

# *Element 39.50*

## **Video sizing for Greg**

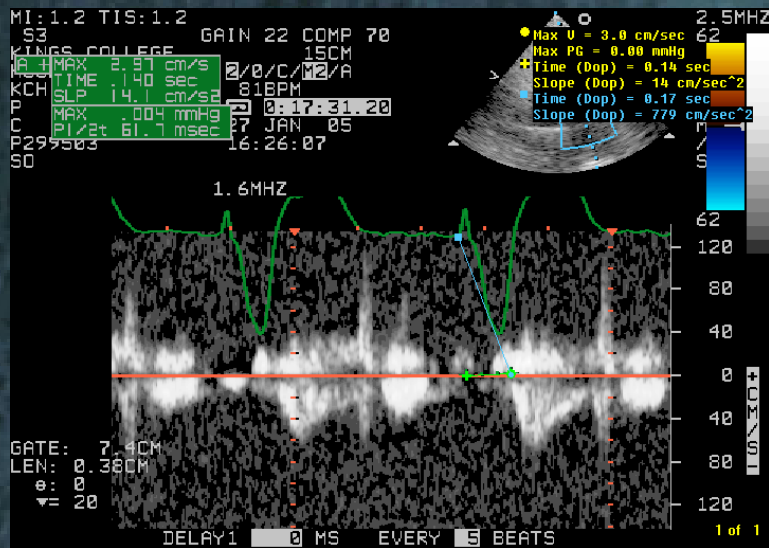
**Movie images for workbook  
version but NOT for Greg's  
version**



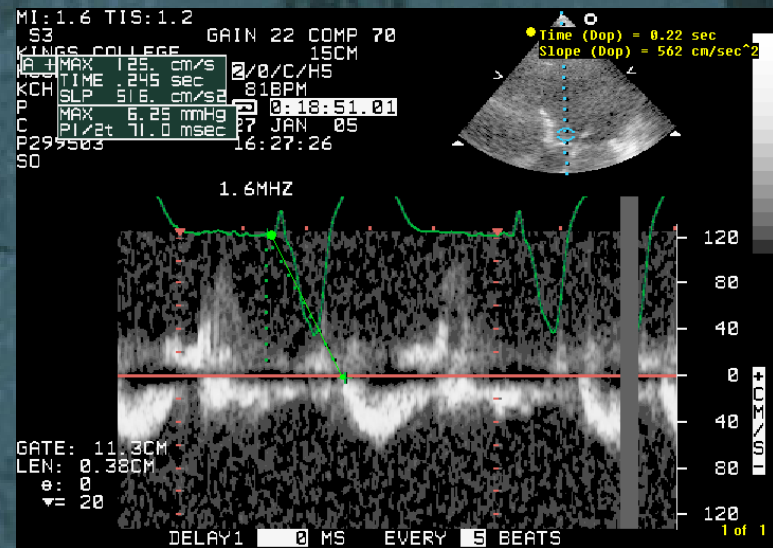
# Case Study

- **55 y.o. male**
- **RV pacer and AV node ablation for atrial fibrillation 1 yr ago**
- **Infarct 7 mos ago following routine surgery**
- **Progressive severe heart failure**
- **Now for Bi-V pacer evaluation**

