

**DP 201/202: Integrated Clinical Sciences II -
Application of Foundational Knowledge Seminar/Lab**

**LITERATURE REVIEW PROJECT
DDS Class of 2012**

Course Director: Dr. Terry Hoover
Course Manager: Teresa Kuhlman

Revised 2011.03.21

Project Objectives

The primary objective for this literature review project is for you to be able to demonstrate your ability to do literature research on a selected topic, critically assess the information, and then write a short original paper on that topic. The exercise will be an opportunity for you to formulate some conclusions, information gaps, new applications, alternative perspectives or controversies involving the topic. In order to achieve this end you will need to master scientific journal searches as well as develop and use critical thinking skills to synthesize an original paper. The organizational and writing skills you develop by producing a quality paper will aid you in your professional career whether that includes doing primary research or reading, understanding and critically assessing research by others in your quest as a life long learner and dental professional.

Finding Resources

Books

As a starting point in your research a textbook about a particular subject may be useful to familiarize yourself with a topic. However, books are only as current as the year they were published. Journal articles remedy this drawback since the most current and accurate information can be found in peer reviewed journals.

Journal Articles

For this paper you will be expected to use peer reviewed literature as your main source of information. While a preponderance of your information will come from original studies, you may also refer to some review literature. However, you may not merely restate another author's review of your topic as the basis for your paper. To get an overview of your topic in the beginning of the process, you may want to track down a review article which may also provide a list of related resources. From there, however, you will have to extend your search to original research papers.

You will need to find a minimum of **5** original research articles or papers published in refereed journals written by the researcher(s) describing their project and results. It is highly recommended that a majority of the articles you use have been published within the last five years. A maximum of **2** review papers may be used. A review paper is written by a third party reviewer(s) that compares several original research papers published on the same topic.

It can sometimes be confusing to discern the difference between low evidence and high evidence articles. The report of a double-blind randomized clinical trial, for instance, would be an example of "high evidence." A single case report would be "low evidence." The widespread use of internet sources adds difficulty in differentiating credibility of material. For help in understanding high evidence versus low evidence papers, the ADA has a web section devoted to Evidence Based Dentistry. The glossary of terms page is particularly helpful (<http://ebd.ada.org/About.aspx>). In any case you should use the highest evidence material you can find in researching your topic and writing your paper.

Selecting a Research Topic

Each student will be working with a faculty-mentor on this project. Many faculty from throughout the school are participating. Early in summer quarter we will be discussing topic and mentor selection. The Lit Review Project assignment for summer is for each student to choose a mentor and topic. It is important that the research topic not be too broad so that your project is manageable. Your faculty mentor may need to assist you in narrowing your focus.

All students during the development of their paper are required to meet or collaborate (email correspondence is acceptable) with their faculty mentor at least once in autumn, winter, and spring quarters until the final draft of the paper is submitted in the spring. **To receive credit for the quarterly student/faculty collaboration, students should email confirmation of this faculty contact to Teresa Kuhlman with a cc: to their faculty mentor.**

If you are currently involved in a research project with a member of the faculty, you may write your paper on this topic as long as the faculty agrees to mentor you for this assignment. If you do choose to use your research project as your topic choice, a write-up of your research activity in the project will not suffice. The Integrated Clinical Science II paper must be a literature search and your paper should critically assess the literature on that topic. Students currently conducting research are held accountable to the same expectations and standards as their fellow classmates. This is the same assignment that all students in the class must accomplish.

Format

Your paper is to be 1500-2500 words in length excluding bibliography (assuming approximately 300 words per page, this is 5-8 pages). Please use Times New Roman 12 font.

Recommended guidelines

Title page

Give the title, the course name, student name and number.

Abstract

In one short paragraph give objectives, main points covered and any conclusions.

Introduction

Give a brief description of what the project is about and why it is of interest. Depending upon the topic it may be appropriate to give the main historical background and the nature of the problem. Use of earlier literature or even textbooks could be helpful here.

