Factors Affecting Body Temperature

- o Age
 - i. childrens body temps vary more
 - ii older adults (>75) are at risk for hypothermia (temp< 96.8)
 - loss of subcutaneous fat, inadequate diet, lack of activity, reduced thermoregulatory efficiency
 - they are also more sensitive to environmental extremes
- Diurnal Variations (circadian rhythms)
 - i highest body temp is usually between 4-6 PM, lowest point = 4-6 AM
- o Exercise
 - Can increase body temp i
- Hormones
 - i Women fluctuate more than men
 - ie: progesterone surge at ovulation -> increased body temp
- Stress
 - increases epinephrine and norepinephrine release -> increased Metabolic activity and heat production ment environmental extreme cur a floor a person's thermoregulatory system take. i
- Enviroment
- Oral Intake
- druking cold water or warn to
- n Body Temperat il e
 - 2 primary alterations: pyrexia and hypothermia
 - Pyrexia above usual range
 - very high: 41C or 105.8 F = hyperpyrexia/hyperthermia
 - person as a fever= febrile
 - person with no fever= afebrile

Nursing Interventions for Fever ii.

- Monitor vitals
- Assess skin color and temp
- Monitor WBC and RBC and other lab data to look for infection or dehydration
- remove excess blankets when pt feels warm, but provide warmth when pt feels chilled
- provide adequate nutrition and fluids
- measure intake and output
- reduce physical activity, especially during flush stage administer antipyretics as ordered

- Exercise
 - i. more is shape, slower pulse at rest
- Fever
 - pulse increases with fever bc of vasodilation and increased metabolic i activity
- Medication
 - cardiotonics- decrease; epinephrine- increase
- Hypovolemia/dehydration
 - i loss of blood/ blood volume decreases -> increase pulse
- Stress
 - increase pulse i
- Position
 - i Sitting or standing reduction in BP and increase in HR
- Pathology
 - i can alter pulse

Pulse Sites

- Sites
 Temporal superior and lateral to eye
 Apical, apex of heart- left side of the sterrous after intercostal space; 0-4 midclavicular line; 4-6 left of thic a line; child 7-9 @ 4-5 intercostal space
- Brachial inter or medial aspect of brack
- Ky lill shumb side of in the spect of wrist EASIEST
 - Femoral- femoral along side inguinal ligament
 - Popliteal- passes behind knee
 - Posterior tibial- medial surface of ankle
 - o Dorsalis pedis- middle of ankle to space between big and second two

Assessing Pulse 551-557

- palpation and auscultation
- use three finger tips; except with apical pulse- use stethoscope
- Doppler ultrasound scope- for difficult to find pulses
- o If pt has been exercising, make them wait 10-15 minutes
- o be aware of meds that could affect heart rate
- o be aware of baseline data and if pt needs to assume a more ideal position
- >100 beats/minute= tachycardia
- <60 beats/minute bradycardia</p>
- o pulse rhythm- pattern of beats and intervals between them; should be equal time lapses in normal pulse
 - dysrhythmia or arrhythmia- random irregular beats/minute or regular patterns of irregularity -> ECG

- Respiratory rhythm- regularity or inspiration and expirations, normally evenly spaced, though, infants may be less regular than adults
- o respiratory quality or character- aspects of breathing that are different from normal effortless breathing
 - i. difficulty to breath (i.e. labored breathing)
 - ii. sounds of breathing (i.e. wheezing)
 - iii. the efficiency of gas exchange (i.e. the amount of hemoglobin in blood saturated with oxygen)- can be measured with pulse oximeter
 - minimum 90

Assessing Respirations

- Respirations
 - act of breathing i
- Technique
 - i. inspection and auscultation
 - ii Be aware of

 - Influence of health problems on respiration.
 Meds that might affect respiration.

 - Relationship of the rail is

Blood Pressure

arterial blow pr

sure exerted by the blood as it flows through the

- measured in millimeters of mercury (mmHG) and recorded as ii. systolic/diastolic
- normal 120/80 mmHg and pulse pressure = 40; considerable personal iii. variation
 - systolic the pressure of blood as a result of contraction of the ventricles, that is, the pressure of the height of the blood wave
 - diastolic pressure when ventricles are at rest
 - difference between the two = pulse pressure
 - o normal is about 40 mmhg but can reach as high as 100 mmhg during exercise
- arteriosclerosis (hardening of arteries) = elevated pulse pressure iv.
- mean arterial pressure (MAP)- pressure actually delivered to body's V. organs
 - add ²/₃ of diastolic pressure to ¹/₃ of the systolic pressure
 - normal = 70-110 mmHG

Determinants of BP

- increase environmental heat-> vasodilation-> decrease BP ii
- iii decrease environmental heat-> vasoconstriction-> increase BP

Error in BP Assessment

- Bladder cuff to narrow, arm unsupported, insufficient rest before assessment, cuff wrapped too loosely or unevenly, assessing immediately after a meal, while pt is in pain or while pt smokes -> erroneously high
- o bladder cuff too wide, failure to identify auscultatory gap, or arm above level of heart - > erroneously low
- o repeating assessment too quickly -> super high systolic or low diastolic
- o deflating cuff to quickly-> super low systolic or high diastolic
- o super high diastolic > deflating cuff to slowly

