

Supplementary material:

S1: Ethical approval University of Central Lancashire

S2: Copy of Survey Questionnaire

S3: Comparison between participants with prior training in implants and familiarity with diagnostic criteria

S4: Chi-Square tests

S1: Ethical Approval University of Central Lancashire

 University of Central Lancashire UCLan	University of Central Lancashire Preston PR1 2HE 01772 201201 uclan.ac.uk
18 October 2021	
Sonu Thomas / Fadi Barrak School of Dentistry University of Central Lancashire	
Dear Sonu / Fadi	
Re: Health Ethics Review Panel Application Unique Reference Number: HEALTH 0207	
The Health Ethics Review Panel has granted approval of your proposal application 'Awareness of peri-implantitis among general dental practitioners, a questionnaire study'. Approval is granted up to the end of project date. *	
It is your responsibility to ensure that:	
- the project is carried out in line with the information provided in the forms you have submitted - you regularly re-consider the ethical issues that may be raised in generating and analysing your data - any proposed amendments/changes to the project are raised with, and approved by, the Ethics Review Panel - you notify Ethicsinfo@uclan.ac.uk if the end date changes or the project does not start - serious adverse events that occur from the project are reported to the Ethics Review Panel - a closure report is submitted to complete the ethics governance procedures (existing paperwork can be used for this purpose e.g. funder's end of grant report; abstract for student award or NRES final report. If none of these are available, use the e-Ethics Closure Report pro forma).	
Yours sincerely	
	
Jane Fitzgerald Deputy Vice-Chair Health Ethics Review Panel	
* for research degree students this will be the final lapse date	
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NB - Ethical approval is contingent on any health and safety checklists having been completed and necessary approvals gained as a result.	

S2: Copy of Survey Questionnaire

Awareness of Peri-implantitis among General Dental Practitioners

Thank you for your participation in this survey. Please read and complete all sections: Sections 1 and 2 are the Participant Information Sheet, section 3 is consent to take part in the survey, whilst the last section (section 4) is the Questionnaire. The whole exercise will take around five minutes.

* Required

Participant information sheet

What is the purpose of the study?

This study aims to understand the awareness of General Dental practitioner's regarding peri-implantitis and the factors associated with it. This research project may help support the educational needs of General dental practitioners and undergraduate students regarding diagnosis and management of peri-implant diseases.

Why have I been invited?

You have been invited since you are a registered dental practitioner and we are assuming that you have had an opportunity to see patients with dental implants.

Do I have to take part?

No. The decision to participate or not is completely voluntary. You are free to exit the study at any point while doing the questionnaire and this will not affect you in any way. There is no collection of identifiable information at any point of this study and the researchers will not have any data even if you stop and exit midway. Once you have submitted your response you will not be able to withdraw them. This is done to ensure the confidentiality of the participants so that the researchers would not prefer identifiable information relayed to them at a later stage.

What will happen if I take part?

Once you decide to take part you will be asked to complete a consent statement following which you will be directed to the questionnaire. Once you have completed the form you can submit it. This research is conducted as part of the MSc Implantology course dissertation and the researchers are the student and supervisor involved in this Primary research project. Following the data collection through the questionnaire, the researchers will analyse the results for research and publication purposes.

How will the data be used?

Following the data collection through the questionnaire, the researchers will analyse the results for research and publication purposes.

Will my data be archived for use in other research projects in the future?

The data collected is intended for use for this particular study.

Who will have access to the data?

The research team will have access to the data. The university will be the data controller for the data.

The University privacy notices for research participants are attached below.

<https://www.uclan.ac.uk/legal/privacy-notices/research-participants>
[/https://www.uclan.ac.uk/legal/privacy-notices/research-participants](https://www.uclan.ac.uk/legal/privacy-notices/research-participants)

How will my data be destroyed?

participant information (contd)

The data will be stored in secured university network for 5 years in line with university policy and will be deleted after 5 years.

What are the possible risks/disadvantages of taking part?

There are no risks or disadvantages involved for the participants in taking part in this study.

Is there any benefit in taking part in this study?

Participation in this research project is altruistic; it is on the basis of informed consent.

Do the researchers have any financial advantages in conducting this research?

No. There are no payments or financial incentives to the researchers in conducting this research.

What will happen to the results of the study?

This study is conducted as part of the MSc dissertation project for Implantology at the University of Central Lancashire. The researchers aim to publish the study in a peer reviewed journal, presentation in a scientific conference and to convey the results to education providers which will help them to organise relevant CPD covering this topic.

What will happen if I want to stop taking part?

You will be able to withdraw from participation before submitting the questionnaire. Once submitted withdrawal is not possible as the data collected is anonymised. It will not be possible to tell which results belong to which person. Additionally, once data has been collated and/or reported it may not be possible to isolate and extract.

Whom should I contact if there is a concern or any further questions?

If you have any concerns, please feel free to contact me directly at SThomas21@uclan.ac.uk (<mailto:SThomas21@uclan.ac.uk>) or my supervisor Fadi Barrak at FNbarrak@uclan.ac.uk (<mailto:FNbarrak@uclan.ac.uk>).

What are the contact details of the investigators?

Student Investigator

SThomas21@uclan.ac.uk (<mailto:SThomas21@uclan.ac.uk>)

Sonu Thomas

Final year Implantology student

University of Central Lancashire

Supervisor

FNbarrak@uclan.ac.uk (<mailto:FNbarrak@uclan.ac.uk>)

Course Lead

Course Lead, MSc in Implant dentistry

School of Medicine and Dentistry

Harrington Building

University of central Lancashire

4/18/2022

Consent

1. I have read and understood the purpose of this survey.

☐ yes

☐ No

2. I understand that my participation is entirely voluntary and can withdraw from the survey at any time prior to finishing without giving an explanation .

