



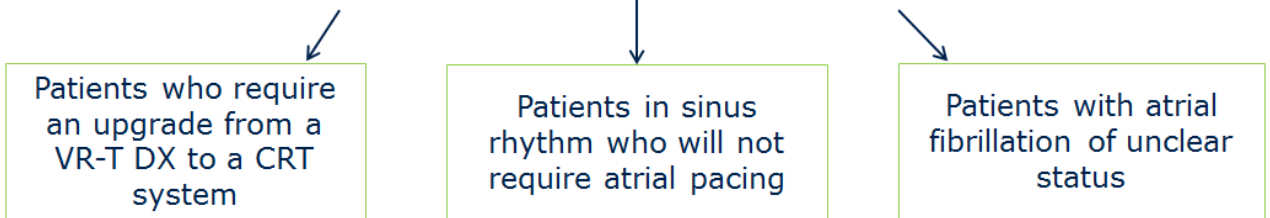
For Physicians.  
For Patients.

Innovative Technology from DX.  
Conservative Reliability.

### What is DX?

Implanting unique DX lead with an atrial dipole that senses atrial IEGMs - without the need for a separate atrial lead. Imagine only 2 leads needed for a complete CRT-D system! Or, only one lead for your dual chamber! A full-range of SVT-VT discrimination algorithms are still available.

### Which patients are suitable for a BIOTRONIK DX system?



HRS guidance supports the need to reduce hardware and implanting one less lead will also reduce complications & procedure times. For patients who fulfil single chamber ICD indication, why not use a DX lead to facilitate better specificity in arrhythmia detection. A Physiologists dream to have atrial information when troubleshooting a conventional single chamber ICD! [Click here for the 2015 consensus statement.](#)

### How do you program CRT DX?

In every Intica DF-1 QP device, connected to a DX ICD lead and then the DX functionality can be activated via the programmer.

This activation makes the CRT device compatible with the DX lead.

CLS modes are still available so **no** compromise on rate response for patients in heart failure or with chronotropic incompetence.

The screenshot shows the 'Tachycardia' tab of the programmer. The 'Sensing' section is highlighted, showing 'DX sensing' set to 'OFF'. A 'Warning' dialog box is displayed at the bottom, stating: 'DX sensing must only be activated when a DX lead is connected to the device. Do you want to activate DX sensing?' with 'Yes' and 'No' buttons.



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**How does it differ from other manufacturers?** That's easy! There's nothing else like it! (No one else can offer dual chamber sensing and diagnostics with a single lead).

**BIOTRONIK**  
excellence for life

DX Challenge  
Assess your personal DX score

Is this VT?



Yes

No

Still not convinced?

Think you can beat the DX diagnostics – try the DX challenge online!

<https://dxgame.biotronik.com/dxgame/>

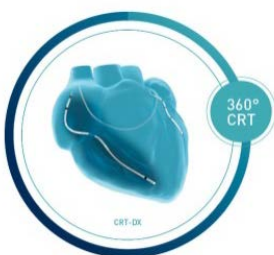
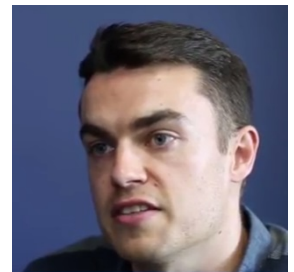
## BIOTRONIK 360° CRT is complete CRT.

Still not convinced?? Listen Dr Mark Dayer from Musgrove Park talking about using DX technology **“You have fewer leads in, you have problems with leads moving, lower risk of infection and lower complications at the time of implant”**



and Matt Swift & Dr Paul Foley from Great Western Hospital who say **“the increased diagnostics available from these modern devices, just makes it much better for everyone!”**

[Click here for the link to YouTube](#)



STILL not convinced??!! As well as several studies<sup>1,2,3</sup> that compliment this technology, we await the outcome of the MATRIX trial; a two year observational registry study, aiming to collect data on efficacy and safety of the single chamber Biotronik DX system with enhanced atrial diagnostics. Study completion date Dec 2018.

1 [Link to trial 2011](#), 2 [Link to trial 2012](#), 3 [Link to trial 2013](#), 4 [Link to trial 2014](#), 5 [Link to trial 2016](#)