Cystic diseases of	Inherited/	Size and	Clinical appearance	Location	Complications	Notes
the kidney	Acquired	number				
Simple Cysts		- Single or	- No clinical	- Confined to		Discovered
		multiple	Significance	the cortex		incidentally or
		- 1-5 cm in	- Hemorrhage			because of
		diameter	- Pain			hemorrhage and pain
			- Filled with clear fluid			
						Imp to differentiate it
			- Favorable Prognosis			from kidney tumors
Dialysis -associated	Acquired	Numerous/		-Cortex	-Renal Carcinoma (100 times greater than in the general population)	Can transform into a
<b>Acquired Cysts</b>	-In patients with	multiple		-Medulla	- Pain (100 times greater than in the general population)	malignant tumor.
	renal failure				- Hematuria (due to	
	who have				hemorrhage)	
	prolonged					
	dialysis					
Autosomal	Inherited	-Multiple	- Onset of symptoms in	- Cortex	-Hypertension (70%)	Represents 10% of
dominant (Adult)		-Bilateral	Adults (4 <sup>th</sup> decade)	- Medulla	-Urinary infection	chronic renal failure
Polycystic Kidney	Autosomal	-Varies in			-Vascular aneurysms	
Disease	dominant	size (mostly	- Increase in kidney		of circle of Willis ->	-eventually destroy the renal parenchyma
	1. PKD1 gene	large)	weight and size		Subarachnoid	parononyma
	<sub>85-90%</sub> (MORE				hemorrhage	
	COMMON) –		- Multiple bilateral			
	Polycystin 1		cysts replacing renal		Most feared	
	2. PKD2 gene -		parenchyma.		complication:	
	10-15% Polycystin2		- Forms lobules on the		- renal failure at age 50	
			external surface of the			
			kidney			
			Symptoms:			
			1. Flank <b>pain</b>			

			2. Heavy dragging sensation 3. Abdominal mass - Hemorrhage 4. Obstruction (stones/hemorrhage of the cyst) 5. Intermittent gross hematuria			
Autosomal Recessive (Childhood) Polycystic Kidney Disease	Inherited  Autosomal recessive - PKHD1 gene-Fibrocystin mutation (function of cilia in tubular cells)	-Multiple -Tiny fusiform cysts	-Onset of symptoms in childhood Presents early in life - Associated with liver cysts - Enlarged kidney	-Thrown and seen within the parenchyma	-Chronic renal failure	Types: 1. Prenatal 2. Neonatal 3. Infantile 4. Juvenile
Medullary Cystic Disease (Nephronophthisis- medullary cystic disease complex (medullary- uremic type)	-Present with positive family history		-Always associated with renal dysfunction - Begins in <b>children</b> -Polyuria	-Cortico- medullary junction	Renal failure over 5- 10 yrs	(LESS COMMON- WORST TYPE)

		-Polydipsia (decreased tubular function)  IMPORTANT - Positive family history+ UNEXPLAINED chronic renal failure in young patients -> suspicion of medullary cystic disease		
Medullary cystic disease ( medullary spongy kidney )	Small , give kidney spongy like appearance	- rare , non threatening condition - most pateint are asymptotic	Ecatic ( dilatory )With in dilating collecting tubules of renal medulla	-Most common type  - diagnosed based on incidental finding after radiological investigation for other reasons