



**Project Name**

Low Dose Computed Tomography (CT) Pulmonary Embolism (PE) Protocol

**Site**

Riyadh

**Department**

Radiology Department

**Project Status**

Completed

**Project Start Date**

01-01-2016

**Project End Date**

12-31-2016

**Problem:** Why the project was needed?

Radiology department believes that patient safety is number one priority to any healthcare organization. Nowadays, staff are utilizing high dose of radiation for Computed Tomography Pulmonary Embolism CT PE examinations.

Giving high dose of radiation will compromise patient safety. In addition, it is not following the ALARA principles.

**Benefits/Impact:** What is the improvement outcome?  
(check all that apply)

- Contained or reduced costs
- Improved productivity
- Improved work process
- Improved cycle time
- Increased customer satisfaction
- Other (please explain)  
Click or tap here to enter text.

**Aims:** What will the project achieve?

To reduce the amount of ionizing radiation exposure for patient undergoing CT for PE studies by 50% before the end of 2016

**Quality Domain:** Which of the domains of healthcare quality does this project support?  
(Select only one)

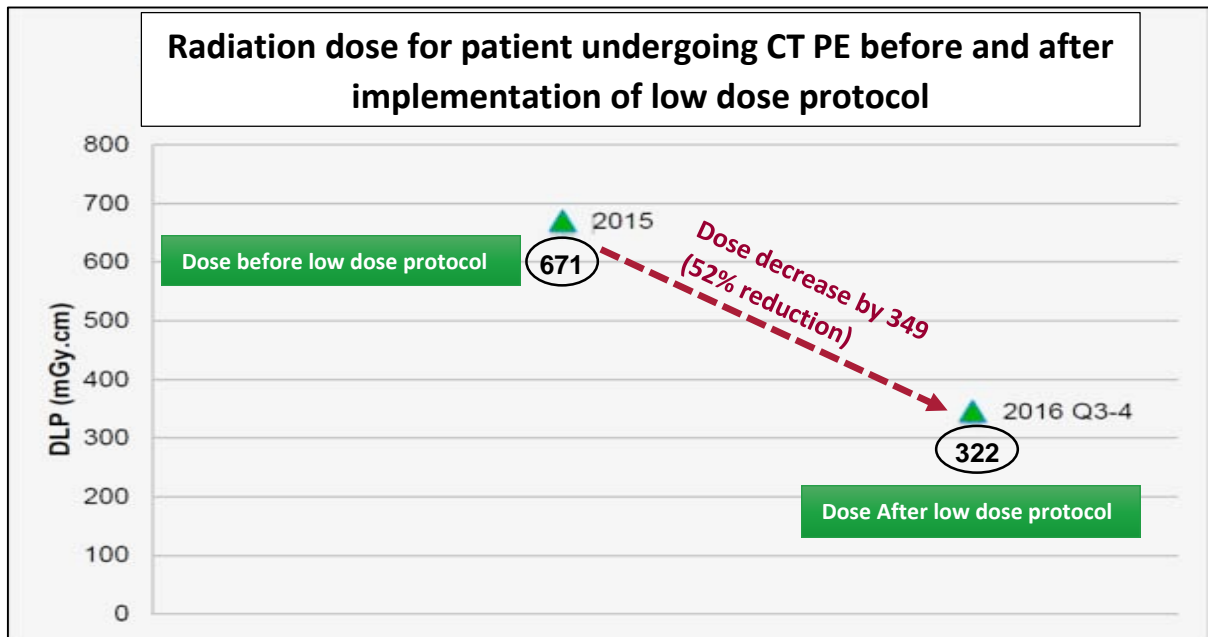
Safe

<b>Measures:</b> Performance metrics to be evaluated	<b>Targets:</b> Expected outcomes
Radiation dose for patient undergoing CT PE	To be below 335 mGY.cm

**Interventions:** Overview of key steps/work completed

- Data collection has been done.
- Revision of the protocol before implementing it.
- Implementation of New protocol in all the CT machines for CT PE studies.
- New protocol was disseminated among all CT staff.
- Initiation of a New indicator to maintain compliance.

**Results:** Insert relevant graphs and charts to illustrate improvement pre and post project  
(insert relevant graphs, data, charts, etc.)



**Project Lead**

**Name**

*(person accountable for project)*

Mashaal Alrujaib

**Team Members**

**Names**

*(persons involved in project)*

- Dr. Yusuf Alkadhi
- Manhal Alqurashi
- Raquel Tubera
- Saad Alenazi
- Khalid Aldossari
- Ibrahim Alkhargi
- Fawaz Skaff