원인불명 색전뇌졸중에서 이식형 사건기록기의 역할



임 우 현

서울의대 순환기내과

Implantable loop recorder in ESUS

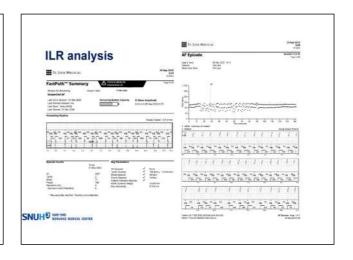
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CASE

- F/79
- HT, dyslipidemia
- . 3YA, Lt. PICA infarction, mech: cryptogenic, med: ASA
- 2020.3 Rt. Side weakness d/t Lt. MCA infarction
 - s/p tPA → DAPT
 - mech: r/o CE
- · Holter: SR, rare VPBs, occasional SVPBs with short run ATs
- ILR insertion before discharge

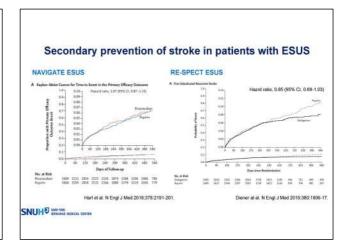
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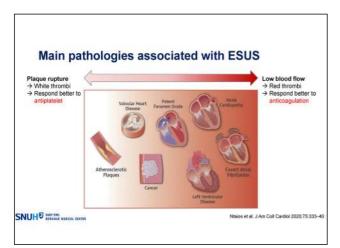


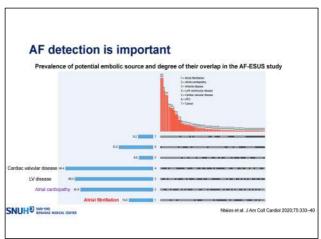
Embolic Stroke of Undetermined Source (ESUS)

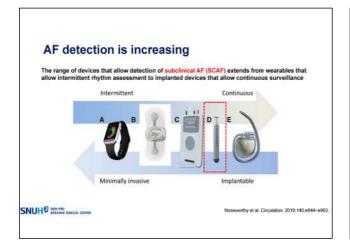
- · ESUS represent approximately 20% of ischemic strokes
- Annual recurrence rate of stroke is 4~5%
- Atrial fibrillation (AF) is detected in 15~30% of ESUS patients during long-term follow-up
 - Recently, detection of subclinical AF is more increasing by cardiac implanted electronic devices (CIEDs) and wearable devices



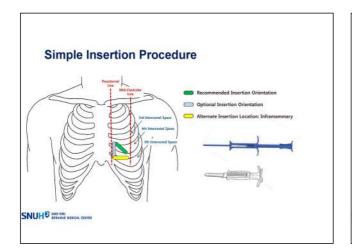


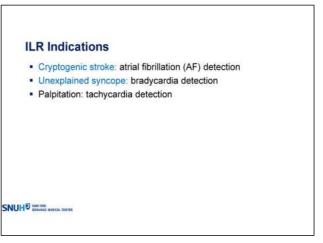


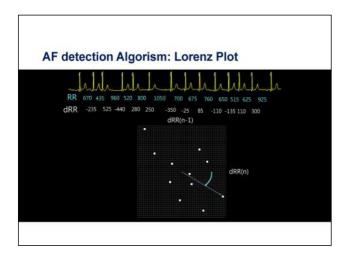


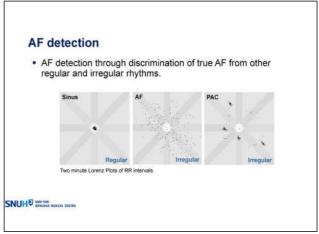


What is ILR (Implantable Loop Recorder)? ICM (intracardiac monitoring) One-third the size of a AAA battery Up to a 3-year longevity for long-term monitoring MR Conditional Minimally invasive, simplified insertion procedure





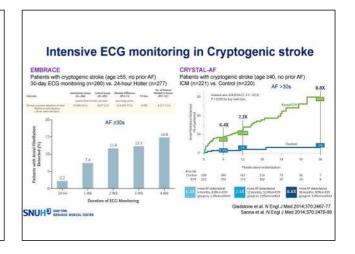


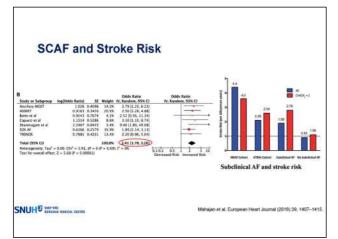


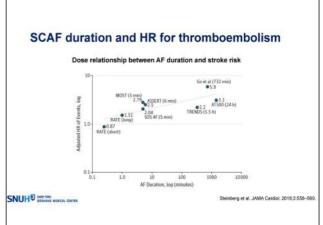
Definitions of Arrhythmic Events SCAF (Subclinical AF): asymptomatic episodes or confirmed by intracardiac electrograms and not pre-

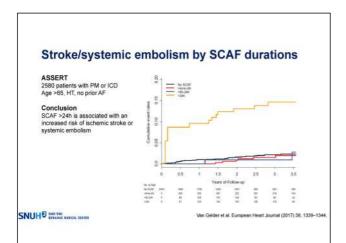
- SCAF (Subclinical AF): asymptomatic episodes of AF detected and confirmed by intracardiac electrograms and not previously detected by ECG or ambulatory monitoring
- SCAT (Subclinical atrial tachyarrhythmias): asymptomatic episodes of AF, AFL, or AT detected and confirmed by intracardiac electrograms and not previously detected by ECG or ambulatory monitoring
- AHRE (Atrial high-rate episodes): device-detected atrial events, usually tachyarrhythmias, meeting programmed or other specified atrial high-rate criteria (usually ranging between 175 and 220 bpm)

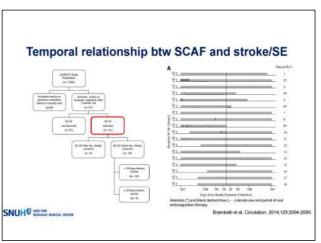
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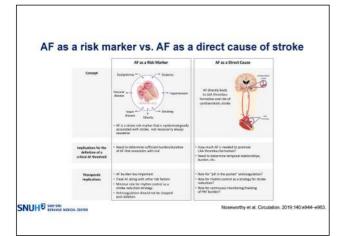


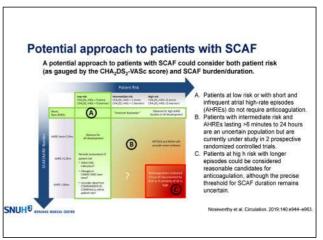












Summary

- ESUS represent approximately 20% of ischemic strokes and AF is detected in 15~30% of ESUS patients during long-term follow-up.
- Discovery of SCAF with CIEDs (e.g. ILR) and wearable monitors is common, especially in populations known to have an increased risk of stroke (or recurrent stroke).
- · SCAF detection SCAF provides an opportunity to reduce the risk of embolic stroke, but number of factors should be considered before longterm anticoagulation
 - The accuracy of SCAF detection should be confirmed by a review of electrograms to exclude false positives

 - The longest continuous episode and highest daily burden should be quantified because stroke risk increases with the duration/burden of SCAF.
 Clinicians should assess the traditional stroke risk factors (age, DM, HT, and HF...)

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