Objectives:
The aim of our study was to assess growth pattern of the contralateral kidney in fetuses with unilateral MCDK (multi cystic dysplastic kidney), to assess associated CAKUT (Congenital anomalies of kidney and urinary tract) in the UMCDK (unaffected MCDK kidney) and extra-renal malformations and to evaluate the post-natal outcome.

Methods:
62 fetuses with a MCDK.
132 kidney length measurements.
Post-natal follow up to 6 years of age.

Results:
No significant difference existed regarding fetal gender or laterality.
Associated additional CAKUT - 16%
Extra urinary tract anomalies - 10%

The compensatory growth pattern in the unaffected MCDK was linear and was significantly higher during the third trimester (p=0.019)

A 6 years post-natal follow up:
Kidney function measured as creatinine level – normal.

Sonographic follow up:
Partial involution - 7 children
Total involution – 1 Child

Conclusions:
Pregnancies with unilateral MCDK show a unique growth pattern in the contralateral healthy kidney with a dominant growth in the third trimester. These nomograms provide crucial information to the multidisciplinary prenatal counseling team regarding the prognosis of the healthy kidney.