

Ablation of Arrhythmias in the Elderly : Best Practice

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Ablation of supraventricular tachycardia in a 96 year old

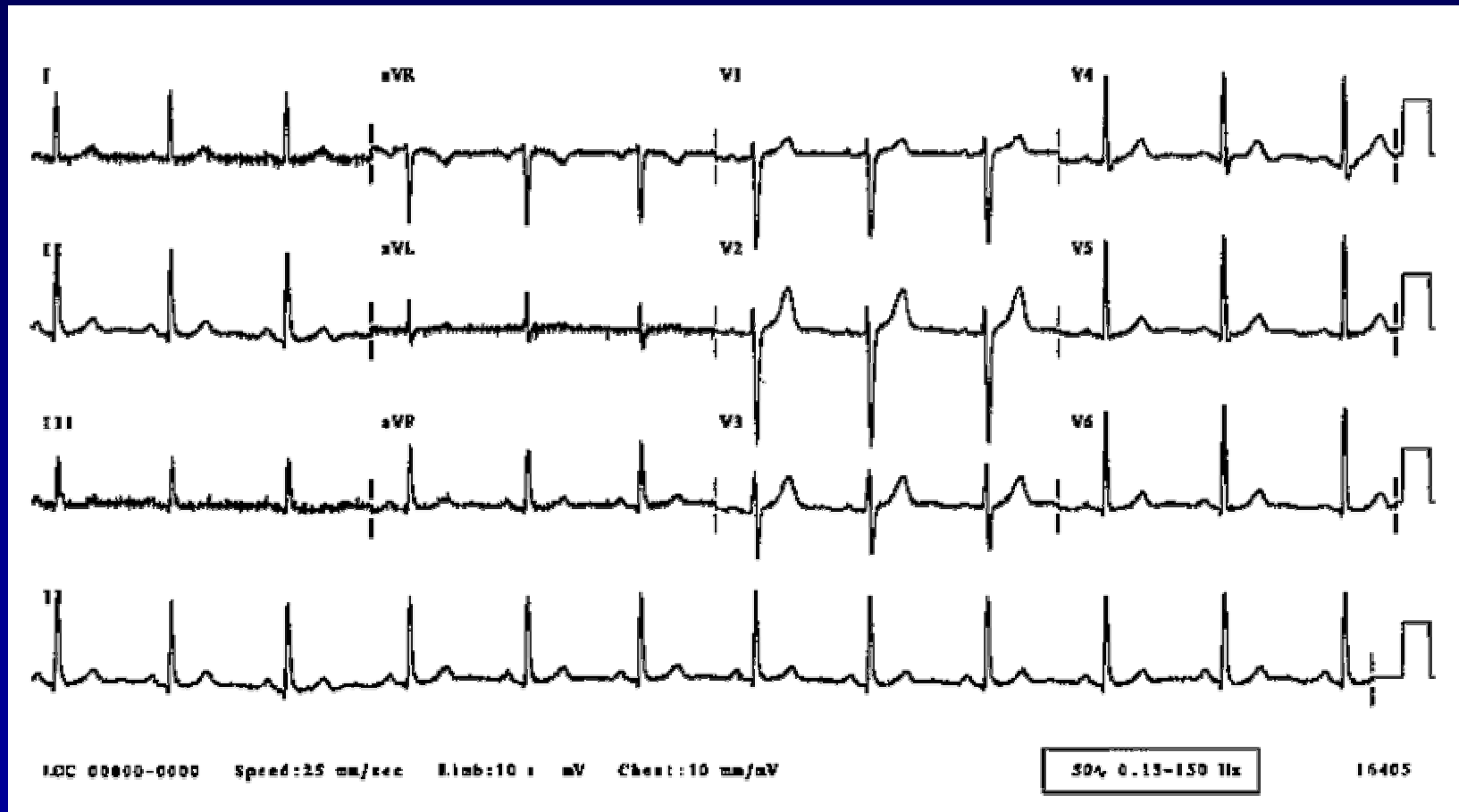
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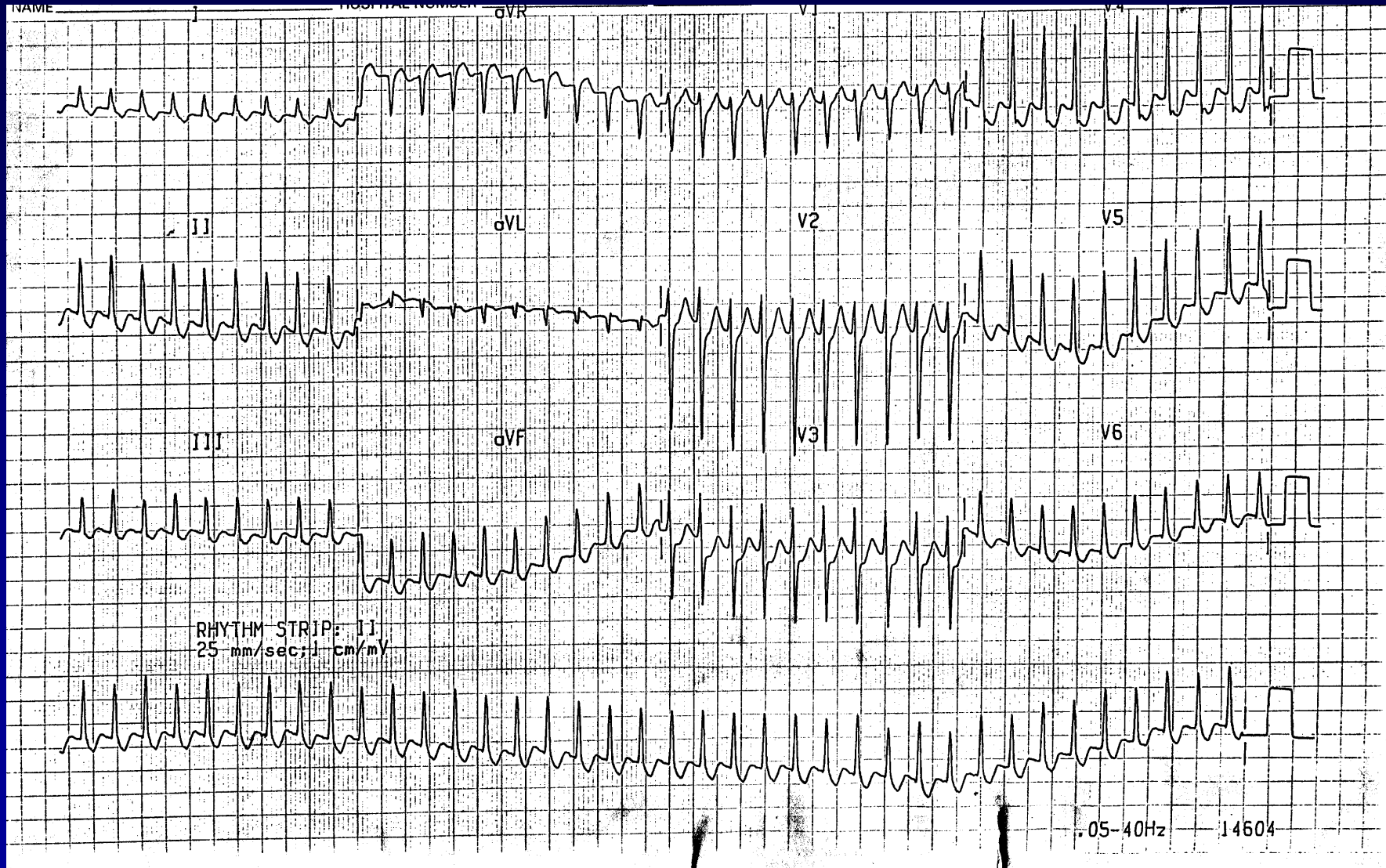
²Consultant Cardiologist/Electrophysiologist, Manchester Heart Centre, UK

