

Program cardiac imaging in research

Course committee:

Eva Gerdts, *University of Bergen*

Stein Ørn, *University of Stavanger*

Helga Midtbø, *Haukeland University Hospital*

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Bård Bendiksen, *Oslo University Hospital and University of Oslo*

Tuesday March 6, 2018

09:30-09:40	Registration and welcome; Introducing the interactive concept of the course Eva Gerdts, University of Bergen
	Basic principles of imaging - Cardiac magnetic resonance imaging (CMR) <i>Chair: Helga Midtbø, Haukeland University Hospital</i>
09:40-10:05	<u>Magnetism and radio waves</u> Emil Stenersen Espe, University of Oslo
10:05-10:30	<u>What is T1 and T2, how does Gadolinium contrast work?</u> Stein Ørn, University of Stavanger
10:35-10:55	<i>Panel discussion: Stein Ørn and Emil Stenersen Espe</i> <i>2 min buzz, then questions</i>
11:00-11:20	Coffee break
	Basic principles of imaging - Echocardiography <i>Chair: Stein Ørn, University of Stavanger</i>
11:20-11:45	<u>Cardiac ultrasound- how waves create an image</u> Knut Matre, University of Bergen
11:45-12:10	<u>Imaging cardiac structure using echocardiography</u> Eva Gerdts, University of Bergen
12:10-12:30	<i>Panel discussion: Eva Gerdts and Knut Matre</i> <i>2 min buzz, then questions</i>
12:30-13:30	Lunch
	<i>Chair: Eva Gerdts, University of Bergen</i>
13:30-14:00	<u>How to preform cardiac imaging in rodent models- all you need to know</u> Magnus Aronsen, University of Oslo
14:00-14:20	<i>Panel discussion: Magnus Aronsen and Stein Ørn</i> <i>2 min buzz, then questions</i>
14:20-14:40	Coffee break



14:40-15:40	<i>Chair: Eva Gerds, University of Bergen</i> Presentation of own research 3 minutes presentation + 5 minutes discussion
15:40-17:00	<u>Group work: How to design an imaging study assessing myocardial structure in rodents and humans.</u>
19:00	<i>Dinner at local restaurant and shuffleboard tournament</i>

Wednesday March 7, 2019

09:00-09:30	Presentation of group work, max 3 slides
	Cardiac function
09:30-10:00	<i>Chair: Stig Urheim, Haukeland University Hospital</i> <u>Traditional measures of cardiac systolic function</u> Dana Cramariuc, Haukeland University Hospital
10:00-10:30	<u>Myocardial strain imaging- are we there yet?</u> Asbjørn Støylen, Norwegian University of Science and Technology
10:30-10:40	<i>Panel discussion: Dana Cramariuc and Asbjørn Støylen</i> <i>2 min buzz, then questions</i>
10:40-11:00	Break
	<i>Chair: Asbjørn Støylen, Norwegian University of Science and Technology</i>
11:00-11:20	<u>Left ventricular diastolic function</u> Sahrai Saeed, Haukeland University Hospital
11:25-11:45	<u>Cardiac function assessed by CMR: what are the benefits and pitfalls?</u> Brage Amundsen, St. Olav Hospital
11:45-11:55	<i>Panel discussion: Sahrai Saeed and Brage Amundsen</i> <i>2 min buzz, then questions</i>
11:55-12:30	<u>Presentation of own research</u> 3 minutes presentation + 5 minutes discussion
12:30-13:30	Lunch
	<i>Chair: Knut Matre, University of Bergen</i>
13:30-14:00	<u>Stress echocardiography: concept and new application areas</u> Asbjørn Støylen, Norwegian University of Science and Technology
14:00-14:40	<u>Keynote lecture: Cardiac CT in research</u> David Newby, University of Edinburgh
14:40-14:50	<i>Panel discussion: Asbjørn Støylen and David Newby</i> <i>2 min buzz, then questions</i>
14:50-15:00	Break
15:00-16:00	<u>Group work: How to design an imaging study to assess myocardial function in rodents and humans.</u>



Dinner- local restaurant 19:00

Thursday March 8, 2018

09:00-09:30	Presentation of group work, max 3 slides, comments/discussion
	Cardiac imaging in disease
	<i>Chair: Stein Ørn, University of Stavanger</i>
09:30-10:30	<u>Presentation of own research</u> 3 minutes presentation + 5 minutes discussion
10:30-10:50	Break
10:50-11:20	<u>CMR assessment of myocardial ischemia: is bright really dead?</u> Stein Ørn, University of Stavanger
11:20-11:50	<u>3D echocardiography of CV diseases - why should we do 3D when we have 2D?</u> Stig Urheim, Haukeland University Hospital
11:50-12:00	<i>Panel discussion: Stein Ørn and Stig Urheim</i> <i>2 min buzz, then questions</i>
12:00-12:45	Lunch
	<i>Chair: Helga Midtbø, Haukeland University Hospital</i>
12:45-13:30	<u>Multimodality imaging in cardiac diseases – using AS as an example</u> Eva Gerdts, University of Bergen
13:30-13:45	<i>2 min buzz, then questions</i>
13:45-14:00	Break
14:00-16:00	Course evaluation and exam