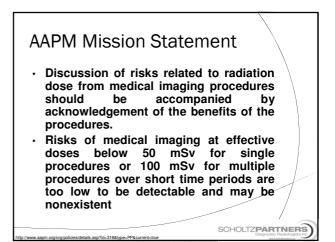
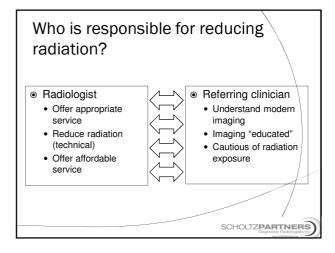


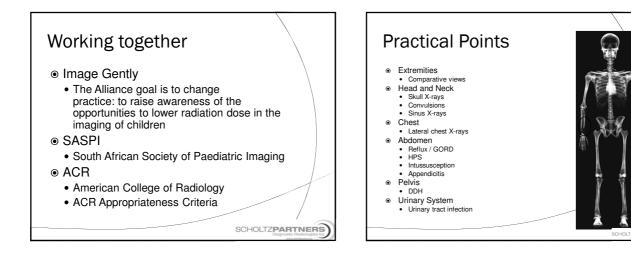
		adiation d	000	
Source	Estimated Dose	Equivalent to background	Modality	Background
Natural background	3 mSv/year			equivalent
Airline passenger cross country	0.04 mSv		СТ	8 months +
Chest x-ray (single view)	0.01-0.15 mSv	1 day of background radiation	Interventional	1 – 6months -
Chest x-ray (2 view)	0.1-0.15 mSv		Fluoroscopy	10 days +
Head CT (adjusted)	Up to 2 mSy	8 months of background / About 100 chest x-	Nuclear	1 day +
Head CT (adult settings)	(30 – 60 mSv if a neonate)	a months or background / About 100 chest x- rays	medicine Radiographs	1 day +
Chest CT (adjusted)	Up to 3 mSv	About 150 chest x-rays	radiographs	1 uay +
Chest CT (adult settings)				
Abdominal CT (adjusted) Abdominal CT (adult settings)	Up to 5 mSv Up to 25 mSv	20 months background / About 250 chest x- rays	Ultrasound / MB	None

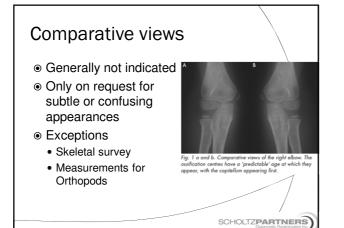
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	Activity	Death (per million/year)	\Box \land
	Being a person age 55 years (all causes)	10,000	
X	Smoking a pack of cigarettes daily (all causes)	3,500	
Í	Rock climbing for 2 h (accident)	500	- \
	Canceing for 20 h (accident)	200	1
	Motorcycling for 1,000 miles (accident)	200	
	Travelling 1,500 miles by car (accident)	40	
r	Being a pedestrian (accident)	40	
	Working 1 week as a fire-fighter (accident)	15	
	Working 1 week in agriculture (accident)	10	
	Fishing (drowning)	10	
	Eating (choking on aspirated food)	8	
	Skiing for 10 h (accident)	8	
	Working 1 month in a typical factory (accident)	5	
	Travelling 5,000 miles by air (accident)	5	
	Having a chest radiograph (radiation-induced cancer)	1	
-r	Visiting Denver for 2 months (cancer from cosmic rays)	1	⊣• —/

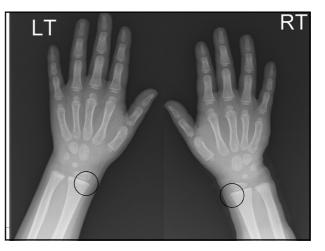


How do we reduce radiation? Image appropriately! Best investigation for question "Child-size" the amount of radiation used Technical stuff your Radiologist need to know about If we CT- Scan Only when necessary Only indicated region Only once