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Normal Rhythm

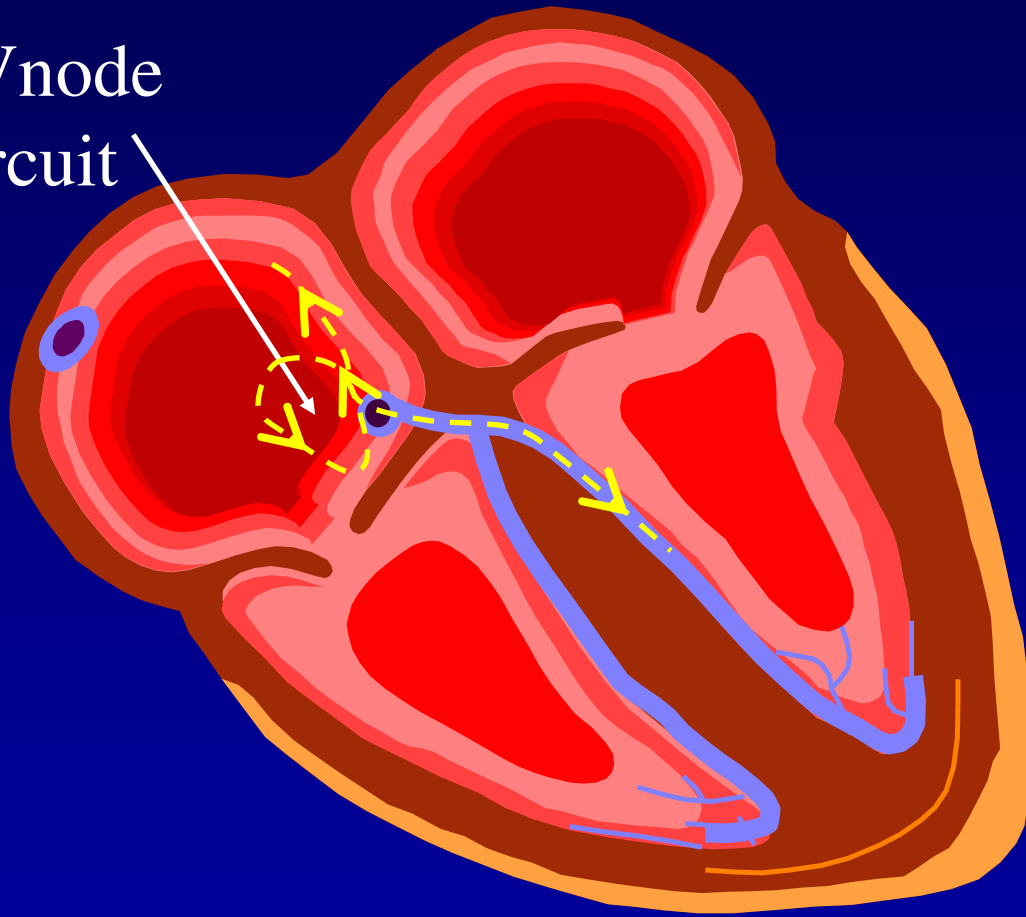


SVT



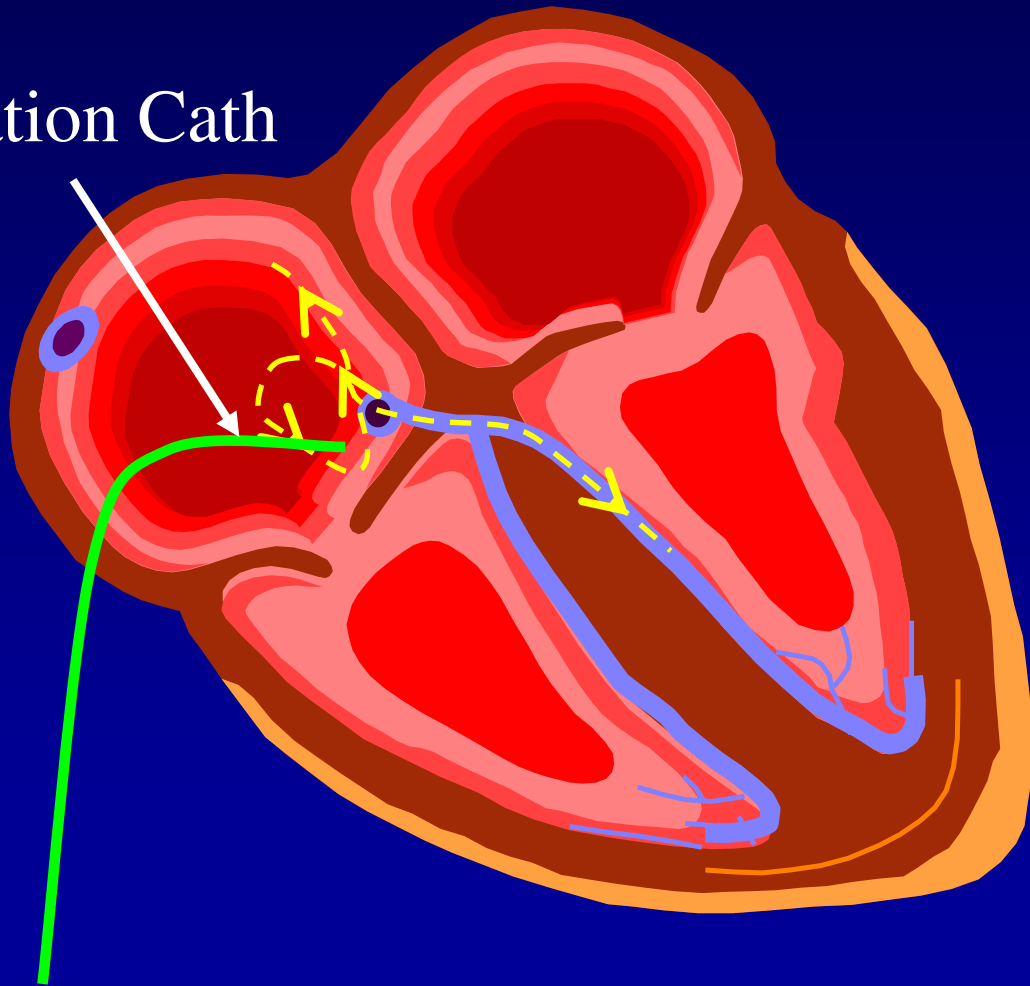
Typical Circuit for SVT (1)

