

## #1934 - Evaluation of urinary EGF level changes in unilateral hydronephrotic infant patients before and after surgery

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**Body**  
**Background:** children urinary obstruction is defined by any disruption in normal urinary flow. This urinary obstruction and stasis can play an important role in kidney function damage in urology science. Any of these obstructions can lead to hydronephrosis, atrophy or even complete destruction of kidney function. Obstruction can cause infection and these infections can lead to worse conditions. As this study design for determine children urinary EGF level in unilateral UPJO patients as prospective factor

**Material & methods:** In this cross sectional study on 25 children between 1 month to 1 year age we take random urinary sample before, during and after UPJO surgery of pelvis and collected them in -20 c for short times and for longer period keep them in -70 c. We use ELISA method for evaluation EGF level

**Results :** Mean age of infants was  $6.96 \pm 3.02$ . There was significant correlation between age and mean of EGF ( $P=0.0001, R=0.696$ ).

This study show urinary EGF level significantly decreases after pelvis correction surgery in UPJO patients. The urinary EGF level mean before surgery for these patients was  $40.12 \pm 12.55$  and for post operation was  $37.32 \pm 11.52$ , analysis was done by T test ( $P$ .value=0.001)

**Conclusion:** the results of this study suggest urinary tract

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obstruction can increase urinary EGF level in children between 1 month to 1 years old as well as by increase patients age the urinary EGF level increase in same condition too.

keywords:urinary EGF, UPJO, children

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