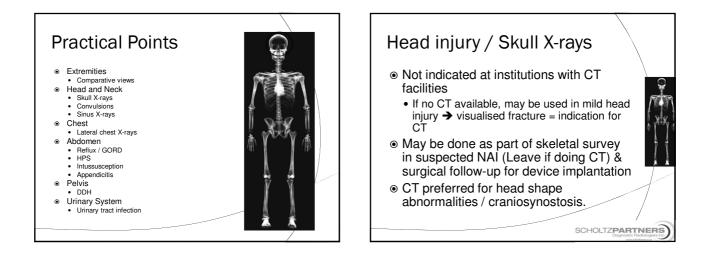


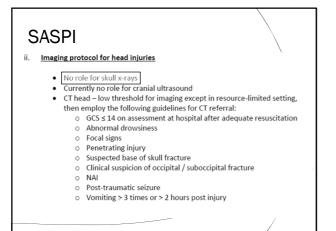




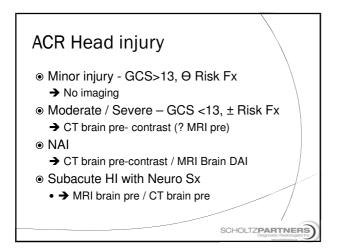


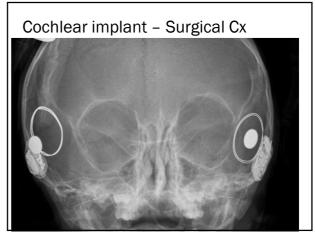
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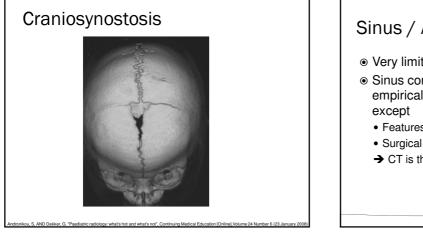


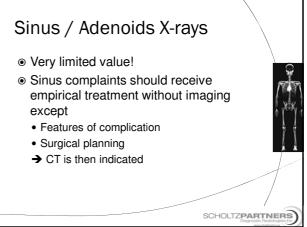


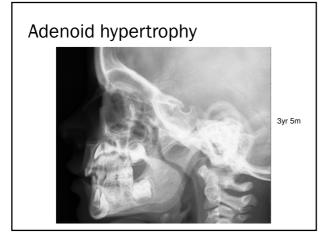
ACR		
	american College of Radiology CR Appropriateness Criteria®	
	and $(GCS > 13) \ge 2$ years of age without neurologic signs ental status, clinical evidence of basilar skull fr	
Radiologic Procedure	Rating Comments	RRL*
CT head without contrast	3 This is a known low-yield procedure.	***
MRI head without contrast	2	0
X-ray head	1	Ŷ
CT head without and with contrast	1	****
CT head with contrast	1	***
CTA head with contrast	1	****
MRI head without and with contrast	1	0
MRA head without contrast	1	0
MRA head without and with contrast	1	0
Arteriography cerebral	1	8888
US head	1	0
FDG-PET/CT head	1	****
Tc-99m HMPAO SPECT head	1	****
Rating Scale: 1,2,3 Usually not appropriate: 4,5,6 M	fay be appropriate; 7,8,9 Usually appropriate	*Relative Radiation Level

