



3.3.1: The Institution ensures implementation of its stated Code of Ethics for research. The Institution has a stated Code of Ethics for research, the implementation of which is ensured by the following:

- 1. There is an Institutional ethics committee which oversees the implementation of all research projects**
- 2. All the projects including student project work are subjected to the Institutional ethics committee clearance**
- 3. The Institution has plagiarism check software based on the Institutional policy**
- 4. Norms and guidelines for research ethics and publication guidelines are followed**

INDEX SHEET

S NO	DESCRIPTION	PAGE NO
1	CERTIFICATE OF THE HEAD OF THE INSTITUTION	2
2	CODE OF ETHICS	4
3	INSTITUTIONAL ETHICS COMMITTEE CLEARANCE	7
4	NORMS AND GUIDELINES FOR RESEARCH ETHICS	24
5	PUBLICATION GUIDELINES	29
6	PLAGIARISM CHECK SOFTWARE	31



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**CERTIFICATE OF THE HEAD OF INSTITUTION
FOR
CODE OF ETHICS OF RESEARCH**



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Dr.ANIL MELATH, MDS.,
PRINCIPAL

TO WHOMSOEVER IT MAY CONCERN

This is to certify that our Institution ensures implementation of its stated Code of Ethics for research. The Institution has a stated Code of Ethics for research, the implementation of which is ensured by the following:

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 4. Norms and guidelines for research ethics and publication guidelines are followed
- details are given:




DR ANIL.M
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CODE OF ETHICS



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Code of ethics of research:

In an era where it is 'Publish - or- Perish', Mahe Institute of Dental Sciences strives hard to adhere to every aspect of research ethics. Right from the inception of the topic of interest, we focus on providing maximum benefits to the participants involved. We provide a non competitive environment for the young researchers as well , by sticking to certain precautions. We ensure that the participant has all of the information regarding the study, that might reasonably influence their willingness to participate in a form that they can understand and comprehend.

Our Patient Information Sheet, discuss the following :

- Participants' rights to decline to participate and to withdraw from the research once it has started, as well as the anticipated consequences of doing so.
- Reasonably foreseeable factors that may influence their willingness to participate, such as potential risks, discomfort or adverse effects.
- Any research benefits.
- Limits of confidentiality and when confidentiality must be broken.
- Who participants can contact with questions.

Other than the above, we encourage the students to discuss the intellectual property frankly with their guides, thus ensuring each and every one involved in the study gets adequate information as well as reflecting on the fact that - authorship relies on contribution. Gift authorship is discouraged by any means at our institution.

By encouraging the researcher to honestly report the data, results, methods and procedures, and publication status we aim to bring out world class research materials. The experts/guides take special care to not allow any fabrication, falsification or misinterpretation of any data. Mahe Institute of Dental Sciences put forth in its agenda of research ethics - not to deceive one's own colleagues, research sponsors, or the public.

Our team of experts in the research area strive and help the students to avoid bias in experimental design, data analysis, data interpretation, peer review and personnel decisions. They also keep a check for avoiding or minimizing self-deception, disclosing personal or financial interests that may affect research etc. There is significant emphasis given for each proposal in every department. The guides scrutinize the work carefully and at every stage it is critically examined by the principal investigator and the peers. We emphasize on the need of keeping good records of research activities, such as data collection, research design, and correspondence with journals.

Through out the journey at the college, a student/ researcher learns to respect their colleagues, treat them fairly, and be open to criticism and new ideas.



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Institutional ethics Committee:

The Institutional ethics Committee is responsible for developing and monitoring policies and guidelines in proper conduction of research, publishing, possible violations and assisting in investigations of possible violations of code of ethics.

Disciplinary Actions:

The Institutional ethics Committee of the college, with the following members will establish and take care of the issues and complaints regarding the plagiarism or any others and will submit the report after thorough investigation. The committee also recommends the disciplinary action be imposed within a period of 3 weeks from the day of complaint.