AVnode
Circuit

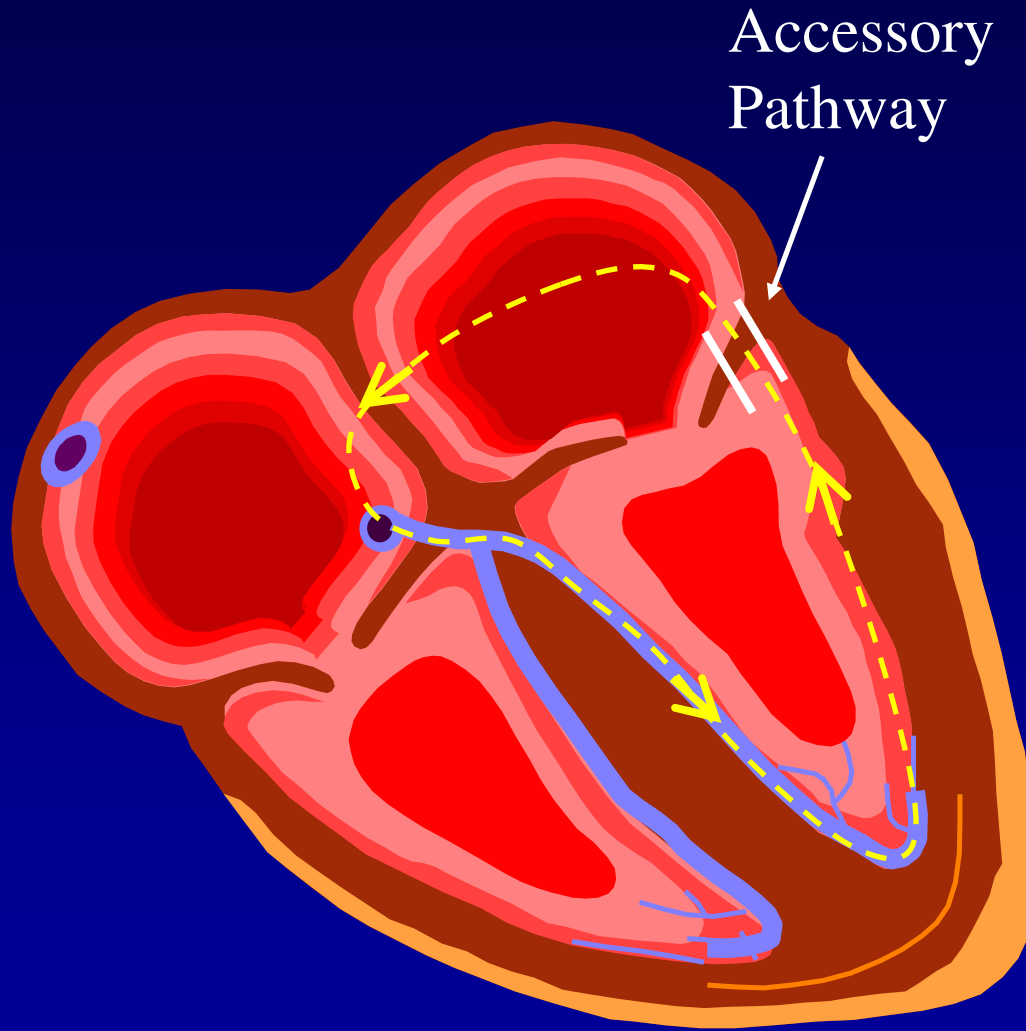


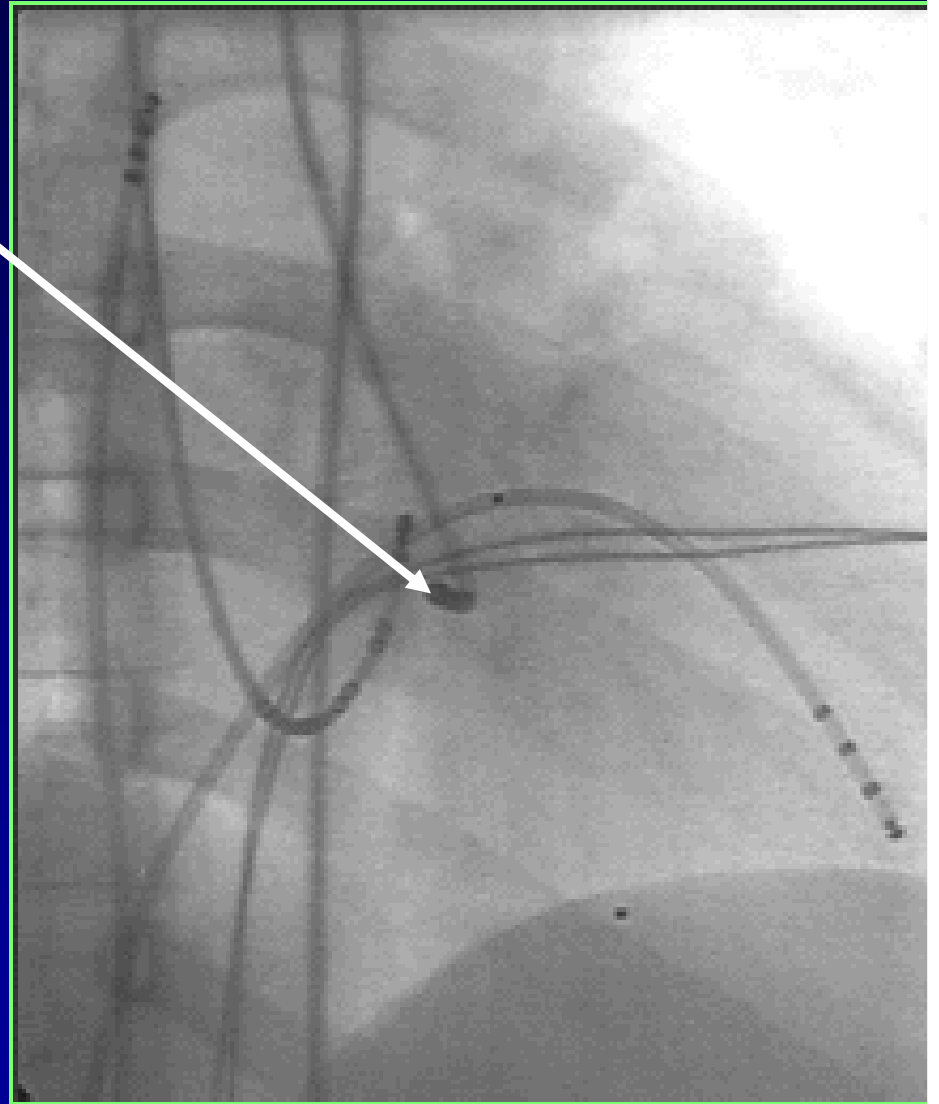
