

Element 82.00

Video sizing for Greg

Submit without red line

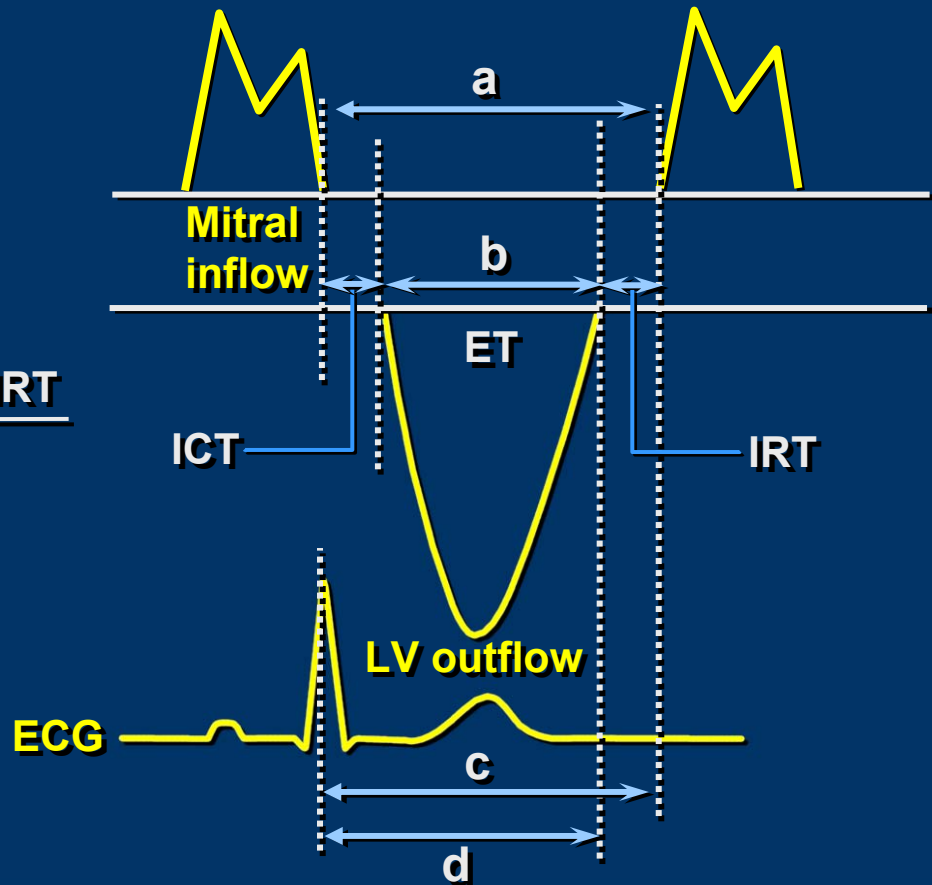


Case Study

- **58 y.o. male merchant seaman**
- **Class IV heart failure**
- **Bi-V pacer placed 7 mos ago**
- **Now doing well**
- **For optimization check**