Body of the Paper

Findings from your Lit Search are described here, often divided into sections. This portion of the paper should demonstrate your understanding of the topic.

- You may use downloaded material such as figures and graphs.
- Information in these sections should be based on good evidence and original studies.
- Typical sections for a paper about a dental problem and its treatment might be: *biology of the problem, indications for treatment, types of treatment, specific techniques, factors affecting prognosis, and controversial and promising areas of research.*
- Typical sections for a paper about a dental controversy might be: *nature of the contrary positions, who is involved on each side, the scientific basis of opposing views, the politics of the controversy, and possible rational approaches to the dilemma.*

(Note: Title Page, Abstract, and Introduction are best written after the Body of the Paper has been outlined or written)

Conclusions

Draw together the sections of the body of the paper into a clear synthesis of current opinion. It is in this section you will show that you have critically assessed the information you have read.

Number of Words

Students should use *Word Count* to note the number of words used in the project following your conclusions.

Bibliographic References

Your paper should be referenced to your readings crediting the authors for the information. References should be keyed to the text and numbered with order of appearance within your manuscript. It provides essential details that enable the reader to locate cited publications with the minimum of effort. At a glance a bibliographic reference should answer a number of questions about any given item:

- Who wrote it?
- Where was it published?
- When was it published?

From the start it is paramount to be systematic and methodical; keep a record of what you have read and where you read it. Some of you will keep track of this information by hand, others keeping electronic records. This may seem a tedious process but even worse at the final stages when you can't find your references. Back up your electronic documents at all stages. Loss of notes or data due to computer crash or theft will not excuse you from the research paper deadline.

References should be in the AMA style and include in this order, author name, article title, name of journal or publication, volume number, page numbers, and date of publication, e.g.:

Kao RT, Pasquinelli K. Thick vs. thin gingival tissue: a key determinant in tissue response to disease and restorative treatment. *J Calif Dent Assoc* 30:521-6, July 2002.

Olsson M, Lindhe J. Periodontal characteristics in individuals with varying forms of the upper central incisors. *J Clin Periodontol* 18:78-82, 1991.

Tarnow DP, Magner AW, Fletcher P. The effect of the distance from the contact point to the crest of bone on the presence or absence of the interproximal dental papilla. *J Periodontol* 62:995-996, 1992.

(Note that the use of et al is normally restricted to papers with more than four authors. In those cases, list the first two authors followed by et al.)

Figures, including all downloaded material, must be numbered for text reference e. g. 'as seen in Fig. 1...' and include a title and enough information in the figure legend to make the figure self-sufficient. It is essential, for both legal and scientific reasons, that all scanned or downloaded materials from published articles are acknowledged within the figure legend.

Author's last name and initials (no periods). Title of article (capitalize only first word and proper names). Journal title (*Medline* style abbreviation). Year of publication(s); Volume number Issue number (in parentheses): Inclusive page numbers using an en dash.

Eg. Lawrence B, Weil BH, Graham RX. Making online searches available in an industrial research environment. J Am Soc Inf Sci. 1974 Nov/Dec;25(6):364-9.

JADA follows the latest AMA Style Guide. The AMA Style Guide's for journal citations details can be found at: <http://www.ada.org/995.aspx>

Deadlines

1. By **Friday, September 17, 2010** you should have chosen your topic and mentor, and notified Teresa Kuhlman by email of your selection.
2. By **Friday, December 3, 2010** you must email to **your faculty-mentor and Teresa Kuhlman:**
 - A list of at least 5 original studies or reports you have found *and* read on your selected topic
 - A **short** (paragraph) description of your topic and the nature of the problem or concept that you plan on discussing
 - An outline of the body of the paper
3. By **Friday, February 26, 2011** you must email the first draft of your paper to **your faculty-mentor and Teresa Kuhlman.**
4. By **Friday, April 29, 2011** you must email your completed paper to **your faculty-mentor and Teresa Kuhlman.**

