FUNCTIONAL APPLIANCE
DEFINITION

• Loose fitting or passive appliances which harness natural forces of the oro-facial musculature that are transmitted to the teeth and alveolar bone through the medium of the appliance.
CLASSIFICATION

- Removable appliances
- Fixed appliances
  - Myotonic appliances
  - Myodynamic appliances
CLASSIFICATION

• PROFFIT
  - Tooth borne active appliance
  - Tooth borne passive appliance
  - Tissue borne passive appliance

• GRABER
  - Group I appliance
  - Group II appliance
  - Group III appliance
• Force application
• Force elimination
ADVANTAGES

• Elmination of abnormal musculature
• Early treatment
• Psychological disturbances
• Less chair side time
• Less patient visits
• Good oral hygiene
• Night wear only
LIMITATIONS

• Growing patients only
• Cannot bring about individual tooth movement
• Patient compliance
• Pre and post orthodontic treatment required
• ORTHOPEDIC
• DENTOALVELAR
• MUSCULAR
CASE SELECTION

• Age
• Social considerations
• Dental considerations
• Skeletal considerations
• VTO
Profile analysis

Angle of convexity

Class III dental

Concave

Orthognathic

Convex
VESTIBULAR SCREEN
LIP BUMPER
ACTIVATOR
BIONATOR
TWIN BLOCK
FIXED FUNCTIONAL APPLIANCE

• HERBST
• JASPER JUMPER
• EUREKA SPRING
• SAIF SPRING
• MARS