

**THE ROYAL COLLEGE OF SURGEONS OF EDINBURGH
THE ROYAL COLLEGE OF SURGEONS OF ENGLAND
THE ROYAL COLLEGE OF PHYSICIANS AND SURGEONS
OF GLASGOW**

**TRICOLLEGIATE
DIPLOMA OF MEMBERSHIP IN PAEDIATRIC DENTISTRY
(M PAED DENT)**

**Learning Outcomes and Assessment Blueprint
May 2011**

The Diploma of Membership in Paediatric Dentistry is a summative assessment in the field of paediatric dentistry as defined by these Learning Outcomes.

The assessment is intended to test the candidate's knowledge, skills and attitude relevant to the practice of a Specialist in Paediatric Dentistry. The Learning Outcomes are those laid down in the Speciality Training Curriculum, Paediatric Dentistry 2009 by the Speciality Advisory Committee for Paediatric Dentistry and agreed by the General Dental Council.

The aims of the assessment are to allow the candidate to demonstrate:

- a core knowledge of Paediatric Dentistry.
- a level of competence in the planning and delivery of Paediatric Dentistry.

The following table shows the GDC approved specialty training curriculum. The areas of the curriculum which are examinable in the Tri-Collegiate Membership in Paediatric Dentistry Examination are indicated by an X against them. This also shows which components of the Examination may include the various areas of the curriculum.

WE = Written Paper
CP = Clinical Case Presentations
CG = Clinical Governance Project
SC = 4 Simulated Cases – Testing Diagnosis and Treatment Planning

Generic content

MAINTAINING GOOD CLINICAL PRACTICE

	WP	CP	CG	SC
On completion of training, a Specialist in Paediatric Dentistry should be able to describe:				
the principles of evidence-based practice	X	X	X	X
the principles of retrieval and utilisation of data recorded in clinical systems		X	X	
the principles of risk assessment	X			
the principles of internal and external quality assurance	X			
the content of guidelines applicable to the practice and delivery of Paediatric Dentistry	X	X	X	X
the principles of Paediatric Basic Life Support				X
the role of Postgraduate Deaneries, specialist societies, the Dental Faculties of the Surgical Royal Colleges, defence unions, BDS and GDC	X			
On completion of training, a Specialist in Paediatric Dentistry should be able to:				
monitor own performance through audit and feedback			X	
critically appraise evidence		X	X	
Communicate effectively through written records	X	X		X
apply the principles of confidentiality in the context of written records	X	X		
apply the principles of confidentiality in the context of information technology	X	X		
participate actively in clinical governance		X	X	
participate in audit		X	X	
carry out risk assessment			X	X
develop and apply relevant risk assessment procedures			X	X
initiate and complete audit projects			X	
interpret and apply guidelines applicable to the practice and delivery of Paediatric Dentistry	X	X	X	X

	WP	CP	CG	SC
On completion of training, a Specialist in Paediatric Dentistry should:				
demonstrate an understanding of the need to use evidence in the support of patient care and own decisions therein	X	X	X	X
demonstrate an understanding of the legal aspects relating to holding written, electronic and digital records	X	X	X	
demonstrate respect for paediatric patients' privacy, dignity and confidentiality		X		X
recognise the importance of teamwork in implementing a clinical governance framework			X	
demonstrate an understanding of the benefit of audit to patient care and individual performance		X	X	
show regard for individual patient needs when utilising guidelines		X		X
show regard for patient safety		X	X	X

TEACHING/TRAINING, APPRAISAL/ASSESSMENT, RESEARCH AND PUBLICATION

	WP	CP	CG	SC
On completion of training, a Specialist in Paediatric Dentistry should be able to describe:				
the principles of undertaking projects including ethical considerations	X		X	
On completion of training, a Specialist in Paediatric Dentistry should be able to:				
carry out a project complying with the requirements for ethical approval and patient consent			X	
present findings effectively both verbally and in writing			X	
On completion of training, a Specialist in Paediatric Dentistry should:				
demonstrate an enquiring mind		X	X	X
respect patients' and parents'/carers' autonomy and wishes in respect of research/audit		X	X	X

