	0.08	**0.21***	**0.34***	**0.20***	0.11
D94	N/Av	N/Av	**0.24***	**0.24***	**0.21***	0.05	**0.21***	**0.24***	0.14	0.02
D61	N/Av	N/Av	N/Av	N/Av	N/Av	N/Av	N/Av	N/Av	N/Av	N/Av
D98	**0.49***	**0.49***	**0.28***	**0.26***	0.14	0.11	**0.16***	**0.20***	**0.30***	0.06
D86	**0.59***	**0.58***	**0.38***	**0.23***	**0.24***	**0.24***	0.16	**0.19***	**0.25***	**0.19***
D92	**0.58***	**0.59***	**0.49***	**0.41***	**0.40***	**0.32***	**0.27***	**0.42***	**0.27***	**0.27***
D72	**0.35***	**0.33***	**0.35***	**0.29***	**0.27***	**0.21***	**0.23***	**0.25***	**0.28***	**0.23***
D02	**0.45***	**0.36***	**0.23***	0.13	**0.18***	**0.27***	**0.19***	0.14	-0.06	0.12
D76	**0.51***	**0.48***	**0.21***	0.18	0.17	0.17	0.17	0.17	0.10	**0.24***
D88	**0.22***	0.13	0.12	0.10	0.02	**0.17***	0.07	0.05	0.07	0.08
D89	0.02	-0.10	0.07	0.09	0.04	-0.05	0.06	**0.15***	0.06	0.03
D70	N/Av	N/Av	N/Av	N/Av	N/Av	N/Av	N/Av	N/Av	N/Av	N/Av
D49	**0.34***	**0.34***	**0.26***	**0.26***	**0.17***	0.09	**0.21***	**0.22***	**0.19***	**0.13***
D47	N/Av	N/Av	N/Av	N/Av	N/Av	N/Av	N/Av	N/Av	N/Av	N/Av
D90	**0.45***	**0.45***	**0.31***	**0.33***	**0.19***	0.00	**0.22***	**0.31***	**0.32***	0.06
D24	**0.42***	**0.44***	**0.30***	**0.29***	0.04	**0.22***	**0.30***	**0.19***	**0.17***	0.15
D75	N/Av	N/Av	N/Av	N/Av	N/Av	N/Av	N/Av	N/Av	N/Av	N/Av
D71	0.15	**0.22***	**0.37***	**0.30***	**0.23***	**0.30***	**0.27***	**0.32***	**0.19***	0.09
D03	N/Av	N/Av	N/Av	N/Av	N/Av	N/Av	N/Av	N/Av	N/Av	N/Av
D11	**0.30***	**0.36***	-0.02	0.06	-0.10	0.00	0.05	0.00	0.04	**0.29***
D68	**0.19***	**0.20***	**0.18***	**0.19***	0.07	0.11	**0.14***	**0.17***	0.08	0.11
D12	**0.24***	**0.26***	**0.24***	**0.21***	**0.12***	**0.19***	**0.26***	**0.13***	**0.12***	0.08
D22	**0.44***	**0.40***	**0.32***	**0.28***	**0.27***	**0.29***	0.14	**0.21***	0.16	0.02
D19	N/Av	N/Av	N/Av	N/Av	N/Av	N/Av	N/Av	N/Av	N/Av	N/Av
D91	N/Av	N/Av	N/Av	N/Av	N/Av	N/Av	N/Av	N/Av	N/Av	N/Av
D77	**0.41***	**0.41***	**0.31***	**0.28***	**0.19***	**0.26***	**0.27***	**0.22***	**0.20***	**0.26***
D06	N/Av	N/Av	N/Av	N/Av	N/Av	N/Av	N/Av	N/Av	N/Av	N/Av
D57	N/Av	N/Av	N/Av	N/Av	N/Av	N/Av	N/Av	N/Av	N/Av	N/Av
D55	**0.35***	0.14	**0.34***	**0.29***	**0.20***	**0.25***	**0.31***	**0.26***	**0.22***	0.05
D81	**0.43***	**0.40***	**0.19***	0.11	**0.18***	0.17	0.06	0.15	0.05	0.08
D99	**0.47***	**0.41***	**0.43***	**0.37***	**0.25***	**0.28***	**0.33***	**0.34***	**0.26***	**0.17***
D56	N/Av	N/Av	**0.39***	**0.42***	**0.32***	0.05	**0.44***	**0.37***	0.24	**0.32***
