

University of Groningen

Segmentation and quantitative analysis in whole-body PET imaging

Zhuang, Mingzan

IMPORTANT NOTE: You are advised to consult the publisher's version (publisher's PDF) if you wish to cite from it. Please check the document version below.

Document Version

Publisher's PDF, also known as Version of record

Publication date:

2019

[Link to publication in University of Groningen/UMCG research database](#)

Citation for published version (APA):

Zhuang, M. (2019). *Segmentation and quantitative analysis in whole-body PET imaging*. [Thesis fully internal (DIV), University of Groningen]. University of Groningen.

Copyright

Other than for strictly personal use, it is not permitted to download or to forward/distribute the text or part of it without the consent of the author(s) and/or copyright holder(s), unless the work is under an open content license (like Creative Commons).

The publication may also be distributed here under the terms of Article 25fa of the Dutch Copyright Act, indicated by the "Taverne" license. More information can be found on the University of Groningen website: <https://www.rug.nl/library/open-access/self-archiving-pure/taverne-amendment>.

Take-down policy

If you believe that this document breaches copyright please contact us providing details, and we will remove access to the work immediately and investigate your claim.

Downloaded from the University of Groningen/UMCG research database (Pure): <http://www.rug.nl/research/portal>. For technical reasons the number of authors shown on this cover page is limited to 10 maximum.

1. Currently, there is still no consensus on the most accurate and robust algorithm that should be adopted for reliable routine clinical PET image segmentation. *This thesis, chapter 2*
2. Quantitative results derived from [¹⁸F]FDG PET/CT studies in NSCLC patients show that all segmentation results need to be critically reviewed and that MATV, and other quantitative metrics, depend on segmentation method, uptake interval, and reconstruction protocol. *This thesis, chapter 3*
3. The systematic comparison of the performance of a range of oncologic image-derived PET metrics between SUV and parametric images, where the GT is known a priori, is highly desirable. *This thesis, chapter 4*
4. It is recommended that customized A_{coeff} values are provided for each tissue class of the segmented $\mu\text{-map}_{4\text{-class}}$ for each patient when possible. *This thesis, chapter 5*
5. A skillful commander manages to make the best use of the situation but does not make excessive demand on his subordinates. *Sun Wu in The Art of War*
6. Invincibility depends on oneself, but the enemy' vulnerability on himself. *Sun Wu in The Art of War*
7. A victorious army always seeks battle after his plans indicate that victory is possible under them, whereas an army destined to defeat fights in the hope of winning but without any planning. *Sun Wu in The Art of War*
8. Let our advance worrying become advance thinking and planning. *Winston Churchill*
9. I think, therefore I am. *Ren éDescartes*
10. Very often a change of self is needed more than a change of scene. *Arthur C. Benson*
11. There are many more people trying to meet the right person than to become the right person. *Gloria Steinem*