# Inter-ventricular Delay



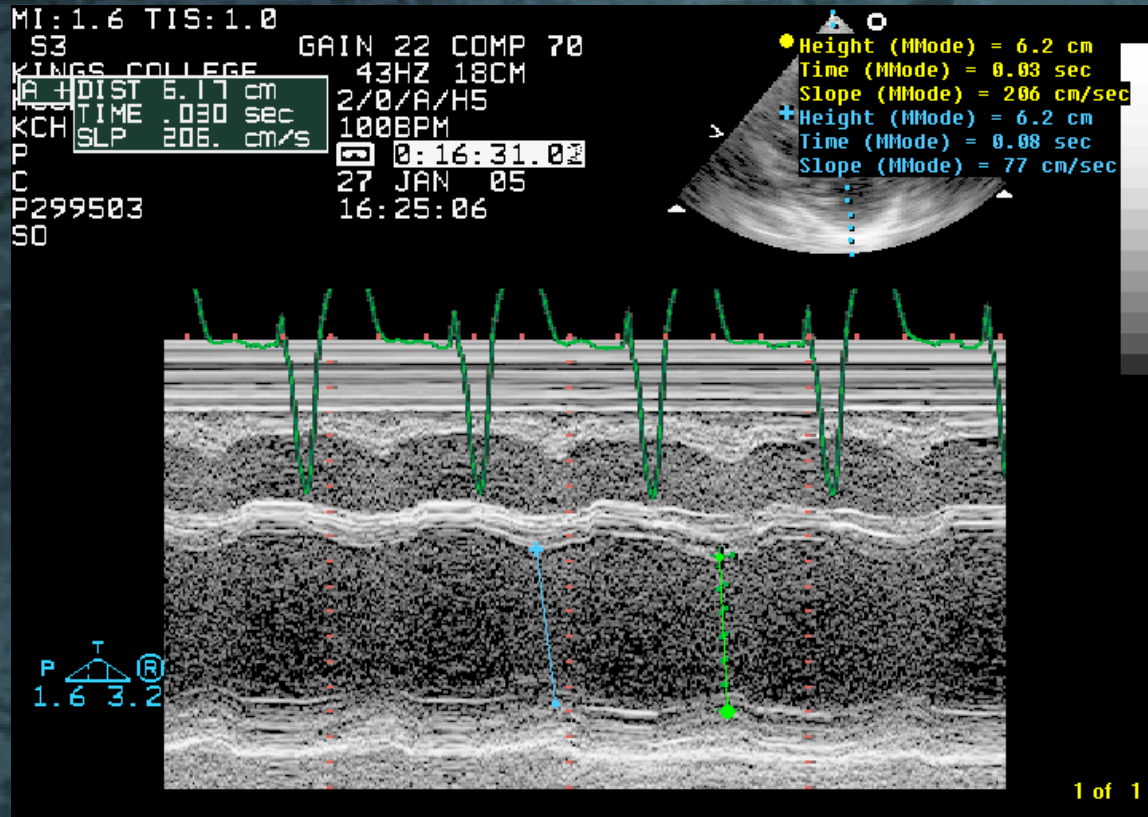
**RVOT: 170 ms**



**LVOT: 245 ms**

**Delay  $\geq$  40 ms is consistent with significant inter-ventricular