RELATIONSHIPS WITH PAEDIATRIC PATIENTS/PARENTS/CARERS

	WP	CP	CG	SC
On completion of training, a Specialist in Paediatric Dentistry should be able to describe:				
the relevant law pertaining to equality and diversity	X			X
the process for gaining informed consent in relation to paediatric patients		X		X
relevant strategies to ensure confidentiality in relation to child and adolescent patients		X		X
the situations in which confidentiality might be broken in relation to child and adolescent patients		X		X
the legal issues relating to the practise and delivery of Paediatric Dentistry		X		X
On completion of training, a Specialist in Paediatric Dentistry should be able to:				
treat patients/parents/carers fairly and in line with the law				X
promote equal opportunities for all patients or groups of patients		X		X
obtain informed consent in relation to child and adolescent patients		X		X

	WP	CP	CG	SC
work with other agencies to obtain informed consent in exceptional circumstances		X		X
share information appropriately when necessary to safeguard children		X		X
work within appropriate legal frameworks		X		X
apply knowledge of children's rights to the clinical situation		X		X
On completion of training, a Specialist in Paediatric Dentistry should:				
demonstrate a non-discriminatory approach to patients/parents/carers		X		X
respect paediatric patients' and parents'/carers' autonomy and wishes		X		X
respect the right to confidentiality		X		X
demonstrate empathy while acting in the child's/family's best interests		X		X

Specialty-specific content

BIOLOGICAL SCIENCE RELEVANT TO PAEDIATRIC DENTISTRY

	WP	CP	CG	SC
On completion of training, a Specialist in Paediatric Dentistry should be able to describe:				
normal development and potential abnormalities in <ul style="list-style-type: none"> • general growth • craniofacial growth • growth of the dento-alveolar complex • tooth eruption 	X			
the principles of genetically determined conditions	X			
the features and genetic basis of common syndromes with significant oro-facial features	X			
the features and genetic basis of genetically determined defects of dental hard tissues and of tooth form, size and number	X			
the role of cell biology in health and disease	X			
On completion of training, a Specialist in Paediatric Dentistry should be able to:				
apply knowledge of genetics in the diagnosis of oro-facial and dental conditions	X	X		X
detect abnormality in general, craniofacial or dento-alveolar development		X		X
apply knowledge of cell biology in the diagnosis and treatment of oro-facial and dental conditions	X	X		X
On completion of training, a Specialist in Paediatric Dentistry should:				
demonstrate an understanding of the impact of abnormalities in general, craniofacial or dento-alveolar development on patients and their families		X		X
demonstrate an understanding of the role of the paediatric dentist as part of multidisciplinary teams in the management of patients with abnormalities in general, craniofacial or dento-alveolar development	X	X		X

	WP	CP	CG	SC
demonstrate an understanding of the impact of genetically determined conditions on patients and their families		X		X
demonstrate an understanding of the role of the paediatric dentist as part of multidisciplinary teams in the management of patients with genetically determined conditions		X		X

HEALTH EDUCATION/PROMOTION AND EPIDEMIOLOGY RELEVANT TO PAEDIATRIC DENTISTRY

	WP	CP	CG	SC
<i>On completion of training, a Specialist in Paediatric Dentistry should be able to describe:</i> key DoH and expert guidance and policy regarding Health Education and Promotion	X			
the design and conduct of oral epidemiological studies and surveys, especially those performed in relation to UK children	X			
<i>On completion of training, a Specialist in Paediatric Dentistry should:</i> demonstrate an understanding of the role of the Paediatric Dentist in Health Education and Promotion		X		X
demonstrate an understanding of the value and limitations of epidemiological studies	X			

GENERAL PAEDIATRICS, PAEDIATRIC SUBSPECIALTIES, MEDICALLY COMPROMISED CHILDREN AND ADOLESCENTS AND THOSE WITH SPECIAL NEEDS