D93	**0.30***	**0.29***	0.07	0.03	0.09	**0.14***	0.06	0.03	0.01	-0.03
D41	**0.35***	**0.37***	**0.25***	**0.15***	**0.14***	**0.21***	**0.17***	**0.14***	**0.13***	**0.16***
D38	**0.29***	**0.33***	**0.30***	**0.34***	**0.19***	0.05	**0.26***	**0.23***	**0.24***	0.02
D09	**0.37***	**0.37***	**0.30***	**0.30***	**0.18***	**0.16***	**0.29***	**0.21***	**0.20***	**0.19***
D95	0.24	0.26	0.13	0.04	0.16	0.06	0.16	-0.08	0.12	0.10
D65	**0.32***	**0.37***	**0.26***	**0.26***	0.06	0.13	**0.23***	**0.21***	**0.20***	0.12
D87	**0.34***	**0.51***	**0.28***	**0.25***	0.16	0.14	0.13	**0.30***	**0.25***	**0.29***
D26	**0.28***	**0.30***	**0.36***	**0.27***	**0.26***	**0.26***	**0.20***	**0.30***	**0.20***	0.03
D52	**0.25***	**0.26***	**0.30***	**0.21***	**0.22***	**0.34***	**0.18***	0.15	0.13	**0.21***
D83	**0.36***	**0.31***	**0.48***	**0.41***	**0.45***	**0.26***	**0.34***	**0.40***	**0.31***	**0.36***
D53	**0.53***	**0.37***	**0.19***	0.16	**0.23***	0.03	0.01	**0.24***	0.14	0.14
D82	**0.42***	**0.39***	**0.18***	**0.16***	**0.16***	0.09	**0.13***	0.11	0.07	**0.32***
D84	**0.28***	**0.25***	**0.31***	**0.22***	**0.20***	**0.19***	**0.20***	**0.18***	**0.18***	**0.17***
D36	**0.45***	**0.39***	**0.18***	**0.16***	**0.16***	0.04	**0.19***	0.08	0.10	0.06
D20	0.23	0.24	**0.35***	**0.32***	0.11	**0.32***	**0.25***	**0.25***	**0.32***	0.13
D97	**0.20***	0.14	**0.37***	**0.32***	**0.22***	**0.26***	**0.31***	**0.28***	**0.16***	**0.15***
D33	**0.24***	**0.39***	**0.21***	**0.22***	0.08	**0.20***	**0.23***	0.13	0.09	0.09
D62	N/Av	N/Av	N/Av	N/Av	N/Av	N/Av	N/Av	N/Av	N/Av	N/Av
D29	**0.32***	**0.40***	**0.46***	**0.40***	**0.30***	**0.21***	**0.31***	**0.39***	**0.30***	**0.21***
D17	**0.31***	**0.31***	**0.28***	**0.19***	**0.21***	**0.21***	0.10	**0.23***	0.10	0.17
D63	N/Av	N/Av	N/Av	N/Av	N/Av	N/Av	N/Av	N/Av	N/Av	N/Av
D39	N/Av	N/Av	N/Av	N/Av	N/Av	N/Av	N/Av	N/Av	N/Av	N/Av
D08	**0.25***	**0.30***	**0.32***	**0.29***	**0.19***	**0.22***	**0.32***	**0.17***	**0.20***	**0.20***
D32	**0.57***	**0.41***	**0.39***	**0.43***	0.10	0.11	**0.21***	**0.37***	**0.42***	**0.25***
D15	**0.32***	**0.32***	**0.22***	**0.22***	0.08	0.13	**0.22***	0.17	0.15	0.02
# of Correlations	**46**	**46**	**50**	**50**	**50**	**50**	**50**	**50**	**50**	**50**
# of Significant Correlations	41	39	43	39	31	26	36	36	29	22
Percent Significant	89%	85%	86%	78%	62%	52%	72%	72%	58%	44%
Median Correlation	0.34	0.36	0.29	0.26	0.18	0.17	0.21	0.21	0.19	0.14

