

6 MONTHS PROSPECTIVE AUDIT OF IMPLANTABLE LOOP RECORDERS - WHAT DOES THIS TELL US ABOUT DIAGNOSTIC YIELD ?

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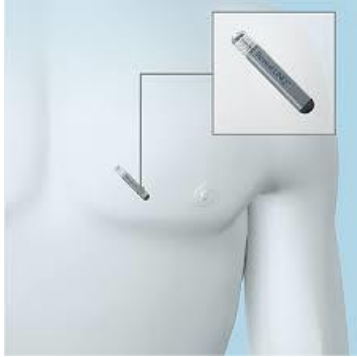
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Caring at its best



www.hearhythmcongress.org



Indications for ILR

- * TLOC is common
 - * Vasovagal 21.2%
 - * Cardiac syncope 9.4%
 - * 36.6% unknown causes
- * Patients at increased risk of cardiac arrhythmias
- * Patients who experience transient & infrequent symptoms such as Syncope that may suggest a cardiac arrhythmia (NICE 2010)
- * ESC guidelines (2018) give a class 1 recommendation for recurrent syncope
- * Cryptogenic stroke



Cardiac monitoring

- * Documentation is challenging
- * Ability to activate the monitor whilst having symptoms
- * External loop recorder 19%
- * Frequent external monitoring tests although less invasive can be costly
- * ILRs have 55% diagnostic yield & cost effective



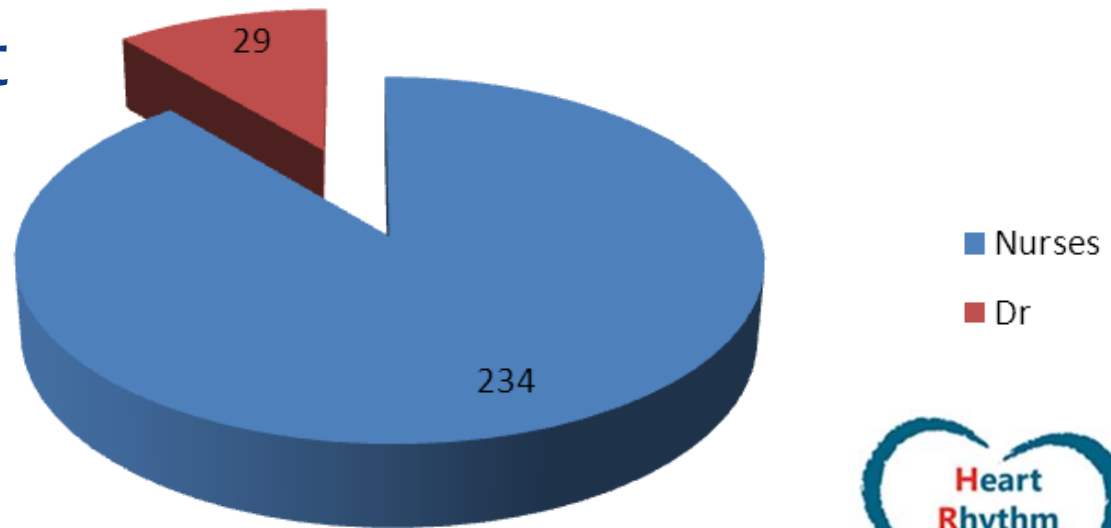
Diagnostic Yield

- * PICTURE Registry (2011)
 - * Prospective, multicentre registry for unexplained syncope 2006-09
- * Only 50% ILRs had automatic recordings
- * Home monitoring not available
- * 78% of patients ILR guided diagnosis
- * Time to diagnosis
 - * 9% 1 month
 - * 20% 6 months



UHL ILR Service

- * Dedicated ILR service
- * Nurse led service
- * Established end May 2017
- * Implant no.s to date
- * Prospective audit

