

AF ablation outcomes for
Prof Schilling 2017

Background

- Procedure data including complications is collected by the hospital audit system independently of Prof Schilling
- Follow up data is collected by Prof Schilling with both outpatient clinic outcomes and telephone follow up
- Success is defined as a elimination of symptoms and no AF on patient ECG monitoring (Kardia or similar device) or 7 day ECG recording with the patient on no anti arrhythmic drugs
- Partial success is defined as significant improvement but still presence of symptoms or patient requiring previously ineffective drugs to suppress symptoms
- Failure is defined as no improvement in symptoms or AF on either 7 day ECG or other ECG with or without symptoms
- Data are audited so that there is at least a one year follow up to give really robust outcomes
- major complications are defined as anything that delays discharge home, causes unpleasant symptoms or needs some form of treatment or investigation
- Procedures are divided into paroxysmal AF which is expected to have better outcomes and persistent AF which is more complex to treat
- Persistent AF lasts for more than 7 days and/or needs a cardioversion. Paroxysmal AF stops without needing a cardioversion

Procedure data vs UK

	Procedure time (mins)	X-ray fluoroscopy time (mins)	X-ray dose (cGy)
Paroxysmal	54	.5	33
Persistent	98	.75	37
Total average	82	.6	36
UK Paroxysmal*	173	33	3500
UK Persistent*	220	35	5000

* Data published by another large UK centre

Outcome data

mean follow up 18 months

	patient numbers	procedure numbers	first time complete success (%)	complete success after repeat procedures (%)	overall success (partial and complete) (%)
Paroxysmal	31	33	90	94	97
Persistent	49	58	63	88	90
Total	80	91	74	90	93

* No comparator because no UK centre publishes their outcomes in this way

Outcome data vs UK

	stroke rate (%)	Pericardial bleeding/tamponade rate (%)	Death (%)	major complications and details
Paroxysmal	0	0	0	
Persistent	0	2.5	0	1 femoral pseudoaneurysm treated with compression
Total	0	0.65	0	
UK Paroxysmal*	0	1.3	0	
UK Persistent*	2 (TIA)	0	0	

* Data published by another large UK centre