Table 10

Second Year Biomedical Grades Regressed with Pre-Dental GPA, Science GPA, and DAT Scores

School Code	Pre-Dental GPA	Science GPA	DAT Academic Scores	All DAT Scores	All Predictors
D78	N/Av	N/Av	N/Av	N/Av	N/Av
D43	**0.35***	**0.33***	**0.20***	**0.20***	**0.41***
D23	0.01	0.02	0.10	**0.17***	**0.20***
D44	0.07	**0.08***	0.14	0.14	0.18
D31	N/Av	N/Av	N/Av	N/Av	N/Av
D96	N/Av	N/Av	N/Av	N/Av	N/Av
D67	N/Av	N/Av	N/Av	N/Av	N/Av
D10	N/Av	N/Av	N/Av	N/Av	N/Av
D13	**0.43***	**0.44***	0.12	0.15	**0.61***
D94	N/Av	N/Av	N/Av	N/Av	N/Av
D61	N/Av	N/Av	N/Av	N/Av	N/Av
D98	**0.25***	**0.26***	0.12	0.12	**0.30***
D86	**0.35***	**0.32***	0.17	0.19	**0.41***
D92	**0.44***	**0.43***	**0.30***	**0.32***	**0.53***
D72	**0.14***	**0.11***	**0.25***	**0.25***	**0.31***
D02	**0.12***	**0.13***	0.08	0.11	0.19
D76	**0.19***	**0.15***	0.08	0.08	0.28
D88	**0.07***	0.04	**0.12***	0.12	**0.19***
D89	0.02	0.00	**0.14***	**0.14***	**0.23***
D70	N/Av	N/Av	N/Av	N/Av	N/Av
D49	**0.10***	**0.10***	**0.14***	**0.14***	**0.19***
D47	N/Av	N/Av	N/Av	N/Av	N/Av
D90	**0.22***	**0.21***	**0.16***	**0.26***	**0.34***
D24	**0.08***	0.06	0.03	0.05	0.14
D75	N/Av	N/Av	N/Av	N/Av	N/Av
D71	0.01	0.02	**0.26***	**0.29***	**0.29***
D03	N/Av	N/Av	N/Av	N/Av	N/Av
D11	0.02	0.02	0.10	0.10	0.16
D68	0.01	0.01	0.09	0.09	0.11
D12	**0.03***	**0.04***	**0.11***	**0.11***	**0.13***
D22	**0.20***	**0.14***	0.18	**0.24***	**0.37***
D19	N/Av	N/Av	N/Av	N/Av	N/Av
D91	N/Av	N/Av	N/Av	N/Av	N/Av
D77	**0.13***	**0.12***	**0.18***	**0.18***	**0.26***