Members of Institutional ethics Committee at Mahe Institute of Dental Sciences:

Sl no:	Designation	Name	
1	Chairperson	Dr. Babu Ravindran	External Member
2	Clinician	Dr. Rajani Mary George	Internal Member
3	Member Secretary	Dr. Selvamani M	Internal Member
4	Invitee	Dr. Biju Thomas	External Member
5	Basic Medical Scientist	Dr. Selvakumar C	Internal Member
6	Basic Medical Scientist	Dr. Manohar Herle	Internal Member
7	Clinician	Dr. Teenu Thomas	Internal Member
8	Legal Advisor	Adv. OG Premarajan	External Member
9	Social Scientist	Dr. Bony M	Internal Member
10	Basic Medical Scientist	Dr. Parthiban R	External Member
11	Social Scientist	Mrs. Civi Ramesh	External Member
12	Layperson	Ajay Kumar	External Member



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MINUTES OF MEETING



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MINDS/IEC--MINDS/X/27032025

Date: 27.03.2025

MINDS Ethics Committee

Meeting No: X

Batch: MDS 2024-25

Agenda: Approval of MDS Synopsis

Venue: Conference Hall

Time: 3 -5 pm

Committee Members:

- | | |
|--------------------------|-------------------------------|
| 1. Dr.Babu Raveendran | :-Chairperson,EthicalCommite |
| 2. Dr.AnilMelath | :-Convenor, Ethical Committee |
| 3. Dr.Selvamani M | :-Member Secretary |
| 4. Dr.Biju Thomas | :-External Observer |
| 5. Dr.Parthiban R | :- Basic Medical Scientist |
| 6. Dr.Selvak Kumar C | :-Basic Medical Scientist |
| 7. Dr.Rajani Mary George | :-Basic Medical Scientist |
| 8. Dr.Teenu Thomas | :-Basic Medical Scientist |
| 9. Dr.Bony M | :-Social Scientist |
| 10. Mrs.Civi Ramesh | :- Social Scientist |
| 11. Dr.ManoharHerle | :-Clinician |
| 12. Mr.O G Premarajan | :- Legal Advisor |
| 13. Ajay Kumar | :-Lay Person |



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Minutes of the 10th Ethical Committee Meeting convened on 27.03.2025, at 3:00 PM in the Conference Hall are as follows:

Postgraduate students from various departments of Mahe Institute of Dental Sciences and Hospital presented their synopses. Dr. Babu Raveendran, Chairperson of the Ethical Committee, extended a warm welcome to all attendees. Dr. Anil Melath, Convenor, provided an overview of the agenda and initiated the proceedings. Dr. Selvamani M, Member Secretary, reviewed the minutes of the previous ethics meeting and notified the committee about the completion of Good Clinical Practice training by all members. Additionally, it was mentioned that the institution is in the process of registering with the Indian Council of Medical Research (ICMR), New Delhi, for ethical accreditation.

Dr. Biju Thomas, Professor and Head of the Department of Periodontics, Special invitee from NITTE University, Mangalore addressed the members and post graduates. Suggested Intuition Research Board and Ethics should work together for the betterment of researcher, ethics committee should check the progress of research work regularly.

Dr. Babu Raveendran, Chairperson of the Institutional Ethics Committee, expressed contentment with the institution's advancement and praised the dedication of postgraduate students to clinical research projects. He also acknowledged the substantial volume of research conducted by the institution and commended the guides involved in these endeavors.

At 3:30, presentations by postgraduates commenced. Each postgraduate presented their synopsis to the committee,




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INSTITUTIONAL ETHICS COMMITTEE CLEARANCE



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Chairperson

Dr. Selvamani M., MDS
Member Secretary

Dr. Manohar Herle MD
Clinician

Dr. Selvak Kumar C, Ph D
Basic Medical Scientist

Dr. Rajani Mary George MDS
Basic Medical Scientist

Dr. Teenu Thomas MDS
Basic Medical Scientist

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Social Scientist

Dr. Bony M. MSW
Social Scientist

Dr. Biju Thomas
IEC- Member,
NITTE University, Mangalore
External Observer

Mr. Ajay Kumar
Member

Ref. No: MINDS/IEC-MINDS/X/27032025/PG-07

Date: 27.03.2025

MINDS ETHICS COMMITTEE

Certificate

This is to certify that the below mentioned research project has been approved and cleared by the MINDS Ethics Committee (MEC) at its meeting held on 27th March 2025.

Title of Project : "Comparative Analysis Of Remineralization Potential of three Different Materials On White Spot Lesions- An In-Vitro Study".