	WP	CP	CG	SC
<i>On completion of training, a Specialist in Paediatric Dentistry should be able to describe:</i> the key conditions which may make children more prone to oral/dental disease or which may complicate the delivery of oral/dental care, and a detailed knowledge of their oral/dental management	X			
tools to facilitate communication with children/adolescents with learning difficulties and sensory impairments	X			
The impact of cardiac, haematological, oncological, neurological, metabolic and endocrine disorders and organ transplantation and their management on <ul style="list-style-type: none"> • soft and hard tissues • the delivery of oral and dental care 	X	X		X
<i>On completion of training, a Specialist in Paediatric Dentistry should be able to:</i> <ul style="list-style-type: none"> • diagnose • treatment plan • provide safe and effective treatment (including the use of inhalation sedation and general anaesthesia) for children with conditions which may make them more prone to oral/dental disease or which may complicate the delivery of dental care 		X		X

	WP	CP	CG	SC
<ul style="list-style-type: none"> communicate effectively with other clinicians work within multidisciplinary teams involved in the care of children with conditions which may make children more prone to oral/dental disease or which may complicate the delivery of dental care diagnose treatment plan 			X	X
<ul style="list-style-type: none"> provide safe and effective treatment for children/adolescents suffering from cardiac, haematological, oncological, neurological, metabolic and endocrine disorders and those undergoing organ transplantation 		X		X
On completion of training, a Specialist in Paediatric Dentistry should:				
demonstrate an understanding of the impact of disability and impairment on children and their families		X		X
demonstrate an appreciation of the impact of disability and impairment on treatment planning and provision		X		X
demonstrate an understanding of the psychological and social impact of chronic disease on children and their families		X		X
demonstrate an appreciation of the impact of chronic disease on treatment planning and provision		X		X
demonstrate an understanding of the necessity to work with colleagues in appropriate dental and medical specialties and other relevant agencies where necessary		X		X

BEHAVIOURAL SCIENCE AND BEHAVIOUR MANAGEMENT RELEVANT TO PAEDIATRIC DENTISTRY

	WP	CP	CG	SC
On completion of training, a Specialist in Paediatric Dentistry should be able to describe:				
the principles of child cognitive development and behavioural psychology	X			
non-pharmacological behaviour management techniques used in Paediatric Dentistry	X			
the facilities necessary for the safe delivery of inhalation sedation	X			
other sedation techniques appropriate to the management of anxious children	X			
the facilities necessary for the safe delivery of dental care under GA	X			
the dentist's role in the management of complications/emergencies which may occur during delivery of GA	X			
On completion of training, a Specialist in Paediatric Dentistry should be able to:				
deliver comprehensive restorative care and exodontias for children/adolescents under general anaesthesia		X		
On completion of training, a Specialist in Paediatric Dentistry should:				
demonstrate an understanding of the appropriateness of various approaches to behaviour management in different situations and in children /adolescents of different ages		X		X
demonstrate an understanding of the ethical and legal aspects of managing child/adolescent behaviour in the dental setting	X	X		X

	WP	CP	CG	SC
demonstrate an understanding of the ethical and legal requirements relating to the delivery of inhalation sedation	X	X		X
demonstrate an understanding of when and how to refer appropriately	X	X		X
demonstrate an understanding of the ethical and legal requirements relating to the delivery of dental treatment under GA	X	X		X
demonstrate an understanding of the risks and advantages of various methods of airway management from both the dental and anaesthetic point of view	X	X		X

