

# Hemodynamic monitoring

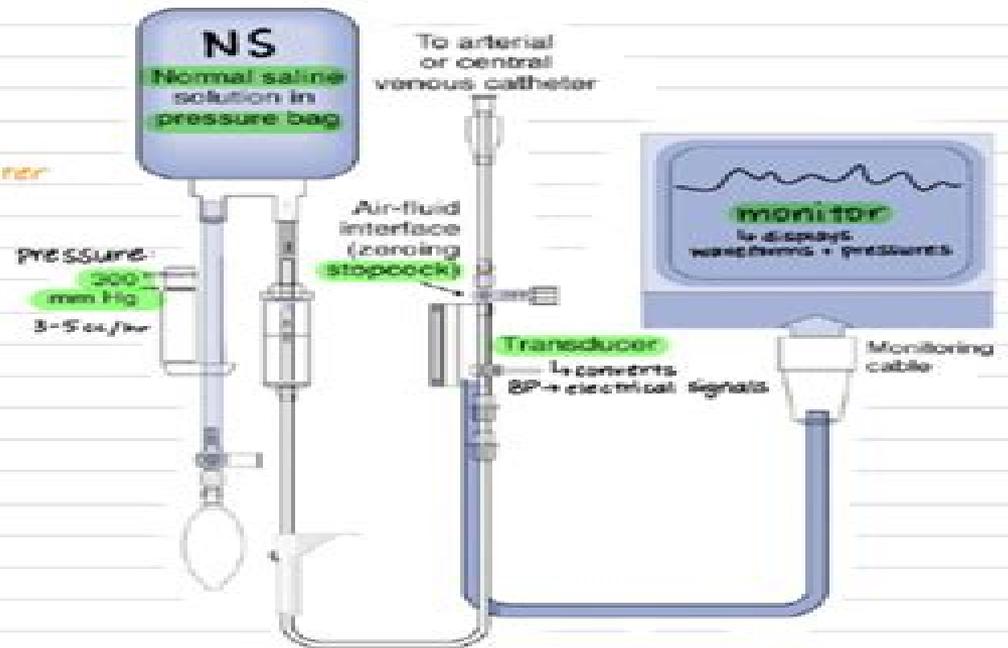
## hemodynamic monitoring

### types:

1. central venous pressure (CVP)
2. intra-arterial BP monitoring
3. pulmonary artery (PA) or Swan Ganz catheter

### ASSESSES:

- blood pressure
- blood flow
- oxygenation
- heart function
- fluid balance
- effects of fluids + meds on CO



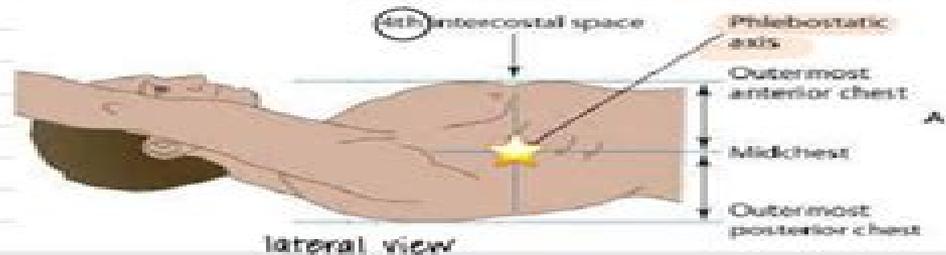
## setting up

### Zeroing:

- aligning transducer (stopcock) w/ atria using **phlebostatic axis** (4th IC space, midchest, midaxillary)
- confirms monitor reads zero when pressure w/in system is zero
- open stopcock to room air
- flush system, hit "zero"

### When to zero:

1. right after insertion of arterial line
2. transducer or pressure cable disconnects
3. accuracy of monitor reading is questioned  
↳ always assess first



# Techniques In Bedside Hemodynamic Monitoring

**Michael Ragosta**



## **Techniques In Bedside Hemodynamic Monitoring:**

**Techniques in Bedside Hemodynamic Monitoring** Elaine Kiess Daily, John Speer Schroeder, 1994 *Techniques in Bedside Hemodynamic Monitoring*, 1994 Strategy in Bedside Hemodynamic Monitoring Jean-Francois Dhainaut, Didier Payen, 2012-12-06 This book presents a comprehensive survey in which internationally recognized experts discuss specific topics Physiological and biophysical foundations of hemodynamics are reviewed and clinical tools to evaluate these newer parameters are described Monitoring strategies integrating theoretical and practical aspects of hemodynamics in commonly encountered ICU conditions are presented This Update represents the series continuous effort to combine the most recent developments in one reference source for all those involved in cardiology internal medicine pediatrics anesthesia intensive care and emergency medicine AACN Procedure Manual for High Acuity, Progressive, and Critical Care - E-Book AACN, 2016-12-02 NEW Updated content throughout reflects the latest evidence based guidelines and national and international protocols NEW 17 new procedures reflect major additions to nursing practice in high acuity progressive and critical care settings NEW Engaging new illustrations of procedures equipment and techniques are integrated throughout