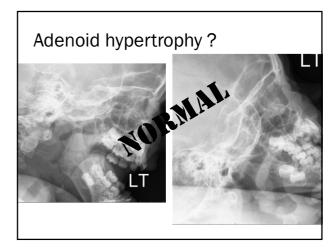


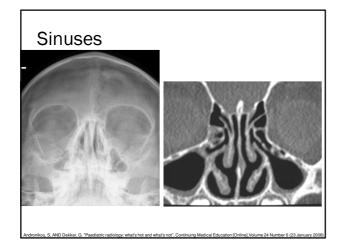




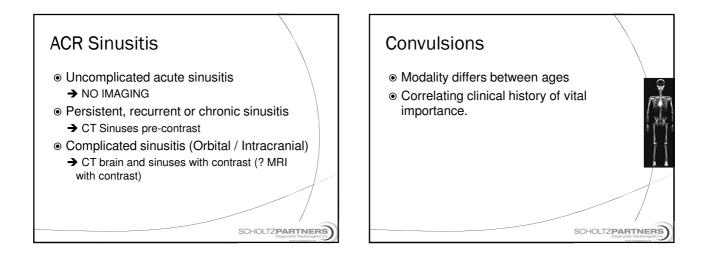


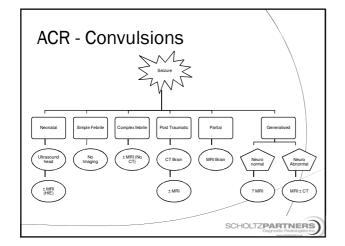


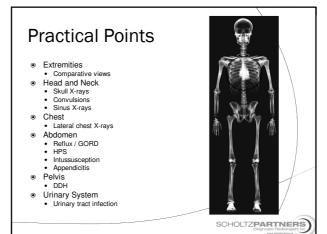


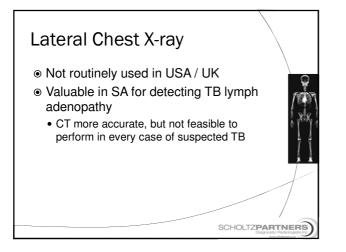


SASF		Sinuses
Indication		 (A) Only after trial of therapy if planning endoscopic surgery (B) Complicated Sinusitis – Orbital Cellulitis / Intracranial extension? (C) No role for plain radiographs (D) Do NOT image children under 4 years, particularly not under 2 years
\sum	(A) After trial of therapy prior to surgery	(B) Complicated Sinusitis – Orbital Cellulitis /Intracranial extension?
Contrast	Non C	Post C ONLY
Contrast		2 ml/kg

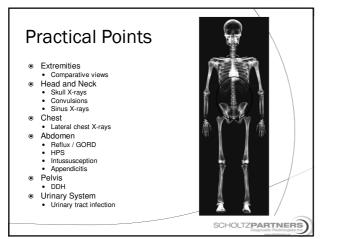


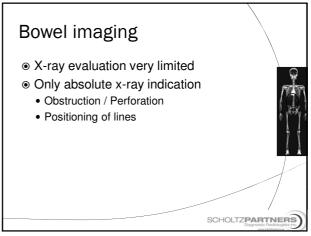




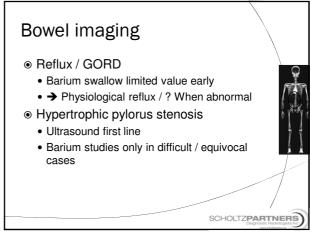


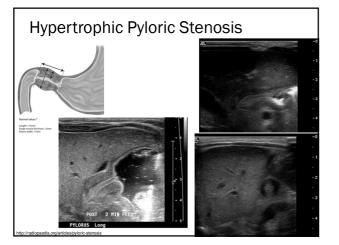


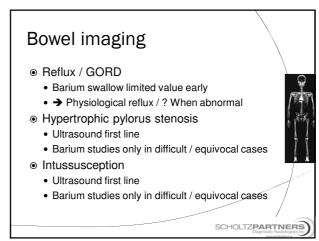


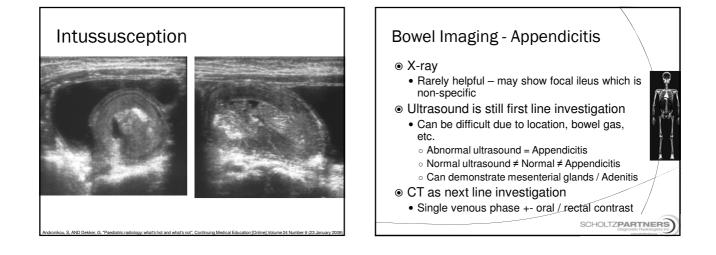


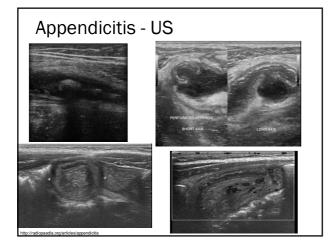


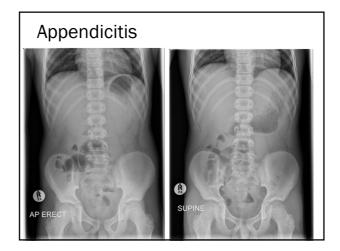


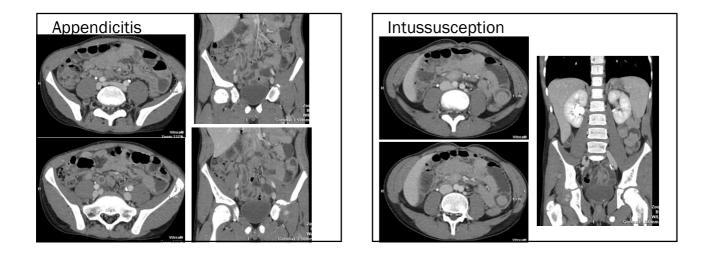












Appendicitis - ?Pre / ? Post