dyssynchrony**

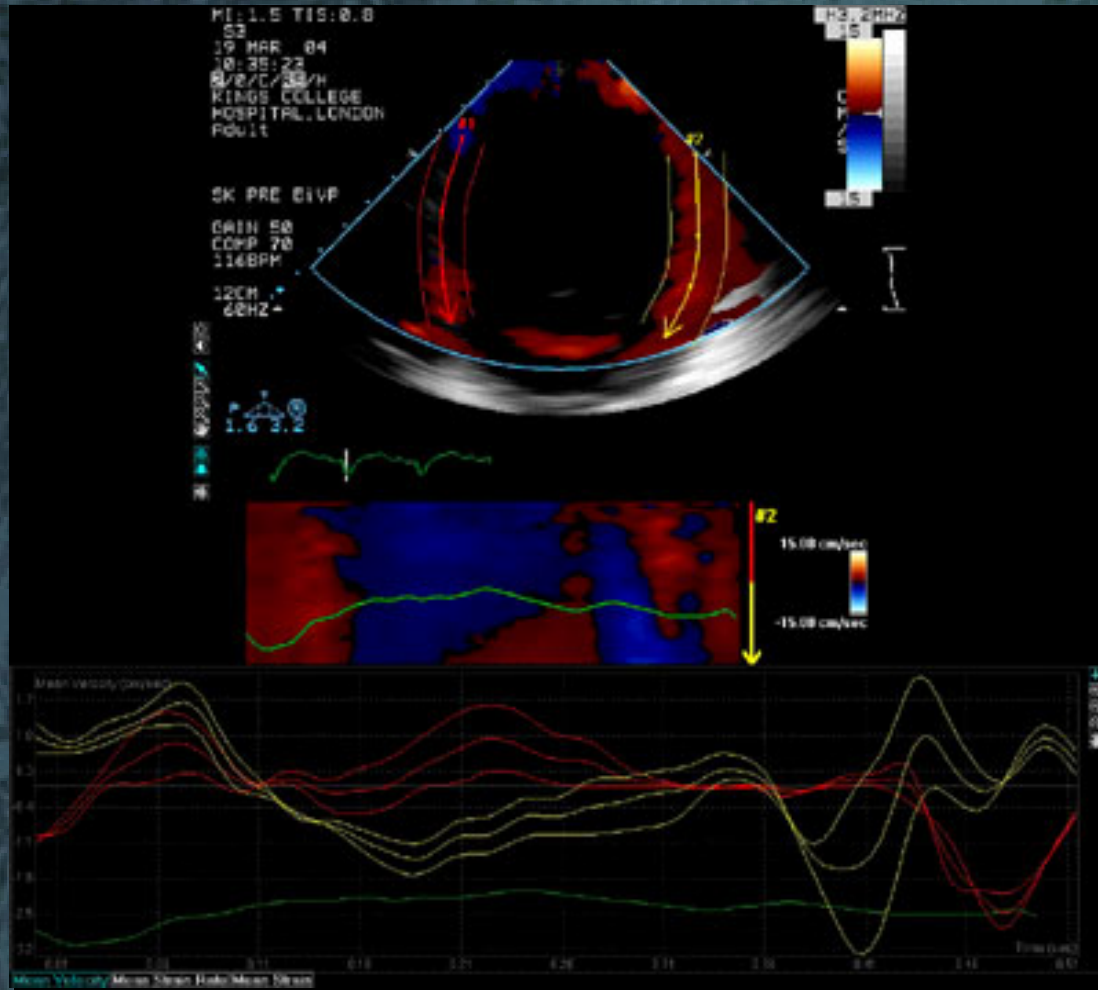
# SPWMD



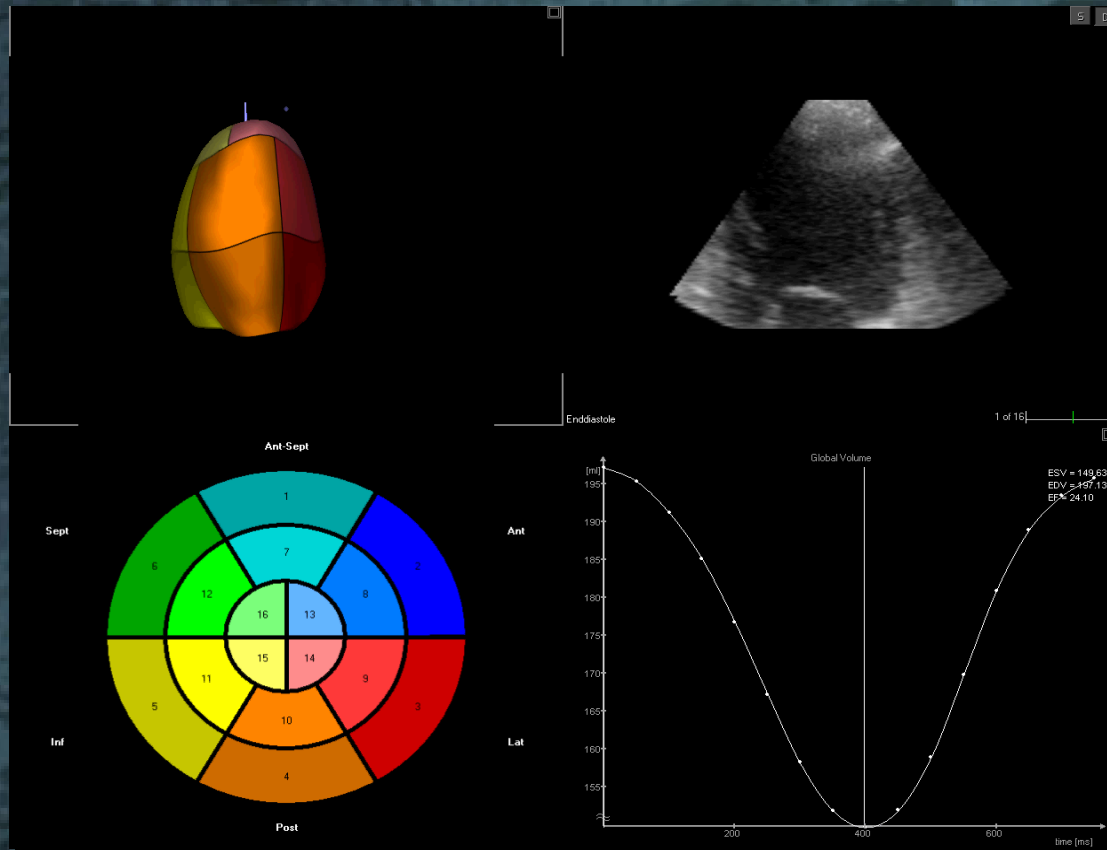
SPWMD 80 ms

≥ 130 cut-off for CRT (Pitzalis, et al, JACC 2003)

