## Dose associated with typical paediatric exams

(Adapted from Childrens Hospital Ireland webpage)

Here is an example of the doses involved for Chest exams using different imaging modalities:

	Chest X-ray (mSv)	Chest CT (mSv)	Chest MRI
4 weeks – < 4 Y (5 – <15kg)	0.02	0.96	
4 – < 10 Y (15 – <30kg)	0.01	1.97	No radiation dose
10 – < 14 Y (30 – <50 kg)	0.01	2.44	associated with MRI
14 – 18 Y (50 – 80 kg)	0.01	2.62	imaging

Note: All referrals MUST be justified in advance by radiographers who are undertaking the exposure

## This table gives examples of typical exams and the associated dose equivalent:

Imaging Exam	Dose Trefoil <sup>[1]</sup>	Equivalent Period of Exposure to Natural Radiation <sup>[3,4]</sup>
4yr Chest X-ray	•	A few days
6mth Abdominal / Pelvis X-ray	<b>☆</b> ❖	A few weeks
14yr old C-spine	•	A few days
12yr old Scoliosis Spine	•••	A few months
6yr MCUG		A few months
8 yrs old CT brain	•••	A few months
5 yrs old CT Abdomen		A few months
5yr old NM (DMSA)	<b>♀</b> ◆	A few months
1yr old NM (MAG3)	•••	A few months

## For more information:

More information can be found on the Childrens Health Ireland webpage:

https://www.childrenshealthireland.ie/your-hospital-visit/our-locations/chi-at-crumlin/

Also you can refer to the links below:

RP 178 Referral guidelines for medical imaging: availability and use in the European Union <a href="https://data.europa.eu/doi/10.2833/18118">https://data.europa.eu/doi/10.2833/18118</a>

iRefer: <a href="https://www.irefer.org.uk/">https://www.irefer.org.uk/</a>.

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https://www.acr.org/Clinical-Resources/ACR-Appropriateness-

Criteria | http://www.imagegently.org/