Referring experience as a NCHD

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Referrals made

- Xrays: CXR, PFA, other Xrays
- USG: Pelvis, Renal, Liver
- CT scans: CTAP, CTTAP, CT Thorax, CTPA, CT
 Brain/Angio, CT colonography, CT urogram
- MRI: MRI Brain, MRI Abdo Pelvis, MRI lumbar spine/cspine, MRI fistulogram, MRCP
- Others: Echocardiogram, Carotid doppler, Duplex venous USG.
- IR procedures: PICC line insertion, embolization, nephrostomies, liver biopsy, nodal biopsies
- External referrals: Cardiac MRI.



- Referrals made on McKesson and approval sought over phone or in-person from:
- Radiographer: CXR/PFA
- Sonographer: USG
- ➤ Radiology Registrar: CT scans Specific times for discussion; Ring scheduler for appointment
- Consultant Radiologist/Consultant Neuroradiologist:
 Approval of MRI's; Ring scheduler for appointment
- ➤ Vascular Lab/Sonographer: Duplex scans.



- Ordered on McKeson
- Check Vetting notes if additional information needed, amend the form
- A/W approval
- Urgent Scans: telephone/in-person approval sought
- IR forms: paper forms changed to McKesson order
- ECHO: McKesson order + email sent to the scheduler

Challenges faced

Emergency Department:

Pros:

- In-built Xray unit Expedites Xray's done
- Urgent EM OPD slots for Venous doppler scans
- > 24/7 access for CT scan discussion

Cons:

- Delay in D/C pending scans done and reported
- Wards:

Pros:

➤ Daily discussion with schedulers & bed managers for D/C dependent CT/MRI scans

Cons:

➤ Delay in care and D/C of patients pending scans; if suitable, urgent OPD scans organised

Reasons for refusal/delay in vetting



Radiologist: "Where" Clinician: "What"

What do studies show??

- 1. Borgen L, Stranden E. Radiation knowledge and perception of referral practice among radiologists and radiographers compared with referring clinicians. Insights Imaging. 2014 Oct;5(5):635-40. doi: 10.1007/s13244-014-0348-y. Epub 2014 Aug 28. PMID: 25164546; PMCID: PMC4195837
- Radiographers estimated the highest proportion of referrals most unlikely to affect treatment.
- Radiologists rated "getting the patient discharged" as an important reason for such referrals.
- Radiologists and radiographers possess significantly better radiation knowledge than clinicians.
- 2. Borgen, L., Stranden, E. & Espeland, A. Clinicians' justification of imaging: do radiation issues play role?. Insights Imaging 1, 193–200 (2010). https://doi.org/10.1007/s13244-010-0029-4
- Limited radiation knowledge and guideline use indicate suboptimal justification of referrals.
- When justifying imaging, weighting of radiation dose may play a larger role than detailed radiation knowledge

 Incorporate Ionising radiation prescription module as part of medical undergraduate education – Bridge the "Where" and "What"

For better future referrals



"Well, I don't know WHAT this x-ray is showing us...but I'm seeing Picasso!"

Questions???



"I think I see what the problem is, but I'll send you down for some X-rays just to make sure."