

















What is 5G?

- 5 Gigabits ?
- 5 Generation ?
- 5 Gravity ?
- 5 Giga-Hz?



What is 5G?

- The G in this 5G means it's a generation of wireless technology. While most generations have technically been defined by their data transmission speeds, that make it incompatible with the previous generation.
- 5G brings three new aspects to the table: bigger channels (to speed up data), lower latency (to be more responsive), and the ability to connect a lot more devices at once (for sensors and smart devices).









A	LA	RA

- •A: As
- L: Low
- •A: As
- R: Reasonably
- A: Achievable

- •A: Artificial
- L: Learning
- •A: Achievement
- R: Radiation
- A: Assurance

AI can help

• Al could have knock-on impacts on radiation protection by reducing the incidence of unnecessary procedures, reducing the doses administered, increasing the image quality, and improving patient safety in general.



AI can help

• There are several papers that examine where dosing has been reduced by at least 50% in CT scans.

• If you consider digital breast tomosynthesis imaging cases, you could reduce the dose by as much as 70%.

• Al will help to reduce the dose and can help deal with the difficulty of dose exposure, but also help to reduce the dose of contrast agent, which is extremely important.



AI can help

• Al will be a method of demonstrating the clinical value of radiology and will allow for faster and more accurate image assessment and hence diagnosis with prediction.

AI can help



• For example, heart radiologists assisting in developing a new sequence - and we see a very wide variation between each of them. This variability is a non-quality factor, and by using AI, you smooth this variation out. Then, you'll have no variation as the AI system response is always the same, and this is a very important aspect.

AI can help

• One other important aspect is the radiology workflow and instant dose receiving. The workflow is like working in a kind of cockpit. You are not always aware of what is happening in the working room and radiation exposure; in particular, you are not aware of emergencies. It is extremely important to have a system which connects with the emergency and which puts this emergency on top of a working list for the radiologists.









Personal Badge Revolution Instadose

instadose













Radiation is visible









Smart Hospital makes life better Better life makes us smarter



