

# **Echo In Context 2005**

## **The Pulse and the Beat: ECG and Echo Program Outline**

### Part I: Patients and the problems

<i>Patient</i>	Meet Mr. P, a patient with heart disease	Lab team
<i>PANEL</i>	Early discussion	
<i>Lecture</i>	EKG and Echo: The sudden demand for service and therapies	
<i>Lecture</i>	EKG disorders with echo implications: Uses and examples	
<i>Echo lab</i>	Case of heart failure with congenital LV disease	Lab team
<i>Anatomy</i>	Anatomy 1: Echo anatomy for EKG disorders	Lab team
<i>Lecture</i>	Atrio-ventricular dissynchrony: Atrial fibrillation and echo	
<i>Echo lab</i>	Case evaluating the LA and its size	Lab team

### Part II A: Methods and measuring

<i>Echo lab</i>	A case of LV dyssynchrony	Lab team
<i>Lecture</i>	Ventricular dyssynchrony: Heart failure	
<i>Patient</i>	Mr P is evaluated	Lab team
<i>Anatomy</i>	Anatomy 2: Movement vs. velocity: Thickening, velocity and excursion and their meaning	Lab team
<i>Lecture</i>	Current methods for determining dyssynchrony	
<i>Echo lab</i>	A case of LV dyssynchrony	Lab team
<i>Lecture</i>	3D in a world of spatial electrical and mechanical movement	
<i>PANEL</i>	Methods: Advantages and disadvantages	

**BREAK**

## Part II B: Methods and measuring

<b>PANEL</b>	<b>Methods: Advantages and disadvantages (<i>continued</i>)</b>	
<b>Lecture</b>	<b>Ventricular assessment of size, shape and function in EKG disorders</b>	
<b>Lecture</b>	<b>Stress, strain and strain-rate: Meaning for everyday practice</b>	
<b>Echo Lab</b>	<b>A case where strain and strain rate are needed</b>	<b>Lab team</b>
<b>Echo lab</b>	<b>Common LV measures in EP patients</b>	<b>Lab team</b>
<b>PANEL</b>	<b>PANEL: Methods and measuring (<i>continued</i>)</b>	<b>Lab team</b>

## Part III: Matching Patients to Therapy

<b>Demo</b>	<b>Demonstration: Common devices, their placement and use</b>	<b>Lab team</b>
<b>EP lab</b>	<b>A trip to the EP lab</b>	<b>Lab team</b>
<b>ANATOMY</b>	<b>Relating devices to the heart: Presenting the echo target</b>	<b>Lab team</b>
<b>Lecture</b>	<b>Selecting patients for CRT</b>	
<b>Patient</b>	<b>Mr. P has a pacemaker insertion</b>	<b>Lab team</b>
<b>Lecture</b>	<b>Optimizing and recognizing patients who need it</b>	
<b>Echo lab</b>	<b>Evaluating a case for optimization</b>	<b>Lab team</b>
<b>Echo lab</b>	<b>Working up cases and audience questions</b>	<b>Lab team</b>
<b>Echo lab</b>	<b>A case for optimization procedure</b>	<b>Lab team</b>
<b>Tape</b>	<b>Mr. P's results</b>	<b>Lab team</b>
<b>Lecture</b>	<b>Even more demands: The next steps for the EKG and echo</b>	
<b>PANEL</b>	<b>PANEL</b>	