**Program Title:** Advancements in Imaging

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**Discipline:** Radiologic Science

**Description:** Terminology such as flat panel detectors, charge-coupled devices, automatic rescaling, and edge enhancement are now commonplace in the clinical setting. Unlike the days of screen-film imaging, where technology evolved steadily but relatively slower, digital imaging has earned its spot in the fast lane of technological changes. Rapid advancements in the application of existing imaging detectors and the advent of new technologies present challenges for radiographers in keeping current with these changes. Therefore, the goal of this lecture is to provide radiographers with an overview of technological advancements in medical imaging.

**Objectives:**

1. Discuss advancements in imaging detectors.
2. Differentiate between slot scanning, tomosynthesis, and dual-energy imaging and areas of utilization.
3. Evaluate the benefits of various imaging technologies.