

CAUSES OF HYDRONEPHROSIS in the FETUS (ANTENATAL)

* UNKNOWN ~ DEVELOPS & DISAPPEARS on its OWN

THIRD TRIMESTER

* MAY BE ACTUAL PATHOLOGY

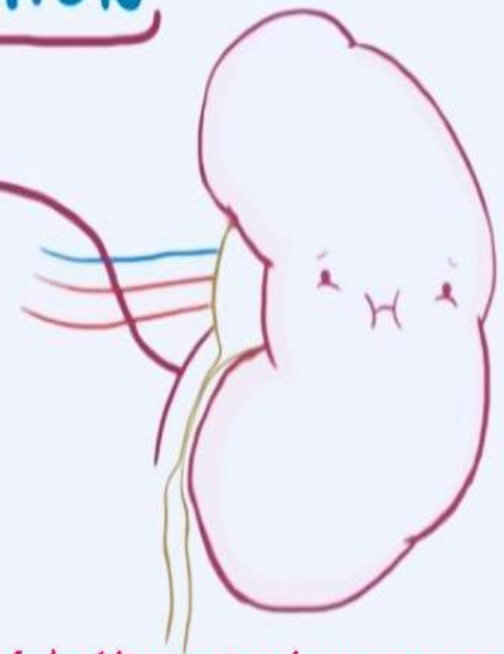
* CONGENITAL URETEROPELVIC JUNCTION OBSTRUCTION

