

## 2022 Course on Advanced Features of Quantification

<b>Facilitators:</b>	Nekolla/Hutton/Visvikis	
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2022	
Session I - Introduction	
09:30 - 09:45	Introduction of the Speaker and the Participants
09:45 - 10:15	Evaluation Quiz/Assessment of Starting Knowledge*
10:15 - 10:45	General discussion on introductory content
10:45 - 11:00	Q&A on introductory content

11:00 - 11:30	Coffee Break
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Session II	
11:30 - 12:10	Lecture 1: Issues in quantification: attenuation and scatter
12:10 - 1:00	Practical 1a: familiarity with SPECT-demo
13:00 - 13:40	Lunch Break

Session III	
13:40 - 14:20	Lecture 2: Issues in quantification: resolution and partial volume effects
14:20 - 15:00	Lecture 3: Issues in quantification: motion effects and management
15:00-15:40	Practical 1b: SPECT exercise

15:40 - 16:10	Coffee Break
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Session IV	
16:10 - 16:50	Lecture 4: Issues in quantification: resolution models, priors and TOF (reconstruction)
16:50 - 17:30	Practical 1c: PVC exercise
17:30-18:00	Day 1: Discussion session I
18:00	End of Day 1

2022	
Session V	
09:00 - 09:40	Lecture 5: Quantitative PET imaging: image derived parameters
09:40 - 10:20	Lecture 6: Quantitative PET imaging: dynamic imaging & kinetic modeling

10:20 - 11:00	Practical 2: Segmentation familiarity
11:00-11:20 Coffee Break	
<b>Session VI</b>	
11:20 - 12:00	Lecture 7: Importance of instrument development
12:00 - 12:40	Lecture 8: Clinical considerations for quantitative imaging
12:40 - 13:20 Lunch Break	
<b>Session VII</b>	
13:20-14:00	Lecture 9: AI perspectives for image quantification
14:00 - 14:40	Lecture 10: Quantitative SPECT imaging: dosimetry
14:40 - 15:20	Practical 3: Clinical demonstration PET
15:20 - 15:40	Day 2: Discussion session II
15:40-16:00 Coffee Break	
16:00-16:40	Evaluation/Test of Gained Knowledge
16:40 - 17:00	Debriefing of the Course/Discussion on Last Open Questions
17:00	End of Day 2