D06	N/Av	N/Av	N/Av	N/Av	N/Av
D57	N/Av	N/Av	N/Av	N/Av	N/Av
D55	**0.09***	0.02	**0.18***	**0.20***	**0.24***
D81	**0.11***	**0.10***	0.10	0.12	0.19
D99	**0.23***	**0.16***	0.10	0.13	**0.30***
D56	N/Av	N/Av	N/Av	N/Av	N/Av
D93	**0.06***	**0.08***	0.07	0.07	0.14
D41	**0.13***	**0.17***	**0.20***	**0.20***	**0.30***
D38	**0.07***	**0.10***	0.09	0.09	**0.16***
D09	**0.10***	**0.10***	**0.15***	**0.16***	**0.20***
D95	0.03	0.02	0.21	0.22	0.33
D65	**0.09***	**0.15***	0.05	0.05	**0.18***
D87	**0.12***	**0.17***	0.14	0.14	0.26
D26	**0.07***	**0.08***	0.13	**0.18***	0.19
D52	**0.08***	**0.06***	**0.22***	**0.22***	**0.26***
D83	**0.13***	**0.10***	**0.29***	**0.29***	**0.36***
D53	**0.17***	**0.09***	0.16	0.18	**0.28***
D82	**0.18***	**0.19***	0.07	**0.13***	**0.28***
D84	**0.08***	**0.05***	**0.12***	**0.12***	**0.19***
D36	**0.10***	**0.07***	0.09	0.10	**0.23***
D20	0.03	0.03	0.22	0.24	0.32
D97	**0.05***	0.03	**0.19***	**0.19***	**0.23***
D33	0.01	**0.06***	0.11	0.12	**0.24***
D62	N/Av	N/Av	N/Av	N/Av	N/Av
D29	**0.07***	**0.14***	**0.32***	**0.38***	**0.42***
D17	**0.08***	**0.08***	0.09	0.13	0.19
D63	N/Av	N/Av	N/Av	N/Av	N/Av
D39	N/Av	N/Av	N/Av	N/Av	N/Av
D08	**0.09***	**0.11***	0.10	0.13	**0.24***
D32	**0.29***	**0.22***	0.17	0.20	**0.40***
D15	**0.08***	**0.14***	0.11	0.11	0.22
# of Multiple R^2s	**46**	**46**	**46**	**46**	**46**
# of Significant Multiple R^2s	37	35	18	21	32
Percent Significant	80%	76%	39%	46%	70%
Median R-Square	0.09	0.10	0.14	0.14	0.24

