# Role of early ultrasound in prenatal screening for morphological abnormalities in the first trimester

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# Objective

The objective of this study is to determine the different malformations accessible to prenatal screening and the contribution of early ultrasound to reduce their impact.

## Methods

A retrospective study conducted in Department of Obstetrics and Gynecology « C » in the Center of Maternity and Neonatology of Tunis. During two years: from January 2011 to December 2012. Inclusion criteria: all patients who had a therapeutic abortion on morphological malformations detected by ultrasound in the first trimester.

### Results

We identified 25 cases of medical Interruption of pregnancy for morphological abnormalities in the first trimester ultrasound, from a total of 83 cases of medical Interruption of pregnancy (30. 1%), the average gestational age was 12 weeks. The average age of pregnant was 30. 8 years [19 to 42 years]. We found 14 cases of cystic hygroma (56% of malformations) and 7 brain malformations. One case of a defect in the abdominal wall was reported and three cases of complex heart defect.

### Conclusion

Ultrasound in the first trimester allows the early diagnosis of major abnormalities and helps to define risk groups requiring additional investigations. Defects that need to be highlighted are: Anencephaly, holoprosencephaly, major micromelia, omphalocele, gastroschisis, coelosomy, megacystis and cystic hygroma of the neck.