

## Introduction to Dental Implant – Foundation Course.

### Online Material

The history of implants

Basic terminology-

Osseointegration

Implant length, width and taper

Bone level v tissue level

Cylinder v tapered

Different grades of titanium

Surface characteristics- machined/blasted/anodised

Platform switching

How do these affect integration and longevity

Fixture level v abutment level

Screw and cement retained

Bone

- What happens once a tooth is removed
- Extraction socket healing
- Long term resorption
- Bone quality and quantity scales

FP1/2/3 classification

Pharmacy

- LA
- IVS
- Analgesics
- Antibiotics
- Steroids

Placement timing

- Late
- Ridge preservation,
- Delayed
- Immediate
- Immediate load

## GBR

- Artificial
- Xenograft
- Allograft
- Membranes

## Surgical anatomy

Sterile surgical set up, handwashing/scrubbing (can share this with nurses too)

Implant instrumentation (can share this with nurses too)

## **Introduction to Dental Implant – Foundation Course**

### **Day 1, Monday 22<sup>nd</sup> June 2026**

**Surgical implant placements, flaps, stents, drilling protocols, augmentation, suturing and post op instructions.**

#### **9am Lecture**

**Introduction to the course**

#### **9.30am Clinical Skills (bring a scrubs top/loupes)**

##### **Atraumatic extractions**

Sectioning, flap raising, bone removal, suturing and luxating/elevating well  
Incising periosteum and flap advancement

#### **11.30am Clinical Skills**

##### **Ridge preservation**

Using an allograft, collagen membrane, collagen cubes and alloplasts to ridge preserve

#### **1pm Lunch**

#### **2pm**

##### **Implant placement- Getting started**

Flap design

Surgical guides

Placement on pigs heads and models

Using brain guided or lab guided surgery

How to prepare your osteotomy consistently well

Feeling insertion torque/primary stability and assessing the need for GBR

Placing GBR and how to secure this for optimum healing

Uncovering/placing healing abutments and various approaches to optimise your outcome

#### **5.30pm**

**Close**

## **Introduction to Dental Implant – Foundation Course.**

### **Day 2, Tuesday 23<sup>rd</sup> June 2026**

### **Restoring implants, design, components, materials, impressions, fitting the restoration.**

#### **9am Lecture 1**

##### **Implant prosthetic introduction and overview**

Overview of implant prosthetics

- Single crowns- cement v screwed
- Bridges- cement v fixture level screw v uni screw
- Abutment and fixture level restorations
- Overdentures

Different materials can be used to create the above restorations.

- Metal ceramic
- Metal acrylic
- Zirconia

#### **10am Lecture**

##### **Implant single crowns and bridges**

Screw and cement retained crowns

- Superior aesthetic of cemented
- Ability to angle correct abutment
- Improved retention and resistance relative 20' uni abutments
- Screw retained more bulky. Retrievable.
- Simple to fit.

Implant bridges

- Cantilever vs F-F
- Cantilevers where to place implant
- Fixture level v uni level
- Implant – tooth (Generally No No)

Passivity

- How achieved and how challenging it can be
- Verification jigs
- Sheffield testing
- Re-setting master model
- Modern digital solutions

**10.45am Break**

### **11am Lecture**

#### **Implant Impression techniques**

- Open vs closed tray techniques
- Special tray vs stock tray
- Internal vs external connection
- Fixture vs abutment level
- Seating radiographs
- Capturing soft tissue profile

#### **Fitting cement and screw retained prosthesis.**

- Torque wrenches.
- Different screw types.
- The importance of understanding torque
- The importance of cement control
- Importance of seating jigs
- Fitting custom abutments

**11.45am**

**Break**

### **12pm Lecture**

#### **Overdentures**

- When should we use them
- What attachment systems are available
- Single attachments vs bars
- Different types of bars available
- When to use bars
- Different ridge classifications

**1pm**

**Lunch**

### **2pm Lecture**

#### **Perio**

Normal periodontium

The BSP guidelines

Difference between implant periodontium and tooth periodontium

Stabilising perio patients

### **3pm Clinical Skills**

#### **Practical restoring implants**

Open and closed tray impressions

Intraoral scanning

Fitting screw retained, cement retained and overdentures

5.15pm Close.

