

**Appendix 1** (as supplied by the authors): Typical fetal dose from common radiological examinations

Clinical Presentation	Examination	Fetal Dose (mGy†)	Examinations required to exceed 50 mGy threshold
<b>Respiratory complaint</b>	Chest (PA & Lat)	< 0.01	>5000
	CT chest	0.2	250
	Ventilation perfusion scan	0.9	55
<b>Abdominal / Pelvic complaint in 1<sup>st</sup> trimester*</b>	Abdomen (AP)	1	50
	CT abdomen	4	12
	CT abdomen and pelvis	25	2
	CT abdomen/pelvis, Stone protocol for lithiasis	10	5
	Limited IVP	6	8
<b>Abdominal /Pelvic complaint in 2nd and 3<sup>rd</sup> trimester **</b>	Abdomen (AP)	3	17
	CT abdomen	4	12
	CT abdomen and pelvis	25	2
	CT abdomen/pelvis, Stone protocol for lithiasis	10	5
	Limited IVP	40	1
<b>Trauma</b>	Extremities/skull	<0.001	>50000
	lumbar spine (AP & lat)	1	50
<b>Bowel</b>	Double contrast BE	7	7
<b>Comparisons</b>	Transatlantic flight	0.01	500
	Fetal dose from naturally occurring background radiation during the gestation	1	-

CT=Computed tomography, limited IVP= Intravenous pyelography assumes 4 abdominopelvic images, BE= Barium Enema assumes four minutes fluoroscopy time and 12 digital spots

† To convert to rad divide by 10.

\* Assumes a patient thickness of 22cm,

\*\* Assumes a patient thickness of 33 cm.

### Additional Resources

**American College of Radiology and Society of Pediatric Radiology:** Practice parameter for imaging pregnant or potentially pregnant adolescents and women with ionizing radiation (August 2014)  
Available: [www.acr.org/~media/ACR/Documents/PGTS/guidelines/Pregnant\\_Patients.pdf](http://www.acr.org/~media/ACR/Documents/PGTS/guidelines/Pregnant_Patients.pdf)

**American College of Obstetricians & Gynecologists Committee Opinion:** Guidelines for diagnostic imaging during pregnancy (September 2004)  
Available: [www.acog.org/Resources-And-Publications/Committee-Opinions/Committee-on-Obstetric-Practice/Guidelines-for-Diagnostic-Imaging-During-Pregnancy](http://www.acog.org/Resources-And-Publications/Committee-Opinions/Committee-on-Obstetric-Practice/Guidelines-for-Diagnostic-Imaging-During-Pregnancy)