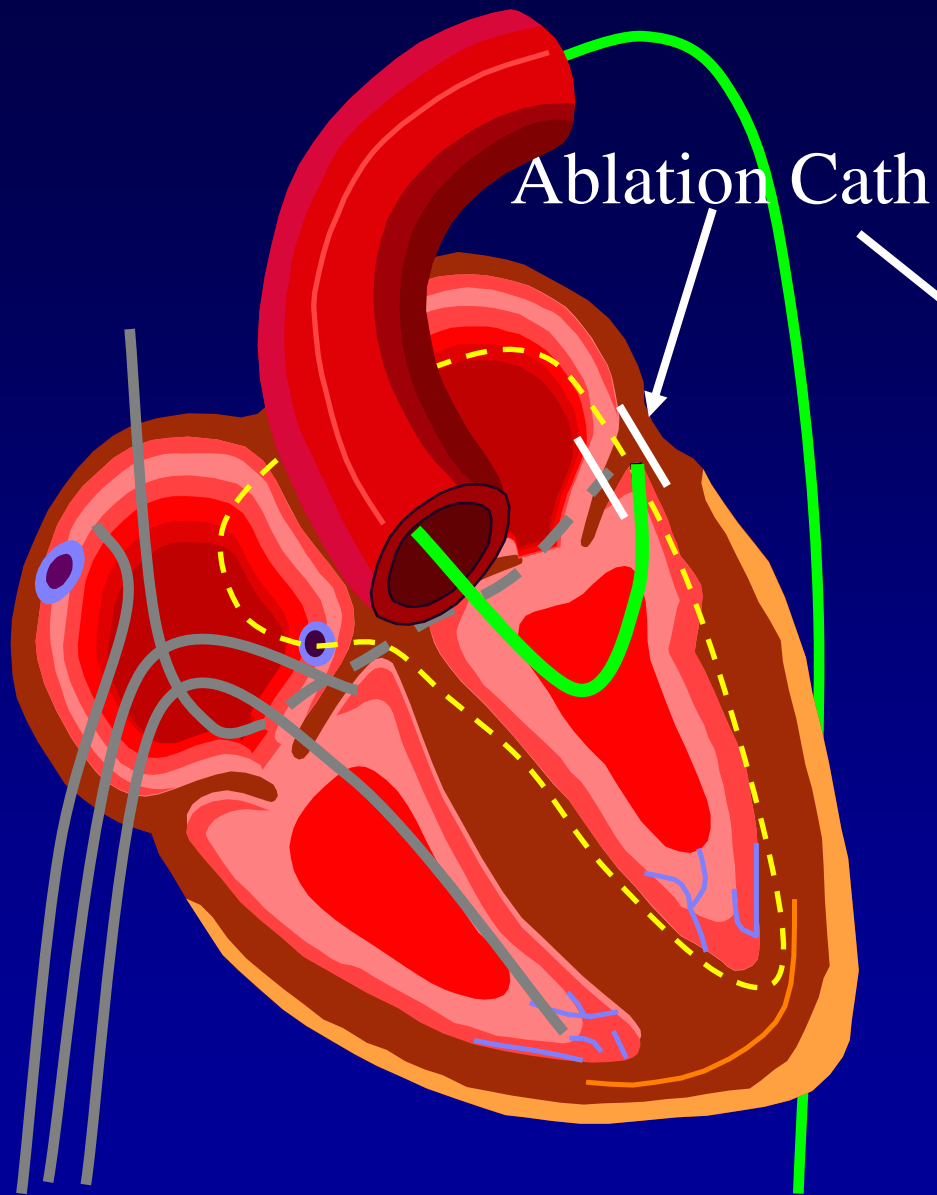
Ablation of AVnode circuit (AVNRT)

