

Specialty area: Quantitation

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Highlights

- 1 Use of quantitation to improve diagnostic/therapeutic decisions
- 2 Examples of application of quantitation
- 3 Merits and challenges of quantitation

Quantitative Imaging

To go beyond morphological characterization to quantitate physiology, pathology and response to treatment so as to improve diagnostic and therapeutic decision-making. Definitions and examples of applications will be provided. The merits and the challenges of quantitation will be discussed.

- TARGET AUDIENCE

Graduate students, clinicians, technologists and biological scientists with an interest in, but little practical experience of, methods and application of image quantitation

- PURPOSE

- Provide the rationale behind quantitation
- Discuss when to apply quantitation; discuss how to extract and validate quantitative biomarkers
- Provide examples of techniques and studies that are conducive to quantitation
- Recognize the challenges for quantitative imaging research

- OUTCOMES

The talk will enable one to:

- Define quantitation
- Define key terms related to quantitative imaging
- Understand when it is useful to provide quantitation
- Understand the role of academic radiology in advancing quantitative imaging.