Grading

Papers will not be given a letter grade. Instead they will be evaluated for process in literature search, critical thinking, and proper formatting and referencing. The evaluator for each paper will be the faculty mentor assigned to the topic selected by a student. The mentor will notify Dr. Hoover when your paper is complete and meets acceptable scholarship for a second year dental professional student. Approval of your paper is required for completion of the spring ICS II course (DP 202). If you have been working with your faculty mentor throughout the process, you should be confident by the final draft due date that your paper will be met with approval. The mentor may ask you to rewrite a portion of the paper to be acceptable for DP 202 course completion. Examples of reasons requiring paper revisions would be insufficient references, poor organization or writing, or unclear theme or conclusions. The points from the paper that will figure into your DP 201 and DP 202 grades are as follows:

Summer (DP201):

- 5 Extra Credit Points if you have found your mentor and topic and notified Teresa Kuhlman by Sept 17
Note: Those students who haven't selected a topic and mentor by summer quarter's end will be assigned a topic and mentor at the start of autumn quarter.

Autumn (DP 201):

- 10 Points: Collaboration with faculty-mentor (0 points if no autumn quarter student/mentor interaction)
10 Points: Delivery to mentor and Teresa Kuhlman by **December 03, 2010** deadline
(0 points if deadline is not met) of:
- List of original studies or reports
 - Short descriptive paragraph of your topic
 - Outline of Paper

20 Points: Total (This is 10% of the total points available in the autumn quarter of DP 201)

Winter (DP 201):

- 10 Points: Collaboration with faculty-mentor (0 points if no winter quarter student/mentor interaction)
- 10 Points: Delivery by February 26, 2011 of the first draft of your paper to your faculty-mentor (0 points if deadline is not met)

20 Points: Total (This is 10% of the total points available in the winter quarter of DP 201.)

Spring (DP 202):

- 10 Points: Meeting with faculty-mentor (0 points if no spring quarter student/mentor interaction)

10 Points: Total (This is 05% of the total points available in the spring quarter of DP 202.)

Additionally, **10 extra credit points** toward DP 202 grades will be awarded to students whose papers are recognized by their mentors as examples of exceptional scholarship and who subsequently give oral presentations of their work to the class and faculty. Last year approximately 40 students gave PowerPoint presentations of their Literature Review papers to the class. To use as examples these papers were posted in PDF format and can be viewed on the Sakai site "Lit Review Project".

Plagiarism

Plagiarism is using other people's work and passing it off as your own (e.g. by copying whole chunks of review articles or past student projects). You should take every care to avoid falling into this practice. The Dugoni Pacific School of Dentistry *Code of Ethics* considers plagiarism a form of dishonesty. If discovered, it will be brought to the course director for review and possible referral to the Ethics Committee. We are exploring the use of search engines such as turnitin.com to verify plagiarism.

PubMed and Other Databases to Search for Useful Journal Articles

A bibliographic database is one that includes reference details to articles in journals on a specific subject. The details usually include the author, title of the article, title of the source (e.g. a journal title) and an abstract, but not usually the full-text of the article. References to other information sources such as books, conference proceedings, for example may also be included on some databases. One of the most widely used and comprehensive database for locating dental journal literature is PubMed. Note that PubMed is an important database of peer reviewed journals. So that students can be linked to the resources that are available to them, it is important to launch PubMed from the library's website <http://www.cpmc.org/hslibrary>

Locating Electronic Journals

Ms. Anne Shew, Library Director and Web Manager, CPMC, across the street from the Dugoni Dental School can provide valuable suggestions and support to students with this project. Students may contact her for library help: ShewA@sutterhealth.org or 415.600.3240.

Acknowledgements for this Syllabus

The Department of Dental Practice would like to acknowledge Professor Gordon Proctor (address noted below) for allowing us to use the syllabus he developed for his course at King's College London Dental Institute, Guy's & St. Thomas' Hospitals. Much of this syllabus comes directly from or is adapted from his syllabus. His generosity has greatly accelerated our process and provided us with a research project that has been used very successfully at his institution.

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