Myocardial Performance Index

$$\text{Index} = \frac{a - b}{b} = \frac{\text{ICT} + \text{IRT}}{\text{ET}}$$



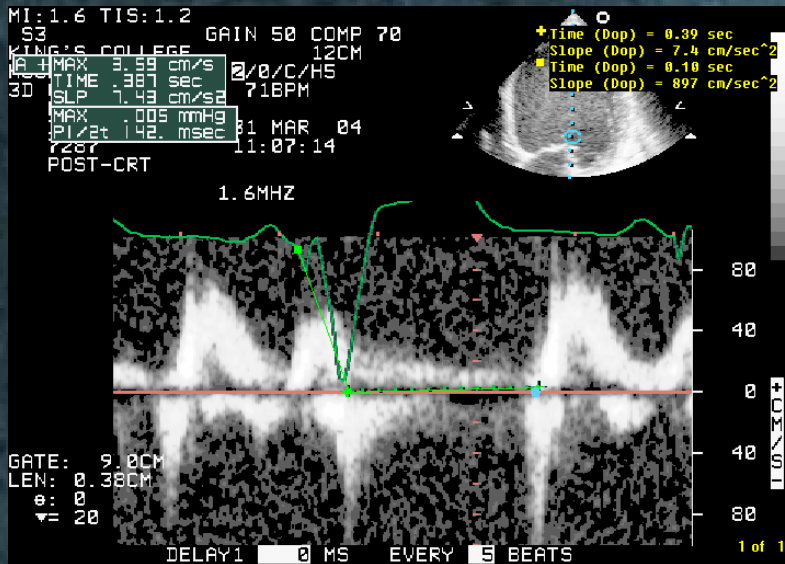
*C. Bruch, et al.
Eur H Journal, 2004*

MPI Optimisation

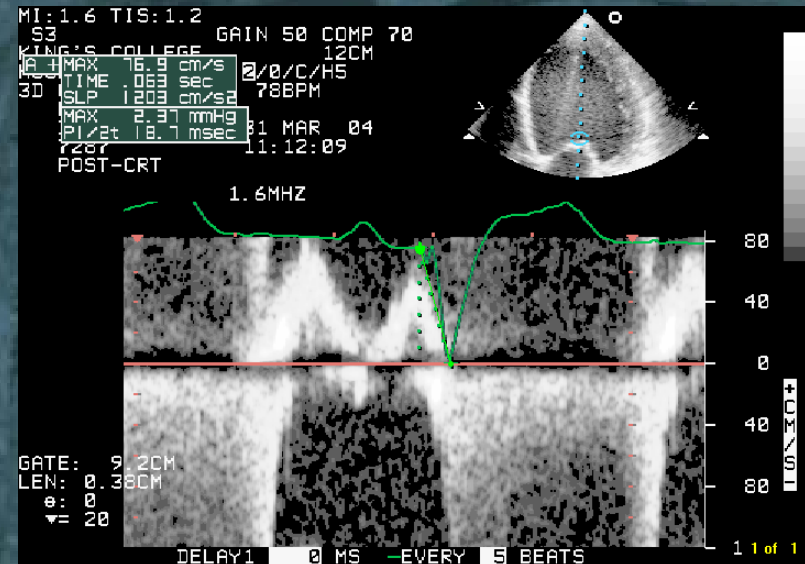


$AV_{opt} = 120$ ms

Ritter Formula



AV_{short} 50 ms
QA_{short} 100 ms



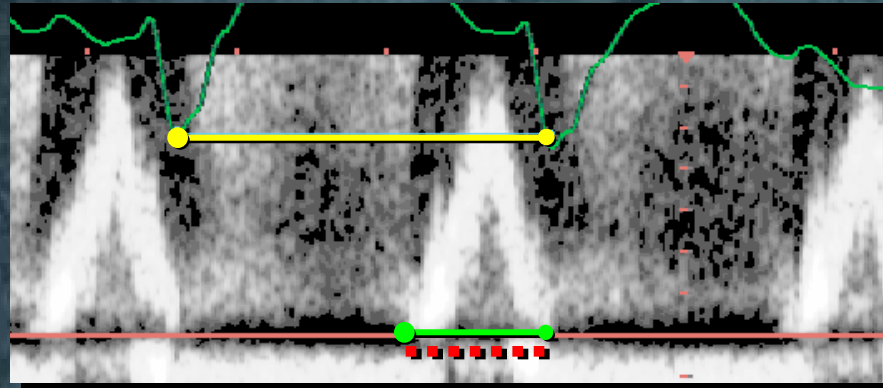
AV_{long} 160 ms
QA_{long} 63 ms

AV_{opt}: 123 ms

Formula: $AV_{opt} = AV_{short} + [(AV_{long} + QA_{long}) - AV_{short} + QA_{short}]$

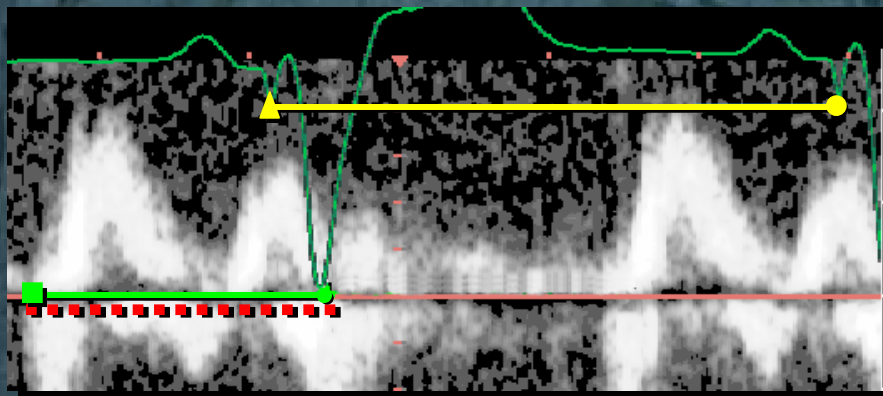
Filling Time

Pre CRT



FT: 190 ms (38%)

AV Delay
120 ms



FT: 400 ms (52%)