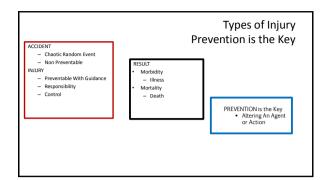
Caring for the Child & Family with a Preventable Injury  NUR 2261	
Objectives  1. Identify major social and environmental factors 2. Describe how health promotions and health maintenance are addressed by partnering with families. 3. Apply the nursip process in evaluation of health promotion and health maintenance activities for infants, & children. 4. Discuss the main cause of injunies to dilution of visions age groups. 5. Describe the socreting and management of care for field with a visitint of poisoning. 6. Describe the socreting and management of care for child with an a visitint of burnur. 7. Identify supercified unifoldation affected of injoining. 8. Outline appropriate nursing diagnoses & interventions as well as reporting responsibilities.	• Safety is always a priority
It's Always Summer in Florida  • WATER SAFETY	

# • Include in the Plan of Care **Health Promotion** Health Promotion Screening Exercise Routine Screenings Well Child Visit Growth & Development Anticipatory Guidance Immunizations Teach Parents What to Expect Hearing Developmentally Vision Healthy People 2020 Health History & Assessment Child & Adolescent Nutritional Guidance • Infant Feeding • Childhood Nutrition • Dental Care • Adolescent · Childhood obesity is the primary focus Immunization History Developmental Milestones Play / Activity / School Exercise Sleep Adolescents have more driving Injury Prevention Risk-Taking Behaviors Water Safety / Bicycle / Driving / Tattooing / Body Piercing Testing Limits incidences **Health Prevention** Injury Schematic CHILD AGENT ENVIRONMENT

(Object that is the direct

(Time & Place)



Prevention is Key!!

### Types of Neglect & Abuse Healthcare Workers • Make Sure That the Injury is NOT a Result of Neglect or Abuse. Abuse or Neglect? Drowning Medical Neglect · Does the Mechanism of Injury Match the Injury? Is the Explanation of the Injury Always Dehydration Trauma the Same? Remember if Child Abuse is

Suspected

• RNs are Legally Required to Report Suspicion of abuse. Dial: 1-800-96-ABUSE



Be sure abuse or injury is not attributed to neglect • RNs are legally required to report abuse or suspicion of abuse

	Strategy Prevention
Parent Education Maintain Safe Environment Based on Child's Age & Developmental status Motor Vehicle Collisions  Don't Drive While Tired  Little Experience with Car Seat Placement Improper Usage of Restraints Choking Hazards	• Safety & Injury Prevention  Same Property Francisco Property Francis

Educate parents on how to maintain a safe environment

### Aspiration

Leading Cause of Fatal Injury in Children Under 1 Year of Age

Rate Increases When Child Finds Their Mouth

Foreign Body Aspiration

- Inhalation of Any Object
- Objects Lodged Above Vocal Cords Expelled Easily
- Objects Lodged in The Trachea Present a Life Threatening Emergency





- Aspiration is usually located in the right bronchus due to its narrowness and is considered a life threatening emergency
- Objects lodged above the vocal cords are expelled relatively easy

# **Common Causes** or Objects

Baby Powder

Bottle Propping Pillows

Latex Gloves Syringe Caps Hot Dog

Rlankets Pacifiers

Nuts Ice

Small Objects Buttons Latex Balloons

Grapes Popcorn

Rlinds

**Electrical Cords** 

Observe for Signs & Symptoms of Increasing Respiratory Distress:

- Change in Breath Sounds Noisy → Decreased → Absent
- Drooling
- Change in Respiratory Rate, Depth; Retractions
- Coughing
- Nasal Flaring



# **Nursing Management**

Continuous Assessment is Essential for Positive Outcome

- **+** Monitor VS
- **→** Monitor LOC
- +Immediately Report Changes To the Physician
- → Observe Several Hours Discharge Home or **Prolonged Hospital Stay**

•	Continually assess patients until t	ime
	of discharge	
_		
_		
_		

# Ineffective Airway Clearance • R/T aspirated object AEB continuous coughing Inability to Sustain Spontaneous Ventilation • R/T foreign body OR respiratory muscle fatigue AEB oxygen saturation + 90% Fear / Anxiety • R/T uncertainty of diagnosis, unfamiliar surroundings, procedures AEB constant questioning of staff