Table 11

Second Year Pre-Clinical Dental Technique Grades Regressed with Pre-Dental GPA, Science GPA, and DAT Scores

School Code	Pre-Dental GPA	Science GPA	DAT Academic Scores	All DAT Scores	All Predictors
D78	N/Av	N/Av	N/Av	N/Av	N/Av
D43	**0.14***	**0.15***	**0.12***	**0.19***	**0.25***
D23	0.03	**0.05***	0.05	0.08	0.16
D44	0.04	**0.07***	0.06	0.07	0.13
D31	N/Av	N/Av	N/Av	N/Av	N/Av
D96	N/Av	N/Av	N/Av	N/Av	N/Av
D67	N/Av	N/Av	N/Av	N/Av	N/Av
D10	N/Av	N/Av	N/Av	N/Av	N/Av
D13	**0.23***	**0.12***	0.13	0.13	**0.40***
D94	N/Av	N/Av	N/Av	N/Av	N/Av
D61	N/Av	N/Av	N/Av	N/Av	N/Av
D98	**0.24***	**0.24***	0.11	0.12	**0.30***
D86	**0.34***	**0.25***	0.14	0.14	**0.39***
D92	**0.20***	**0.23***	**0.25***	**0.28***	**0.36***
D72	**0.07***	**0.08***	**0.19***	**0.25***	**0.28***
D02	**0.22***	**0.18***	0.13	0.13	**0.28***
D76	**0.18***	**0.17***	0.03	0.15	**0.46***
D88	**0.10***	**0.05***	0.08	0.08	**0.21***
D89	0.01	0.00	0.04	0.04	0.07
D70	N/Av	N/Av	N/Av	N/Av	N/Av
D49	**0.06***	**0.06***	0.03	**0.13***	**0.18***
D47	N/Av	N/Av	N/Av	N/Av	N/Av
D90	**0.13***	**0.12***	**0.11***	0.11	**0.18***
D24	**0.14***	**0.11***	0.03	0.04	0.21
D75	N/Av	N/Av	N/Av	N/Av	N/Av
D71	0.02	0.04	0.09	0.09	0.15
D03	N/Av	N/Av	N/Av	N/Av	N/Av
D11	0.01	0.02	0.13	0.22	0.30
D68	0.00	0.01	**0.10***	**0.14***	**0.15***
D12	**0.04***	**0.03***	0.02	0.06	0.10
D22	0.02	0.06	0.06	0.06	0.14
D19	N/Av	N/Av	N/Av	N/Av	N/Av
D91	N/Av	N/Av	N/Av	N/Av	N/Av
D77	0.01	0.01	0.05	0.06	0.07
D06	N/Av	N/Av	N/Av	N/Av	N/Av
D57	N/Av	N/Av	N/Av	N/Av	N/Av
D55	**0.09***	0.00	0.09	0.10	0.18
D81	**0.20***	**0.18***	0.08	0.08	0.24
D99	**0.11***	**0.10***	**0.22***	**0.23***	**0.27***
D56	N/Av	N/Av	N/Av	N/Av	N/Av
D93	0.02	0.02	0.03	0.04	0.06
D41	**0.17***	**0.18***	**0.16***	**0.19***	**0.34***
D38	**0.04***	**0.07***	0.02	0.03	0.10
D09	**0.08***	**0.11***	**0.14***	**0.18***	**0.26***
D95	0.06	0.09	0.18	0.19	0.26
D65	**0.09***	**0.14***	0.04	0.07	**0.20***
D87	0.05	**0.16***	0.11	0.18	0.32
D26	0.04	0.05	0.08	0.09	0.11
D52	0.02	**0.05***	0.08	**0.25***	**0.31***
D83	**0.11***	**0.09***	**0.31***	**0.31***	**0.36***
D53	**0.12***	0.01	0.16	0.19	**0.38***
D82	**0.11***	**0.09***	0.00	**0.14***	**0.22***
D84	**0.04***	**0.04***	**0.13***	**0.18***	**0.20***
D36	**0.13***	**0.10***	0.05	0.08	**0.24***
D20	0.02	0.02	0.29	0.30	0.35
D97	**0.04***	0.02	0.06	0.06	0.09
D33	**0.08***	**0.18***	0.04	0.07	**0.27***
D62	N/Av	N/Av	N/Av	N/Av	N/Av
D29	**0.07***	**0.12***	**0.13***	**0.21***	**0.29***
D17	0.03	0.01	0.16	0.16	0.18
D63	N/Av	N/Av	N/Av	N/Av	N/Av
D39	N/Av	N/Av	N/Av	N/Av	N/Av
D08	0.03	0.04	**0.16***	**0.18***	**0.21***
D32	**0.32***	**0.22***	**0.27***	**0.32***	**0.52***
D15	0.03	0.04	**0.19***	0.19	0.21
# of Multiple R^2s	**46**	**46**	**46**	**46**	**46**
# of Significant Multiple R^2s	29	30	14	15	26
Percent Significant	63%	65%	30%	33%	57%
Median R-Square	0.07	0.08	0.11	0.14	0.23

Table 12

Second Year Grade Point Average Regressed with Pre-Dental GPA, Science GPA, and DAT Scores