# TDI

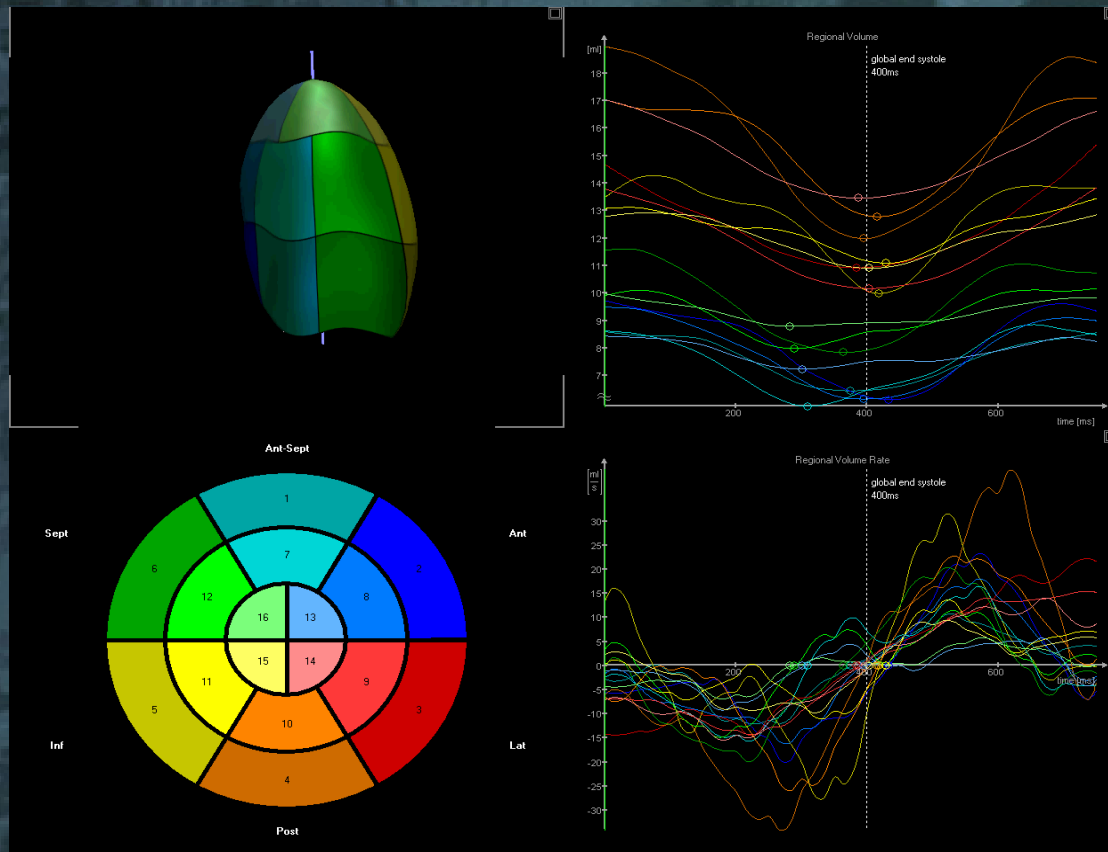


# Real-Time 3D Echo



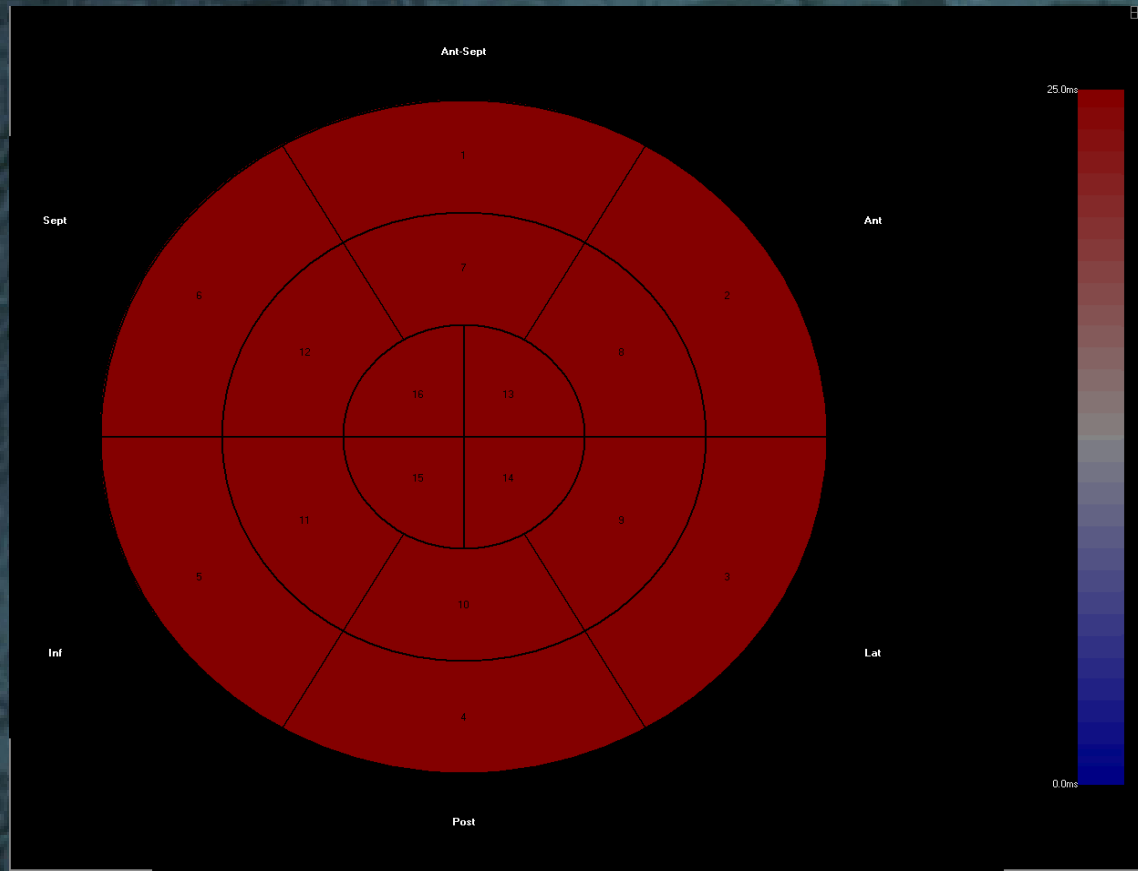
Pre CRT

# RT3DE - Regional Volumes



Pre CRT

# Contraction Front Mapping



**Pre CRT**

# Disparity explanation

3D looks at many things

- All 16 segments
- 3D surface area
- Composite of all motion