## Introduction to Dental Implant – Foundation Course.

### DIGITAL TRAINING DAY

**Day 3, Wednesday 24<sup>th</sup> June 2026**

**Digital implant dentistry, from planning to restoration.**

**2 lectures + 2 practicals**

#### Overview

A hands-on study day covering the complete digital implant workflow — from planning and guided surgery through to digital restorative design. Structured as four sessions, pairing evidence-based lectures with practical workshops.

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#### Aims

To equip delegates with the knowledge and practical skills to understand, plan, and begin integrating digital implant workflows into their clinical practice — covering both the surgical planning and restorative phases.

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#### Objectives

By the end of the day delegates will be able to:

1

Explain the rationale for digital implant planning and guided surgery, and identify appropriate cases

2

Use implant planning software to complete a prosthetically-driven virtual case with appropriate safety margins

3

Understand surgical guide design options and the pathway from plan to manufactured guide

4

Describe the digital restorative workflow from intraoral scan to screw-retained crown

5

Use CAD software to design a single-unit implant restoration with correct emergence, contour, and occlusal morphology

6

Identify the material and manufacture options available following CAD sign-off

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## Introduction to Dental Implant – Foundation Course

### Day 4, Thursday 24<sup>th</sup> June 2025

#### 9am Lecture

#### **Implant complications (and top tips)**

How and why do things fail?

How do we prevent these complications, and how do we treat them?

Examples of good and bad outcomes shared

9.45am

Break

10am Lecture

**Implant complications (and top tips) contd.....**

10.45am

Break

11am Lecture + clinical skills

**Sponsored talk**

**Implant and kit design, surgical placement, analogue restorative, digital restorative, results and future development**

1pm Lunch

2pm Lecture

**Implant maintenance**

The dentist and hygiene team, patient motivation and keeping the per-i-implant tissues healthy

3.00pm Lecture

**Occlusion**

Normal occlusion

Static and dynamic

How does this change with implants?

Occlusal management-

- Single crowns
- Canines

- Bridges (3 unit to full arch)
- Metal ceramic, zirconia, acrylic)
- Removable prostheses

**4pm Close**

**6pm Evening/Course meal**

## **Introduction to Dental Implant – Foundation Course.**

### **Day 5 Friday 26<sup>th</sup> June 2026**

**9am Lecture + clinical skills**

**Sponsored talk**

**Implant and kit design, surgical placement, analogue restorative, digital restorative, results and future development**

**What is normal, how do failing mouths vary and how might that affect us, what alternative options do we have? Leading into implant treatment planning.**

**11am**

**Break**

**11.30am Lecture**

**Treatment alternatives**

The failing tooth/dentition

Saving teeth

- Endo
- Re-endo
- Apical surgery
- Crown lengthening

Replacing lost teeth

- Conventional bridge work
- Marylands/living bridges
- Dentures (case presentations)

**12.15am**

**Break**

**12.30pm**

**Gauging complexity**

SAC classification

Pulling all the information together

**1pm**

**Lunch.**

**2pm Lecture**

**Gauging complexity contd.....**

SAC classification

Pulling all the information together

**3 pm Breakout Session**

**Treatment planning.**

2 hours roundtable with 3 or 4 groups

Potentially coming back for the last 30mins to discuss these together

**5pm Close.**

## **Introduction to Dental Implant – Foundation Course.**

### **Post course material-**

Accompanying text Oral Implantology- Assessment to Maintenance by Professor Craig Barclay (course founder)

Online JotForm feedback

We welcome all feedback that will help us improve the course. CPD certificates will be sent out after the completion of your feedback form

Emailed out to each delegate-

Patient letter templates

Patient consent templates