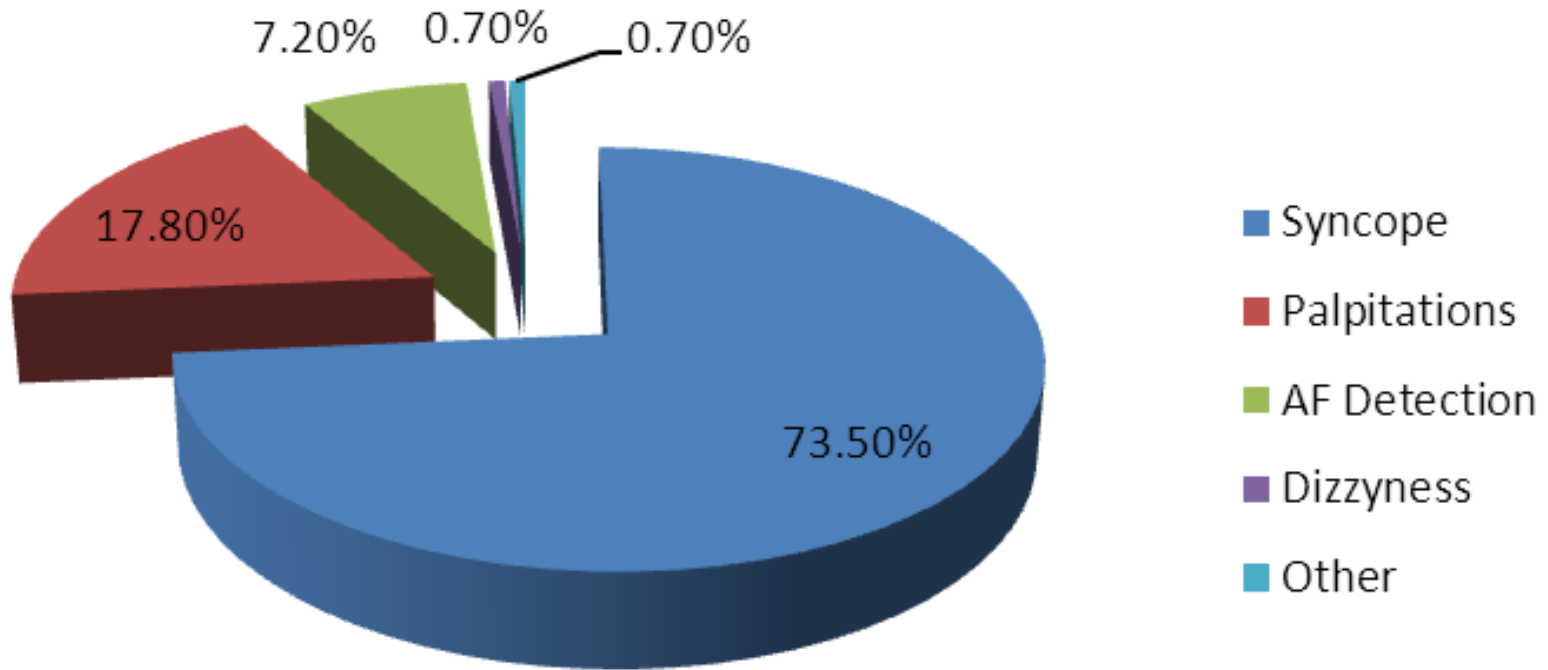


Audit Objectives

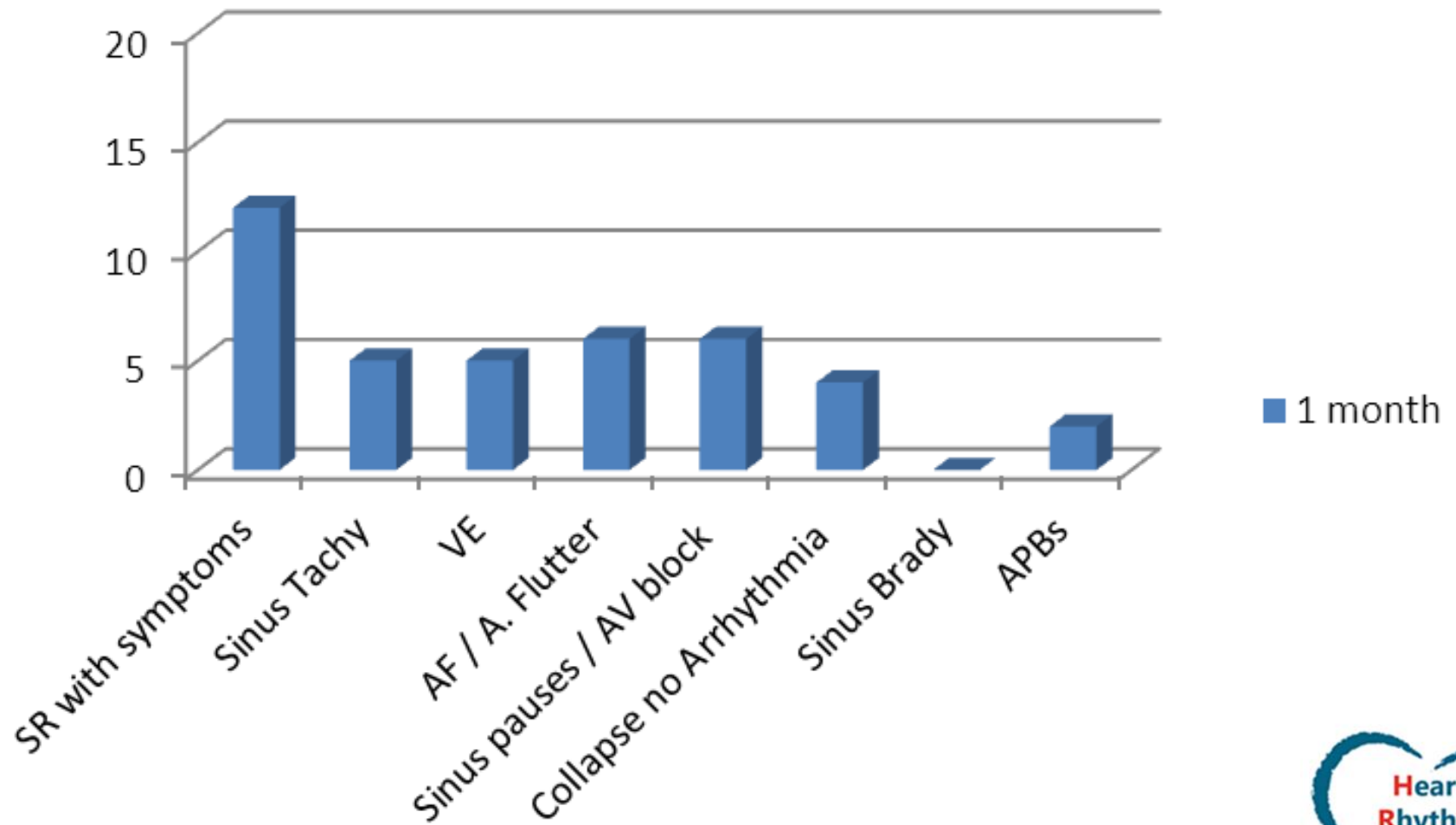
- * Maintain & Improve complication rates
- * Review the indications of ILR
- * Review diagnostic information at:
 - * 1, 3, 6 & 12 months
- * 106 patients with 6 month follow up data
- * Automatic recording and Home monitoring



