Bijlage I Overzicht van alle aanbevelingen uit de ESC-richtlijn Cardiac pacing (level of evidence A & B)

Recommendation			
	Class	Lovel	Status
Non-invasive evaluation (chapter 4.3) Once carotid stenosis is ruled out, CSM is recommended in	Class	Level B	Status
patients with syncope of unknown origin compatible with a reflex		В	Overgenomen
mechanism or with symptoms related to pressure/manipulation of			
the carotid sinus area.	01		Ot-to-
Exercise testing (chapter 4.3)	Class	Level	Status
In patients with suspected chronotropic incompetence, exercise	lla	В	Overgenomen
testing should be considered to confirm the diagnosis.			
Tilt testing (Chapter 4.3.7)	Class	Level	Status
Tilt testing should be considered in patients with suspected	lla	В	Overgenomen
recurrent reflex syncope.			
Implantable loop recorders (Chapter 4.4)	Class	Level	Status
In patients with infrequent (less than once a month) unexplained	1	Α	Overgenomen
syncope or other symptoms suspected to be caused by			
bradycardia, in whom a comprehensive evaluation did not			
demonstrate a cause, long-term ambulatory monitoring with an ILR			
is recommended.		<u></u>	
Electrophysiology study (Chapter 4.5)	Class	Level	Status
In patients with syncope and bifascicular block, EPS should be	lla	В	Overgenomen
considered when syncope remains unexplained after non-invasive			_
evaluation or when an immediate decision about pacing is needed			
due to severity, unless empirical pacemaker implantation is			
preferred (especially in elderly and frail patients).			
In patients with syncope and sinus bradycardia, EPS may be	IIb	В	Overgenomen
considered when non-invasive tests have failed to show a			a rengement
correlation between syncope and bradycardia.			
Pacing in sinus node dysfunction (Chapter 5.1)	Class	Level	Status
In patients with SND and a DDD pacemaker, minimization of	1	A	Overgenomen
unnecessary ventricular	'	'	Overgenemen
pacing through programming is recommended.			
Pacing is indicated in SND when symptoms can clearly be	1	В	Overgenomen
attributed to bradyarrhythmias.	'		Overgenomen
Pacing is indicated in symptomatic patients with the bradycardia-	1	В	Overgenomen
tachycardia form of SND in order to correct bradyarrhythmias and	'	Ь	Overgenomen
enable pharmacological treatment, unless ablation of the			
tachyarrhythmia is preferred.			
	lla	В	Overgenemen
In patients who present chronotropic incompetence and have clear	lia	Р	Overgenomen
symptoms during exercise, DDD with rate-responsive pacing			
should be considered.			
In patients with the bradycardia-tachycardia variant of SND,	llb	В	Overgenomen
programming of atrial ATP may be considered			_
Pacing for atrioventricular block (chapter 5.2)	Class	Level	Status
In patients with AVB, DDD should be preferred over single-chamber	lla	Α	Overgenomen
ventricular pacing to avoid pacemaker syndrome and to improve			
quality of life.			
Pacing in patients with bundle branch block (chapter 5.3)	Class	Level	Status
In patients with unexplained syncope and bifascicular block, a	I	В	Overgenomen
pacemaker is indicated in the presence of either a baseline HV of			
≥70 ms, second- or third-degree intra- or infra-Hisian block during			
incremental atrial pacing, or an abnormal response to			
pharmacological challenge.			
Pacing may be considered in selected patients with unexplained	IIb	В	Overgenomen
syncope and bifascicular block without EPS (elderly, frail patients,			
high-risk and/or recurrent syncope).			
Pacing is not recommended for asymptomatic BBB or bifascicular	III	В	Overgenomen
block.			
Pacing for reflex syncope (chapter 5.4)	Class	Level	Status
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1	Α	Overgenomen
llb	В	Overgenomen
III	В	Overgenomen
		Status
III	В	Overgenomen
Class	Level	Status
I	Α	Overgenomen
	_	_
lla	В	Overgenomen
	_	_
lla	В	Overgenomen
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In patients who are candidates for an ICD and who have CRT	1	Α	Overgenomen
indication, implantation of a CRT-D is recommended.			
In patients who are candidates for CRT, implantation of a CRT-D	lla	В	Overgenomen; Een
should be considered after individual risk assessment and using			verwijzing naar de
shared decision-making.			Nederlandse
Hierbij dient de <u>Indicatierichtlijn primaire preventie ICD plaatsing bij</u>			indicatierichtlijn is
NICM te worden gevolgd.			toegevoegd.
