Imaging algorithm for infants & children with suspected urolithiasis

**US (gray scale + DDS / CDS)**

- **negative + low clinical suspicion**
  - Stop

- **positive**
  - follow-up after / during treatment
    - potentially + KUB for confirmation, for treatment...
  - negative + high clinical suspicion
    - only 2nd signs + no stone visible, or before intervention, if therapeutically necessary
  - inconclusive US
    - US non-diagnostic
    - mismatch US & clinics

- + KUB?
  - uro-CT $^1$
    - (ultra-)low dose + unenhanced $^2$
      - + KUB (± IVU) before intervention / lithotripsy

$x^1$ or KUB (+ adapted IVU, particularly if low-dose CT unavailable)
$x^2$ potentially contrast-enhanced CT-urography, if other DD or complication; MRU in selected cases

Pediatr Radiol 2009; 39