

Does KUB Xray before CT KUB lead to more or less radiation exposure in patients presenting with ureteric colic?

Probability of selecting a patient who actually has a stone for imaging:	0.5
Sensitivity of KUB Xray:	0.45
KUB Xray dose (mSv)	0.7
Low dose CT KUB dose (mSv)	3

If KUB Xray done first, and CT KUB only done if KUB is negative:

Average amount of radiation experience by people who are stone positive (mSv):	2.35
Average amount of radiation experience by people who are stone negative (mSv):	3.7
Average amount of radiation per person investigated (mSv):	3.025

If CT KUB done routinely as first line:

Average amount of radiation experience by people who are stone positive (mSv):	3
Average amount of radiation experience by people who are stone negative (mSv):	3
Average amount of radiation per person investigated (mSv):	3

Assuming specificity of KUB Xray as 100%

Assuming sensitivity and specificity of CT KUB as 100%

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