Principal Investigator : **Dr. Ameer Jaffar**

Department : **Orthodontics and Dentofacial Orthopaedics**

The MEC retains the right to

1. Withdraw or amend this Ethical Clearance Certificate if
 - Any unethical principles or practices are revealed or suspected
 - Relevant information has been withheld or misrepresented
 - The conditions contained in the Certificate have not been adhered to.
2. Request access to any information or data at any time during the period of study or after completion of the same.


Member Secretary

Member Secretary
MINDS Ethics Committee
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Clinician

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Basic Medical Scientist

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NITTE University, Mangalore
External Observer

Mr. Ajay Kumar
Member

Ref. No: MINDS/IEC--MINDS/X/27032025/PG-08

Date: 27.03.2025

MINDS ETHICS COMMITTEE

Certificate

This is to certify that the below mentioned research project has been approved and cleared by the MINDS Ethics Committee (MEC) at its meeting held on 27th March 2025.

Title of Project : "Comparative Evaluation of friction and surface roughness of Stainless Steel and TMA Arch Wires after Immersion in two different mouthwashes: An In-Vitro Study".

Principal Investigator : **Dr. Roshaline Raaji S**

Department : **Orthodontics and Dentofacial Orthopaedics**

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Ref. No: MINDS/IEC-MINDS/X/27032025/PG-07

Date: 27.03.2025

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Title of Project : "Comparative Analysis Of Remineralization Potential of three Different Materials On White Spot Lesions- An In-Vitro Study".

Principal Investigator : **Dr. Ameer Jaffar**

Department : **Orthodontics and Dentofacial Orthopaedics**

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NITTE University, Mangalore
External Observer

Mr. Ajay Kumar
Member

Ref. No: MINDS/IEC-MINDS/X/27032025/PG-09

Date: 27.03.2025

MINDS ETHICS COMMITTEE

Certificate

This is to certify that the below mentioned research project has been approved and cleared by the MINDS Ethics Committee (MEC) at its meeting held on 27th March 2025.

Title of Project : "Comparative Evaluation Of Intraoral aging on
Viscoelastic Properties of Direct Printed aligners
Versus thermoformed Aligners – An Invivo Study".

Principal Investigator : **Dr. Hanna Saju Jacob**

Department : **Orthodontics and Dentofacial Orthopaedics**

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External Observer

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Member

Ref. No: MINDS/IEC-MINDS/X/27032025/PG-06

Date: 27.03.2025

MINDS ETHICS COMMITTEE

Certificate

This is to certify that the below mentioned research project has been approved and cleared by the MINDS Ethics Committee (MEC) at its meeting held on 27th March 2025.

Title of Project : "Neurogenic Differentiation Of Human Gingival-Derived Mesenchymal Stem Cells: An In-Vitro Study".

Principal Investigator : **Dr. Rumana Nizar**

Department : **Periodontology**

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Ref. No: MINDS/IEC-MINDS/X/27032025/PG-10

Date: 27.03.2025

MINDS ETHICS COMMITTEE

Certificate

This is to certify that the below mentioned research project has been approved and cleared by the MINDS Ethics Committee (MEC) at its meeting held on 27th March 2025.

Title of Project "Comparison of Peri Implant Soft Tissue Dimensions using Digital and Conventional Implant Impressions"

Principal Investigator : **Dr. Dhinesh Ram S**

Department : **Prosthodontics and Crown & Bridge**

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Ref. No: MINDS/IEC--MINDS/X/27032025/PG-11

Date: 27.03.2025

MINDS ETHICS COMMITTEE

Certificate

This is to certify that the below mentioned research project has been approved and cleared by the MINDS Ethics Committee (MEC) at its meeting held on 27th March 2025.

Title of Project "Effect of Different Surface Treatments on Bonding Properties of Zirconia-A Comparative Analysis".