UHL Implant indications

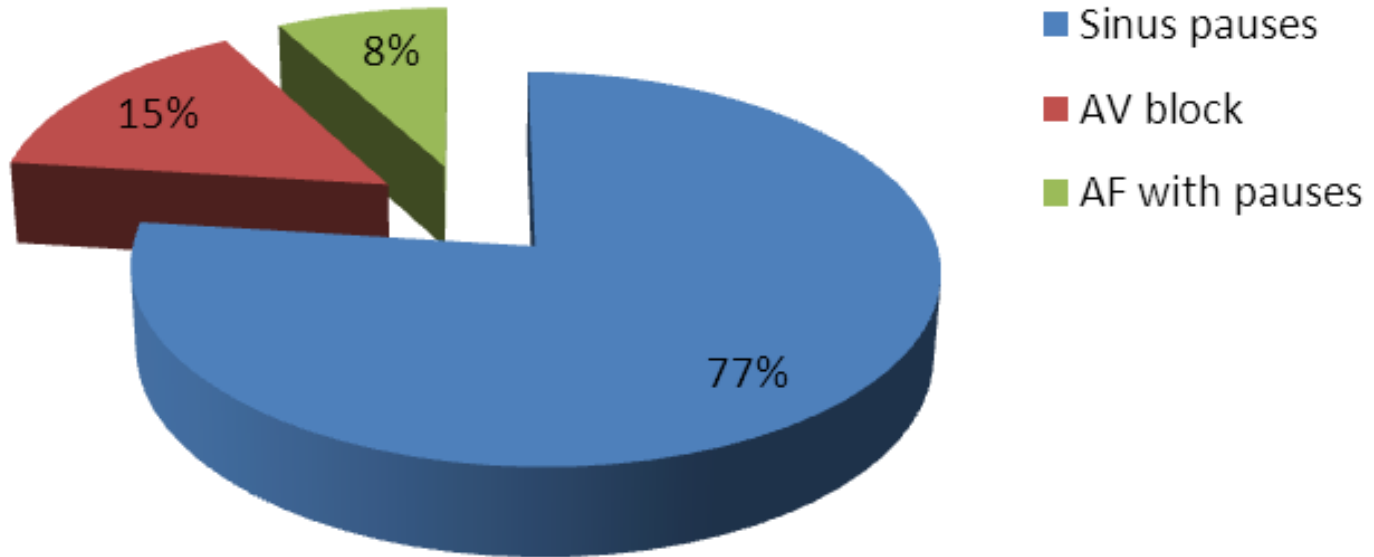


1st month Diagnostic Information

