# The long-term outcome after increased fetal nuchal translucency 

Outi Äyräs ${ }^{1}$, Marianne Eronen ${ }^{2}$, Minna Tikkanen ${ }^{1}$, Päivi Rahkola-Soisalo ${ }^{1}$, Jorma Paavonen ${ }^{1}$, and Vedran Stefanovic ${ }^{1^{*}}$<br>${ }^{1}$ Department of Obstetrics and Gynecology, Helsinki University Hospital and University of Helsinki Finland Haartmaninkatu 2, PL 140, 00029 HUS, Finland, tel. +35894711<br>${ }^{2}$ Health Department, The Social Insurance Institution of Finland, PL 78, 00381 Helsinki, Finland

## Conclusions

- For euploid fetuses with increased nuchal translucency and normal findings in second trimester ultrasound scan the long-term outcome is favorable in $95 \%$.


## Backgroud

- The long-term (6.5 years) neurodevelopmental outcome of euploid children born after increased fetal nuchal translucency outcome is favourable in 95.3\%.
- The object of this study was to assess minor (correction of inguinal or umbilical hernia, dilation of lacrimal stenosis) and major (open heart surgery, thoracotomy, laparotomy, not fully correctable) structural defects of children after increased fetal nuchal translucency.


## Results

Minor structural defects: 30, major structural defects: 5 .
The long-term outcomes $n(\%)$ of 768 euploid fetuses with increased fetal nuchal translucency (NT) and normal second trimester ultrasound scan.

| NT | n (\%) | Adverse outcome (\%) | Favourable outcome (\%) | Major health problem (structural or neurodevelopmental) (\%) |
| :---: | :---: | :---: | :---: | :---: |
| $\begin{aligned} & 95^{\text {th }} \\ & \text { percentile } \\ & 2.9 \mathrm{~mm} \end{aligned}$ | 295 (38) | 27 (9) | 268 (91) | 8 (3) |
| $\begin{aligned} & 3.0-3.9 \\ & \mathrm{~mm} \end{aligned}$ | 384 (50) | 53 (14) | 331 (86) | 22 (6) |
| $\begin{aligned} & 4.0-4.9 \\ & \mathrm{~mm} \end{aligned}$ | 63 (8) | 6 (10) | 57 (90) | 4 (6) |
| $\begin{aligned} & 5.0-5.9 \\ & \mathrm{~mm} \end{aligned}$ | 18 (2) | 3 (17) | 15 (83) | 1 (6) |
| $\geq 6.0 \mathrm{~mm}$ | 8 (1) | 5 (62) | 3 (38) | 3 (38) |
| $\geq 4.0$ mm | 89 (11) | 14 (16) | 75 (84) | 8 (9\%) |
| Total | 768 | 94 (12) | 673 (88) | 38 (5) |

