

OPTIMIZED ICD PROGRAMMING TO REDUCE INADEQUATE SHOCKS RESULTS OF THE REDUCEIT STUDY*

Design

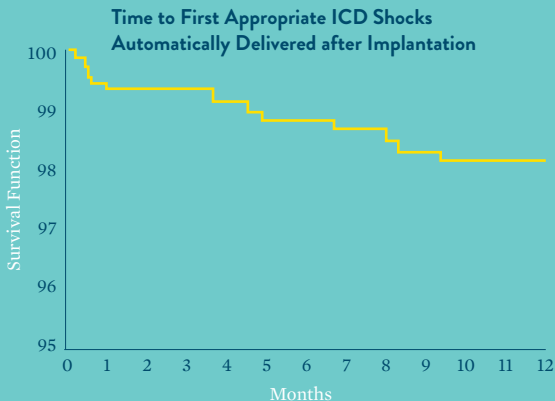
The ReduceIT study prospectively examined the performance of the SVT discriminators of Abbott ICDs in 733 patients. The programmed predefined parameters used in the study were different for primary and secondary prophylactic patients. The observation period was 11 ± 3 months.

Endpoint

The endpoint was the proportion of patients without appropriate shock.

Results

- 2071 HV episodes were collected in the observation period
- 12 (1,6%) received inadequate shocks (95% CI: 97.2%–99.2%, $p < 0.0001$)
- 12 (1,6%) of the patients showed VT below the VT-detection cutoff
- 1 (0,1%) patient had an incorrect SVT diagnosis



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Detection Type	Parameter	Primary Prevention	Secondary Prevention [#]
All Devices	Zone Configuration	2 Zones	3 Zones
	- VF Zone	240 min ⁻¹ /16 Intervals	240 min ⁻¹ /16 Intervals
	- VT2 Zone	187 min ⁻¹ /30 Intervals	187 min ⁻¹ /30 Intervals
	- VT1 Zone	–	171 min ⁻¹ /40 Intervals
	SecureSense™ RV Lead Noise Discrimination Algorithm		On
	SVT Discrimination Timeout		Off
	Tachy Therapy Timeout		Off
	Morphology		On
	- Type	Far Field MD™ Morphology Discrimination	
	- Settings	90%; 3 of 10	
Single Chamber Detection Devices (incl. any ICD/CRT-D without Atrial Lead)	Onset		On
	- Type		Sudden Onset
	- Settings		20% (adaptive)
	Stability		On with SIH
	- Settings	40 ms (12 Intervals) with SIH (2)	
Dual Chamber Detection Devices (with Atrial Leads)	Logic (diagnose VT ...)		If 2 of 3
	Onset		On
	- Type		Chamber Onset
	Stability		On with AVA
	- Settings	40 ms (12 intervals) with AVA (60 ms)	
	Logic (diagnose VT ...)		If all

blue = parameter different from standard parameter

*P1797 – Geller JC, Wöhrle A, Busch M, Elsässer A, Kleemann T, Veltmann CG. Reduction of inappropriate shocks of ICDs with enhanced SVT discriminators. First results from the ReduceIT study. *Clin Res Cardiol*. Apr 2017;106(Suppl 1). In press.

[#]The clinically documented VT cycle length and, if appropriate, an initiated antiarrhythmic medication, which could extend the cycle length of a VT, should be taken into account during programming.

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Brief Summary: Prior to using these devices, please review the Instructions for Use for a complete listing of indications, contraindications, warnings, precautions, potential adverse events and directions for use.

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