

Discussant-ECOST

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	Speaker	Consultant	Trial committees
Medical devices			
EBR		+	+
Impulse Dynamics		+	
Medtronic	+	+	+
St Jude Medical	+	+	+
Sorin group	+	+	
Drug companies			
Boehringer-Ingelheim		+	
Novartis	+		
Pierre Fabre		+	+
Pfizer	+		
Sanofi-aventis	+	+	



Remote Monitoring of ICD Patients

Current clinical evidence from large scale RCT's: based on surrogate endpoints

- TRUST (N=1339 pts)

Number of total in-office device evaluations

Reduction by 45% without affecting safety

Median time to evaluation: <2 vs 36d (P=0.002)

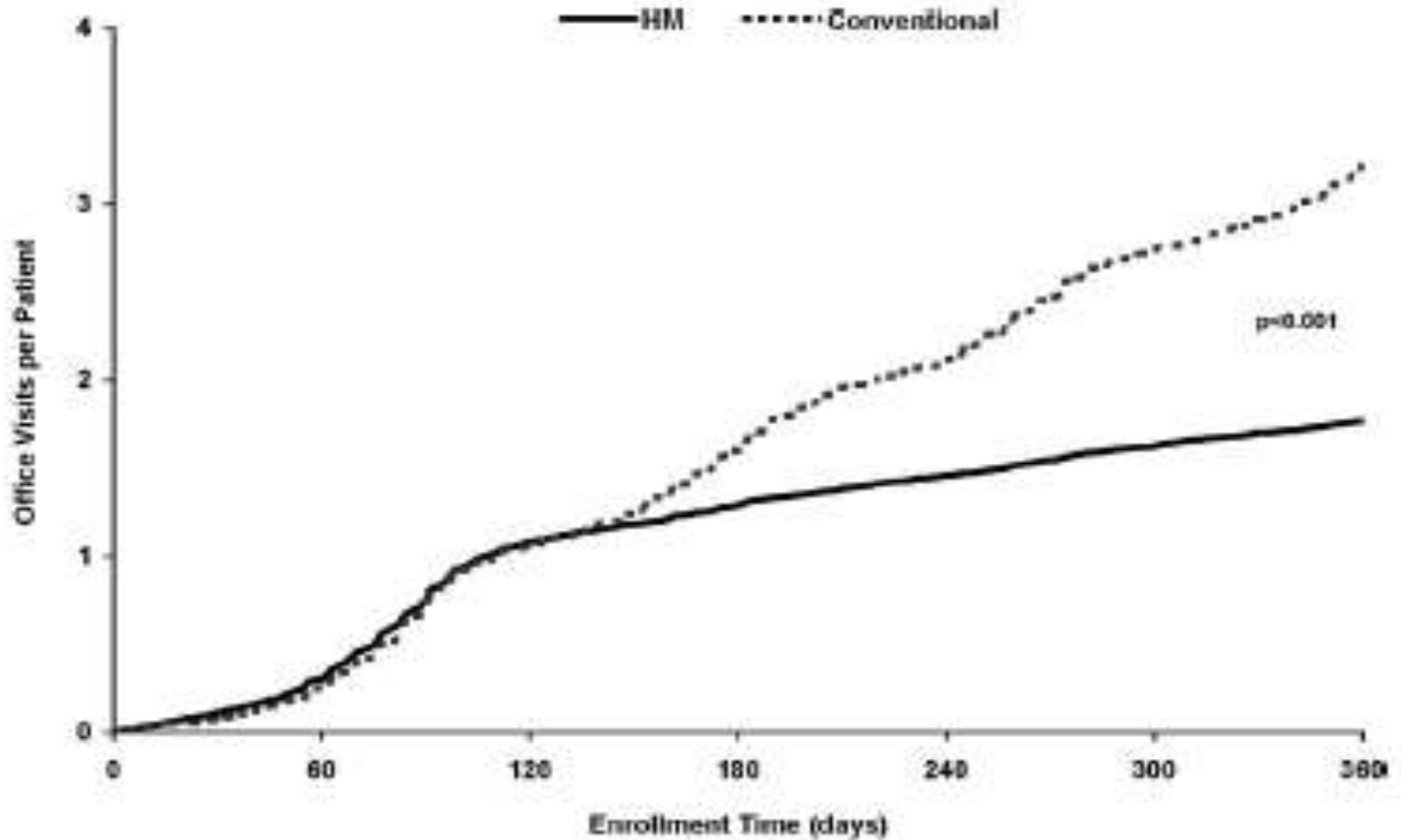
- CONNECT (N=1997 pts)

Time from clinical event to clinical decision.

