Background And Previous Work

Establish 3D CT Volumetry as a Surrogate Endpoint for Tumor Response

Specific Aims
To develop methods and processes for accurate and reproducible measurements of anatomic structures and masses.

Where We Go From Here
- Advanced Disease:
  1. Complete our project in lung cancer by developing methods for quantifying volume changes in the lung to lymphatic system.
  2. Expand these results to a similar area of indications that also produce solid metastatic lesions in the lung and lymphatic system. These tissues are common sites of disease in colorectal, urological, breast, stomach, pancreatic, melanoma, etc.
- Lung Nodule Assessment in CT Screening

Methodology
The method was based on a public challenge. Computer Tumor Growth (CTG) System. Long-term data, in long-term patients were used by the Food and Drug Administration (FDA). The initial tumour size was defined as the radius of the tumor (closed form). The initial tumour size was defined as the radius of the tumor (closed form).

Validation of volumetric CT as a better imaging biomarker for predicting patient survival

SA 1
- The aim of this study was to assess the volumetric radiologists estimating the size of synthetic nodules
- The QIBA CT Volumetry Technical Committee has completed its effort to define a process for optimal lung cancer volumetry accuracy. The QIBA CT Volumetry Technical Committee has completed its effort to define a process for optimal lung cancer volumetry accuracy.
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SA 2
- The overall survival will be compared using Kaplan-Meier graphs and Cox regression models to estimate the hazard ratios for the various categories of responses.

Future Directions

Inter-algorithm Performance in Volumetric Imaging using Clinical Data

QIBA 3A Group

Challenge Definition: Determine the clinical volumetry in locations CT. Explicitly indicate descriptive statistics, variance, and full hypothesis. Analyze software models with and without significant differences. In the QIBA CT Volumetry Technical Committee has completed its effort to define a process for optimal lung cancer volumetry accuracy. The QIBA CT Volumetry Technical Committee has completed its effort to define a process for optimal lung cancer volumetry accuracy.

Accuracy and Precision of Liver Lesion Volume Sizing Tools

Test / re-test Repeatability of CT Volumetry in an Animal Model of Liver Tumors

QIBA 3B Group

Study Design
- Designed as a technical challenge
- Patients provided prior set of images with incremental steps
- Applied on automated and semi-automated volume estimation
- Updated volume and isofunctional estimates

Other current and future activities

- Development of compliance requirements and testing process to support the published profile
- Methods
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  2. With the QIBA CT Volumetry Technical Committee has completed its effort to define a process for optimal lung cancer volumetry accuracy.

- Collaboration with groups working on clinical validation of volumetry in predicting patient outcomes and clinical trial results