Cheatography

Chromosomal diseases Cheat Sheet by jens_a via cheatography.com/34256/cs/10869/

Down syndrome (trisomy 21)

Incidence 1:800 (US), the most common chromosomal abnormality

Causes

95% trisomy, 4% Robertsonian transloc, 1% mosaicism

Neonatal

Severe hypotonia, abnormal facial features Limbs

Short/curved 5th finger, single palmar crease

Cardiovascular

ASD (Ost. prim.), VSD, PDA, AV canal defects GIT

Duodenal and anal atresia, Hirschsprung D

Other

↓ stature, ↓ cognitive ability, strabismus, Alzheimer's (late)

Turner syndrome (45,X)

Liveborn incidence 1-2:10,000

Caused by absent Barr body

Neonatal

- 1. Low post. hairline
- 2. îElbow carry angle
- 3. Short 4th metacarpals
- 4. Widely spaced nipples
- 5. Aortic coarctation

Later complications

- 1. ↓ Stature
- 2. Infertility (SHOX gene rel.)

USG 2nd trim: Hydrops fetalis, thickened nuchal pad

С

By **jens_a** cheatography.com/jens-a/ Not published yet. Last updated 13th February, 2017. Page 1 of 1.

Patau & Edwards syndromes (trisomies 13, 18)

Incidence 1:5000 (each), 1 w/ maternal age

10% from mosaicism+Robertsonian transloc

Most term. when discovered, or stillbirth

Most liveborn die within days-weeks

Late complications

1. Cardiac defects (90%)

2. Learning difficulties

Klinefelter syndrome (47,XXY)

1:1000 live births

Common features

- 1. Tall
- 2. ↓ Verbal IQ 10-20pts
- 3. Gynecomastia
- 4. Azoospermia⇒infert. (ALL patients)

5. Small, soft testes

Rarely: >2 X chromosomes (XXXY, XXXXY) $\Rightarrow \Downarrow \Downarrow$ cognitive ability, other features more pronounced

Triploidy (69,XXX, 69,XXY, 69,XYY)

Common in stillbirth

Rare in live births, rarely live beyond neonatal period

Hypomelanosis of Ito

Mosaicism w/ triploid cell line

- Presentation
- 1. Pigmented+unpigmented streaks on skin
- 2. Learning difficulties
- 3. Hard-to-treat convusions

Sponsored by Readability-Score.com

Measure your website readability! https://readability-score.com