Reduced from 22d to 4.6 d (P<0.001)

Length of CV hospital stay: 3.3d vs 4.0d (P=0.002)

TRUST Trial: Primary Objective



ECOST and EVATEL

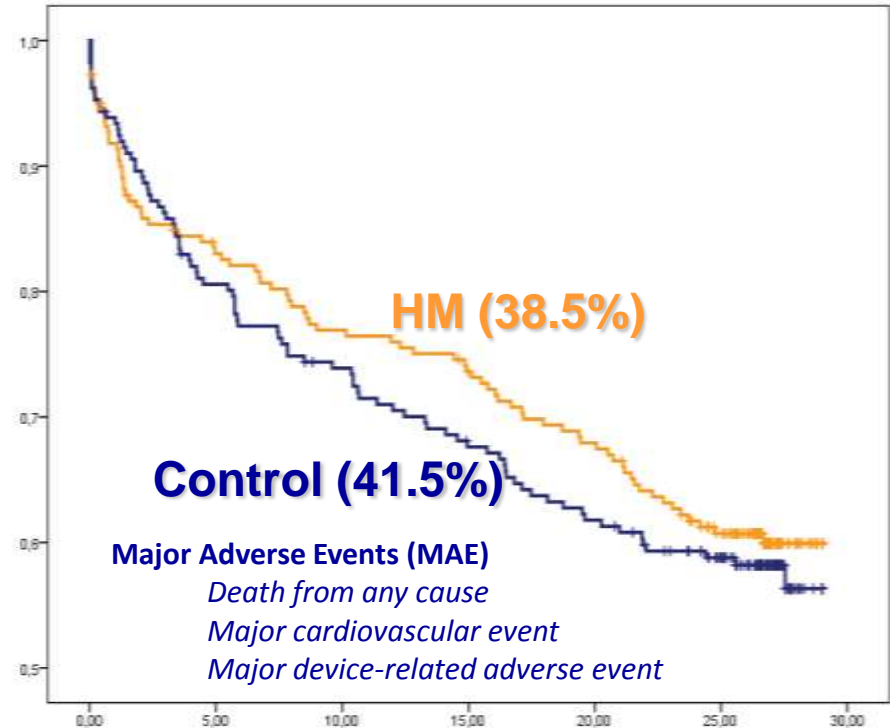
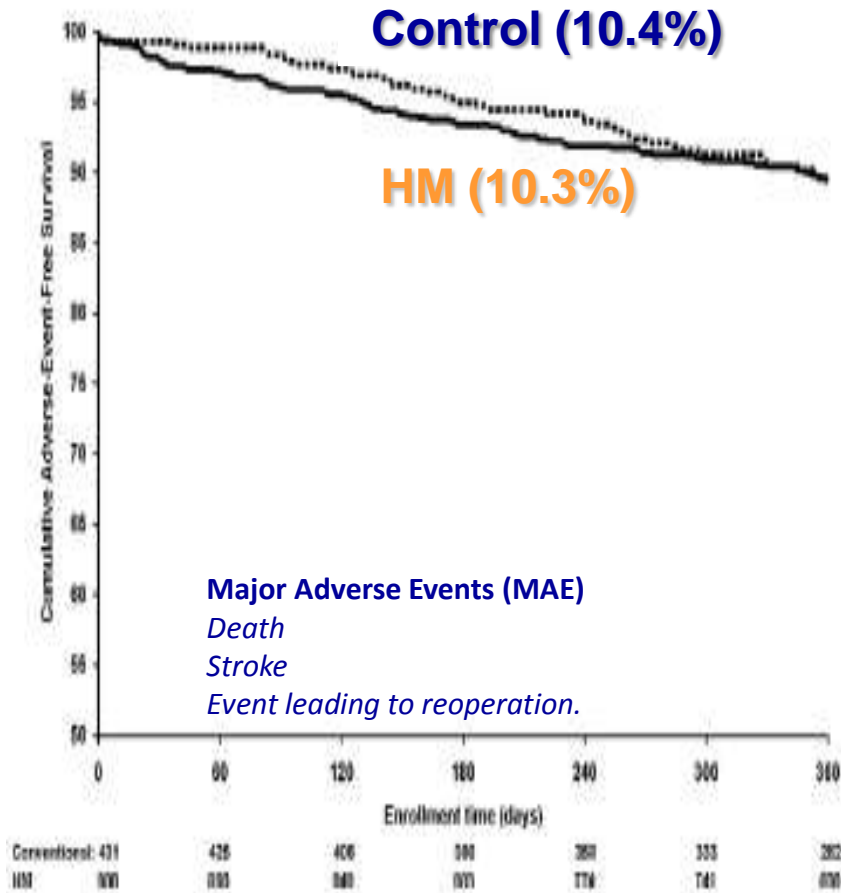
First randomised trials with robust clinical EP

- Nearly similar design, inclusion criteria and endpoints
- But, different objective:
 - Safety (MAE) > Efficiency in ECOST
 - Safety and efficiency (MCE) in EVATEL

Clinical safety of Home Monitoring

TRUST: Secondary endpoint

ECOST: Primary endpoint



Hypothesis of non-inferiority validated in ECOST

ECOST and EVATEL

Global results

- **ECOST**: Home monitoring non-inferior to Standard care (In-clinic visits)
- **EVATEL**: Non-inferiority non validated;
No significant difference between Telemonitoring and Standard care

ECOST and EVATEL

Differences between studies?

	ECOST	EVATEL
Sponsor	Industry	Institutional/Gov.
Nb systems tested	1 (HM)	All available
Nb patients	433	1501
F/u duration (mo)	Mean=27	12
Baseline characteristics		
Secondary prevention	47%	35%
1-st implant	85%	100%

ECOST and EVATEL

Concordent results:

As compared with Standard care

- Remote monitoring of ICD patients is clinically safe
- No clear evidence that RM can contribute to prevent major CV events (even if favorable trend in ECOST)
- Clear evidence that RM reduces the risk and number of inappropriate therapies: RRR=37-52%
- Significant reduction on charged shocks and total shocks with HM: possible impact on device longevity (ECOST)
- RM cost-effective? No clear response at that time