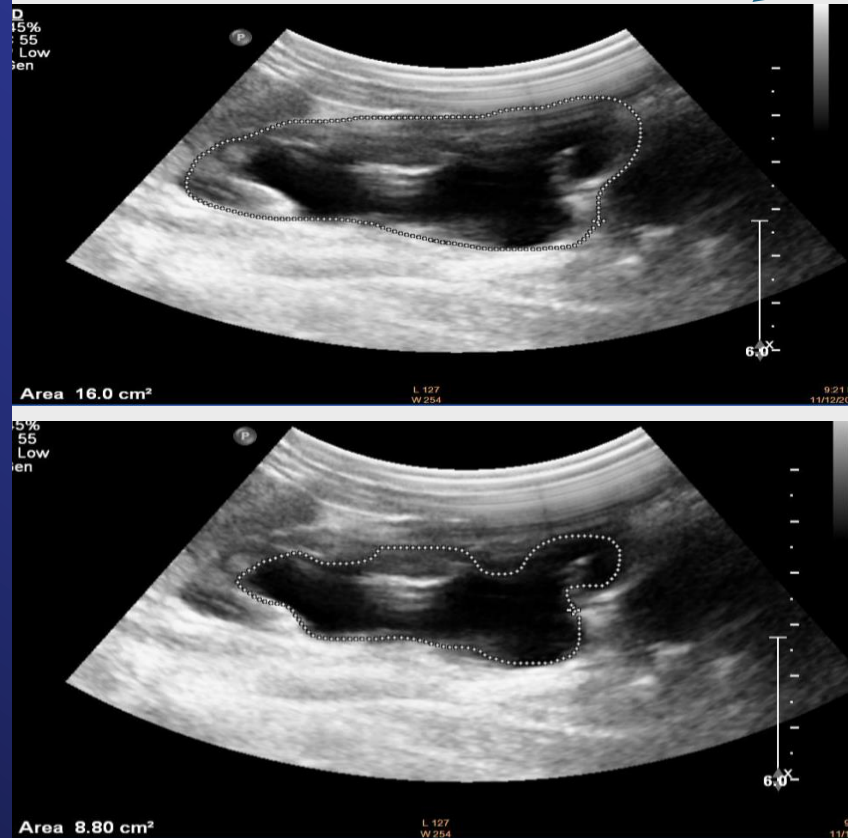


Role of Renal Parenchyma to Hydronephrosis Area Ratio in Predicting Outcome After Pyeloplasty in Children With Ureteropelvic Junction Obstruction

Renal parenchymal thickness to hydronephrosis area ratio (PHAR) can be used as a good indicator of success of pyeloplasty and improvement of renal function postoperatively.

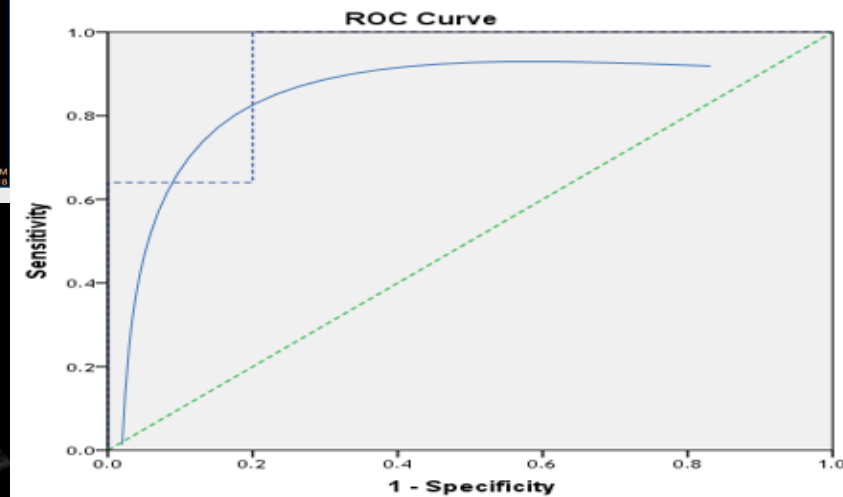


Total renal area: the whole surface area of the kidney including the parenchymal (RPA) and the hydronephrosis areas.

RPA = total renal area - hydronephrosis area.
PHAR = Hydronephrosis area / RPA

*** In this case:**

- **Hydronephrosis area (HA)**
= 8.80 cm²
- **So RPA = (TA) - (HA)**
= 16 - 8.8 = 7.2 cm²
- **So PHAR = RPA/HA**
= 7.2/8.8 = 0.818



The cutoff value of PHAR postoperatively is 1.89 above which indicating improvement & can omit radio-isotope scan as it has a positive correlation with it .

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