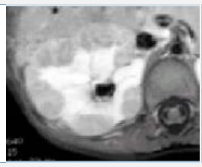
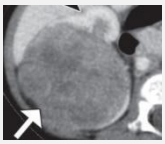
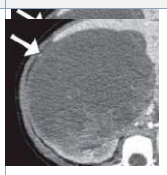
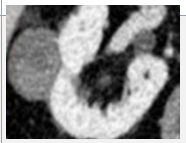
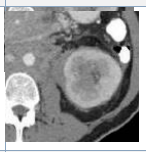
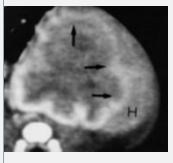
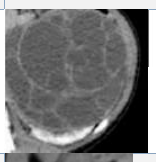
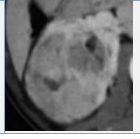
Urology CHEAT SHEETS

CHILDHOOD RENAL TUMORS

		AGE	ORIGIN/GEN	OTHER	SYMPTOMS
MALIGNANT	**WILMS/ NEPHROBLASTOMA** 80-90% 6% OF MALIGNANT TUMORS	2-3a	**RENAL CORTEX** Embryonic precursors. **MESODERMAL** GEN WT1WT2:11p **10%CONG. ANOMALIES /SYNDROMES** (BECWITH WIEDMAN, WARG, DENYS-DRASH)	**EXOFITIC UNILATERAL** **80% HETEROGENEOUS** Necrosis/Hemorrhage Renal vein invasion **15% CALCIFICATIONS** **90% SURVIVAL**	**50% ASYMPTOMATIC ABDOMINAL MASS** OTHERS: HT,fever, hematuria, pain
	NEPHROBLASTOMATOSIS	**DIFFUSE OR MULTIFOCAL NEPHROGENIC RESTS** GENETIC PREDISPOSITION		**Diffuse hyperplastic perilobar nephroblastomatosis**: **preneoplastic -- QT** High risk of development Wilms tumor	
	RHABDOID TUMOR 2%	11-13m	**RENAL MEDULLA** GEN SMARCB1: 22q11.2.	**CENTRAL** Lobulated architecture. **70% CALCIFICACION** Subcapsular collection **MTX: LUNG AND BRAIN** **BAD PROGNOSIS**	 **ABDOMINAL MASS, FEVER, HEMATURIA** **BRAIN TUMOR**
	CLEAR CELLS SARCOMA 4-5 %	1-3a rare<6m	**UNCLEAR GENETIC OR FAMILY ASSOCIATION**	**Solid with cystic components.** **NO CALCIFICATION** **MTX: BONE (50%),** L.NODES, BRAIN, LIVER LUNG **BAD PROGNOSIS**	 **ABDOMINAL PAIN, HEMATURIA, HT**
	RENAL CELL CARCINOMA 1-5%	9a	**ASSOCIATED WITH SYNDROMES (VHL, ET),** CYSTIC PATHOLOGY, TRANSPLANTS	**PAPILLAR (15-50%). HIGH GRADE.** Locally advanced **BETTER PROGNOSIS THAN ADULTS**	 **MASS + PAIN +HEMATURIA**
	RENAL LYMPHOMA Very rare		**Non-Hodgkin lymphoma**	Homogeneous, bilateral, cortical lesions. +Abdominal or mediastinal masses	 **ASYMPTOMATICS**
BENIGN	**MESOBLASTIC NEPHROMA** 3-6% MOST COMMON SOLID TUMOR IN BABIES	1-2 m	**POLYHYDRAMNIOS, HYDROPS AND PRETERM BIRTHS**	**RING SIGN IN US** **Benign**	 **PALPABLE ABDOMINAL MASS + HEMATURIA**
	MULTILOCULAR CYSTIC NEPHROMA 1%	♂<4 a ♀>40a	**Cystic with septa**	**Benign**	 **NON-PAINFUL ABDOMINAL MASS + HEMATURIA**
	ANGIOMYOLIPOMA		**80% of children with ET** (adenomas, mental retardation, epilepsy)	**Benign**	 **ABDOMINAL PAIN, WULDERLICH**

Esther García Rojo @rojo_esther