

AAO Handout Washington DC 2018

Serial Extraction-Beyond the Basics

David Kennedy Clinical Professor, Graduate Orthodontics, UBC, Vancouver, BC, Canada
drdavidkennedy@yahoo.ca

The Basics:

15% have severe crowding of 8 mm or more

Done in Class 1 with protrusion, shallow overbite, full profile and severe crowding

-Extract C's

-Extract D's-done to accelerate eruption of 4. Only needed if 3 is erupting ahead of 4

-Extract 4's on eruption-can alternatively enucleate 4 when child apprehensive or unfavorable eruption sequence with 3 ahead of 4

-Braces in permanent dentition-wait for second molars then start

Advantages: canine erupts into attached gingiva-some self-straightening of teeth-some spontaneous space closure-shorter treatment time-easier treatment

Disadvantages: tipping at lower extraction site-increase in Curves of Spee and Wilson-overbite deepens

Beyond the Basics

-**Extract 5 not 4:** done when less crowding-posterior crowding-compromised or ectopic 5-want less facial change-expect more tipping at extraction site-expect more mesial movement of lower molars when 5 extracted rather than 4-expect significant space closure

-**Missing 5:** extract E after assessing amount of crowding, incisor position and desired facial change and occlusion on 6 and 3. Assess for space maintainer to control molar, midline, and space as needed. Expect significant tipping at extraction site-mesial drift of molar-spontaneous space closure-can be used to help correct Class 2 molar position by holding the upper molar and allowing mesial drift of lower molar

-**Missing Incisor:** assess midline, location of crowding, and overjet/overbite to determine best time to extract incisor. Sometimes best to extract early and other times best to delay.

-**Compromised Teeth-First Permanent Molars:** Extraction of permanent molars can be needed because of extensive decay, inability to restore, or poor long-term prognosis. Upper molar extraction is followed by good response with upper 7 moving into upper 6 position. Expect space closure with some upper second molar rotation. Lower molar extraction is best done as the bifurcation of lower 7 is just forming. Expect poorer and more variable response in lower with tipping of lower 7 and partial space closure after lower 6 extraction

Phase 2- braces needed in all the above cases, when all permanent teeth are erupted.