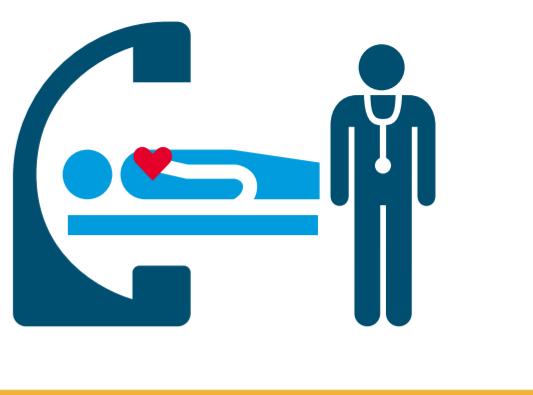
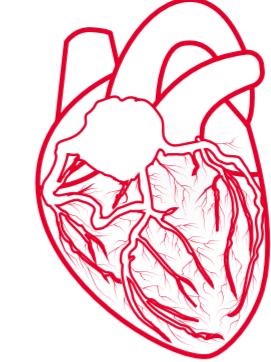
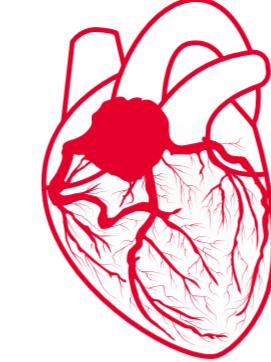
**C****Catheter Engagement****A****Advance Wire****T****Transit Time at Rest****H****Hyperemic Transit Time****C****Coronary Flow Reserve (CFR)****M****Index of Microcirculatory Resistance (IMR)****D****Diagnosis**

- Flush thoroughly<sup>1</sup>
- Coaxial guide engagement<sup>1</sup>
- Ensure no damping<sup>1</sup>

- Interrogate LAD unless there is a specific territory of interest<sup>2</sup>
- Advance wire sensor 2/3 distally in vessel<sup>3</sup>
- Administer GTN/NTG<sup>1</sup>

- Flush/purge pre-Tmn<sub>rest</sub> to clear any blood and contrast<sup>3</sup>
- Room temperature saline<sup>3</sup>
- Brisk 3 mL x 3 injections<sup>3</sup>
- Address outliers ( $\pm 0.25$ s) before proceeding<sup>4\*</sup>

<sup>\*</sup>Repeat measurement of Tmn<sub>rest</sub>

- Induce hyperemia<sup>5</sup>
- Confirm hyperemia<sup>6</sup>
- Flush/purge pre-Tmn<sub>hyp</sub> to clear any blood and contrast<sup>6</sup>
- Room temperature saline<sup>6</sup>
- Brisk 3 mL x 3 injections<sup>6</sup>
- Address outliers ( $\pm 0.15$ s) before proceeding<sup>4\*\*</sup>

<sup>\*</sup>Decrease in pressure, patient symptoms, FFR drop

<sup>\*\*</sup>Repeat measurement of Tmn<sub>hyp</sub>

- CFR <2.5<sup>\*4</sup>
- CFR gray zone 2.0-2.4<sup>\*4</sup>

<sup>\*</sup>Evolving consensus

- IMR  $\geq 25^2$
- Use IMRcorr if FFR  $\leq 0.80^7$

- Diagnosis of CMD based on IMR  $\geq 25$  and CFR <2.5<sup>\*2,4</sup>
- CFR gray zone 2.0-2.4<sup>\*4</sup>
- Refer to guidelines and consensus documents<sup>2,4, 8-9</sup>

<sup>\*</sup>Evolving consensus

**GTN** (glyceryl trinitrate) | **NTG** (nitroglycerin) | **LAD** (left anterior descending) | **FFR** (fractional flow reserve) | **IMRcorr** (IMR corrected) | **CMD** (coronary microvascular dysfunction) | **Tmn<sub>rest</sub>** (resting transit mean time) | **Tmn<sub>hyp</sub>** (hyperemic transit mean time)

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