Hypertension

- blood pressure persistently above normal
- o 140/90 mmHG or greater
 - i. 140-159 and 90-99: hypertension stage 1
- must have high reading at least twice, at different times
 primary hypertension

 elevated pressure of units in cluse

 secondary hypertension
- secondary hypertension
- electred pressure of known Jauso telensive and at the control of t
 - diastolic 80 89 mmHG
 - systolic: 120-139 mmHG
 - factors associated with hypertension
 - thickening of arterial walls and inelasticity of lumen
 - lifestyle factors
 - i cigarette smoking, obesity, heavy alcohol consumption, lack of physical exercise, high blood cholesterol, continued exposure to stress
 - o older adults have to get their high blood pressure to a goal of at less than 150/90
 - adults 30-59 have to get their high blood pressure to a goal of at less than 150/89 or less

Hypotension

- blood pressure that is below normal: systolic reading consistently between 85-110 mmHG (normal BP is usually above this)
- orthostatic hypertension
 - i blood pressure that decreases when client sits or stands
 - ii. when assessing for this:
 - place pt in supine position for 10 minutes

may require a physician's orders and may be in response to both medical and nursing diagnoses) or dependent

- independent- nurse orders bedside toilet to put by pts bed
- collaborative get PT into help her
- dependent- need physician to order oxygen
- NIC's in text as well and evolve.com- standard language of interventions
- direct care- thinks you can do to care for pt
- indirect care things someone else did; pt; physician
- **Evidence- Based Interventions**
 - evidence based practice- help determine the best way of giving
 - nurse must always use critical thinking when applying EBN guidelines to any particular nursing situation
 - Each client is unique in his or her needs and capabilities
 - final phase- documenting the actual care plan, including prioritized nursing diagnostic statements, outcomes, and intervel thes

Implementation

- actual initiation of nursing an plan actual intervention actual interventions performed (affirm in till ey are appropriate for the
- client and effective)

and revise the care plan

- organizeres and care delivery
- anticipate and prevent complications; implement plan
- nurses often delegate tasks, supervise staff, and document client's responses
- take nursing diagnosis handbook w/ you to clinicals

Evaluation

- collect data/interpret findings
- last phase of nursing process, but is actually an integral part of each phase and is something a nurse does continually
- Evaluate based on SMART; was ND correct?/ revise care plan
- Remember to document.

Critical Thinking and Clinical Judgement

• Nurses must have multiple critical thinking skills

- ability to interact successfully with people and within the environment of which each person is a part
- develop and maintain intimacy with SO's
- develop respect and tolerance for people with different beliefs

Emotional

- ability to manage stress and express emotions appropriately
- ability to recognize, accept, and express feelings and to accept one's limitations

Physical

ability to carry out ADL's, achieve fitness, maintain adequate nutrition and proper body fat, avoid using drugs, tobacco, and alcohol, and generally practice positive lifestyle habits

Spiritual

- belief in some force (nature, science, religion, higher power) that serves to unite humans and provide meaning and purpose to life
- includes personal morals ethics and values

Intellectual

- ability to learn and use info experienced for personal, family, and career development.
- g to deal with new striving in continued grows. Lea challenges effectively

cupational

- ptandoalance between work and leisure time
- beliefs about education, employment, home influence on personal satisfaction, and relationships with others
- Lots of overlap
- Well-being is subjective
- Nurses need to clarify their understanding of well being because health beliefs influence health behavior and nursing definitions largely determine nurses scope and nature of practice
- Variables that influence Health Status (267-268)
 - Internal
 - Biologic dimension
 - genetic makeup, sex, age, and developmental level
 - Psychological dimension
 - mind body interactions: negative physiological responses to emotional stress
 - o biofeedback, relaxation techniques, and mediation are often used to counteract/ treat stress, anxiety, pain, illness, etc

■ slow onset; periods of Remission (when symptoms disappear) and periods of Exacerbation (when symptoms reappear)

Patient Safety

What is Safety?

- Safety is "freedom from accidental injury"
- Error is "failure of a planned action to be completed as intended or the use of The Joint Commission (TJC)
 NPSG's
 Analyze

Need to Improve Patient Safety

Focus on system by c

Utilize risk assessment tools

- o Fall Risk Assessment
- Home Hazard Appraisal

2015 NPSG's

- Identify patient correctly
- Improve staff communication
- Use medicines safely
- Prevent infections
- Check patient medications
- Identify patient safety risks (suicide)

• FALL PREVENTION

- National Patient Safety Goal from 2010
- Reduce the risk of patient harm resulting from falls
- Implement a fall reduction program and evaluate the effectiveness of the program

- Independent ambulation contraindicated due to medical condition
- Unable to follow instructions
- At high risk for injury
- Fall risk is NOT an indication for restraint

Assessing Patient Safety

- Follow hospital policy/protocol
- Flow sheets to document assessment while in restraints
- Safety, circulation for limb restraints, skin condition, respiratory rate, and behavior
- Hydration, meals, toileting, and position changes including ROM are offered
- Proper Application of Restraint
 - Follow manufacturer's recommendations If you don't know ASK
 - Attach restraint ties to bed frame, never to side rail of bed

 - Adapt restraint to patient's size and identified node.
 Do not impede circulation with writing to the contraction. Do not impede circulation with writing and restraint
 ks of Medical Restraint e 48 of 50

Risks of Medical Restrain

piratory cordition

- Bowel/bladder function
- Mental changes
- Airway obstruction risk for aspiration
- Physical injury
- Emergency (fire)

• Hospital and Community safety

- Environmental Factors
- Affecting Safety
- Home
- Workplace
- Community
- Health Care Setting
- Terrorism and Bioterrorism

Workplace Factors