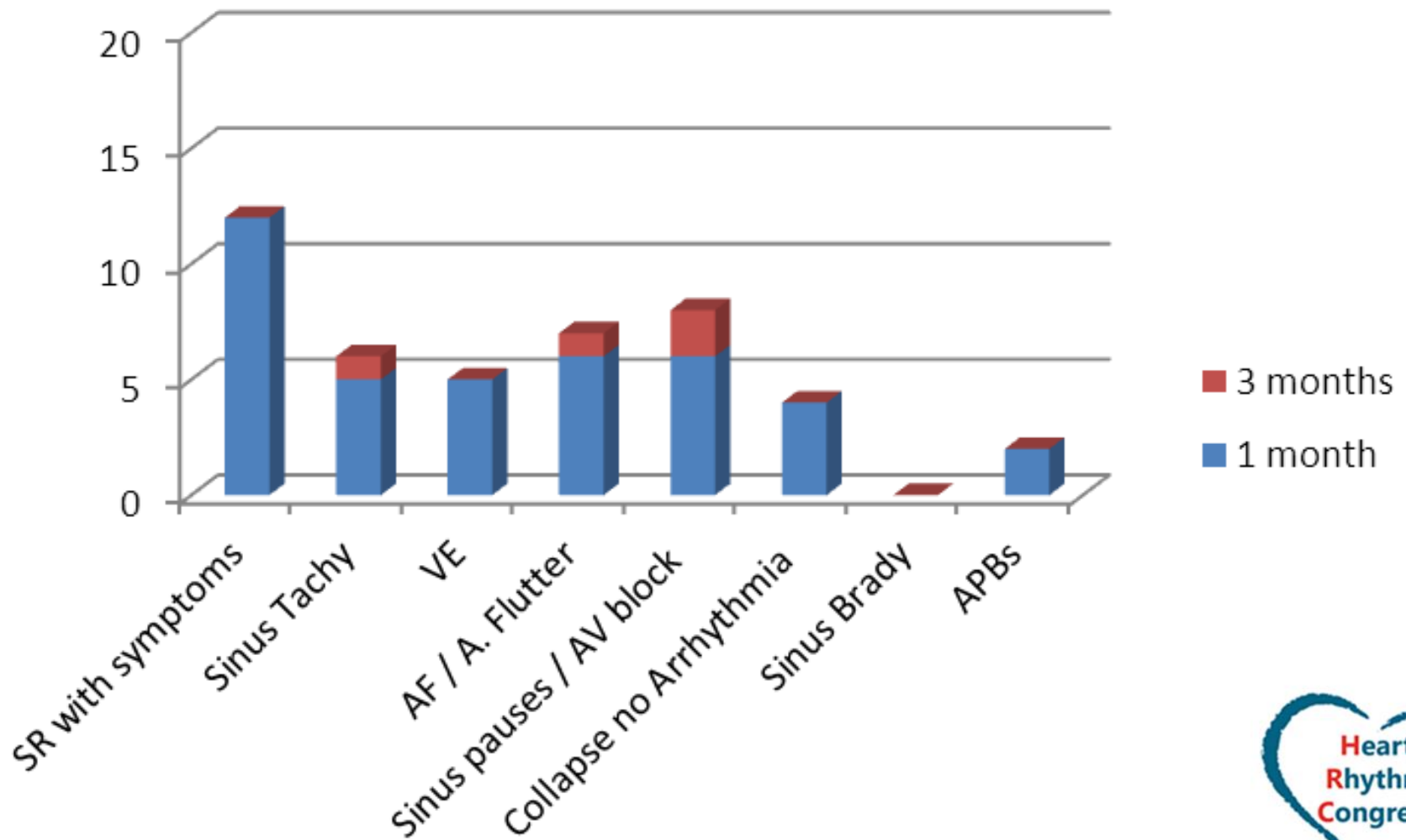


1st month results

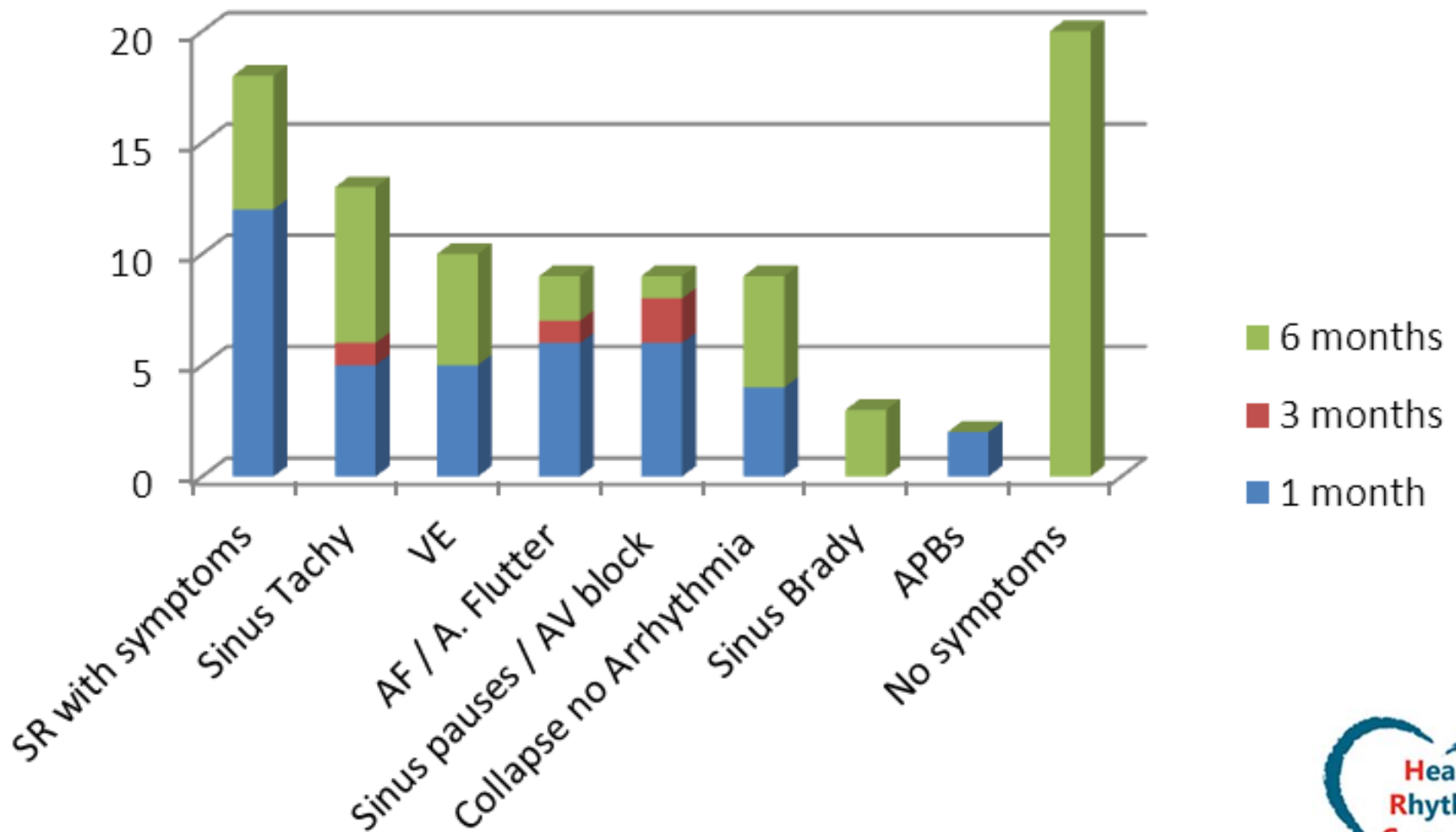
- * 38% of patients presented with symptoms
- * 5.8% had pacing indications