↳ FAILS to CANALIZE

* VESICoureTERAL REFLUX

↳ URINE BACKFLOWS from

BLADDER → URETERS



CAUSES of HYDRONEPHROSIS in CHILDREN

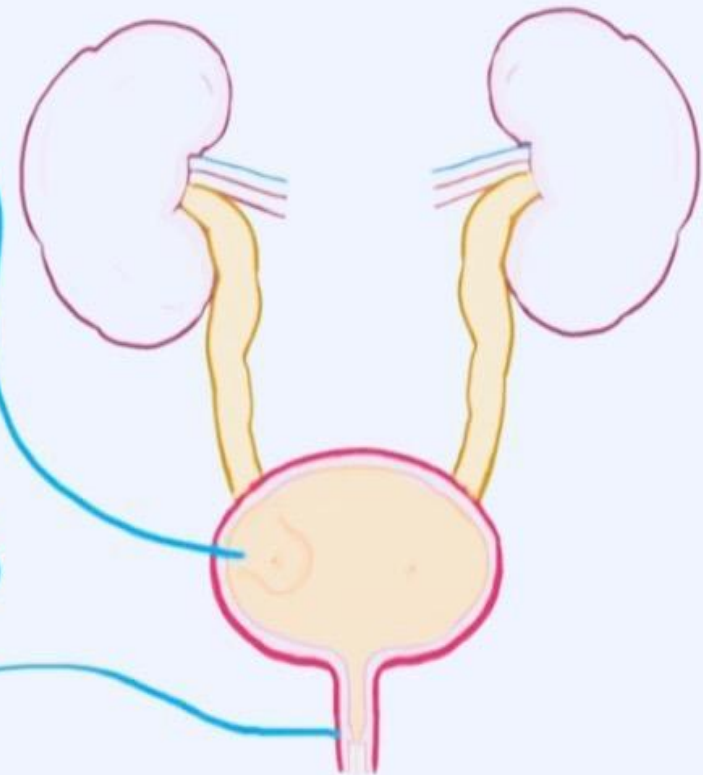
* CONGENITAL MALFORMATION

URETEROCELE

* SAC of TISSUE
OBSTRUCTS FLOW
of URINE

POSTERIOR URETHRAL VALVES

* FLAPS of TISSUE
OBSTRUCT FLOW
of URINE

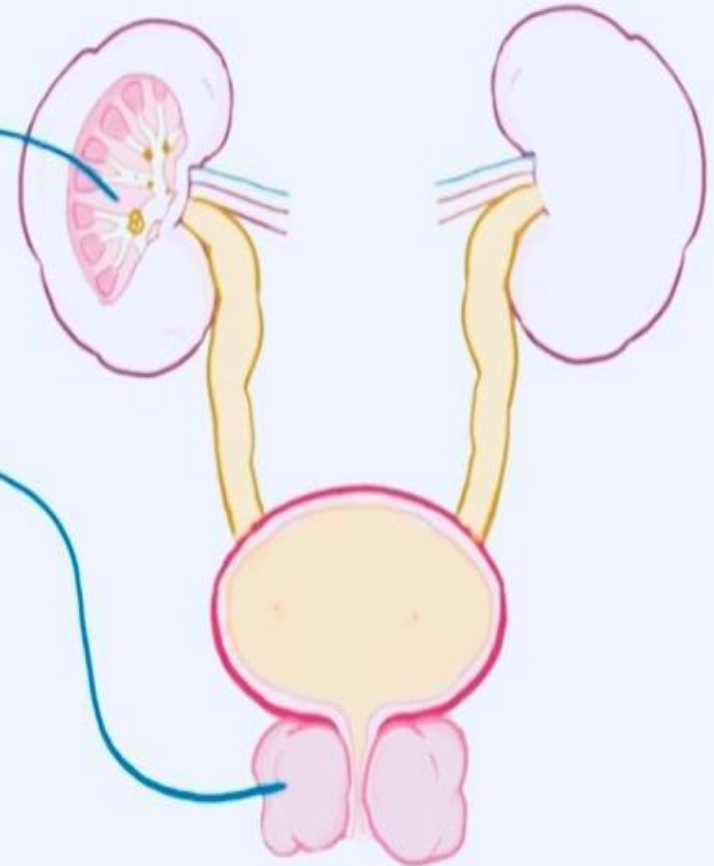


CAUSES of HYDRONEPHROSIS in ADULTS

* RESULT of ACQUIRED DISEASE

↳ KIDNEY STONES

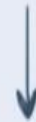
↳ PROSTATIC HYPERPLASIA
(ENLARGED PROSTATE)



