Supplemental Digital Content 1.

Table 1. Settings that changed with restoration of demand pacing.

Device Setting	Device Type	Device Manufacturer and Model
Automatic capture threshold testing did not restore	PM	BSCI Altrua, SJ Accent, SJ Affinity, SJ Identity, SJ Zephyr
	ICD	SJ Fortify, SJ Quadra Assura, SJ Unify
Confirmation of pacing capture did not restore	PM	SJ Accent
	ICD	SJ Fortify, SJ Quadra Assura, SJ Unify
Lead sensitivities	PM	BSCI Altrua, BSCI Insignia I Ultra, Med Sensia
Maximum tracking and/or sensing rate	PM	BSCI Altrua, SJ Integrity, BSCI Insignia I Ultra
Dynamic AV delays	ICD	BSCI Insignia I Entra, BSCI Insignia I Ultra
Fixed AV delays	PM	BSCI Altrua, BSCI Insignia I Ultra, Med Adapta
Sensed AV offset	PM	BSCI Altrua, BSCI Insignia I Ultra
Max and Min PVARP values	PM	BSCI Altrua, BSCI Insignia I Ultra
	ICD	BSCI Energen
Dynamic PVARP activated	PM	BSCI Altrua
Pacing rate on mode switch	PM	SJ Zephyr, SJ Integrity, SJ Accent
Search AV+ (becomes reactivated)	PM	Med Adapta, Med Sensia, Med Versa

Rate hysteresis	PM	BSCI Insignia I Ultra, SJ Identity
Atrial High Rate response (fails to return to mode switch)	PM	Med Sensia
Ventricular refractory time	PM	SJ Identity
Accelerometer (rate response feature) settings	PM	BSCI Altrua, BSCI Insignia I Ultra
Atrial Flutter Response turned off	PM	BSCI Altrua
Premature Ventricular Contraction options	PM	SJ Victory
Pacemaker Mediated Tachycardia options	PM	SJ Accent, SJ Identity, SJ Integrity
AV Search Hysteresis	PM	BSCI Insignia I Ultra
Atrial Tachycardia Response Duration	PM	BSCI Altrua, BSCI Insignia I Ultra
Autointrinsic Conduction Search	PM	SJ Integrity
Ventricular Rate Regulation	PM	BSCI Altrua, BSCI Insignia I Ultra
Alert/Episode triggers	PM	SJ Accent
Pacing mode on mode switch activation	PM	BSCI Altrua, BSCI Insignia, Med Adapta, Med Kappa I Ultra, SJ Victory, SJ Identity
Loss of communication with device after left ventricular assist device placement[6]	ICD	SJ Atlas, SJ Fortify, SJ Promote
Noise reversion mode VOO, not DOO	PM	SJ Accent (after restoring DDD from VOO)
Atrial blanking after ventricular pace	PM	BSCI Insignia I Ultra
Having to turn off tachyarrhythmia	ICD	SJ Atlas

therapies instead of disabling detections		

The setting changes were often associated with the restoration of demand pacing after the CIED had been programmed to asynchronous pacing for surgery. Many parameters are not present during asynchronous pacing. When demand pacing is restored, the "lost" parameters that were re-instituted were often not the same as the patient's original programming. Some companies permit the original parameters to be saved to the programming box so that the saved parameters can be directly loaded into the CIED for restoration. Although this method usually restored the parameters lost by the use of asynchronous pacing, there are some parameters that will not restore with this method and have to be manually manipulated.

AV = atrioventricular; BSCI = Boston Scientific, Marlborough, MA, USA; DDD = dual (atrial and ventricular) chamber demand pacing; DOO = dual chamber asynchronous pacing; ICD = implantable cardioverter defibrillator, Med = Medtronic, Minneapolis, MN, USA; PM = pacemaker; PVARP = post-ventricular atrial refractory period; SJ = St. Jude Medical, Inc, St. Paul, MN, USA; VOO = asynchronous ventricular pacing.