3rd month Diagnostic Information

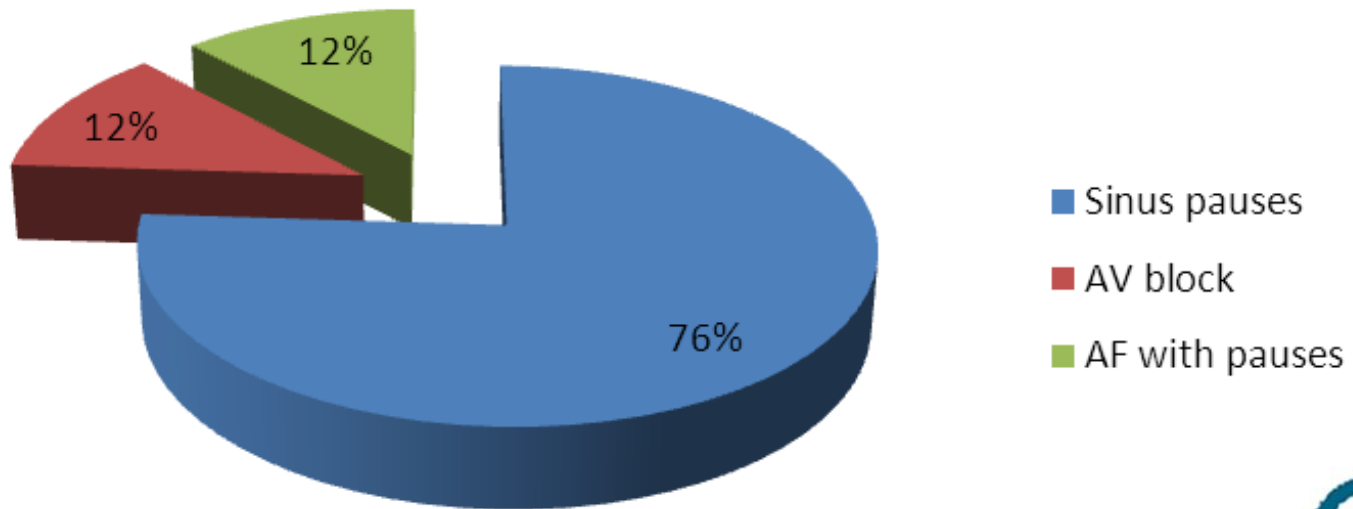


6th month Diagnostic Information

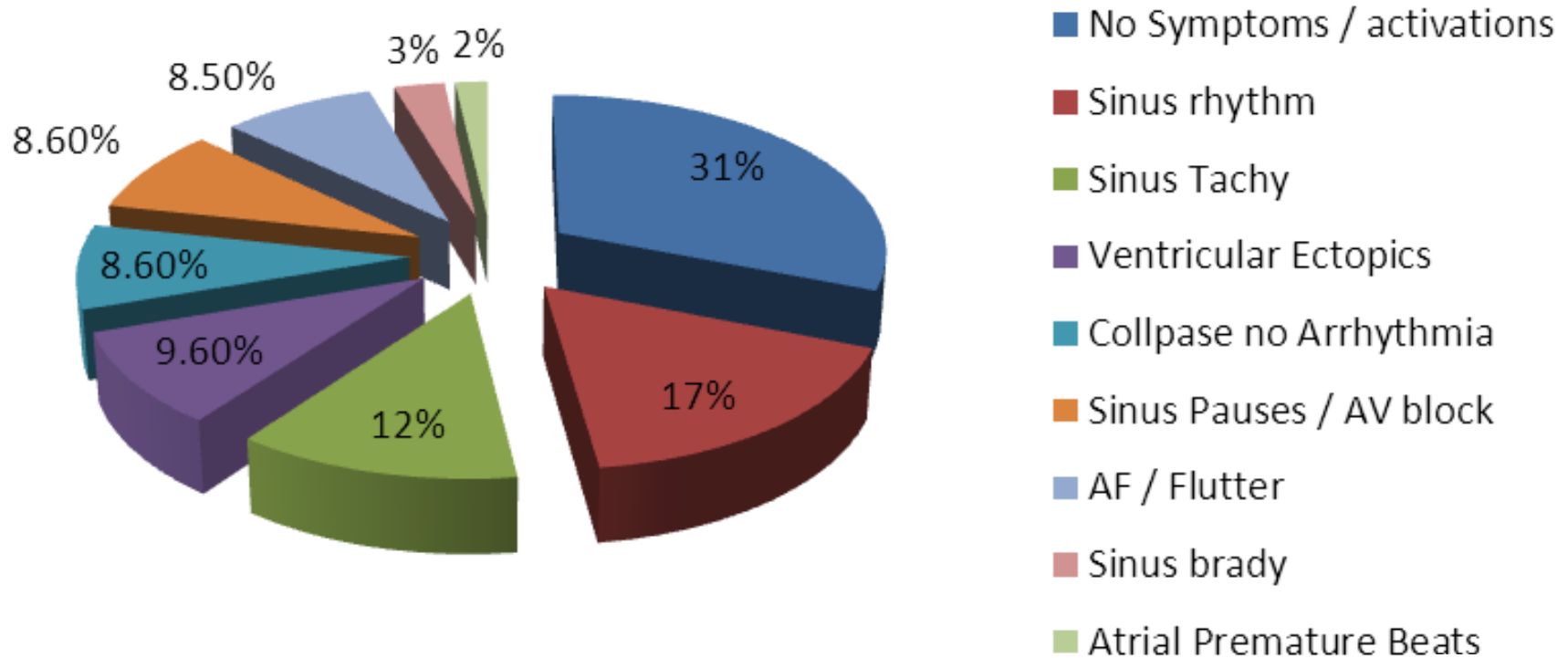


6 month results

- * 69% of patients presented with symptoms
- * 31 % had no symptoms since the implant
- * 8.6% had pacing indications



6 months results cont..



Conclusion

- * ILR have a high diagnostic yield compared to external systems
 - * Automatic recordings
 - * Home monitoring
- * 38% of patients presented with symptoms in the first month
- * 59% presented within 6 months
- * Consistent with previous studies