☐ Yes

☐ No

3. I understand that my personal details will not be collected or stored at any point in the survey.

☐ Yes

☐ No

4. I understand that once I submit the survey it cannot be withdrawn.

☐ Yes

☐ No

5. I understand that the information I provide will be held securely and in line with data protection requirements at the University of Central Lancashire

☐ Yes

☐ No

6. I consent to take part in the survey

☐ Yes

☐ No

Please complete the following questions-some questions can have multiple answers

7. Year of Qualification *

8. Part of UK where you are working

- ☐ England
- ☐ Scotland
- ☐ Wales
- ☐ Northern ireland

9. Number of years post qualification experience

- ☐ 0-10 years
- ☐ 11-20 years
- ☐ >20 years

10. What is your current practice setting?

- ☐ NHS or Mixed Practice
- ☐ Fully private practice
- ☐ Hospital setting
- ☐ University setting
- ☐ Community Dental services

11. Did you have prior training in implants?

☐ Yes

☐ No

12. If 'yes' to question 11 what is the level of training?

☐ Certificate

☐ PG certificate

☐ PG Diploma

☐ MSc

☐ Short course

☐ None of the above

13. Are you currently involved in restoring or placing implants?

☐ Yes

☐ No

14. Do you specifically examine dental implants during an examination even if you have not carried out the treatment

☐ Yes

☐ No

15. Would the following scenarios be appropriate referrals for implant treatment? (can choose multiple answers)

- ☐ Patient requests anterior maxillary implant, while there is lack of posterior support
- ☐ Patient requests implant treatment in upper right quadrant while there are decayed teeth in other quadrants.
- ☐ Patient is an irregular attender for check ups and have poor oral hygiene
- ☐ Patient with active periodontal disease
- ☐ 85 year old patient requesting implants with no medical conditions and well looked after dentition
- ☐ 18 year old boy loses a front tooth following a fall

16. Are you familiar with any formal criteria for diagnosis of peri-implantitis and peri-implant mucositis?

- ☐ Yes
- ☐ No

17. Do you probe around implants?

- ☐ Yes
- ☐ No

18. If answered 'No' to q. 17 what is the reason?

- ☐ Fear of damage to the implant surface
- ☐ Fear of causing an infection
- ☐ Fear of becoming involved medicolegally
- ☐ not sure what to look for
- ☐ not sure to assess

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19. From the list below, choose the major factors that predispose to peri-implantitis(can choose multiple answers)

- ☐ Smoking
- ☐ Uncontrolled Diabetes
- ☐ Not attending regular maintenance therapy
- ☐ Active periodontitis
- ☐ Occlusal overload
- ☐ Bleeding disorders
- ☐ Thin biotype
- ☐ Medications such as Methotrexate, Selective serotonin reuptake inhibitors(SSRI's)
- ☐ Cleansable emergence profile/prosthesis
- ☐ > 80 years old
- ☐ High Smile line
- ☐ Poor Oral Hygiene

20. Which of the following are the diagnostic criteria for peri-implantitis? (can choose multiple answers)

- ☐ presence of bleeding/suppuration on gentle probing
- ☐ increased probing depth compared to previous examinations
- ☐ probing depth greater than or equal to 4 mm in absence of previous examination data
- ☐ probing depth greater than or equal to 6 mm in the absence of previous examination data
- ☐ loosening of the abutment
- ☐ bone loss of 3 mm or more from the neck(coronal margin) of the implant

S3: Comparison between participants with prior training in implants and familiarity with diagnostic criteria

Did you have prior training in implants? * Are you familiar with any formal criteria for diagnosis of peri-implantitis and peri-implant mucositis? Crosstabulation					
			Are you familiar with any formal criteria for diagnosis of peri-implantitis and peri-implant mucositis?		Total
			No	Yes	
Did you have prior training in implants?	No	Count	135	14	149
		Expected Count	101.8	47.2	149.0
		% within Did you have prior training in implants?	90.6%	9.4%	100.0%
		% within Are you familiar with any formal criteria for diagnosis of peri-implantitis and peri-implant mucositis?	88.2%	19.7%	66.5%
		% of Total	60.3%	6.3%	66.5%
	Yes	Count	18	57	75
		Expected Count	51.2	23.8	75.0
		% within Did you have prior training in implants?	24.0%	76.0%	100.0%
		% within Are you familiar with any formal criteria for diagnosis of peri-implantitis and peri-implant mucositis?	11.8%	80.3%	33.5%
		% of Total	8.0%	25.4%	33.5%
Total		Count	153	71	224
		Expected Count	153.0	71.0	224.0
		% within Did you have prior training in implants?	68.3%	31.7%	100.0%
		% within Are you familiar with any formal criteria for diagnosis of peri-implantitis and peri-implant mucositis?	100.0%	100.0%	100.0%
		% of Total	68.3%	31.7%	100.0%

S4: Chi-Square tests

Chi-Square Tests				
	Value	df	Asymptotic Significance (2-sided)	Exact Sig. (1-sided)
Pearson Chi-Square	102.223 ^a	1	<.001	
Continuity Correction ^b	99.169	1	<.001	
Likelihood Ratio	104.283	1	<.001	
Fisher's Exact Test				<.001
Linear-by-Linear Association	101.766	1	<.001	
N of Valid Cases	224			

a. 0 cells (.0%) have expected count less than 5. The minimum expected count is 23.77.
b. Computed only for a 2x2 table