



## Cardiac implantable electronic device (CIED) function assessment form

### Patient details

MRN: \_\_\_\_\_  
Surname: \_\_\_\_\_  
Other names: \_\_\_\_\_  
DOB: \_\_\_\_\_  
Sex: \_\_\_\_\_

### CIED function assessment timepoint

#### Pre-treatment course

☐

#### During treatment course (weekly)

☐

Total planned fractions: \_\_\_\_\_

Fractions delivered: \_\_\_\_\_

#### Post-treatment course

☐

### CIED features

CIED implantation date: \_\_\_\_\_

CIED implantation indication: \_\_\_\_\_

Device manufacturer: \_\_\_\_\_

Device model: \_\_\_\_\_

Type of implanted device: Pacemaker ☐ CRT-P ☐ ICD ☐ CRTR-D ☐

Pacing dependent (intrinsic heart rate <40 BPM): Yes ☐ No ☐

Pacing mode: \_\_\_\_\_ Minimum pacing rate: \_\_\_\_\_ Hysteresis value: \_\_\_\_\_

Maximum tracking rate: \_\_\_\_\_ Maximum sensor rate: \_\_\_\_\_

Section completed by: \_\_\_\_\_ Date: \_\_\_\_\_

### CIED interrogation results - Pacing system and function parameters

Device function-pacing output: \_\_\_\_\_

Pacing thresholds: \_\_\_\_\_

Sensing of R and P waves (i.e. A & V signal values): \_\_\_\_\_

Lead impedance: \_\_\_\_\_

Battery voltage and impedance (or estimated longevity): \_\_\_\_\_

Other: \_\_\_\_\_

Measurements of the pacing system and function parameters are stable: Yes ☐ No ☐

Comments:

Section completed by: \_\_\_\_\_ Date: \_\_\_\_\_

Key RT-P = cardiac resynchronisation therapy-pacemaker; CRT-D = cardiac resynchronisation therapy with implantable cardioverter defibrillator;  
ICD = Implantable cardioverter defibrillator

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## Radiation therapy plan information

CIED is in the direct path of a planned radiation beam:

Yes ☐ No ☐

CIED relocation recommended:

Yes ☐ No ☐

Neutron-producing beam used (>10 MV):

Yes ☐ No ☐

Cumulative dose to CIED:

<2 Gy ☐ 2-<5 Gy ☐ ≥5 Gy ☐

Comments:

Section completed by: \_\_\_\_\_

Date: \_\_\_\_\_

## Device alteration recommendations

Daily device alteration required during radiation therapy treatment delivery: Yes ☐ No ☐

Type of CIED function alteration required: \_\_\_\_\_

Method of function alteration: magnet ☐ temporary reprogramming ☐

Comments:

Section completed by: \_\_\_\_\_

Date: \_\_\_\_\_

Will CIED function be altered during treatment?	Pacemaker dependence status	Treatment beam energy (>10 MV)	Cumulative dose to CIED	Assessment and monitoring intervention level and requirements
No	Non-dependent	No	<2 Gy	Level 1 • No additional monitoring or weekly CIED assessment required. • CIED function assessment to be completed at end of treatment course.
			2-<5 Gy	Level 2 • Monitor cardiovascular vital signs during treatment delivery (e.g. ECG/pulse oximeter) • No weekly CIED assessment required. • CIED function assessment to be completed at end of treatment course.
			≥5 Gy	Level 3 • Monitor cardiovascular vital signs during treatment delivery (e.g. ECG/pulse oximeter) • CIED function assessment to be completed during treatment course (weekly) • CIED function assessment to be completed at end of treatment course.
		Yes	Any	
	Dependent	Any	Any	
Yes	Any	Any	Any	

## Recommended assessment and monitoring

Recommended assessment and monitoring intervention level (refer to the table above): Level 1 ☐ Level 2 ☐ Level 3 ☐

Recommended acceptable parameters and ranges during monitoring (e.g. programmed and asynchronous pacing rate):

**NB: patients with CIED function alteration must be monitored until device function is returned to normal.**

Comments:

Section completed by: \_\_\_\_\_

Date: \_\_\_\_\_