School Code	Pre-Dental GPA	Science GPA	DAT Academic Scores	All DAT Scores	All Predictors
D78	N/Av	N/Av	N/Av	N/Av	N/Av
D43	**0.21***	**0.18***	**0.19***	**0.23***	**0.32***
D23	0.02	0.04	0.06	0.08	0.14
D44	0.06	**0.08***	0.12	0.12	0.17
D31	N/Av	N/Av	N/Av	N/Av	N/Av
D96	N/Av	N/Av	N/Av	N/Av	N/Av
D67	N/Av	N/Av	N/Av	N/Av	N/Av
D10	N/Av	N/Av	N/Av	N/Av	N/Av
D13	**0.52***	**0.45***	0.11	0.12	**0.65***
D94	N/Av	N/Av	N/Av	N/Av	N/Av
D61	N/Av	N/Av	N/Av	N/Av	N/Av
D98	**0.27***	**0.27***	0.11	0.12	**0.31***
D86	**0.35***	**0.35***	0.18	0.18	**0.42***
D92	**0.34***	**0.35***	**0.26***	**0.27***	**0.43***
D72	**0.11***	**0.11***	**0.22***	**0.25***	**0.29***
D02	**0.22***	**0.19***	0.13	0.14	**0.28***
D76	**0.25***	**0.22***	0.12	0.13	**0.44***
D88	**0.06***	0.02	**0.14***	**0.15***	**0.23***
D89	0.00	0.01	0.04	0.04	0.08
D70	N/Av	N/Av	N/Av	N/Av	N/Av
D49	**0.11***	**0.11***	**0.10***	**0.13***	**0.20***
D47	N/Av	N/Av	N/Av	N/Av	N/Av
D90	**0.21***	**0.20***	**0.14***	**0.16***	**0.26***
D24	**0.13***	**0.11***	0.02	0.03	0.19
D75	N/Av	N/Av	N/Av	N/Av	N/Av
D71	0.02	0.05	**0.25***	**0.25***	**0.28***
D03	N/Av	N/Av	N/Av	N/Av	N/Av
D11	0.01	0.03	0.13	0.20	0.28
D68	0.02	0.02	**0.10***	**0.11***	0.13
D12	**0.06***	**0.07***	**0.11***	**0.11***	**0.15***
D22	**0.20***	**0.16***	0.18	**0.25***	**0.36***
D19	N/Av	N/Av	N/Av	N/Av	N/Av
D91	N/Av	N/Av	N/Av	N/Av	N/Av
D77	**0.29***	**0.29***	**0.18***	0.18	**0.38***
D06	N/Av	N/Av	N/Av	N/Av	N/Av
D57	N/Av	N/Av	N/Av	N/Av	N/Av
D55	**0.14***	0.02	**0.16***	**0.18***	**0.26***
D81	**0.19***	**0.18***	0.10	0.10	0.24
D99	**0.22***	**0.17***	**0.28***	**0.28***	**0.38***
D56	N/Av	N/Av	N/Av	N/Av	N/Av
D93	**0.09***	**0.08***	0.05	0.05	0.15
D41	**0.14***	**0.16***	**0.16***	**0.18***	**0.28***
D38	**0.09***	**0.12***	0.11	0.11	**0.19***
D09	**0.13***	**0.13***	**0.16***	**0.17***	**0.24***
D95	0.07	0.08	0.19	0.20	0.29
D65	**0.10***	**0.13***	**0.11***	0.11	**0.21***
D87	**0.10***	**0.21***	0.15	0.17	0.32
D26	**0.07***	**0.08***	0.10	0.12	0.15
D52	**0.09***	**0.10***	**0.22***	**0.22***	**0.27***
D83	**0.11***	**0.09***	**0.26***	**0.26***	**0.30***
D53	**0.28***	**0.13***	**0.22***	0.22	**0.41***
D82	**0.19***	**0.18***	0.04	**0.14***	**0.28***
D84	**0.07***	**0.05***	**0.17***	**0.17***	**0.22***
D36	**0.23***	**0.17***	0.03	0.03	**0.32***
D20	0.01	0.01	0.30	0.31	0.35
D97	**0.05***	0.03	**0.16***	**0.16***	**0.19***
D33	**0.06***	**0.15***	0.06	0.08	**0.26***
D62	N/Av	N/Av	N/Av	N/Av	N/Av
D29	**0.11***	**0.16***	**0.35***	**0.35***	**0.41***
D17	**0.08***	**0.09***	0.13	0.14	0.19
D63	N/Av	N/Av	N/Av	N/Av	N/Av
D39	N/Av	N/Av	N/Av	N/Av	N/Av
D08	**0.06***	**0.09***	**0.23***	**0.23***	**0.30***
D32	**0.37***	**0.25***	0.20	0.23	**0.48***
D15	**0.08***	**0.11***	0.13	0.13	0.21
# of Multiple R^2s	**46**	**46**	**46**	**46**	**46**
# of Significant Multiple R^2s	38	36	22	21	32
Percent Significant	83%	78%	48%	46%	70%
Median R-Square	0.11	0.12	0.14	0.16	0.28

