smileconcepts
Dominic Hassall
Training Institute

Syllabus and Specific Learning Objectives

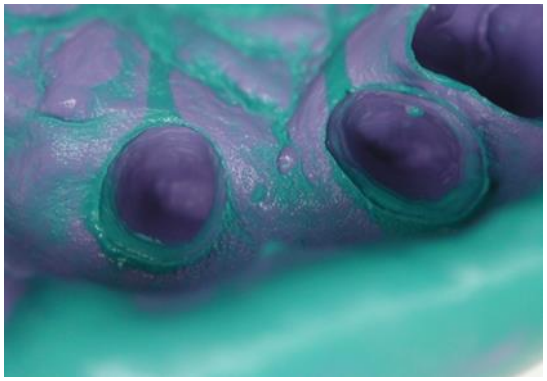
&

GDC Development Outcomes

PG Cert Hands on Course

in

Restorative and Aesthetic Dentistry



DAY 1

Tutorial and contemporary literature

Rules and tools in smile design/aesthetic planning

- The aesthetic assessment sheet/check list
- Facially related tooth position, the basis of aesthetic planning
- Clinical stages in the aesthetic case
- Colour and shade selection in dentistry
- Customising characterisation
- Value, translucency, surface texture, dentine shades
- Successful laboratory communication
- Selecting appropriate tooth value, shape and form
- Gingival porcelains
- Identifying the high risk aesthetic case
- Communication and consent issues

Hands on practical

Aesthetic examination practical
Shade taking exercise

- True shade
- Smile lite

Laboratory prescription exercise
Model preparation exercise

By the end of the session participants should have gained the following:

- Knowledge of how to undertake a risk based rapid, detailed aesthetic assessment in clinical practice
- Knowledge of the importance of patient communication and consent in aesthetic dentistry
- An understanding of the clinical stages in the aesthetic: restorative case to increase aesthetic predictability
- Appreciate the role and limitations of cosmetic imaging
- Understand the role of colour, shade, value, translucency, surface texture, dentine shades and tooth form in shade matching and aesthetic dentistry
- Appreciate the role of customising characterisation and tooth form in successful shade matching and aesthetic dentistry
- Understand how to communicate the laboratory
- Understand the role of gingival porcelains in compromised aesthetic cases
- Practical experience of aesthetic assessment
- Practical experience of laboratory communication Practical experience of current shade taking devices
- Knowledge of how to identify the high risk aesthetic case
- Be able to design a masculine and feminine smile
- Be able to design square and ovoid tooth forms

  GDC Development Outcomes A,B,C



DAY 2

Tutorial and contemporary literature

Treatment planning options in aesthetic and restorative dentistry

- Clinical photography in clinical practice
- Importance of clinical photography
- Consent and communication issues
- Clinical techniques in photography
- Whitening, orthodontics, composite bonding, veneers or crowns?
- The aesthetic and functional diagnostic wax up (the key to success)
- Porcelain veneers
    - From no prep to full coverage
    - Preparation guidelines, temporisation and cementation
    - Use of 'prep through' guides and silicone indexes to biologically control preparation
    - Avoiding failure, patient selection, longevity and consent

Hands on practical

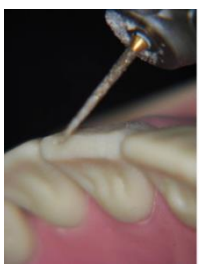
- Veneer preparations
- 'Prep through' and silicone indexes
- Clinical photography practical
- Provisional veneers

By the end of the session participants should have gained the following:

- Knowledge of the treatment options in restorative: aesthetic dentistry including whitening, orthodontics, composite bonding or indirect restorations
- Understand the role of the diagnostic wax up as the key to functional and aesthetic success in clinical practice
- An understanding of how to use 'prep through' and silicone indices to minimise tooth removal in clinical practice
- An understanding of how to temporise veneers and undertake predictable veneer bonding in clinical practice
- An appreciation of the risk factors for veneer failure, patient selection and consent issues in clinical practice
- Practical experience of clinical photography techniques

GDC Development Outcomes: C






DAY 3

Tutorial and contemporary literature

- The “Biologic Width Concept” current evidence
- Implications of the biologic width on aesthetic restorative procedures
- Surgical crown lengthening for the ‘gummy smile’, gingival asymmetry and clinical crown height
- Socket and soft tissue preservation techniques in aesthetic and implant dentistry
- The ovate pontic concept in aesthetic and implant dentistry
- Lasers or electro-surgery?