**Textbook of Clinical Hemodynamics - E-Book** Michael Ragosta, 2024-09-30 A highly clinical focus and clear vibrant illustrations make Textbook of Clinical Hemodynamics 3rd Edition by Dr Michael Ragosta the resource of choice for accurately analyzing hemodynamic waveforms generated in cardiac catheterization labs This easy to use disease oriented reference ideal for physicians nurses, and technicians offers the unparalleled detail and visual support you need for interpreting the findings you encounter in practice New coverage throughout keeps everyone on the cardiac team up to date with the latest concepts and skills ensuring more effective monitoring and treatment of patients with cardiac disease Provides a disease oriented assessment of waveform data that demonstrates how both qualitative and quantitative interpretation can affect clinical decision making Features extensive updates throughout with greatly expanded coverage of aortic valve disorders TAVI and left ventricular hemodynamics heart failure and shock Contains two new chapters Diastology with cardiac catheterization findings and echocardiographic depictions of diastolic function in health and disease states and Bedside Hemodynamic Monitoring in the Intensive Care Unit focusing on indications procedural aspects available options and the clinical utility of hemodynamic monitoring in the critically ill patient More than 100 brand new full color images provide clear visuals for a more complete understanding of complex concepts Covers the most recent advances in the field with emphasis on mitral and aortic valvular heart disease coronary hemodynamics cardiogenic shock pulmonary hypertension and mechanical circulatory support all areas that have seen the most recent growth and change Includes an updated Easy Reference Appendix with clinically useful formulas and data Hemodynamic Monitoring Gloria Oblouk Darovic, 1995 This book covers fluid filled systems intracranial hemodynamics open heart surgery patients pediatric patients and more It shows exactly how to insert and manipulate catheters safely read monitors properly and interpret readings

accurately Precise illustrations deliver crucial details on delicate techniques      **Current Catalog** National Library of Medicine (U.S.), First multi year cumulation covers six years 1965 70      *Hemodynamic Waveform Analysis* Thomas Ahrens, Laura A. Taylor, 1992 A must for learning hemodynamic waveform interpretation this excellent text and reference demonstrates the necessity of interpreting waveforms in critical care situations Step by step directions are provided for identifying normal waveforms as well as abnormalities and variations Technical considerations in hemodynamic waveform monitoring are provided Integration of hemodynamic waveform values with other hemodynamic data provide the clinician with practical skills to apply in clinical scenarios These skills are tested in the new clinical application section of the text which stresses the large number of practice waveforms      National Library of Medicine Current Catalog National Library of Medicine (U.S.), 1990      AACN Procedure Manual for Critical Care American Association of Critical-Care Nurses, 2001 Turn here for comprehensive coverage of procedures commonly performed in the critical care environment Each procedure is detailed step by step with the very latest information a strong research base and rationales for each step The fourth edition features new advanced practice procedures that are noted with special icons Also includes new procedures for cardiac arrest devices continuous venovenous hemofiltration and more Research based data has been added to strengthen recommendations for each procedure      **Methods in Critical Care** American Association of Critical-Care Nurses, Sally Millar, 1980      **Fluid and Blood Component Therapy in the Critically Ill and Injured** Suellen Ellerbe, 1981

*Procedures and Techniques in Intensive Care Medicine* James M. Rippe, 1995      *California. Court of Appeal (1st Appellate District). Records and Briefs* California (State).,      **Clinical Assessment in Respiratory Care** Robert L. Wilkins, Susan Jones Krider, Richard L. Sheldon, 2000 Thoroughly revised and updated CLINICAL ASSESSMENT IN RESPIRATORY CARE teaches assessment techniques from the most basic skills for the student learning the process of patient care to the more advanced skills for the student or practitioner involved with patients in the intensive care unit An entirely new section will teach students and practitioners the skills necessary to record patient cases The Instructor's Manual Test Bank allows instructors to customize their approach to assessment and includes a ready made selection of test questions

**Heart & Lung** , 1988      *Nursing Interventions Classification (NIC)* Joanne C. McCloskey, Gloria M. Bulechek, 1996 The first comprehensive classification system of interventions performed by nurses Nursing Interventions Classification NIC presents a full range of nursing interventions from general practice to all specialty areas Developed by a research team at the University of Iowa this clinical tool standardizes and defines the knowledge base for nursing curricula and practice communicates the nature of nursing and facilitates the appropriate selection of nursing interventions for nurses including practicing nurses nursing students nursing administrators and faculty      *Nursing Interventions Classification (NIC)* Gloria M. Bulechek, 2004 Part 1 Construction and Use of the Classification p 1 Chapter 1 An Overview of the Nursing Interventions Classification NIC p 3 Chapter 2 Development Testing and Implementation of NIC 1987 2002 p 21 Chapter 3 Use of NIC p 44

Part 2 Taxonomy of Nursing Interventions p 109 Part 3 The Classification p 127 Part 4 NIC Interventions Linked to NANDA Diagnoses p 781 Part 5 Core Interventions for Nursing Specialty Areas p 903 Part 6 Estimated Time and Education Level Necessary to Perform NIC Interventions p 933 Part 7 Appendixes p 965 A Interventions New Revised and Deleted Since the Third Edition p 967 B Guidelines for Submission of a New or Revised Intervention p 970 C Timeline and Highlights Nursing Interventions Classification NIC p 975 D NIC Interventions Placed in Taxonomy of Nursing Practice p 979 E Selected Publications p 991 F Abbreviations p 998     **Nursing the Critically Ill Adult** Nancy Meyer Holloway,1988     Subject Catalog, 1981 Library of Congress,1981

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