

Program cardiac imaging in research

Tuesday March 5, 2019

09:45-10:00	Registration and welcome; Introducing the interactive concept of the course Eva Gerdts, University of Bergen
	Basic principles of imaging <i>Chair: Helga Midtbø, Haukeland University Hospital</i>
10:00-10:25	<u>Cardiac ultrasound- how waves create an image</u> Knut Matre, University of Bergen
10:25-10:50	<u>Cardiac magnetic resonance imaging (CMR) – magnetism and radio waves</u> Lili Zhang, University of Oslo
10:50-11:00	<i>Panel discussion: Knut Matre and Lili Zhang</i> <i>2 min buzz, then questions</i>
11:00-11:20	Coffee break
	Imaging of cardiac structure <i>Chair: Eva Gerdts, University of Bergen</i>
11:30-11:55	<u>Imaging cardiac structure using echocardiography</u> Eva Gerdts, University of Bergen
11:55-12:20	<u>Imaging cardiac structure using CMR- what does CMR add?</u> Stein Ørn, University of Stavanger
12:20-12:30	<i>Panel discussion: Eva Gerdts and Stein Ørn</i> <i>2 min buzz, then questions</i>
12:30-13:30	Lunch
	<i>Chair: Stein Ørn, University of Stavanger</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
14:00-14:30	<u>Rodent models and CMR imaging; advantage and challenges</u> Lili Zhang, University of Oslo
14:30-14:40	<i>Panel discussion: Magnus Aronsen and Lili Zhang</i> <i>2 min buzz, then questions</i>
14:40-15:00	Coffee break
15:00-16:00	Presentation of own research 3 minutes presentation + 5 minutes discussion
16:00-17:00	<u>Group work: How to design an imaging study assessing myocardial structure in rodents and humans:</u>
19:00	Dinner

Wednesday March 6, 2019

09:00-09:30	Presentation of group work, max 3 slides
	Cardiac function
	<i>Chair: Eva Gerds, University of Bergen</i>
09:30-09:50	<u>Traditional measures of cardiac systolic function</u> Dana Cramariuc, Haukeland University Hospital
09:50-10:30	<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, NTNU</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> Einar Hopp, Oslo University Hospital
11.45-11.55	<i>Panel discussion: Sahrai Saeed and Einar Hopp</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: Helga Midtbø, Haukeland University Hospital</i>
13:30-14:00	<u>Stress echocardiography: concept and new application areas</u> Asbjørn Støylen, Norwegian University of Science and Technology
14:00-14:30	<u>3D echocardiography, why should we do 3D when we have 2D?</u> Stig Urheim, Haukeland University Hospital
14:30-14:40	<i>Panel discussion: Asbjørn Støylen and Stig Urheim</i> <i>2 min buzz, then questions</i>
14:40-15:00	Break
15:00-16:00	<u>Group work: How to design an imaging study to assess myocardial function in rodents and humans; tips and tricks</u>
19:00	Dinner

Thursday March 7, 2019

09:00-09:30	Presentation of group work, max 3 slides, comments/discussion
	Multimodality cardiac imaging <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>Multimodality imaging in cardiac diseases – aortic valve stenosis</u> Eva Gerdts, University of Bergen
11:50-12:00	<i>Panel discussion: Stein Ørn and Eva Gerdts</i> <i>2 min buzz, then questions</i>
12:00-13:00	Lunch
	<i>Chair: Helga Midtbø, Haukeland University Hospital</i>
13:00-14:00	<u>Keynote lecture: Cardiac CT in research</u> David Newby, University of Edinburgh
14:00-14:10	<i>2 min buzz, then questions</i>
14:10-14:30	Break
14:30-16:30	Course evaluation and exam (<i>Helga Midtbø and Ester Kringeland</i>)

Course committee:

Eva Gerdts, *University of Bergen*

Stein Ørn, *University of Stavanger*

Helga Midtbø, *Haukeland University Hospital*

Ester Kringeland, *University of Bergen*