Ablation Cath

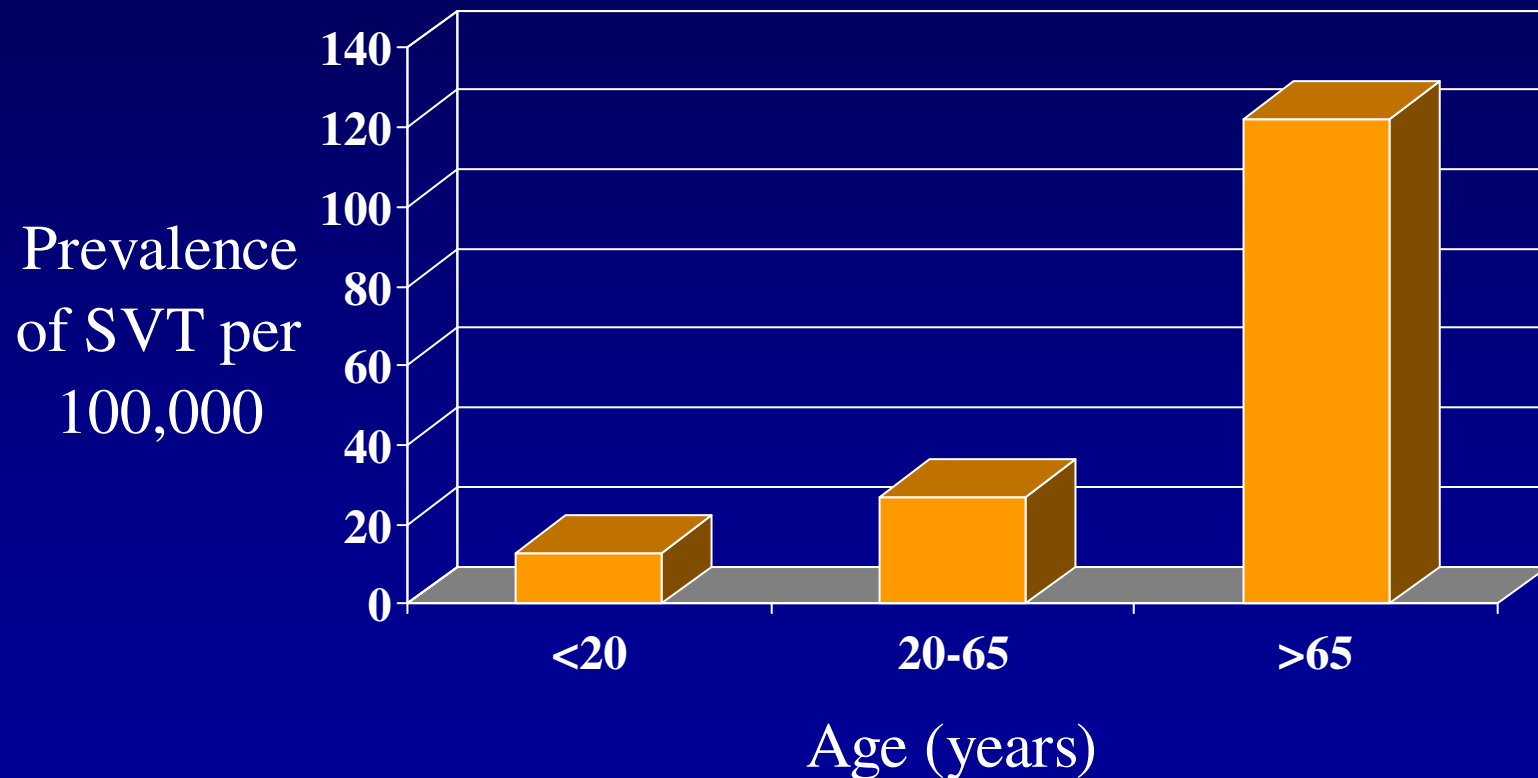


Typical Circuit for SVT





Supraventricular Tachycardia in the elderly

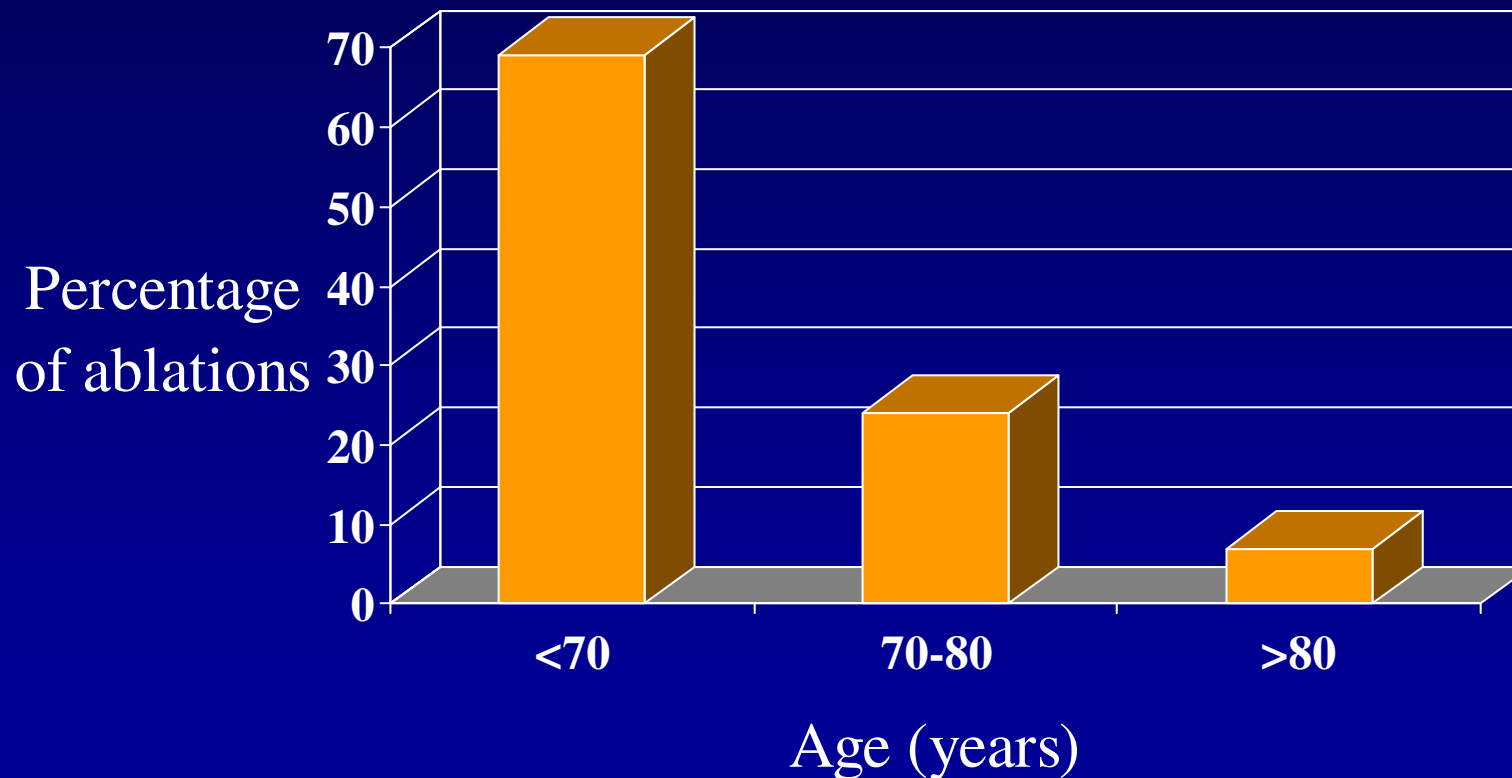


Orejarena LA et al JACC 1998;31:150-7

Supraventricular Tachycardia in the elderly

- Clinical Characteristics
 - Slower tachycardia **BUT**
 - More underlying heart disease
 - More blackouts or near blackouts
 - More hospitalisations

