



## Course Program

*Course Masters: Dr. Gerhard Wess (DE), Prof. Dr. Jens Häggström (SE)*

### Monday, 14 September 2009 – Physical examination and ECG of the cardiac patient

8:30 – 9:00	<b>Welcome and registration</b>	
9:00 – 10:00	Clinical auscultation I: Physical examination and heart murmur	Häggström
10:00 – 10:30	<b>Coffee Break</b>	
10:30 – 11:15	Clinical auscultation II: Lung pathology	Häggström
11:15 – 12:00	ECG – interpretation made easy I	Wess
12:00 – 13:15	<b>Lunch Break</b>	
13:15 – 14:00	Cardiac Arrhythmias and Conduction Disturbances	Wess
14:00 – 14:45	Antiarrhythmic Drugs	Häggström
14:45 – 15:15	<b>Coffee Break</b>	
15:15 – 16:00	Treatment Strategies of Specific Arrhythmias	Wess
16:00 – 16:45	ECG practicals based case examples (small groups)	

### Tuesday, 15 September 2009 – Diagnostics: Radiology and Biomarker

9:00 – 10:00	Reading chest radiographs – cardiac diseases	Wess
10:00 – 10:30	<b>Coffee Break</b>	
10:30 – 11:15	The basics of Rx-morphology: vascular/interstitial/bronchial/alveolar pattern	Wess
11:15 – 12:00	Lung diseases: typical morphology/case examples and mediastinal diseases	Häggström
12:00 – 13:15	<b>Lunch Break</b>	
13:15 – 14:00	Biomarker-troponins	Häggström
14:00 – 14:45	Biomarker - NTproBNP	Wess
14:45 – 15:15	<b>Coffee Break</b>	
15:15 – 16:00	ECG case studies	Wess
16:00 – 16:45	Radiograph interpretation - cases	Häggström

### Wednesday, 16 September 2009 – Pathophysiology and Therapeutic principles

9:00 – 10:00	Pathophysiology of the failing heart	Häggström
10:00 – 10:30	<b>Coffee Break</b>	
10:30 – 11:15	ACE- Inhibitors – from physiology to clinical use	Häggström
11:15 – 12:00	Diuretics	Wess
12:00 – 13:15	<b>Lunch Break</b>	
13:15 – 14:00	Positive inotrope and inodilator	Wess
14:00 – 15:00	Neurohumoral regulation and treatment options: Beta-adrenergic blocking drugs / Spironolactone	Häggström
15:00 – 15:30	<b>Coffee Break</b>	
15:30 – 16:45	Clinical case studies ECG cases	Wess

### Thursday, 17 September 2009 – The basics of echocardiography and acquired diseases

9:00 – 10:00	Echocardiography: basic techniques and standard views	Wess
10:00 – 10:30	<b>Coffee Break</b>	
10:30 – 11:15	Problem based echocardiographic approach	Wess
11:15 – 12:00	Chronic valvular diseases – diagnosis and staging	Häggström
12:00 – 13:15	<b>Lunch Break</b>	
13:15 – 14:00	Chronic valvular diseases – therapy	Häggström
14:00 – 14:45	Dirofilariosis – Heartworm disease	Wess
14:45 – 15:15	<b>Coffee Break</b>	
15:15 – 16:00	Feline Cardiomyopathies – Diagnosis	Wess
16:00 – 16:45	Feline Cardiomyopathies – Therapy	Wess

### Friday, 18 September 2009 – Acquired and congenital diseases

9:00 – 10:00	Pulmonic stenosis	Häggström
10:00 – 10:30	<b>Coffee Break</b>	
10:30 – 11:15	Aortic stenosis/SAS	Häggström
11:15 – 12:00	PDA	Wess
12:00 – 13:15	<b>Lunch Break</b>	
13:15 – 14:00	Pericardial diseases	Häggström
14:00 – 14:45	DCM, ARVC, Doberman cardiomyopathy - diagnosis	Wess
14:45 – 15:15	<b>Coffee Break</b>	
15:15 – 16:00	DCM, ARVC, Doberman cardiomyopathy - therapy	Wess
16:00 – 16:45	ECG practicals	Wess
16:45 – 17:00	Wrap-up of course	Wess