

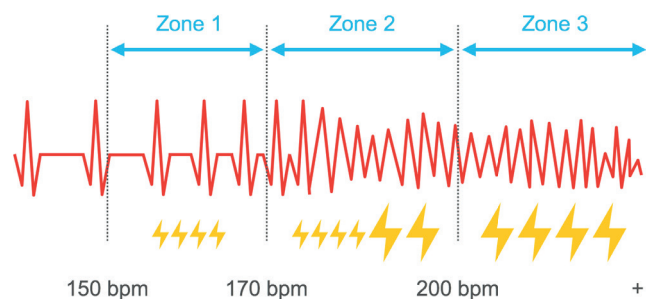
DETECTING ARRHYTHMIAS

Heart rate criteria—zones

Key take-away points

- ICDs use heart rate criteria to recognize ventricular tachycardia (VT) and ventricular fibrillation (VF).
- Once a heart rate exceeds a programmable threshold, therapy is considered.
- Heart rate zones enable us to offer different therapy protocols for different dangerous arrhythmias.

Rhythm	Onset	Ventricular rate	QRS morphology	AV association	Regular R-to-R
Sinus tachycardia		>100 bpm		$A_s = V_s$	
Atrial fibrillation		~ 30–200 bpm		$A_s > V_s$	
Ventricular tachycardia		~ 170 bpm +		$A_s < V_s$	
Ventricular fibrillation		Up to ~ 500 bpm		$A_s < V_s$	



Notes