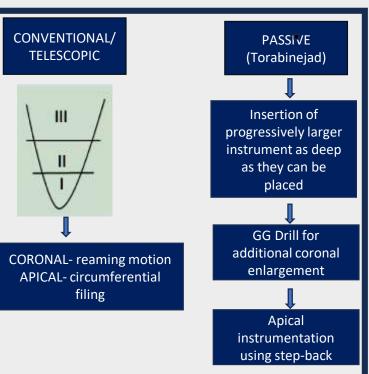
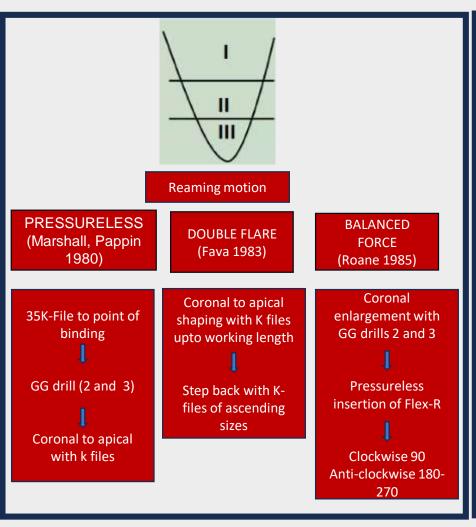
## **BIOMECHANICAL PREPARATION**

STEP-BACK (Clem,Weine,Schilder 1969-1974)



CROWN-DOWN (Goerig 1982)



**HYBRID** 

**Patency** Passive pressure less placement # 15, 20, and 25K-files to the point of canal binding **CROWN-DOWN** Coronal pre-enlargement in the sequence of GG No. 3, followed by No. 2, and then No. 1 (not beyond 3-4 mm into the root canal orifice) Establishing the working length with a size 15 K-file Placement of size 40 or smaller K-file to the point of canal binding (to a length 1 mm beyond the depth of insertion of GG drill No. 1) Enlarging the working length from size 15 K-file to recommended master apical file sizes BACK Canal preparation is done with sequential use of progressively larger instruments placed successively short STEPof the working length This step-back procedure is performed until the middle third to obtain a continuous tapering canal preparation shape