DIAGNOSIS AND TREATMENT PLANNING FOR CHILDREN AND ADOLESCENTS

	WP	CP	CG	SC
<i>On completion of training, a Specialist in Paediatric Dentistry should be able to describe:</i> normal physical, behavioural and cognitive development of the following age-groups: <ul style="list-style-type: none"> • infant and toddler • 3-6 years • 7-12 years • 13-16 years 	X			
<i>On completion of training, a Specialist in Paediatric Dentistry should be able to:</i> recognise how physical, behavioural and cognitive development may affect the ability of children/adolescents to accept dental care		X		X
formulate appropriate treatment plans (including the use of inhalation sedation and general anaesthesia) for children/adolescents with specialist dental problems		X		X
<i>On completion of training, a Specialist in Paediatric Dentistry should:</i> demonstrate an understanding of how variations in physical, behavioural and cognitive development may affect planning and delivery of dental care		X		X

PREVENTION AND MANAGEMENT OF ORAL DISEASE IN CHILDREN AND ADOLESCENTS

	WP	CP	CG	SC
<i>On completion of training, a Specialist in Paediatric Dentistry should be able to describe:</i> the prevention and management of dental caries in the primary and immature permanent dentitions	X			
the prevention, diagnosis and management of non-carious tooth wear in children/ adolescents	X			
the prevention, diagnosis and management of periodontal disease in childhood and adolescence	X			

	WP	CP	CG	SC
DoH and expert guidance relating to <ul style="list-style-type: none"> • smoking • drugs • alcohol • substance abuse in children/adolescents	X			X
On completion of training, a Specialist in Paediatric Dentistry should be able to: construct and deliver effective and appropriate preventive, restorative and surgical treatment plans for children/adolescents with dental caries		X	X	X
accurately diagnose non-carious TSL in children/adolescents		X		X
construct and deliver effective and appropriate preventive and restorative treatment plans for children/adolescents with non-carious TSL		X		X
deliver appropriate and effective preventive and interceptive periodontal programmes for children/adolescents including <ul style="list-style-type: none"> • mechanical plaque control • antimicrobial plaque control • appropriate use of DCPs 		X		
diagnose and manage periodontal disease in children and adolescents		X		X
recognise when periodontal disease may be related to systemic disease	X	X		X
recognise those children where specialist periodontal opinion/management may be indicated		X		X
deliver effective advice relating to smoking, drug and alcohol abuse for children/adolescents		X		X
On completion of training, a Specialist in Paediatric Dentistry should: demonstrate an understanding of the complexity of the caries process and how variables may interact to render children/adolescents caries prone		X		X
demonstrate an understanding of the key role of preventive care in the management of caries in childhood and adolescence		X		X
demonstrate an understanding of the complexity of non-carious TSL in childhood and adolescence		X		X
demonstrate an understanding of when to refer children/adolescents with TSL to other specialties		X		X
demonstrate an understanding of when to refer children/adolescents with periodontal disease to other specialties		X		X
demonstrate an understanding of the pressures which may lead children/adolescents to <ul style="list-style-type: none"> • smoke • use illicit drugs • abuse alcohol • engage in substance abuse 		X		X

	WP	CP	CG	SC
show sensitivity to differing family attitudes to dentists giving advice to children/adolescents relating to smoking, illicit drugs, alcohol or substance abuse		X		X

ORAL PATHOLOGY, ORAL MEDICINE AND ORAL SURGERY IN CHILDREN AND ADOLESCENTS

	WP	CP	CG	SC
<i>On completion of training, a Specialist in Paediatric Dentistry should be able to describe:</i> the diagnosis and management of <ul style="list-style-type: none"> • mucosal • soft tissue • hard tissue pathology occurring in and around the mouth from birth through adolescence	X			
the diagnosis of impacted and supernumerary teeth	X			
<i>On completion of training, a Specialist in Paediatric Dentistry should be able to:</i> diagnose mucosal, soft and hard tissue pathology occurring in and around the mouth from birth through adolescence		X		X
recognise pathology which requires investigation and management with or by other specialties		X		X
diagnose impacted and supernumerary teeth		X		X