Ablation of Supraventricular Tachycardia



Ablation of SVT in elderly: Success Rates

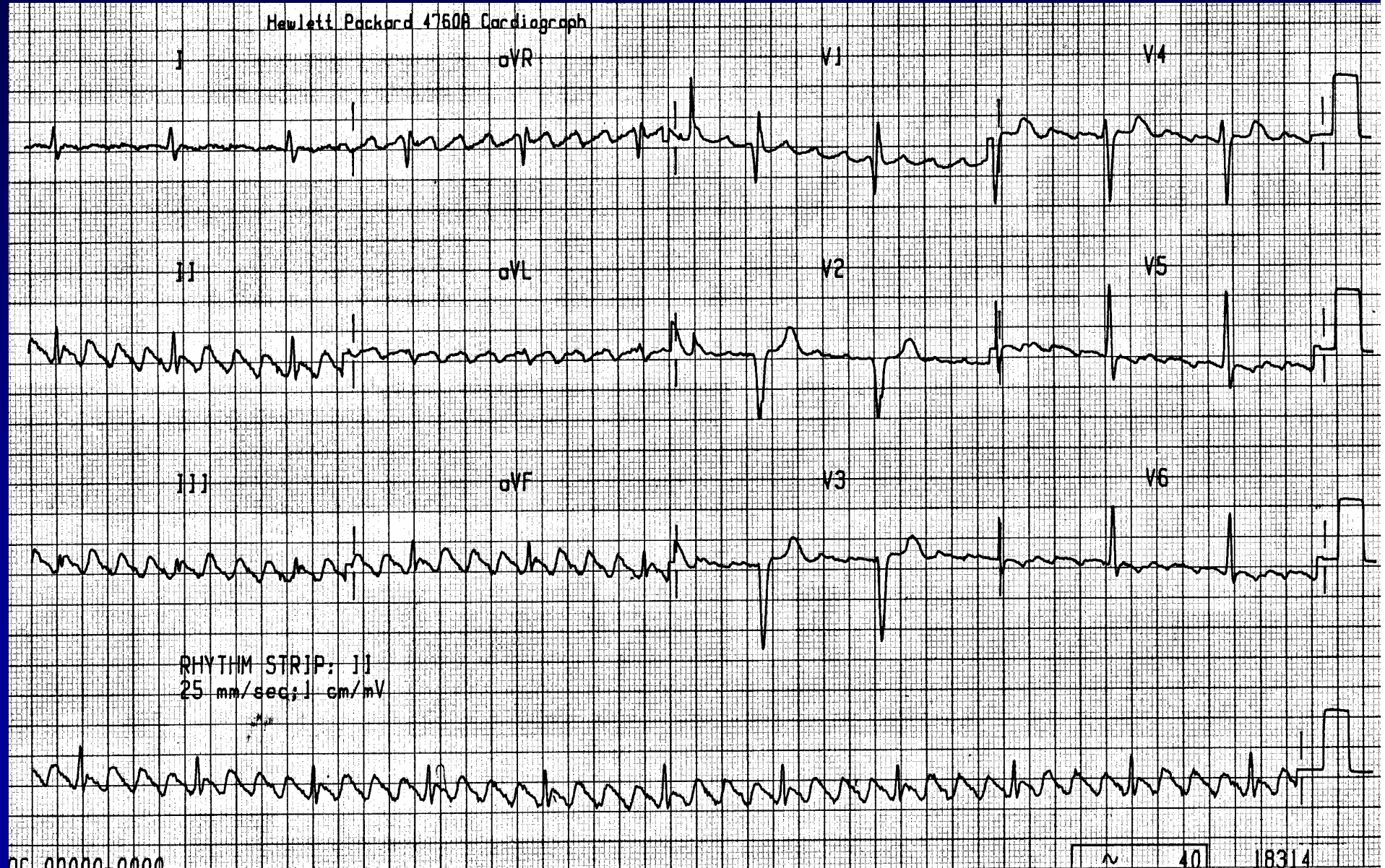
Study	Size (n)	<70yrs Success (%)	>70yrs Success (%)
Kalusche	404	98	95
Rostock	578		
Meiltz	350	99	100
Pedrrinazzi	605	92	88
Haghjoo	268		

