

Teleradiology: Opportunities & Challenges Dr. dr. Rusli Muljadi, Sp. Rad(K)

RADIOLOGY ISSUES IN INDONESIA

"Selain tidak memiliki dokter spesialis bedah, RSUD Mamuju juga tidak memiliki dokter spesialis radiologi, spesialis saraf, dan spesialis patologi klinik," katanya.

"Radiolog Indonesia itu 60 % nva di Jakarta. Dan kurang dari 50 % radiolog belum update ilmunya," kata dr Anggaraini Dwi Sensusiati Sp.Rad(K) kepada wartawan di sela-sela one day symposium and workshop head and neck di Hotel Bumi, Sabtu (12/10/2013).

"Tiap tahunnya hanya bertambah 100-150 spesialis radiolog," ujar dr Vonny dalam 'GE Healthcare Resmikan Pemasangan 1000 CT Scan di Kawasan Asia Tenggara' di Bekasi, Senin (12/11/2018).

Meskipun kebutuhan akan tenaga Radiografer cukup tinggi, orang masih enggan terlibat dibidang ini karena kekhawatiran pada risiko paparan radiasi. Tak bisa dipungkiri risiko radiasi memang ada, tapi kamu akan diajari untuk bekerja secara aman pada matakuliah K3. Keren kan, satu jurusan bisa jadi satu matakuliah, tuh.



HOW TO HANDLE WITH OUR ISSUE



Conventional:

- Increase intake of radiology residency in teaching center
- Bureaucracy : Equalization of Radiologist in every region

Revolutioner:

TELE-RADIOLOGY

Teleradiology improves patient care by enabling radiologist to offer their expertise without having to be present



ADVANTAGES OF TELERADIOLOGY

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In term of services

- 1. Helping to read and give consult anywhere (even in remote area) anytime (day & night) with less effort.
- Helping with the limitation of man-power, especially in remote area
- Patient don't have to bring any record when visit the hospital where referred to (online recorded)







ADVANTAGES OF TELE-RADIOLOGY (Cont'd)

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In terms of sharing-knowledge

- 1. Helping other centers while facing difficult cases
- Open discussion not only among radiologists but also general physicians and other specialist
- 3. Learning sources for medical students and residents.













ADVANTAGES OF TELE-RADIOLOGY (Cont'd)

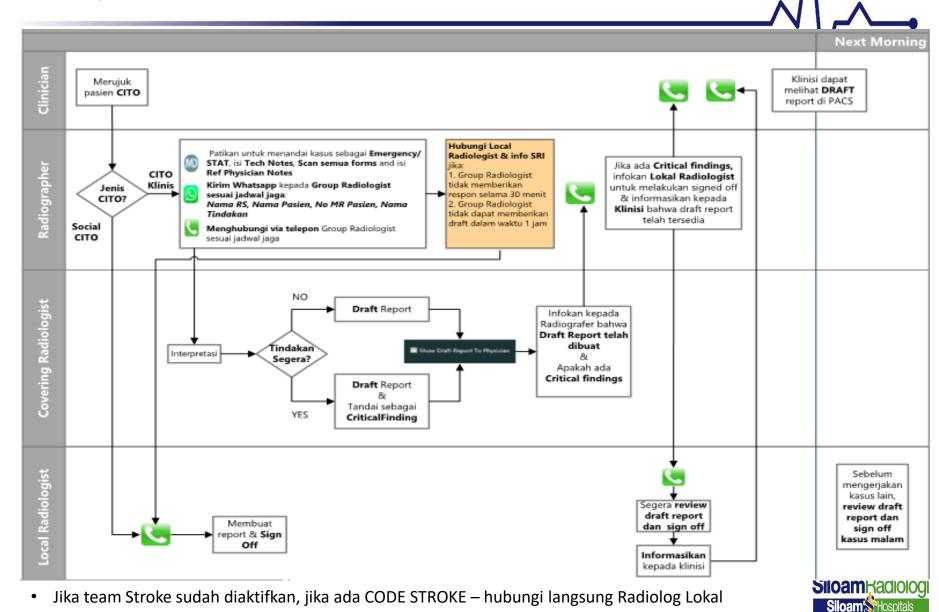
In terms of self benefit

- 1. Reduce burden of night shift and work shift
- 2. Reduce work stress and under-pressured feeling, especially while facing complicated cases





Example of NIGHT CALL PROTOCOL



How is Tele-radiology for group hospitals?

- Facilitating virtual workplace to group all radiology departments
- Providing cross-reporting
- Minimizing Turn-Around-Time (TAT)
- Increase accuracy by subspecialty consultation, audit and training
- Service 24/7
- Opportunities for radiologists who work in remote area to study subspecialty









MAJOR OBSTACLES FOR IMPLEMENTATION



1. Connectivity (Internet, since Tele-Radiology need to recall data from Web-based server)



2. Knowledge and Skills (man-power: IT technician, Radiologists who are not familiar with the tech)

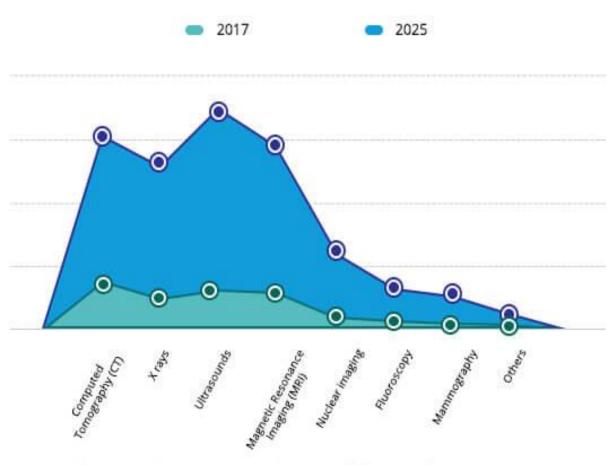


3.Bureaucracy (License -> signed-off for consultation and next plan (in emergency condition, complicated cases, etc)



GLOBAL TELERADIOLOGY MARKET

BY IMAGING TECHNIQUES



Nuclear Imaging is projected as one of the most lucrative segments.

