

1. Record Nr.	UNINA9910807632703321
Autore	Fleming Padhraig S.
Titolo	Orthodontic functional appliances : theory and practice / / Dr Padhraig Fleming BDent Sc. (Hons.), MSc, PhD, MOrth RCS, FDS (Orth.) RCS, FHEA, Professor Robert Lee BDS, MDS, FDS, MOrth RCS (Eng.)
Pubbl/distr/stampa	Chichester, West Sussex, [England] : , : Wiley-Blackwell, , 2016 ©2016
ISBN	1-118-67056-6 1-118-67054-X
Descrizione fisica	1 online resource (821 p.)
Disciplina	617.6/43
Soggetti	Orthodontic appliances Malocclusion - Treatment
Lingua di pubblicazione	Inglese
Formato	Materiale a stampa
Livello bibliografico	Monografia
Note generali	Description based upon print version of record.
Nota di bibliografia	Includes bibliographical references at the end of each chapters and index.
Nota di contenuto	Title Page; Table of Contents; List of contributors; Preface; CHAPTER 1: Biological basis for functional appliance therapy; Facial growth; Function and craniofacial morphology; Experiments on primates; Other animal studies; The visco-elastic theory; Treatment duration; Maxillary restraint; Summary; References; CHAPTER 2: Development of functional appliances; Activators; Bionator; Functional regulator; Twin Block; Fixed functional appliances; Herbst; Fixed mandibular advancement appliances; Summary; References CHAPTER 3: The role of genetics and environmental factors on the condyle in mandibular growthGenetic control of condylar growth; Evidence from animal experiments: Condylar injury, transplantation and growth factors; Response of the condyle to postural or mechanical changes; Functional/biochemical interface; Environmental influences through functional appliance therapy; Overall control of mandibular growth; Summary; References; CHAPTER 4: Functional appliance therapy; Age; Growth pattern; Vertical skeletal pattern; Antero-posterior skeletal pattern; Transverse skeletal abnormality Occlusal featuresSoft tissues; Compliance; Indications for specific appliances; Summary; References; CHAPTER 5: Clinical use of the Twin

Block appliance; Case selection; Impressions; Bite registration; Appliance design; Fitting the appliance; Follow-up appointments; Breakages; Overjet and reversed overjet; Length of retention; Space planning for fixed therapy; Post-treatment retention; Summary; References; CHAPTER 6: Rigid fixed functional appliances; Herbst; Mechanism of Class II correction; Lower incisor changes; Vertical effects; Timing of Herbst treatment; Soft tissue effects
Mandibular Anterior Repositioning Appliance (MARA) Comparison of fixed functional appliances; Summary; References; CHAPTER 7: Flexible fixed functional appliances; Jasper Jumper; Forsus; Twin Force; Eureka Spring; Summary; References; CHAPTER 8: Transferring from functional to fixed appliances; Planning the transition; Cephalometric superimposition; Timing; Methods of consolidating Class II correction; Conclusions; References; CHAPTER 9: The use of functional appliances in the correction of Class III malocclusion; Aetiology of Class III malocclusion; Early treatment
Mechanisms of Class III correction Case selection; Functional appliances for Class III correction; Summary; References; CHAPTER 10: Functional appliances; Levels of evidence and evidence-based dentistry; Primary study design (randomized and non-randomized studies); What are the short-term effects of functional appliances on the skeletal pattern?; What are the short-term effects of functional appliances on the dentition?; What are the effects of functional appliances on the soft tissues?
What are the long-term effects of functional appliances on the dentition, supporting structures and soft tissues?