Principal Investigator : **Dr. Sneha Suresh Kakkanattu**

Department : **Prosthodontics and Crown & Bridge**

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NORMS AND GUIDELINES FOR RESEARCH ETHICS



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MINDS - STANDARD OPERATING PROCEDURE			
TITLE: COMMITTEE- ETHICAL			
DOC. CODE: CE	REV. NO.: 0	DATE: 26.04.2021	PAGE 1 OF 2

1.0 Purpose and Scope

- 1.1 This SOP enables in establishing the Ethical committee and provides a guidelines
- 1.2 This includes the basic responsibilities of the IEC, composition, appointment of the members and conduct of the meeting.
- 1.3 This is applicable to ensure a competent review of scientific and ethical aspects of the research project proposals received from faculties, post graduates and students of the various departments of the dental college.

2.0 Inputs required:

- a) ICMR guidelines
- b) List of PG students
- c) List of staffs undertaking research projects
- d) List of guides

3.0 Processing of inputs

3.1 Constituting the Committee

- 3.1.1 Principal at the beginning of the academic year, identifies the person to be the Chairperson, convenor and members of the committee. Thus, the validity of the committee constitution is for one year. There is no limitation on the number of times a person can be in the committee as it is the discretion of Principal.

3.2 Functioning of the committee

- 3.2.1 The committee meets once in 6 months.
- 3.2.2 The convenor intimates about the date, place, agenda and time of the meeting to the members after ensuring everyone's availability. This information is provided as per CE-01 at least 2 to 3 days in advance.
- 3.2.3 The purpose of this committee is to ensure that every research proposal received is reviewed and evaluated and the possible risks to the subjects, expected benefits and adequacy of documentation for ensuring privacy, confidentiality and justice are checked. This committee also looks into the cardinal principles of ethics in research viz. Autonomy, Beneficence, Non-maleficence and Justice are taken care of in planning, conduct and reporting the proposed research. For this purpose, the IEC looks into the aspects of informed consent process and risk benefit ratio.

Quorum: A minimum of five members or one third of the total members must be present at a meeting besides Member Secretary and Chairperson in order to issue a valid advice and/or decision, provided quorum is met.

Professional qualifications of the quorum requirements should consist of:

- a) One legal expert
- b) One Clinician
- c) One socio-behavioural scientist/ one basic scientist depending on the projects to be discussed.
- d) At least one member who is independent of the institution/research site.
- e) At least one member whose primary area of expertise is in a non-scientific area
- f) Lay person or community member.

3.3 Agenda of each committee meeting:

- a. Regularly attend and actively participate in the EC meetings
- b. Review, discuss and consider research proposals submitted for evaluation. Reviewers for each proposal will review the study. Later, if any other issues the other IEC members can voice their comments/suggestions.
- c. Discuss serious adverse event reports and recommend appropriate action(s).
- d. Review the progress reports and monitor on-going studies as appropriate.



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MINDS - STANDARD OPERATING PROCEDURE			
TITLE: COMMITTEE- ETHICAL			
DOC. CODE: CE	REV. NO.: 0	DATE: 26.04.2021	PAGE 2 OF 2

- e. Evaluate final reports and outcomes
 - f. Maintain confidentiality of the documents and deliberations of IEC meetings. Declare any conflict of interest
 - g. Participate in continuing education activities in biomedical ethics and biomedical research
 - h. If deemed necessary, should suggest any changes that may be necessary to be included in the SOPs of the IEC.
 - i. Conduct monitoring visits for any research proposal, if needed.
- 3.4 Convenor prepares the minutes of the meeting as per CE-02 and circulates to all the members with a copy to Principal's office.

4.0 Process Outputs

- 4.1 Decisions taken and executed (Minutes of meeting)
- 4.2 Number of research projects taken up
- 4.3 Number of projects cleared by ethical committee
- 4.4 Number of ethical committee meetings conducted

5.0 RECORDS

Sl. No.	Doc. Code of Format	Title of Record	Retained		Mode of Disposal
			With	For	
1	CE-01	Notice cum Agenda for conduct of Ethical Committee meeting	Ethical Committee Convenor	5 Years	Shredding
2	CE-02	Minutes of meeting-ethical Committee			

6.0 AUTHENTICATION

PARTICULARS	DESIGNATION	SIGNATURE
PREPARED BY	CONVENER- ETHICAL COMMITTEE	
REVIEWED BY	VICE PRINCIPAL	
APPROVED BY	PRINCIPAL	



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MINDS - STANDARD OPERATING PROCEDURE			
TITLE: ETHICAL COMMITTEE PROCEDURES			
DOC. CODE: C-ETH-A	REV. NO.: 0	DATE: 26.04.2021	PAGE 1 OF 2

1.0 Purpose and Scope

- 1.1 This SOP ensures the procedures for issue of ethical clearance of the research project proposals received from faculties, post graduates and students of the various departments of the dental college.
- 1.2 The ethical committee convener is in-charge for monitoring the process and concerned guides as well as researchers are responsible and accountable for the compliance to the applicable regulatory requirements in their research projects.