Ablation of SVT in elderly

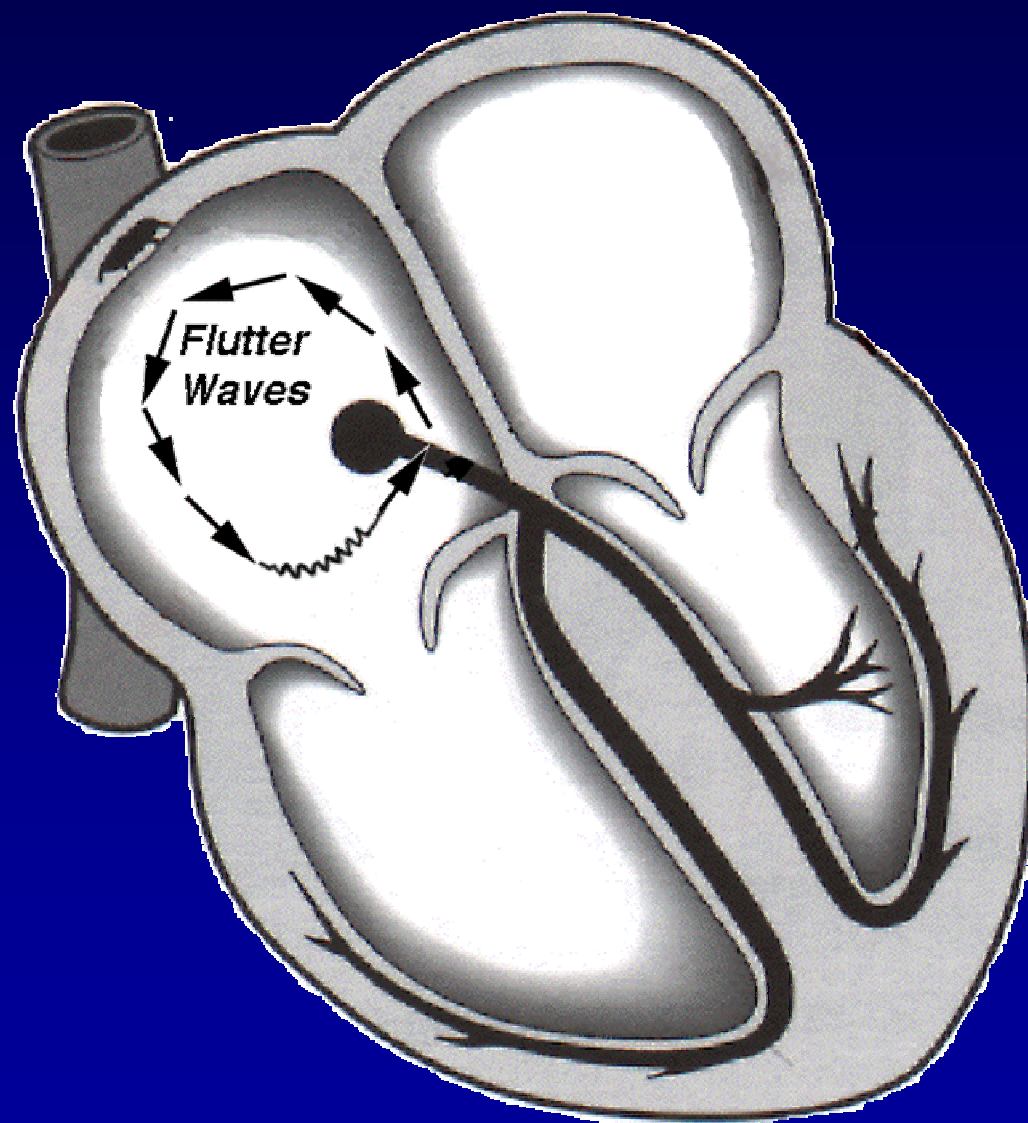
Major Complications

Study	Size (n)	<70yrs Complications (%)	>70yrs Complications (%)
Kalusche	404	1.6	2.3
Rostock	578	0.8	0
Meiltz	350	0.6	0
Pedrinazzi	605	1.2	1.5
Haghjoo	268	2.9	1.8

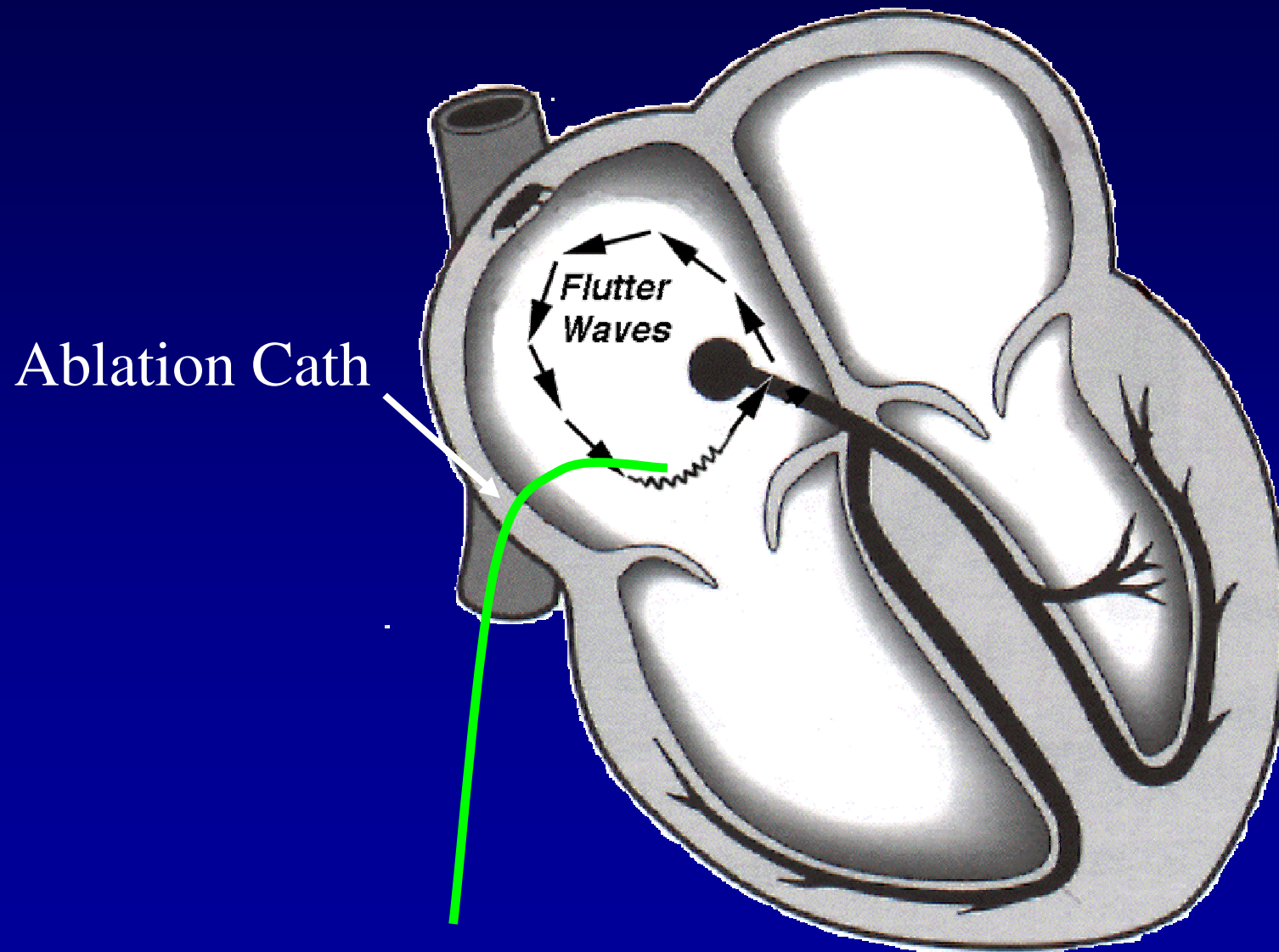
Atrial Flutter



Flutter Circuit



Flutter Ablation



Flutter ablation in Elderly

Da Costa A et al. PACE 2003; 26:1729–1734

Total 248 patients

- Success Rate
 - <70yrs
 - 96% success
 - >70yrs
 - 100% success
- Acute Complication
 - <70yrs : 0%
 - >70yrs : 0%
- Late AF rate
 - <70yrs : 20%
 - >70yrs : 29%

Caveats

- All studies so far
 - Retrospective
 - Observational
- Elderly group highly selected
- Elderly group too small

Conclusions

- Elderly
 - Higher incidence of SVT / Flutter
 - More Symptomatic
 - More underlying Heart Disease
 - Good results from ablation
 - BUT : rarely ablated!