

Clinical and Genetic Features of Women's Cohort with Turner Syndrome from Lviv Region (West Ukraine) for 1997-2017

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Abstract

Turner syndrome (TS) is a chromosomal disorder caused by complete or partial X chromosome monosomy that manifests various clinical features depending on the karyotype and on the genetic background of affected girls. Aim of our study was to assess the clinical and the cytogenetic characteristics in patient with Turner syndrome from Lviv region (West Ukraine) for 1997-2017.

Methods: 135 female patients aged 1 month-49 years from Lviv region were clinical and cytogenetically

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|--------------------------------|----|------|---|-----|----|------|----|------|----|-----|----|-----|-----|------|
| Mosaicism with Isochromosome X | - | - | - | - | 1 | 0.7 | 11 | 8.1 | - | - | - | - | 12 | 8.9 |
| 45,X/47,XXX mosaicism | 1 | 0.7 | - | - | 1 | 0.7 | 1 | 0.7 | 2 | 1.5 | 1 | 0.7 | 6 | 4.4 |
| Mosaicism with X ring | - | - | - | - | - | - | 3 | 2.2 | 2 | 1.5 | - | - | 5 | 3.7 |
| Other | - | - | - | - | 1 | 0.7 | 4 | 3.0 | 2 | 1.5 | - | - | 7 | 5.2 |
| All mosaicism forms | 4 | 3.0 | 1 | 0.7 | 9 | 6.7 | 22 | 16.3 | 13 | 9.6 | 2 | 1.5 | 51 | 37.8 |
| All | 17 | 12.6 | 3 | 2.2 | 20 | 14.8 | 56 | 41.5 | 27 | 20 | 12 | 8.9 | 135 | 100 |

3 B = C = ; 1 C 1 significant influence D B B CC 6 = C G D B Thyroid G6E 3 D C 3 = = E B
 E 2 BD
 B C G D E B B C B = 1 B 2 = C G D = 1 B3 E B
 6 G E 1 = 1 D DC 1 D DC G B 6 E D 1 F B E 1 B
 = C C 6 B = 1 B C after D C D 6 = 1 B3 1 D DC
 F C 3 1 B 1 = BB 1 1 B C after D C D 6
 = 1 B3 1 D DC F = BB 1 1 D DC 1
 B E 1 B = C C 1 1 B = 1 B 3 D E 1 = BB 1
 CDE 3 3 1 1 1 C C 6 1 C CD = C 6 E B 1 D DC 1 3 3 B
 3 D D 3 3 1 B 1 3 D B CD 3 1 2 = G D E B B C B = 1 B
 = B ; D 1 F 1 2 B = 1 D 6 C; D C CD =
 3 E C BD 3 ; 1 1 C 1 6 D G : 1 G B F 1 3
 1 D DC G D ; 1 B D C 1 = C

T is 3 1 2 1 D 1 D frst 3 3 1 6 1 DE B C 1 1 B E B
E 2 BD

B 1 1 B F B ED = = E D 1
E B B C C B = ED = = E F

References

C BD 3 B = C = 12 B= 1 D C 6 E
1 = G 2 B 3 B B CE DC 6 B = 1 1 B 3 3 CDE
B E C = 1 B; BD 6 3 DC B BD 3 B

3 1 BD EB B C B = 3 1
1 C3 3 BD F 3 B Dn 2
B = 1 E: E G B 1 E CM = BC F D 1
D B C 1 G = G D E B B C B = 1 CC 3 1 D
2 DG C= B 3 6 1 DE B C : 1 B D 1 3 1 B 1 BD 3
= 1 6 B= 1 D C E B D
1 F E: E G B 3; 2 E C BE
D 1 F B C ED = 6 3 1 B 3 D D CD D 1 D DC G D
E B B C B = 1 D D B 1 B F 1 C3 D BF
B 1 CC 3 1 C 2 CD DB 3 C 1 3 C B =
6 6 1 D C= 3 Dn G 2 2 3; 1 3 E 2 DE C F 1 E C
3 B
F B C 1 1 1 1 B E 3 1 D 1 D 3 1
D 3 1 C 3 DC 6 1 ED = = E D B C B BC E 1 D DC
G D E B B C B = Dn 1 DB
B 1 F D BC G 1 : : BC Gefner D 1
3 1 B 1 3 D 3 E C 6 B D 3 1 B 6 B C 1 G = G D
E B B C B = B 3 C 6 B = D 3 1 D D B 1 D 1
E B B B = D D B 1 D 1 E B B B = C CE C
B E E B 3 B
D 3 = EE E 1 B 1 1 B 1 F D B F 1 3
3 3 1 CD 3 1 1 = BD D E B B C B =
3 B Dn 2
B 1 F D = 3 1 3 B 1 = Dn 2 3 6 1 DE B C
E B B C B = E B 3 B

C 1 F 3 : 2 1 1 1 F 1 1 D G
CDE 6 E B B C B = : B 1 3 DB 3 B C E B 3
2 CDB 1 3 DC D E 1 D 6 D E B 1 3 D 6 B 1 DB 3
3 B 1 B 3 1 1
E 1 1 D 1 3 1 = 1 6 CM D 1
3 D D 3 1 1 C C 6 1 D DC G D E B B C B =
E 3 B 1 3 1 : E 1 1 D 1 3 1
1 D 3 3 1 B 1 3 D B CD 3 C 1 B E 6 1 D DC G D E B B
C B = = 3 DB 3 CDE Ter C: 1 1
C = AE 1 B E 3 D F CCE C = G D E B B
B = Dn 2 BD =
E D 2 ED 1 3 = 6 2 FB BE 2 D 1
BD D 1 B 1 3 E B B B = 2 CD D 1 3 1
1 BD = D E C BB C 3 3 E 2 BD
1 6 BD D = C 1 3 C= BD 6 1 1 D D 1 1
D B 1 DE B B F G = D
Shaf er B 1 3 = D B 1 D 1 C CD = 6 B
E = 1 3 D D 3 = 3 1 DE B 1 B B
B 1 G = 1 1 DD C E B 6 B
B = C = B 1 B 1 D C 6 E: 3 D C 3 E DE B 6 B = E = 1
B B 1 2 C
1 2 B D 1 2 1 D 3 AE 6 B E = 1 3 B = C = C
1 3 D