RESTORATIVE TECHNIQUES IN CHILDREN AND ADOLESCENTS

	WP	CP	CG	SC
<i>On completion of training, a Specialist in Paediatric Dentistry should be able to describe:</i> the selection, application, delivery and limitations of contemporary <ul style="list-style-type: none"> • intra-coronal restoration • extra-coronal restoration • endodontic • fixed and removable prosthodontic techniques in primary and immature permanent teeth	X	X		X
the selection and application of therapies appropriate to the management of periodontal conditions in children and adolescents	X	X		X
<i>On completion of training, a Specialist in Paediatric Dentistry should be able to:</i> select and deliver appropriate interventions for primary and immature permanent teeth as part of a holistic oral care treatment plan		X		X

	WP	CP	CG	SC
select and deliver appropriate therapies in the management of periodontal conditions in children and adolescents		X		X
On completion of training, a Specialist in Paediatric Dentistry should: demonstrate an understanding of the variables which may influence the choice of restorative material or technique in different children		X		X
demonstrate an understanding of the variables which may influence the choice of periodontal therapy in different children		X		X

DENTO-ALVEOLAR AND MAXILLOFACIAL TRAUMATOLOGY IN CHILDREN AND ADOLESCENTS

	WP	CP	CG	SC
On completion of training, a Specialist in Paediatric Dentistry should be able to describe: the aetiology presentation, investigation and management of <ul style="list-style-type: none"> • dento-alveolar • intraoral/perioral soft tissue injuries in childhood and adolescence	X			
maxillofacial injuries in childhood and adolescence	X			
On completion of training, a Specialist in Paediatric Dentistry should be able to: diagnose and manage <ul style="list-style-type: none"> • dento-alveolar • intraoral/perioral soft tissue injuries in childhood and adolescence		X		X
identify injured teeth of poor prognosis in the intermediate- and long-term		X		X
On completion of training, a Specialist in Paediatric Dentistry should: demonstrate an understanding of the limitations of the child and parent/carer		X		X
demonstrate an understanding of the limitations of available treatments		X		X

MULTIDISCIPLINARY AND MULTI-AGENCY COLLABORATION IN PAEDIATRIC DENTISTRY

	WP	CP	CG	SC
On completion of training, a Specialist in Paediatric Dentistry should be able to describe: the presentation and features of malocclusion and abnormalities of tooth position and eruption	X			
the use of appliances to correct minor tooth ectopia and crossbites in the primary and mixed dentitions	X			
the application and design of space-maintainers in the primary and mixed dentitions	X			

	WP	CP	CG	SC
the basic principles of the surgical, orthodontic and restorative management of children with craniofacial anomalies	X			
the signs, symptoms and presentations suggestive of child abuse and neglect	X			
the oro-facial signs of child abuse and neglect	X			
the principles and processes of child protection and managing child maltreatment	X			
government guidance related to safeguarding and promoting children's welfare	X			
<i>On completion of training, a Specialist in Paediatric Dentistry should be able to:</i>				
recognise and diagnose problems in the developing occlusion including <ul style="list-style-type: none"> • teeth of poor prognosis • impactions and ectopia • hypodontia • cross-bites 		X		X
recognise possible child abuse and neglect	X	X		X
refer appropriately and/or take appropriate action when abuse or neglect is suspected	X	X		X
Communicate with children, parents and carers when abuse or neglect is suspected		X		X
<i>On completion of training, a Specialist in Paediatric Dentistry should:</i>				
demonstrate an understanding of when an orthodontic opinion should be sought or appropriate referral made		X		X
demonstrate an understanding of the Paediatric Dentist's role in the management of the child with CLP		X		X
demonstrate an understanding of the psychological and cosmetic aspects of the management of children with CLP		X		X
demonstrate an understanding of the Paediatric Dentist's role in the management of the child with craniofacial anomalies		X		X
demonstrate an understanding of the psychological and cosmetic aspects of the management of children with craniofacial anomalies		X		X
demonstrate an understanding of the ethical and legal responsibilities of the Paediatric Dentist when managing suspected abuse and neglect	X			
recognise limitations and when to refer/seek further opinions in cases of abuse/neglect	X			X