2.0 Inputs required:

- a) ICMR guidelines
- b) List of PG students
- c) List of staffs undertaking research projects
- d) List of guides
- e) Academic calendar

3.0 Processing of inputs

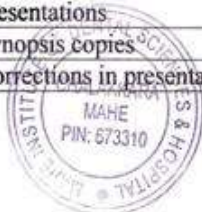
- 3.1 PG students list is prepared for the academic year.
- 3.2 Circular is sent to the concerned departments with the date, time and venue of the presentation for ethical clearance as per C-ETH-A-01.
- 3.3 Students or researcher submit 4 printed copies of the synopsis to the Principal office as C-ETH-A-02.
- 3.4 Students present their dissertation synopsis in front of the ethical committee members.
- 3.5 Any corrections or suggestions in the study are mentioned by the committee members as C-ETH-A-03.
- 3.6 Corrections are done by the students in their dissertation and corrected copies are submitted to the Principal's office.
- 3.7 On approval of the dissertation topics by the ethical committee, ethical clearance certificate-C-ETH-A-04 is given.
- 3.8 The students' list with copies of their synopsis is sent to Pondicherry University as C-ETH-A-05.
- 3.9 On receiving the synopsis, the copy of covering letter is signed with seal from the Examination wing of Pondicherry University and is received by the institution as C-ETH-A-06.
- 3.10 On completion of the thesis dissertation by the students, 4 copies of the printed thesis are submitted to the Pondicherry University with covering letter as C-ETH-A-05.
- 3.11 On receiving them, the copy of the covering letter is signed and sent to institution as C-ETH-A-06.
- 3.12 The ethical committee convener keeps up-to-date on the ethical rules and regulations. The convener informs all concerned to ensure awareness and compliance to the latest requirements of the regulatory body.

4.0 Process Outputs

- 4.1 Number of research projects taken up
- 4.2 Number of projects cleared by ethical committee

5.0 RECORDS

Sl. No.	Doc. Code of Format	Title of Record	Retained		Mode of Disposal
			With	For	
1	C-ETH-A-01	Circular with details about presentations	Ethical Committee Convenor	Permanent	Not applicable
2	C-ETH-A-02	Synopsis copies			
3	C-ETH-A-03	Corrections in presentation			



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MINDS - STANDARD OPERATING PROCEDURE			
TITLE: ETHICAL COMMITTEE PROCEDURES			
DOC. CODE: C-ETH-A	REV. NO.: 0	DATE: 26.04.2021	PAGE 2 OF 2

Sl. No.	Doc. Code of Format	Title of Record	Retained		Mode of Disposal
			With	For	
4	C-ETH-A-04	Ethical clearance certificate	Ethical Committee Convenor	Permanent	Not applicable
5	C-ETH-A-05	Approved list from Institution			
6	C-ETH-A-06	Received letter from University			

6.0 AUTHENTICATION

PARTICULARS	DESIGNATION	SIGNATURE
PREPARED BY	CONVENER- ETHICAL COMMITTEE	
REVIEWED BY	VICE PRINCIPAL	
APPROVED BY	PRINCIPAL	



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PUBLICATION GUIDELINES



Publication guidelines refers to the set of principles and standards that guide the responsible conduct of research and its dissemination through publishing. It involves ensuring honesty, transparency, integrity, and accountability in the research process, including authorship, peer review, conflicts of interest, plagiarism, and data falsification.

Below are the publication guidelines of the institution:

1. Authorship Criteria

- **Eligibility:** Authorship should be based on substantial contributions to the conception, design, execution, or interpretation of the research.
- **Order of Authors:** The order should reflect the level of contribution, with the first author contributing most significantly and the last author typically being the principal investigator or senior author.
- **Acknowledgement:** Individuals who contributed to the study but did not meet authorship criteria should be acknowledged.

