1  □ Physical Observations
   Teeth and Hair and Hands

2  □ Permanent Dentition
   • Two arches, maxillary and mandibular
   • 32 teeth, 16 in each arch

3  □ Primary Teeth
   • Deciduous teeth
   • 20 total

4  □ Dental Occlusion
   • The way teeth fit together: bite
   • normal - upper arch overlaps the lower arch

5  □ Dental Anomalies
   • common in general population
   • may be more frequent than any other
   • common: absent maxillary and mandibular incisors
   • anomalies include number, size, structure, eruption pattern and spacing

6  □ Examples
   • anodontia - all teeth absent
   • supernumerary - too many
   • enamel pits
   • root formation anomalies
   • abnormal eruption

7  □ Abnormal eruption
   • Natal teeth
   • common with CL & P
   • usually lost early
   • may be structurally abnormal or supernumerary

8  □ Spacing
   • Diastema - space or opening between any of the teeth
   • spacing problems may relate to tooth size/jaw size
   • small jaw, crowding of teeth

9  □ Hair
   • lots of “normal variation in color, texture, hairline etc
   • anomalies best determined microscopically
   • measured as hair follicles per square centimeter
   • too much and too little associated with specific syndromes
   • example--abundant scalp hair in v-c-f syndrome

10 □ Hands
- number of digits
- size of hands
- length of fingers relative to palm
- structure of digits
- flexion creases
- fingernails
- skin texture

11 📜 Polydactyly
   - The six fingered man
   - too many digits
   - may be isolated genetic trait or sx
   - categorized by position of extra digit
   - thumb side-preaxial
   - index side - postaxial

12 📜 Polydactyly
   - Preaxial
   - extra digit on thumb side

13 📜 Hypodactyly
   - complete or partial absense of one or more digits
   - often asymmetric
   - associated with many syndromes
   - less common than polydactyly

14 📜 Hand size
   - small more common in syndromes than large
   - assessed with anthropomorphic measures
   - large hands often associated with overgrowth syndromes like Marfan’s

15 📜 Length of Digits
   - anomaly of proportion (middle finger to palm)
   - brachydactyly - short digits
   - arachnodactyly-long digits