The advanced technology Swan-Ganz catheter, using the same functionality as the standard Swan-Ganz catheter, provides the ability to continuously monitor the balance between oxygen delivery and consumption and investigate the root cause of an imbalance through analysis of the components of stroke volume (preload, afterload, and contractility).

Advantages of Continuous Cardiac Output (CCO) Swan-Ganz catheter as compared to the Intermittent Cardiac Output (ICO) Swan-Ganz catheter:
- Reduced advanced diagnostic information with one procedure
- Continuous monitoring of SVI, EDV, EDV
- Continuous monitoring of heart rate, systolic pressure
- Continuous monitoring of pulmonary capillary wedge pressure (PCWP) via PAP catheter
- Continuous monitoring of mixed venous oxygen saturation (% SvO2)
- Continuous monitoring of mixed venous oxygen content (mmol/L)
- Continuous monitoring of mixed venous oxygen saturation (% SvO2)
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- Continuous monitoring of mixed venous oxygen saturation (% SvO2)
- Continuous monitoring of mixed venous oxygen content (mmol/L)

**Applications and contraindications**

- **Contrast applications for Swan-Ganz catheter**:
  - Contrast injection
  - Contrast injection
  - Contrast injection

- **Contraindications for Swan-Ganz catheter**:
  - Heart valve replacements
  - Valve replacements
  - Valve replacements

**Catheter insertion distance markings**

- **Left atrial position**:
  - 80 cm
  - 70 cm
  - 60 cm
  - 50 cm
  - 40 cm

**Parameters attained with Hemispheric advanced monitoring system**

- **CCO (continuous cardiac output)**
  - SVI: 33–47 mL/beat/m²
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  - SVI: 33–47 mL/beat/m²

**Troubleshooting CCO and CCOmbo catheters**

- **Troubleshooting SQI for SVO2 Monitoring**
  - SQI = 4
  - SQI = 4
  - SQI = 4

**Reflection photometry**

- **Hemodilution**
  - Monitor for hemodilution
  - Monitor for hemodilution
  - Monitor for hemodilution

**Additional Hemodynamic Monitoring**

- **Swan-Ganz catheter insertion waveforms**
  - SVI: 33–47 mL/beat/m²
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