**A PACEMAKER WITH ANTI-TACHYCARDIA PACING FOR PRIMARY PREVENTION OF SUDDEN ARRHYTHMIC DEATH: RECONCEPTUALIZING DEVICE THREAPY IN THE AGE OF THE INTERNET OF THINGS**

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A reconceptualized highly networked pacemaker with anti-tachycardia pacing (hnP-ATP) capabilities to address sudden arrhythmic death is inevitable. As a stand alone device, relying on pacing therapy alone as primary therapy, such a device would provide effective treatment for the majority of expected life threatening arrhythmias at a substantially diminished cost with expected lower patient toxicities.

The consequences of removing the “shock” from a traditional transvenous implantable cardioverter defibrillator (TV-ICD) can be addressed by appropriate patient selection, further optimizing ATP therapy, using predictive algorithms, and most importantly utilizing a networked crowd sourced rescue system to replace the shock feature. Geo-location communication enhancements to the existing infrastructure can be implemented leveraging the broader network of networks and the emerging “Internet-of-Things” (IoT). This new device (hnP-ATP) would allow a better tailored, more nuanced approach making more affordable device therapy available to more individuals at risk for sudden arrhythmic death and ultimately, save more lives.