2. Originality and Plagiarism

- Submissions should be original work. All sources, data, and ideas that are not the author's should be properly cited.
- Plagiarism in any form, including self-plagiarism, is strictly prohibited.

3. Data Integrity

- Authors must ensure that the data presented in the manuscript is accurate, complete, and reliable.
- Fabrication or falsification of data is unethical and will result in retraction or rejection of the publication.

4. Conflict of Interest

- Authors must disclose any financial, personal, or professional conflicts of interest that could influence the research or its interpretation.
- Editors, reviewers, and authors should declare any conflicts of interest related to the publication.

5. Peer Review and Editorial Process

- **Confidentiality:** The peer review process should be confidential. Reviewers must not disclose or misuse any information from the manuscripts they review.



- **Constructive Feedback:** Peer reviewers should provide objective, constructive feedback to help improve the quality of the manuscript.
- **Fairness and Transparency:** Editors should make decisions based on the quality of the research, free from bias or personal interests.

6. Human and Animal Rights

- Research involving human subjects should follow ethical standards such as informed consent, confidentiality, and respect for participants' rights.
- Research involving animals should comply with relevant ethical guidelines for animal welfare.

7. Publication and Redundant Publication

- **Duplicate Submission:** Manuscripts should not be submitted to more than one journal at the same time.
- **Redundant Publication:** Authors should not submit work that has already been published elsewhere, unless there is significant new data or analysis.

8. Handling of Errors and Retractions

- Authors should promptly notify editors of any significant errors or inaccuracies in their published work. Corrections should be made, and retractions issued if necessary.

9. Ethical Considerations in Clinical Trials

- Clinical research should adhere to ethical guidelines, including proper registration of clinical trials and following ethical review board procedures.

10. Respect for Intellectual Property

- Authors should respect intellectual property rights, ensuring they have the necessary permissions for any third-party materials (e.g., images, tables) used in the publication.

These guidelines should be communicated clearly to all researchers, faculty, and staff involved in publication activities at the institution, ensuring a culture of ethical and responsible publishing.



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Gingivitis and periodontitis are by far the most common forms of human periodontal diseases. Gingivitis develops within 4- 7 days of plaque accumulation. Bacteria are the accepted etiologic agents in its (1) initiation as well as progression. Essential oils carry some of the most potent antibacterial and anti- (2) fungal properties. Oil pulling therapy or oil swishing is an ancient Ayurvedic remedy procedure which involves the swishing of oil in the (3) mouth for oral and systemic health benefits. It has been in use, since time immemorial, to prevent decay, oral malodor, bleeding gums, dryness of the throat, cracked lips and for strengthening teeth, gums, (4) and the jaw. Oil pulling works by sucking out the toxins from the (2) mouth, thus detoxifying the... (only first 800 chars shown)



Analysis complete. Our feedback is listed below in printable form. Some of the items have been truncated or removed to provide better print compatibility.

Plagiarism Detection

Original Work

Originality: 75%



This paper appears to be original, but be certain that any included text is properly cited.

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Grammar

Grammar Suggestions

Error	Suggestion
diseases.	diseases.
antibacterial	antibacterials
	An
	is
	a
	the

Word Choice

Usage of Bad Phrases

Bad Phrase Score: 1.85 (lower is better)

The Bad Phrase Score is based on the quality and quantity of trite or inappropriate words, phrases, egregious misspellings, and cliches found in your paper. You did equal or better than **58%** of the people in your education level.



You did an okay job but below are some tips to improve the phrases throughout your writing.

You may wish to use a thesaurus to replace or reduce your usage of the following words and/or phrases in your paper (worst 10):

most, well, some, use, fat, are, far, is

Style

Usage of Transitional Phrases

Transitional Words Score: 116

This score is based on quality of transitional phrases used within your paper. You did equal or better than **96%** of the people in your education level.



Great job! Your usage of transitional phrases is well above average! You may not need to read the info below, but you're such a meticulous

(http://www.PaperRater.com/vocab_builder/show/meticulous) writer that you probably will anyways.