His bundle pacing (chapter 7.3)	Class	Level	Status
In CRT candidates in whom coronary sinus lead implantation is	lla	В	Overgenomen
unsuccessful, HBP should be considered as a treatment option			
along with other techniques such as surgical epicardial lead.			
Using leadless pacing (leadless pacemaker) (chapter 7.4)	Class	Level	Status
Leadless pacemakers should be considered as an alternative to	lla	В	Overgenomen; Een
transvenous pacemakers when no upper extremity venous access			verwijzing naar de
exists or when risk of device pocket infection is particularly high,			Nederlandse richtlijn is
such as previous infection and patients on haemodialysis.			toegevoegd.
De NHRA-richtlijn uit 2016 (Richtlijn <u>Intracardiale pacemaker</u>) bevat			
voorwaarden voor implanteurs en implantatiecentra, zoals een			
minimaal aantal procedures en de aanwezigheid van			
cardiothoracale chirurgische back-up op locatie. Deze			
voorwaarden moeten in acht worden genomen bij het opvolgen van			
deze aanbevelingen.			
Cardiac pacing after acute myocardial infarction (chapter 8.1)	Class	Level	Status
Pacing is not recommended if AVB resolves after revascularization	III	В	Overgenomen
or spontaneously.	01		
Cardiac pacing after transcatheter aortic valve implantation	Class	Level	Status
(chapter 8.3)		Ъ	0
Permanent pacing is recommended in patients with complete or		В	Overgenomen
high-degree AVB that persists for 24 - 48 h after TAVI.	lla	В	Overgenemen
Early permanent pacing should be considered in patients with pre- existing RBBB who develop any further conduction disturbance	IIa	Ь	Overgenomen
during or after TAVI.			
Pacing in hypertrophic obstructive cardiomyopathy (chapter	Class	Level	Status
8.5)	Otass	LCVC	Otatus
AV sequential pacing with short AV delay may be considered in	IIb	В	Overgenomen
patients in SR who have other pacing or ICD indications if drug-			S
refractory symptoms or baseline or provocable LV outflow tract			
gradients ≥50 mmHg are present.			
AV sequential pacing with short AV delay may be considered in	llb	В	Overgenomen
selected adults with drug-refractory symptoms, ≥50 mmHg			
baseline or provocable LV outflow tract gradient, in SR, who are			
unsuitable for or unwilling to consider other invasive septal			
reduction therapies.			
Device implantations and peri-operative management (chapter	Class	Level	Status
9)			
Administration of pre-operative antibiotic prophylaxis within 1 h of	1	Α	Overgenomen
skin incision is recommended to reduce risk of CIED infection.			
Chlorhexidine-alcohol instead of povidoneiodine-alcohol should be	lla	В	Overgenomen
considered for skin antisepsis.			
For venous access, the cephalic or axillary vein should be	lla	В	Overgenomen
considered as first choice.			
In patients undergoing a reintervention CIED procedure, the use of	IIb	В	Overgenomen
an antibiotic-eluting envelope may be considered.			
Heparin bridging of anticoagulated patients is not recommended.	Ш	Α	Overgenomen
	1 111	В	Overgenomen
Permanent pacemaker implantation is not recommended in	III		
patients with fever. Pacemaker implantation should be delayed			
patients with fever. Pacemaker implantation should be delayed until the patient has been afebrile for at least 24 h.			
patients with fever. Pacemaker implantation should be delayed	Class	Level	Status

Verwijzen naar de richtlijnmodule MRI bij een elektronisch cardiaal implantaat			Komt te vervallen, verwijzen naar een Nederlandse richtlijn
Pacemaker and cardiac resynchronization therapy-pacemaker follow-up (chapter 11.7)	Class	Level	Status
Remote device management is recommended to reduce the number of in-office follow-ups in patients with pacemakers who have difficulties to attend in-office visits (e.g. due to reduced mobility or other commitments, or according to patient preference).	I	Α	Overgenomen
In-office routine follow-up of single- and dualchamber pacemakers may be spaced by up to 24 months in patients on remote device management.	lla	Α	Overgenomen
Remote device management of pacemakers should be considered in order to provide earlier detection of clinical problems (e.g. arrhythmias) or technical issues (e.g. lead failure or battery depletion).	lla	В	Overgenomen