Table 13 – Median Correlations, Observed (in Parentheses) and Corrected for Range Restriction, between DAT Scores and First- and Second-Year Dental School Grades

	Biomedical Grades	Pre-Clinical Dental Technique Grades	Grade Point Average
DAT Scores (First-Year Class)			
Academic Average	0.45 (0.36)	0.27 (0.21)	0.46 (0.37)
Total Science	0.44 (0.36)	0.21 (0.17)	0.41 (0.34)
Quantitative Reasoning	0.23 (0.21)	0.17 (0.16)	0.22 (0.20)
Reading Comprehension	0.20 (0.19)	0.12 (0.11)	0.21 (0.20)
Biology	0.35 (0.30)	0.18 (0.15)	0.34 (0.29)
General Chemistry	0.33 (0.29)	0.20 (0.17)	0.32 (0.28)
Organic Chemistry	0.32 (0.28)	0.16 (0.14)	0.31 (0.27)
Perceptual Ability	0.19 (0.16)	0.28 (0.24)	0.21 (0.18)
DAT Scores (Second-Year Class)			
Academic Average	0.35 (0.28)	0.25 (0.20)	0.36 (0.29)
Total Science	0.34 (0.27)	0.19 (0.15)	0.32 (0.26)
Quantitative Reasoning	0.17 (0.16)	0.15 (0.14)	0.20 (0.18)
Reading Comprehension	0.18 (0.16)	0.12 (0.11)	0.19 (0.17)
Biology	0.26 (0.22)	0.15 (0.13)	0.25 (0.21)
General Chemistry	0.26 (0.23)	0.16 (0.14)	0.24 (0.21)
Organic Chemistry	0.22 (0.19)	0.14 (0.12)	0.22 (0.19)
Perceptual Ability	0.05 (0.04)	0.25 (0.21)	0.17 (0.14)

Note. For each pair of numbers in each column, the first number is the median correlation coefficient corrected for range restriction. The second number in parentheses is the observed median correlation coefficient.

Table 14

Median Correlation Summary

	Pre-Dental GPA	Science GPA	Academic Average	Total Science	Quanti-tative	Reading Comp.	Biology	General Chem.	Organic Chem.	Percep. Ability
First Year Biomedical Grades	0.35	0.37	**0.45**	**0.44**	**0.23**	**0.20**	**0.35**	**0.33**	**0.32**	**0.19**
First Year Pre-Clinical Dental Technique Grades	0.24	0.23	**0.27**	**0.21**	**0.17**	**0.12**	**0.18**	**0.20**	**0.16**	**0.28**
First Year Grade Point Average	0.37	0.37	**0.46**	**0.41**	**0.22**	**0.21**	**0.34**	**0.32**	**0.31**	**0.21**
Second Year Biomedical Grades	0.32	0.31	**0.35**	**0.34**	**0.17**	**0.18**	**0.26**	**0.26**	**0.22**	**0.05**
Second Year Pre-Clinical Dental Technique Grades	0.28	0.28	**0.25**	**0.19**	**0.15**	**0.12**	**0.15**	**0.16**	**0.14**	**0.25**
Second Year Grade Point Average	0.34	0.36	**0.36**	**0.32**	**0.20**	**0.19**	**0.25**	**0.24**	**0.22**	**0.17**

* Median Corrected Correlation Coefficients are displayed in bold face.

Median Multiple R-Square Summary

	Pre-Dental GPA	Science GPA	DAT Academic Scores	All DAT Scores	All Predic-tors
First Year Biomedical Grades	0.12	0.13	0.17	0.17	0.26
First Year Pre-Clinical Dental Technique Grades	0.06	0.05	0.07	0.10	0.19
First Year Grade Point Average	0.14	0.14	0.17	0.18	0.27
Second Year Biomedical Grades	0.09	0.10	0.14	0.14	0.24
Second Year Pre-Clinical Dental Technique Grades	0.07	0.08	0.11	0.14	0.23
Second Year Grade Point Average	0.11	0.12	0.14	0.16	0.28

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