Cystic diseases of	Inherited/	Size and	Clinical appearance	Location	Complications	Notes
the kidney	Acquired	number				
Simple Cysts		- Single or multiple	- No clinical Significance	- Confined to the cortex		Discovered incidentally or
		- 1-5 cm in	- Hemorrhage	the cortex		because of
		diameter	- Pain			hemorrhage and pain
		diameter	- Filled with clear fluid			nemormage and pain
			Timed with cical hald			Imp to differentiate it
			- <b>Favorable</b> Prognosis			from kidney tumors
Dialysis -associated	Acquired	Numerous/		-Cortex	-Renal Carcinoma	Can transform into a
<b>Acquired Cysts</b>	-In patients with	multiple		-Medulla	- Pain	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 →	
	1. PKD1 gene	large)	weight and size		Subarachnoid	
	(MORE				hemorrhage	
	COMMON) –		- Multiple bilateral			
	Polycystin 1		cysts replacing renal		Most feared	
	2. PKD2 gene -		parenchyma.		complication:	
	Polycystin2		- Forms lobules on the		- Renal failure 10	
			external surface of the		years after onset of	
			kidney		symptoms.	
			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 - 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	-Present with positive family history (medullary-uremic)		-Always associated with renal dysfunction  - Begins in children  -Medullary-uremic type: -Polyuria	-Cortico- medullary junction	- Medullary-uremic type (Nephronophthisis): Renal failure over 5- 10 yrs	2 types:  1. Medullary-uremic (Nephronophthisi s-medullary cystic disease) complex  (LESS COMMON-WORST TYPE)

-Polydipsia (decreased	2. Medullary sponge
tubular function)	kidney ( <b>MORE</b>
	COMMON-
IMPORTANT	INNOCENT)
- Positive family	
history+ UNEXPLAINED	
chronic renal failure in	
young patients →	
suspicion of medullary	
cystic disease	