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A 5 year retrospective assay of implant complications in private practice

Project No:002Commencement Date:May 2010Chief Investigator A:A/Prof Roy JudgeCompletion Date:October 2016Chief Investigator B:Dr Denise BaileyStatus:CompleteAssociate Investigators:Dr Peter Apostolopolulos, Mr Arun Chandu, Dr Robert De Poi, Mr Michael Lacy, Dr

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Support: Australasian Osseointegration Society (Victorian Branch), Australian Society of

Periodontology (Victorian Branch), Australian Prosthodontic Society (Victorian

Branch), Australian Society of Implant Dentistry

Introduction

With the implant experience in Victoria well developed, this eviDent project seeks to gain information about the past experiences of practitioners that will then drive a set of evidence based guidelines for the management of implant patients.

Aims

- To describe practitioner characteristics;
- To describe the demographics of patients receiving implant restorations;
- To describe the baseline medical and oral health conditions of patients receiving implant supported restorations;
- To describe the distribution of the different implant systems used;
- To document the time and type of implant restoration;
- To describe the placement/ location of implant restorations by tooth position in the arch;
- To describe the type and timing of restorative and biological complications observed;
 and
- To identify trend patterns that appear to contribute to these complications.

Rationale

The data from this project will allow the development of practitioner guidelines for treatment planning, case management and complication management. These research based guidelines will be central to a future prospective study in which patients would be managed and monitored using the formulated guidelines.

Methodology

A retrospective assay of patient records supplied by practitioners who have placed and/or restored implants. A data extraction tool will be used by two Research Assistants with specific training in implant terminology and previous experience of extracting data from dental records. Inclusion criteria for implants

- Placed or restored by practitioners between January 2005 December 2009 inclusive
- Single tooth implants (these may be multiple single tooth implants in the same patient)
- Multiple-unit implant cases

Exclusion criteria for implants

• Cases with missing or incomplete records.

What are the expected outcomes?

It is anticipated this project will:

- evaluate the efficacy of the measures used to manage the complications; and
- provide information that would lead to evidence based management strategies for implant cases in Victorian private practices.





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Findings

- Medically diverse group
- Clinicians must be familiar with their target demographic and understand how the common co-morbidities amongst this patient group can influence clinical decision making and outcomes.
- Operator reported attrition was related to higher rate of veneering material fracture.
- More contact point complications were found in the posterior regions of the oral cavity.
- More female patients received implant restorations in the posterior region of the mouth.
- The clinicians, particularly the specialists generally favoured a retrievable design in choosing the method of retention for the prostheses.

Publications

 Analysis of commonly reported medical conditions amongst patients receiving dental implant therapy in private practice

S Austin, D Bailey, A Chandu, M Dastaran, R Judge

Accepted for publication in the Australian Dental Journal 12 October 2014

A 5 year retrospective assay of implant treatments and complications in private practice:
 The Restorative Complications of Single and Short Span Implant Supported Fixed
 Prostheses

J Wang, R Judge, D Bailey

Accepted for publication in the International Journal of Prosthodontics

A 5 year retrospective assay of implant treatments and complications in private practice:
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