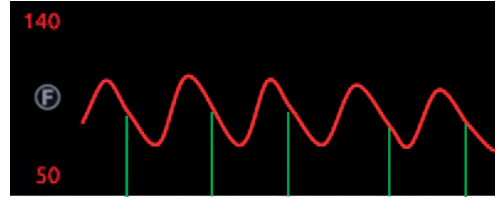
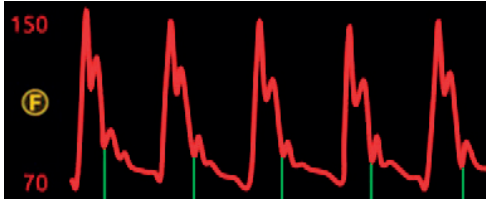




Waveform optimisation

Mostcare Up

Step one: Check the signal quality of Mostcare Up



Signs of underdamping

- Invasive Systolic pressure >> non-invasive
- Invasive Diastolic pressure < non-invasive
- $dP/dt > 1.7 \text{ mmHg/ms}$ (coloured red)
- Square wave test: **>2 oscillations**

Possible solutions

- Touch the curves on the screen and set **Advanced Filter**
- Remove any additional transducer connections
- Consider damping device if available.

Signs of overdamping

- Invasive Systolic pressure << non-invasive
- Invasive Diastolic pressure > non-invasive
- Less visible dicrotic notch
- Square wave test: **sluggish or no oscillations**

Possible solutions

- Check for kinking of the arterial cannula (if radial, extend the wrist of the patient)
- Flush the line
- Remove superfluous connections.

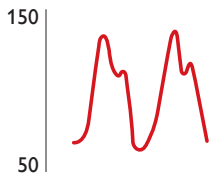
Check the dP/dt_{max}

If the dP/dt_{max} value goes above 1.7mmHg/msec, it will be shown in red – check waveform and connections

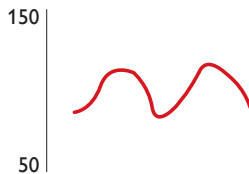
dP/dt_{max}

1.23
mmHg/ms

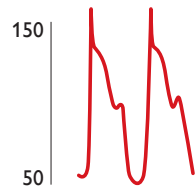
Step two: Inspect the arterial waveform on the patient monitor



Normal



Overdamped



Underdamped

If the arterial wave is over or underdamped:

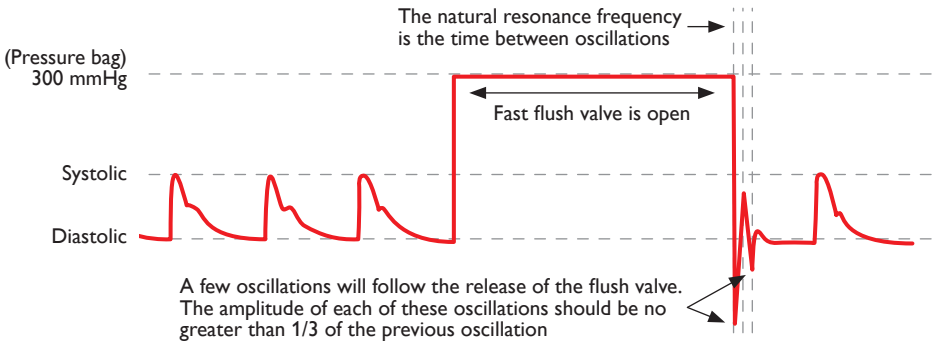
- Check pressure bag is sufficiently inflated
- Eliminate air bubbles
- Remove additional stop cocks
- Avoid long compliant tubing / wait until the line has been softened by body temperature
- Exclude catheter tip occlusions – clots and kinks / use correct arterial catheter
- Perform square wave test.

Step three: Perform a square wave test

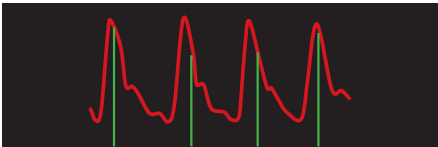


Pull the pigtail or squeeze the transducer sides to give a fast flush. There should be no more than 2 oscillations following a fast flush.

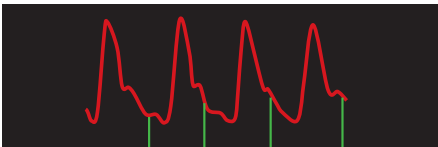
Square wave test of an adequately damped arterial waveform



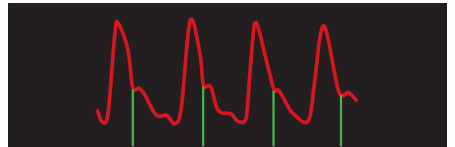
Step four: Check the dicotic notch



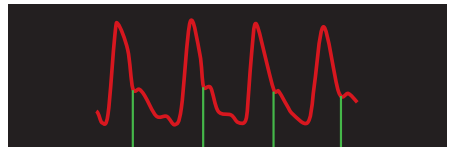
If Mostcare Up tends to anticipate dicotic notch



If Mostcare Up tends to detect the dicotic notch belatedly



Touch the curve on the screen and press **+** to adjust the dicotic detection



Touch the curve on the screen and press **-** to adjust the dicotic detection

 CRITICAL CARE

Scan with your smartphone

to view online or visit vygon.co.uk/mostcareupevaluation/

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