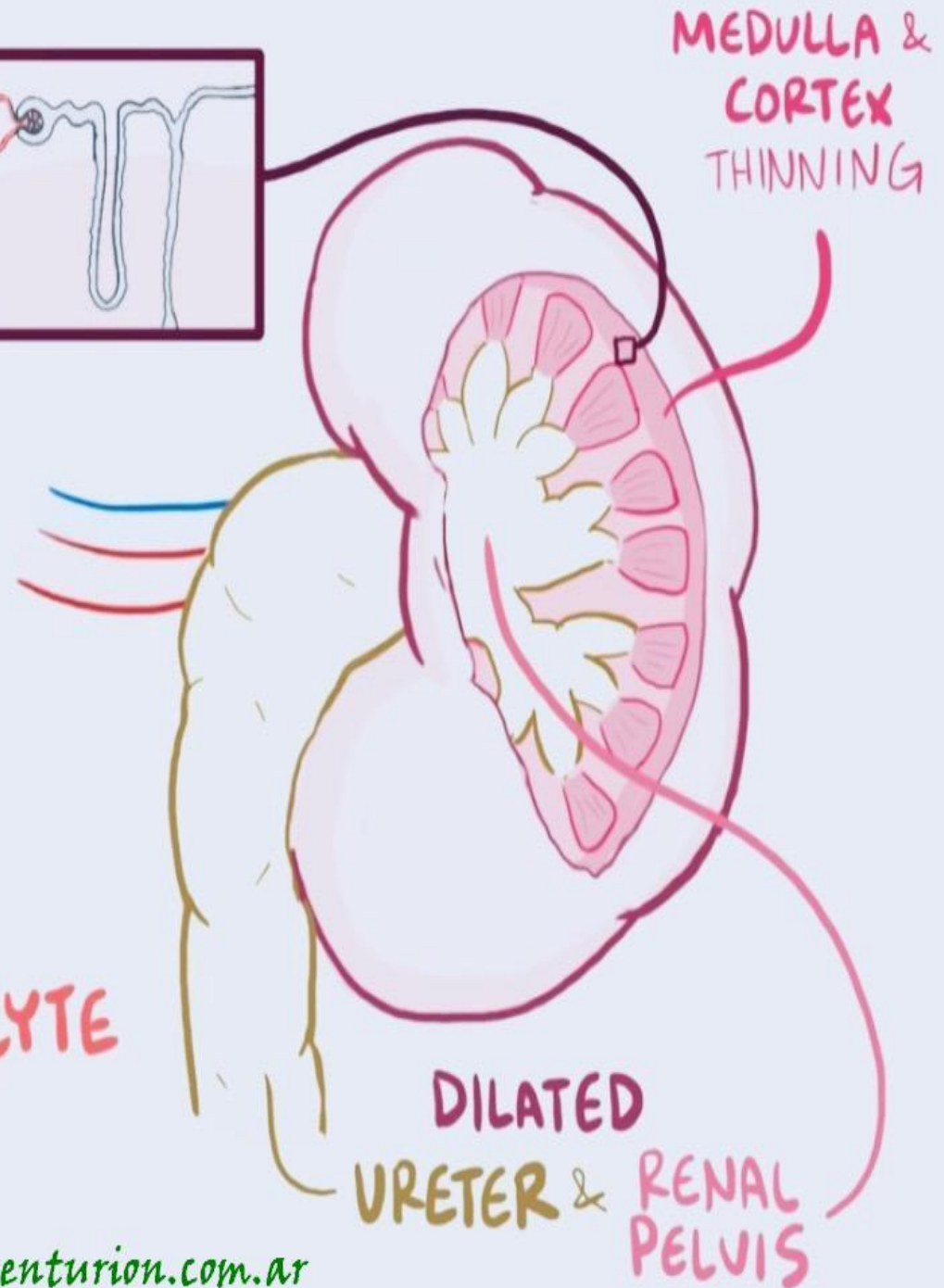
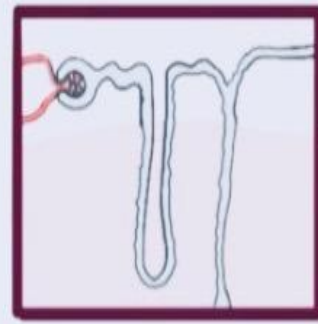
**SEVERE
LONG-STANDING
HYDRONEPHROSIS**



**NEPHRON
DESTRUCTION**



**INCREASED SERUM
CREATININE & ELECTROLYTE
IMBALANCES**



SYMPTOMS & COMPLICATIONS

www.drjuliocenturion.com.ar

* from OBSTRUCTION

└ FLANK or GROIN PAIN

└ URINARY TRACT INFECTION

* from HYDRONEPHROSIS

└ POSTRENAL AZOTEMIA

NITROGEN-CONTAINING COMPOUNDS in the BLOOD

DIAGNOSIS

* ULTRASOUND

↳ OFTEN PRENATAL



* GRADING

0 ~ NO DILATION

1 ~ DILATION OF RENAL PELVIS (NOT CALYCES)

2 ~ DILATION OF RENAL PELVIS & CALYCES

3 ~ MODERATE DILATION

~ MILD CORTICAL THINNING

~ FLATTENING OF PAPILLAE

4 ~ SEVERE DILATION & CORTICAL THINNING

DIAGNOSIS

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* INTRAVENOUS UROGRAPHY or PYELOGRAPHY

↳ OFTEN USED for CHILDREN

* CT SCAN

↳ OFTEN USED for ADULTS

↳ USEFUL for finding KIDNEY
STONES



TREATMENT

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* RELIEVE OBSTRUCTION

↳ ALLOWS URINE to FLOW

ACUTELY

* NEPHROSTOMY TUBE

↳ DRAINS URINE

CHRONICALLY

* URETERIC STENT ~ POPS URETER OPEN

* PYELOPLASTY ~ SURGICAL REMAKE of RENAL PELVIS

~ LOWER OBSTRUCTIONS (e.g. PROSTATIC HYPERPLASIA)

* URINARY CATHETER

* SUPRAPUBIC CATHETER

HYDRONEPHROSIS

