



### HEMODYNAMIC PATTERNS

| Condition           | SAP | CVP | PAP | PCWP | CO | C(a-v)O <sub>2</sub> | PVR | SVR |
|---------------------|-----|-----|-----|------|----|----------------------|-----|-----|
| Hypovolemic shock   | ↓   | ↓   | ↓   | ↓    | ↓  | ↑                    | ↑   | ↑   |
| Cardiogenic shock   | ↓   | ↑   | ↑   | ↑    | ↓  | ↑                    | ↑   | ↑   |
| Septic shock        | ↓   | ↓   | ↓   | ↓    | ↑  | ↓                    | ↓   | ↓   |
| Cardiac Tamponade   | ↓   | ↑   | ↑   | ↑    | ↓  | ↑                    | ↑   | ↑   |
| RV Infarction       | ↓   | ↑   | ↑   | ↑    | ↓  | ↑                    | ↑   | ↑   |
| Pulmonary Embolism  | ↓   | ↑   | ↑   | ↑    | ↓  | ↑                    | ↑   | ↑   |
| Airways Obstruction | ↔↑  | ↔↑  | ↑   | ↔    | ↔↑ | ↔                    | ↑   | ↔   |

### HEMODYNAMICS

| HEMODYNAMICS           |   |  |                                      |
|------------------------|---|--|--------------------------------------|
| <b>CO</b>              | 4.25-6.12 L/min                                 | HR*SV                                      | Cardiac Output                       |
| <b>CI</b>              | 2.5-3.6 L/min/m <sup>2</sup>                    | VO <sub>2</sub> /Ca-vO <sub>2</sub> (fick) | Cardiac Index                        |
| <b>EF</b>              | 55-78 %   | SV/EDV                                     | Ejection Fraction                    |
| <b>HR</b>              | 60-90 bpm                                       | CO/SV                                      | Heart Rate                           |
| <b>SV</b>              | 69-87 mL/beat                                   | CO/HR                                      | Stroke Volume                        |
| <b>SI</b>              | 41-60 mL/beat/m <sup>2</sup>                    | CI/HR                                      | Stroke Volume Index                  |
| <b>BFVR</b>            | 0.9-1.4 ratio                                   | CI/BVI                                     | Blood Flow:Volume Ratio              |
| <b>BV</b>              | 3-5.1 L   | PV/(1-Hct)                                 | Blood Volume                         |
| PRESSURES              |   |  |                                      |
| <b>MAP</b>             | 70-105 mmHg                                     | (SP+2DP)/3                                 | Mean Arterial Pressure               |
| <b>MPAP</b>            | 9-17 mmHg                                       | (PSP+2PDP)/3                               | Mean Pulmonary Arterial Pressure     |
| <b>PP</b>              | 20-70 mmHg                                      | SP-DP                                      | Pulse Pressure                       |
| <b>RPP</b>             | 6000-12000 mmHg*bpm                             | HR*SP                                      | Rate Pressure Product                |
| <b>CPP</b>             | 60-80 mmHg                                      | DP-PCWP                                    | Coronary Perfusion Pressure          |
| <b>COP</b>             | 23-29 mmHg                                      | (glob*1.4)+(alb*5.5)                       | Colloid-Oncotic Pressure             |
| RESISTANCES            |   |  |                                      |
| <b>SVR</b>             | 770-1500 dyn*s/cm <sup>5</sup>                  | ((MAP-CVP)/79.92)/CO                       | Systemic Vascular Resistance         |
| <b>SVRI</b>            | 1970-2390 dyn*s/cm <sup>5</sup> *m <sup>2</sup> | ((MAP-CVP)/79.92)/CI                       | Systemic Vascular Resistance Index   |
| <b>PVR</b>             | 20-120 dyn*s/cm <sup>5</sup>                    | ((MPAP-WP)/79.92)/CO                       | Pulmonary Vascular Resistance        |
| <b>PVRI</b>            | 30-240 dyn*s/cm <sup>5</sup> *m <sup>2</sup>    | ((MPAP-WP)/79.92)/CI                       | Pulmonary Vascular Resistance Index  |
| CARDIAC WORK           |   |  |                                      |
| <b>LCWI</b>            | 3.4-4.2 kg*m/m <sup>2</sup>                     | CI*MAP*0.0144                              | Cardiac Work Index, Left             |
| <b>RCWI</b>            | 540-660 g*m/m <sup>2</sup>                      | CI*MPAP*0.0144                             | Cardiac Work Index, Right            |
| <b>LVSWI</b>           | 50-62 g*m/m <sup>2</sup>                        | SI*MAP*0.0144                              | Ventricular Stroke Work Index, Left  |
| <b>RVSWI</b>           | 7.9-9.7 g*m/m <sup>2</sup>                      | SI*MPAP*0.0144                             | Ventricular Stroke Work Index, Right |
| ELECTROCARDIOGRAPHY    |   |  |                                      |
| <b>Q-T<sub>c</sub></b> | 0.34-0.42 s                                     | (QT)/(sqrtRR)                              | Q-T interval correction              |
| <b>RR</b>              | 0.42-1.2 s                                      | RR interval                                | RR interval                          |
| abbrev                 |   | nl values                                  | units                                |
|                        |   | equation                                   |                                      |