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Variety is the hallmark (http://www.PaperRater.com/vocab_builder/show/hallmark) of a good writer and this is especially true in regards to sentence starts. Creatively arranging sentence beginnings breaks up the monotony (http://www.PaperRater.com/vocab_builder/show/monotony) and choppy style associated with a simple noun phrase followed by a verb. This does NOT mean that all sentences should begin with prepositional phrases, transitions, or adverbial phrases, but it does mean that you should be certain to pay attention to sentence starts and deliberately edit for variety if necessary. Here are some simple sentence starts that we found in your text:

- **Gingivitis develops** within...
- **Bacteria are** the...
- **Essential oils carry** some...
- **Oil pulling** therapy...
- **It has been**...
- **Oil pulling** works...
- **Virgin coconut oil extracted** using...
- **It is** therefore...

Starts by Part of Speech:

Adjective: 9%

Adverb: 9%

Article: 0%

Conjunction: 0%

Noun: 55%

Preposition: 9%

Pronoun: 18%

Verb: 0%

Other: 0%



Helpful Resources:

- Sentence Beginnings - your sentences' first impression
(<http://blog.paperrater.com/2015/06/sentence-beginnings.html>)

Vocabulary Words

Usage of Academic Vocabulary

Vocabulary Score: 503.62

This score is based on the quantity and quality of scholarly vocab words found in the text. You did equal or better than **71%** of the people in your education level.



Vocabulary Word Count: 17

Percentage of Vocab Words: 12.15%

Vocab Words in this Paper (top 20):

etiologic, systemic, periodontal, accumulation, initiation, progression, potent, oxidants, microbial, subjected, periodontitis, develops, agents, essential, fungal, properties, remedy



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One sign of an excellent writer is the use of transitional phrases (e.g. therefore, consequently, furthermore). Transitional words and phrases contribute to the cohesiveness (http://www.PaperRater.com/vocab_builder/show/cohesiveness) of a text and allow the sentences to flow smoothly. Without transitional phrases, a text will often seem disorganized and will most likely be difficult to understand. When these special words are used, they provide organization within a text and lead to greater understanding and enjoyment on the part of the reader.

The following transitional phrases were found in your document:
and, since, thus, certainly, therefore

Consider using additional transitions where appropriate:

- consequently (http://paperrater.com/vocab_builder/show/consequently)
- moreover (http://paperrater.com/vocab_builder/show/moreover)
- nevertheless (http://paperrater.com/vocab_builder/show/nevertheless)
- notwithstanding (http://paperrater.com/vocab_builder/show/notwithstanding)
- accordingly (http://paperrater.com/vocab_builder/show/accordingly)
- conversely (http://paperrater.com/vocab_builder/show/conversely)
- ordinarily (http://paperrater.com/vocab_builder/show/ordinarily)

Transitional phrases may be used in various places in a text:

- between paragraphs
- between sentences
- between sentence parts
- within sentence parts

Consider this example:

Form and function are central themes in Biology. **However**, knowing the structure of something does not necessarily reveal its function.

The word '**however**' contributes to greater unity or cohesion between sentences and allows the text to flow more smoothly.

Style

Sentence Length Info

Total Sentences: 11

Avg. Length: 18.4 words

Short Sentences (< 17 words): 5 (45%)

Long Sentences (> 35 words): 0 (0%)

Sentence Variation: 7.5 words (std deviation)



It is important to vary between simple and complex sentences (<http://blog.paperrater.com/2015/05/effective-use-of-sentence-length.html>), which you seem to have done quite well.

Line chart of the length of each sentence (first 50 sentences). A jagged chart indicates variation.



Helpful Resources:

- Effective Use of Sentence Length (<http://blog.paperrater.com/2015/05/effective-use-of-sentence-length.html>)



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Nice work! Although you scored above average, consider visiting our Vocab Builder (http://www.PaperRater.com/vocab_builder/index) to enhance your paper even more.

Tips

Whether you are writing for a school assignment or professionally, it is imperative that you have a vocabulary that will provide for clear communication of your ideas and thoughts. You need to know the type and level of your audience and adjust your vocabulary accordingly. It is worthwhile to constantly work at improving your knowledge of words. To help with this task, please consider using our Vocabulary Builder (http://www.PaperRater.com/vocab_builder/index) to improve your comprehension and usage of words.

→ **Grade**

Auto Grader

Grade: 80 B

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