

# Edwards Vigilance Monitor

Continuous Cardiac Output (CCO), End Diastolic Volume (CEDV)  
and Mixed Venous Oxygen Saturation (SvO<sub>2</sub>)

---

## Abbreviated Instructions for Use

### To Begin SvO<sub>2</sub>:

1. Connect catheter to optical module. Connect optical module to Vigilance Monitor.
2. Press **SvO<sub>2</sub>** on blue touch bar.
3. Select **IN VITRO CALIBRATION** on the touch bar.
4. Use the **CURSOR** key to select HGB (hemoglobin) **OR** Hct (hematocrit).
  - Use default value or enter lab value using touch bar.
5. Press the **CAL** key.
6. Remove catheter from tray.
7. Flush catheter; check balloon.
8. Insert catheter in PA.
9. Press **START SvO<sub>2</sub>**.

### To In Vivo Calibrate SvO<sub>2</sub>:

1. Press **SvO<sub>2</sub>** on blue touch bar.
2. Confirm catheter position and SQL before performing - Press **IN VIVO CALIBRATION**.
3. Press **DRAW**, after checking SQL of 1 or 2.
4. Slowly draw waste sample and discard, slowly draw lab sample and send for analysis by co-oximeter.
5. Use the **CURSOR** to select value, enter lab results using touch bar.
6. Press **CAL**.

### To Transport SvO<sub>2</sub>:

1. After reconnecting patient cable and optics module to the Vigilance Monitor, **wait 20 seconds**, press **SvO<sub>2</sub>** on touch bar.
2. Press **TRANSPORT**.
3. Press **RECALL**. (Note: Calibration data must be less than 24 hours old.)

### To Start CCO and CEDV Readings: (CEDV parameter will only be displayed if using a CCO/CEDV catheter and the patient's ECG is being slaved into the Vigilance Monitor.)

1. Connect thermal filament and thermistor connections on catheter to patient cable.
2. Press **CCO STOPPED** to begin CCO and CEDV monitoring.

### To Configure Computer Screen (from Home Screen):

1. Press **SET UP** to change display format (temperature units, international units, time format, alarm volume, indexed/non-indexed values).
  - Press **CURSOR** to highlight format selection.
  - Once highlighted, press **CHANGE** to select desired parameters.
  - Press **CONFIGURE PARAMETERS** to change what is displayed in lower left corner of Home screen.
    - If using **CEDV**, choose from 1 of 6 groups using touch bar.
  - Press **HOME** to enter and return to Home screen.
2. Press **ALARMS** to set alarms.
  - Press **ALARMS ON/OFF** to toggle the alarms suspended function.
  - Press **CCO, SvO<sub>2</sub>** or **CEDV** on the touch bar.
  - Press **HI/LOW** and use touch bar to select desired limits.
  - Press **HOME** to return to HOME screen or **RETURN** to select other alarm parameters.
3. Press **TREND** to set trend time scale or to change graphic displays. You may choose up to 3 trend parameters.
  - Use touch bar to select desired time interval from 30 minutes to 24 hours.
  - Press **EVENTS** to mark intervention.
    - Use touch bar to select desired event.
  - Press **SELECT GRAPH** to select desired parameters and scale for Graph 1 or Graph 2 or Graph 3. (Note: CCO/CCI will be predetermined by selection in **SET UP**).



Edwards

#### To Use Cardiac/Oxygen Profile:

1. Press **PATIENT DATA**.
2. To enter cardiac profile:
  - Press **EDIT** to input new values.
  - Press **CURSOR** to highlight desired parameter.
  - Use touch bar to enter new values.
  - Press **CALC** to calculate derived cardiac parameters.
3. Press **OXYGEN PROFILE** to enter oxygen profile.
  - Use **EDIT** and **CURSOR** keys to enter data.
  - Press **CALC** to calculate derived oxygen parameters.
4. Press **HT/WT/BSA** to input height/weight for BSA calculation (height and weight may be entered pre-insertion).
5. Press **RETURN**.
6. Press **HOME** to return to Home screen.

#### To Perform Bolus Cardiac Output:

1. Press **BOLUS CO** on touch bar.
2. Check **INJ VOL** (Injectate Volume) and **CATHETER** (Catheter Size) and **MODE** (automatic or manual).
  - Use touch bar to change values.
3. Auto Mode: Begin injecting bolus within four (4) minutes after **INJECT** message.
  - Wait for CO to be displayed.
  - Inject subsequent boluses after **INJECT** message reappears.Manual Mode: Press **START BOLUS** and inject bolus within 30 seconds.
  - Wait for CO to be displayed.
  - Press **START BOLUS** and inject subsequent boluses after **READY** message reappears.
4. Press **EDIT BOLUS** after desired number of boluses.
  - Use the touch bar to delete values from CO average.
  - (Selecting twice will re-select value.)
  - Press **HOME** to return to HOME screen, OR **PATIENT DATA**.
  - Press **Yes** when prompted to resume CCO.

#### To View Stat Mode (Fast Trend Estimates of CCO/CCI and CEDV/CEDVI):

1. Press **STAT** on touch bar.
2. Ten boxes for CCO run data will appear. Most recent stat data will appear in top left box. CCO values are displayed in top half of box and CEDV on bottom, for CEDV catheters.

#### To Use Drug Calculation Mode:

1. Press **DRUG CALC** on touch bar when in the home screen.
2. If weight is already in data base it will be displayed on **Drug Calculation Screen**.
3. Enter data of highlighted parameter by using the numeric touch bar keys. Then press **CURSOR**. Enter **Weight**, **Drug Quantity** and **Solution Volume**.
4. Entering **Drug Administration Rate** will automatically calculate **Infusion Rate**.  
*Note: Because of hard decimal point, at least a two digit entry is required.*  
*Example: 5 mcg/kg/min = 5.00 (3 digit entry); 1/2 mcg/kg/min = .50 (2 digit entry).*
5. Entering **Infusion Rate** will automatically calculate **Drug Administration Rate**.

Refer to *Vigilance Monitor Operator's Manual* for detailed warnings, precautions and instructions for use.



Certified according  
to European MDD

Edwards Lifesciences, Edwards and the stylized E logo are trademarks of Edwards Lifesciences Corporation. CCombo and Vigilance are trademarks of Edwards Lifesciences Corporation and are registered in the U.S. Patent and Trademark Office.

© Copyright 2002 Edwards Lifesciences LLC.  
All rights reserved. 1169-12/00-CC



# Edwards Lifesciences

Edwards Lifesciences LLC · Irvine, CA 92614 USA · 949.250.2500 · www.edwards.com  
Edwards Lifesciences (Canada) Inc. · Mississauga, Ontario · Canada L5C 4R3 · 905.566.4220  
Edwards Lifesciences S.A. · Ch. du Glapin 6 · Switzerland · 41.21.823.4300  
Edwards Lifesciences Japan · Chiyoda-ku, Tokyo 102-0085 · Japan · 81.3.5213.5700