### CONVERSION

\*Celsius = (°F - 32)/1.8    \*Fahrenheit = (°C x 1.8) + 32  
 French Units: 1 french unit = 1 mm x 3.14  
 mmHg & cmH<sub>2</sub>O: 1 mmHg = 1.36 cmH<sub>2</sub>O

### PULMONARY

| <b>RR</b>                 | 10-16 resp/min                | Respiratory Rate  |
|---------------------------|-------------------------------|---|
| <b>VT</b>                 | 400-600 mL                    | Wt*VT   |
| <b>Ve</b>                 | 4.0-8.0 L/min                 | VT*RR   |
| <b>Vo</b>                 | 80-300 mL                     | (VT*(PaCO <sub>2</sub> -PECO <sub>2</sub> ))/PaCO <sub>2</sub>                          |
| <b>FVC</b>                | >4.0 L                        | Forced Vital Capacity   |
| <b>FEV<sub>1</sub></b>    | >3.0 L                        | FEV <sub>1</sub> /FVC = >60%  |
| <b>Qs/Qt</b>              | 0.0-7.0 %                     | Shunt, physiologic  |
|                           |                               | ((CcapO <sub>2</sub> -CaO <sub>2</sub> )/(CcapO <sub>2</sub> -CvO <sub>2</sub> ))*100   |
| A-a GRADIENT              |                               |   |
| <b>PA-aO<sub>2</sub></b>  | 5-25 mmHg                     | A-a Gradient  |
|                           |                               | ((FIO <sub>2</sub> )*(PB-PH <sub>2</sub> O))-(PaCO <sub>2</sub> /R)-(PaO <sub>2</sub> ) |
| <b>PA-aO<sub>2</sub>c</b> | 5-25 mmHg                     | A-a Gradient, age-corrected   |
|                           |                               | 2.5+(0.25*age)  |
| <b>PAO<sub>2</sub></b>    | 95-105 mmHg                   | Alveolar Oxygen Tension   |
|                           |                               | ((FIO <sub>2</sub> )*(PB-PH <sub>2</sub> O))-(PaCO <sub>2</sub> /R)                     |
| <b>PaO<sub>2</sub></b>    | 80-100 mmHg                   | arterial Oxygen Tension   |
|                           |                               | Measured, [estimated=100-(0.33*age)]  |
| <b>PIO<sub>2</sub></b>    | 100-150 mmHg                  | (FIO <sub>2</sub> )*(PB-PH <sub>2</sub> O)  |
| <b>PB</b>                 | 0-760 mmHg                    | Barometric Pressure   |
|                           |                               | 29.92*((1)-(6.87535*alt*10 <sup>-6</sup> ))+5.2561                                      |
| <b>FIO<sub>2</sub></b>    | 19-21 %                       | Fraction of inspired O <sub>2</sub>   |
| <b>PH<sub>2</sub>O</b>    | 47 mmHg                       | Water vapor (partial press.)  |
| <b>R</b>                  | 0.7-1 ratio                   | Respiratory Quotient  |
| OXYGEN CONTENT            |                               |   |
| <b>CaO<sub>2</sub></b>    | 17-20 mL/dL                   | arterial Oxygen Content   |
|                           |                               | ((Hb*1.36)*(SaO <sub>2</sub> ))+((PaO <sub>2</sub> *0.0031)                             |
| <b>CcapO<sub>2</sub></b>  | 21-21 mL/dL                   | capillary Oxygen Content  |
|                           |                               | ((Hb*1.36)*(ScapO <sub>2</sub> ))+((PaO <sub>2</sub> *0.0031)                           |
| <b>CvO<sub>2</sub></b>    | 12-15 mL/dL                   | mixed venous O <sub>2</sub> Content   |
|                           |                               | ((Hb*1.36)*(SvO <sub>2</sub> ))+((PvO <sub>2</sub> *0.0031)                             |
| <b>Ca-vO<sub>2</sub></b>  | 4-5 mL/dL                     | Oxygen Content Difference, arterial-venous  |
|                           |                               | (CaO <sub>2</sub> )-(CvO <sub>2</sub> )   |
| <b>PaO<sub>2</sub></b>    | 80-100 mmHg                   | arterial Oxygen Tension   |
| <b>SaO<sub>2</sub></b>    | 96-99 %                       | arterial Oxygen Saturation  |
| <b>PvO<sub>2</sub></b>    | 35-45 mmHg                    | mixed venous O <sub>2</sub> Tension   |
| <b>SvO<sub>2</sub></b>    | 60-80 %                       | mixed venous O <sub>2</sub> Saturation  |
| <b>PaCO<sub>2</sub></b>   | 35-45 mmHg                    | arterial CO <sub>2</sub> Tension  |
| <b>PACO<sub>2</sub></b>   | 35-45 mmHg                    | Alveolar CO <sub>2</sub> Tension  |
| <b>PvCO<sub>2</sub></b>   | 40-50 mmHg                    | mbxed venous CO <sub>2</sub> Tension  |
| <b>PECO<sub>2</sub></b>   | 25-35 mmHg                    | Expired CO <sub>2</sub> Tension   |
| OXYGEN TRANSPORT          |                               |   |
| <b>O<sub>2</sub> ext</b>  | 20-30 %                       | Oxygen Extraction Rate  |
|                           |                               | CO*CaO <sub>2</sub> -10   |
| <b>DO<sub>2</sub></b>     | 750-1200 mL/min               | Oxygen Delivery   |
|                           |                               | CI*CaO <sub>2</sub> *10   |
| <b>DO<sub>2</sub> I</b>   | 550-650 mL/min/m <sup>2</sup> | Oxygen Delivery Index   |
|                           |                               | CO*Ca-vO <sub>2</sub>   |
| <b>VO<sub>2</sub></b>     | 200-280 mL/min                | Oxygen Consumption  |
|                           |                               | CI*Ca-vO <sub>2</sub>   |
| <b>VO<sub>2</sub> I</b>   | 115-165 mL/min/m <sup>2</sup> | Oxygen Consumption Index  |
|                           |                               | Wt*VCO <sub>2</sub>   |
| <b>VCO<sub>2</sub></b>    | 120-320 mL/min                | Carbon dioxide Production   |