Hands on Practical

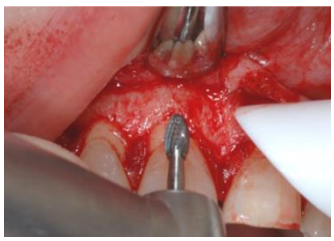
- Flap design and suturing techniques
- Surgical crown lengthening exercise
- Practical electro-surgery techniques

Learning objectives

By the end of this session participants should have gained the following:

- An understanding of the latest theories on the biologic width and why some patients experience recession/inflammation in clinical practice
- An understanding of how to access the biologic width and minimise aesthetic complications in clinical practice
- An understanding of surgical crown lengthening procedures for correction of gummy smile, asymmetry and clinical crown height/ferrule in clinical practice
- Practical experience of crown lengthening procedures and stages in clinical practice
- A knowledge of socket preservation and the ovate pontic technique for soft tissue handling in the aesthetic zone
- An understanding of the role of lasers and electro -surgery in restorative and aesthetic procedures
- Practical experience of electro -surgery techniques

GDC Development Outcomes: C, D

DAY 4

Bioclear Method Level 1 – Techniques for modern anterior composite dentistry

Tutorial and contemporary literature

- Bioclear Method background and method
- Clark Matrix selection and adaptation
- Heating and injection molding of composite materials
- Biofilm removal
- Clark 2-step Polish technique
- Clark Class III cavity design with radius/infinity margin
- Injection molding for Class III restorations
- Black triangle closure/treatment
- Reshaping undersized teeth
- Treatment of peg laterals

Hands on practical

- Cavity design including the infinity edge margin
- Anatomic Clark matrix selection and adaption
- Injection moulding composite technique
- Rock Star 2 step polish
- Anterior deep class III caries
- Treatment of Black Triangles
- Diastema closure and reshaping of undersized peg lateral teeth

By the end of the session participants should have gained the following

- An understanding of the Bioclear method including anterior cavity design using the infinity margin, injection moulding, and the 2-step Bioclear polish technique
- Be able to restore deep anterior cavities using the Clark matrices and Bioclear method
- Be able to treat black triangle disease using the Clark matrices and Bioclear method
- Be able to close diastemas using the Clark matrices and Bioclear method
- Be able to reshape undersized teeth using the David Clark matrices and Bioclear method

GDC Development Outcomes: A,C,D






DAY 5

Bioclear Method Level 2 – Introduction to Posterior Composites

Tutorial and contemporary literature

- Modern science of durable posterior composite
- Prevention of white lines and visible margins in composites
- Clark Matrix selection and adaptation
- Heating and injection molding of composite materials
- Biofilm removal
- Clark 2-step Polish technique
- Clark Class II cavity design
- Injection molding for interproximal Class II restorations
- Modernize G. V. Black cavity design to Clark Modern Composite Restoration

Hands on practical

- New science of strong posterior restorations and teeth
- Marginal design and prevention of white lines or visible margins in composites
- Minimally invasive Clark Class II restoration with injection molding
- Anatomic Clark matrix selection and adaption
- Calla Lily preparation – a tooth reinforcing preparation
- Achieving rock solid contacts with rounded, floss friendly embrasures.
- Rock Star 2 step polish

By the end of the sessions participants should have gained the following;

- An understanding of the Bioclear method including posterior cavity design, injection moulding, and the 3-step Bioclear polish technique
- Be able to select correct anatomical matrix
- Understand the Calla Lily preparation
- Demonstrate excellent contact points

GDC Development Outcomes: A,C,D




DAY 6

Tutorial and contemporary literature

- Selection of contemporary crown and bridge materials
    - E.max and Zirconia
    - Conventional metal ceramic and gold
    - Composite materials
    - Chair-side and laboratory provisional restorations

Hands on practical

- Use of preparation indices
- E.max preparations
- Zirconia preparations
- Metal ceramic preparations
- Full veneer gold preparations

Learning objectives

By the end of the session participants should have gained the following:

- Be able to understand current crown and bridge materials and their indications and limitations in their use
- Be able to undertake successful all ceramic, metal ceramic, gold crown and bridge preparations in clinical practice
- Be able to undertake successful short term and long term provisional restorations in clinical practice
- Be able to select the appropriate material and recognise the inherent risks in currently available materials

GDC Development Outcomes: C




DAY 7

Tutorial and contemporary literature

- Direct or in-direct restoration
- Inlay/onlay or crown?
- Successful core techniques for vital/non vital teeth
- Successful post systems
- Contemporary bridge techniques
    - Successful adhesive bridges (metal and zirconia based)
    - Large span bridges
    - Fixed moveable bridges for angulation difficulties
    - Coping bridges for poor prognosis abutments

Minimising failure in fixed prosthodontics and aesthetic dentistry

- Mechanical and biologic factors in failure
- Appropriate abutment selection
- Pulpal protection and the Pashley technique
- The importance of particle abrasion
- Predictable impression techniques and material selection
- Current recommendations in cement choice
- Core/post materials and techniques
- Patient and laboratory factors in failure
- Importance of the ferrule effect

Hands on practical

- Inlay and onlay preparation techniques and temporisation
- Adhesive bridge techniques

Learning objectives

By the end of the session participants should have gained the following:

- Be able to appropriately select an inlay, onlay or crown in clinical practice
- Appreciate current aesthetic and functional core and post materials and techniques for vital and non-vital teeth
- Be able to undertake successful adhesive bridge techniques in clinical practice
- Understand advanced bridge techniques including large span, coping and fixed moveable bridges
- Appreciate how to minimise complications and failure in fixed prothdotontics
- Be able to assess risk in abutment selection
- Be able to select appropriate cements
- Be able to undertake predictable accurate impressions in clinical practice
- Be able to undertake inlay and onlay preparations and predictable temporisation in clinical practice
- Appreciate the importance of and how to achieve the ferrule effect

GDC Development Outcomes: C