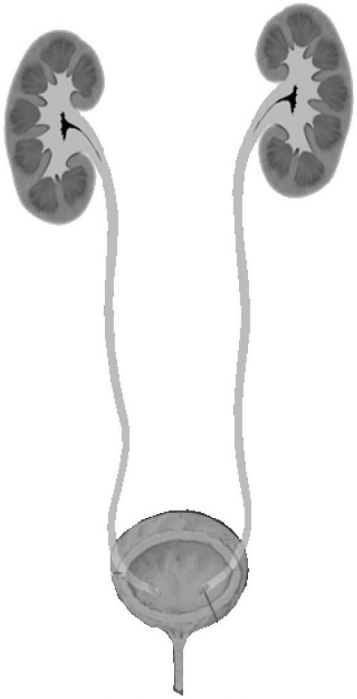
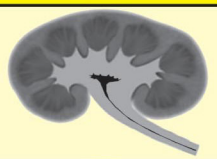
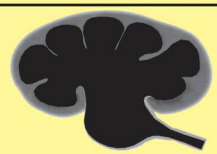
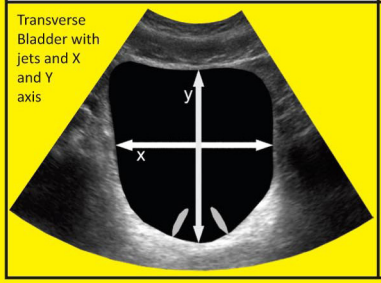
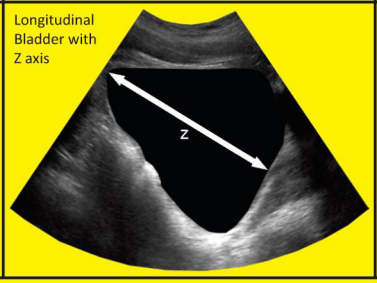
ultrasound VILLAGE

LEVEL 1
RENAL ULTRASOUND

This is a limited Renal Ultrasound that aims to:
1. Ascertain the presence and degree of hydronephrosis
2. Recognize a simple renal cyst
3. Identify ureteric jets and VUJ stones where possible
4. Measure the bladder volume

Patient details

History	Urinalysis	Creatinine

Images		Notes
 **Sketch findings on this image** created by James Rippey and Tor Ercleve		**Normal** Renal length 9-13cm Parenchymal thickness > 10mm
		**Mild hydronephrosis** Dilatation of the collecting system with retention of cupped calyces
		**Moderate hydronephrosis** Increased dilatation with clubbing of the calyces
		**Severe hydronephrosis** Increased dilatation with thinning of the renal cortex
		**Simple cyst** Well defined thin wall Rounded anechoic cystic structure No solid components Post cystic enhancement Parapelvic cysts and an extrarenal pelvis can simulate hydronephrosis
		**Ureteric Jets** Use colour doppler and wait. Ipsilateral jet presence excludes complete obstruction, however it's absence does not confirm obstruction **VUJ stones** Look for poor / abscent jet, hydroureter / hydronephrosis, shadowing and twinkle artifact **Bladder** Bladder volume = X x Y x Z x 0.7

Findings					
			Right		Left
Kidney	Views	Adequate	Inadequate	Adequate	Inadequate
	Length	_____cm		_____cm	
	Hydronephrosis	Absent		Absent	
		Mild		Mild	
		Moderate		Moderate	
		Severe		Severe	
	Other (eg cysts)				
Ureters	Jets	Seen	Not seen	Seen	Not seen
	VUJ stones	Seen	Not seen	Seen	Not seen
Bladder	Transverse (X)	_____cm			
	Depth (Y)	_____cm			
	Length (Z)	_____cm			
	Volume (X x Y x Z x 0.7)	_____mL			

Conclusions (Note: Renal USS findings must be consistent with clinical suspicion; integrate history, examination, investigations and Renal USS findings to reach a conclusion. Seek urgent formal USS or CT if uncertainty remains)

Clinician	Signature	Date