# Math Formulas In Medical Field

**Michael Seilmaier**



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## **Table of Contents Math Formulas In Medical Field**

1. Understanding the eBook Math Formulas In Medical Field
  - The Rise of Digital Reading Math Formulas In Medical Field
  - Advantages of eBooks Over Traditional Books
2. Identifying Math Formulas In Medical Field
  - Exploring Different Genres
  - Considering Fiction vs. Non-Fiction
  - Determining Your Reading Goals
3. Choosing the Right eBook Platform
  - Popular eBook Platforms
  - Features to Look for in an Math Formulas In Medical Field
  - User-Friendly Interface
4. Exploring eBook Recommendations from Math Formulas In Medical Field
  - Personalized Recommendations
  - Math Formulas In Medical Field User Reviews and Ratings
  - Math Formulas In Medical Field and Bestseller Lists

5. Accessing Math Formulas In Medical Field Free and Paid eBooks
  - Math Formulas In Medical Field Public Domain eBooks
  - Math Formulas In Medical Field eBook Subscription Services
  - Math Formulas In Medical Field Budget-Friendly Options
6. Navigating Math Formulas In Medical Field eBook Formats
  - ePub, PDF, MOBI, and More
  - Math Formulas In Medical Field Compatibility with Devices
  - Math Formulas In Medical Field Enhanced eBook Features
7. Enhancing Your Reading Experience
  - Adjustable Fonts and Text Sizes of Math Formulas In Medical Field
  - Highlighting and Note-Taking Math Formulas In Medical Field
  - Interactive Elements Math Formulas In Medical Field
8. Staying Engaged with Math Formulas In Medical Field
  - Joining Online Reading Communities
  - Participating in Virtual Book Clubs
  - Following Authors and Publishers Math Formulas In Medical Field
9. Balancing eBooks and Physical Books Math Formulas In Medical Field
  - Benefits of a Digital Library
  - Creating a Diverse Reading Collection Math Formulas In Medical Field
10. Overcoming Reading Challenges
  - Dealing with Digital Eye Strain
  - Minimizing Distractions
  - Managing Screen Time
11. Cultivating a Reading Routine Math Formulas In Medical Field
  - Setting Reading Goals Math Formulas In Medical Field
  - Carving Out Dedicated Reading Time
12. Sourcing Reliable Information of Math Formulas In Medical Field
  - Fact-Checking eBook Content of Math Formulas In Medical Field
  - Distinguishing Credible Sources
13. Promoting Lifelong Learning

- Utilizing eBooks for Skill Development
  - Exploring Educational eBooks
14. Embracing eBook Trends
- Integration of Multimedia Elements
  - Interactive and Gamified eBooks

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