Suffocation from Submersion  • Drowning  • Near Drowning  Orowning Incidence Swimming Pools Artificial Bodies Fresh Water  Orown in as Little as 2 Inches of Water  • Buckets  • Toilets  • Bathrubs	Drowning or Near Drowning Suffocation from Submersion	Assess children 24 hours after a drowning incident for further damage o asphyxiation
Buckets     Toilets		

Supervision Everyone Thinks Someone Else is Watching In Reality No One Isl Buddy System  Monitoring Devices Pool Alarms Gates Door Locks Toilet Safety Locks Pool PHONE	Safety & Prevention  injury child free day adult	•	Make sure monitoring devices are in working order
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Major insult associated with drowning

### Anoxia leads to

- Cerebral edema & increased intracranial pressure
- Signs and symptoms

- Vary
   Depends on
   length of time of submersion,
   temperature of water

  - initial treatment initiated at the scene.

# Signs & Symptoms

- Prognosis
  - Individualized
- Hypoxemia
  - begins in seconds
  - irreversible nervous system cell changes begin within 4 to 6 minutes
- Outcome
  - submersion less than 5 minutes
- CPR for less than 10 minutes
- · Key feature in outcome
  - Time frame of resuscitation initiated

# **Nursing Management**



### Assess & maintain airway Provide life support measures Suction Administer oxygen

Assess cardiopulmonary & neurologic function

Assess other injures head or spinal trauma

Admit for least 24 hours

Provide Child & Family support

- Most common after 4 months of age
- Growth & Development (Begin to roll over)
- Parents unprepared
- Child head is larger in comparison to body leans over & tumbles
- Educate Family & Care Takers
- Normal growth & development & anticipatory

13/10

Falls

- Be aware of everyday objects for safety issues
- Education not only child but family as well to prevent injury

Nursing Care Education is Action

# Educate on Preventable Injuries

- Improper restraint or lap riding
- · Airbag safety
- Improper poundage on vehicle seats
- Educate Families
  - Safety prevention
  - Care Seats • Booster Seats
  - State Laws



- Children <2 must be in a back seat / rear facing car seat
- Must wear seat belts at all times while in any vehicle

0	Highest incidence in 2 year old group
	Growth & Development

- Growth & Development
   Walking / Curiosity
- Approximately 500 toxic substances in an average home
- Major reason for ingestion is improper storage
   75% of poisons are ingested, other routes of contamination include: inhalation, transcutaneous, and ocular
- Poison Prevention Packaging Act of 1970 mandates child-protective devices for all potentially toxic substances

# **Poisoning Incidences**



- Lock all cabinets appropriately
- If ingested objects burn going down
   DO NOT induce vomiting due to
   burning while coming back up
- Assess LOC, Respiratory issues, and tinnitus
- Call Poison Control 1st unless CPR is need

# Prevention & Management at Home

- Call Poison Control FIRST (unless CPR is necessary)
- Follow Poison Control Center Recommendation

# Provide the following information:

- Telephone number, age, weight
- Name of substance
   Degree or amount of exposure
- Time of exposure
- Route
- SymptomsHome management

- Store chemicals in their original containers
- Never refer medications to candy
   risk of overdose

# Assess the victim Identify the poison Remove poison & prevent

- ABC's: Maintain patent airway
- Maintain effective breathing pattern
- Maintain Vital Signs temperature
- Gastric decompression
- Adequate fluid intake
- Family support
- Prevent recurrence (home visit)

∕Ianagement & Nursing	Care
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- **ABCs**
- Flush Eyes
- Flush Skin
- Remove Clothing

# Acetaminophen Poisoning Signs & Symptoms

- Toxic dose 150mg/kg
- Therapeutic dose
- 10 15 mg/kg/dose Maximum ADULT dose is 4grams per day
- Nausea Vomiting Diaphoresis

Symptoms

- Pain in RUQ
- Jaundice

- Be alert to signs and symptoms of over dosing of Acetaminophen
- Assess for jaundice and report to physician immediately
- Be alert for Reyes Syndrome

# Syrup of ipecac or Mucomyst or Activated Charcoal

- Depending on ingestion period & ingestion levels
- Poison Control will manage

### Activated charcoal will inactivate Mucomyst

- Mucomyst prevents liver toxicity Offensive odor
- Rotten eggs smell
- Give Anti-emetic • Q4h x 72 hrs via Nasogastric Tube

# Management of Overdose



- Be aware of antidotes if possible

# Assess for contributing factors: Inadequate support systems Behavior problems Cating out Teach anticipatory guidance Subased on child's developmental level Child proof home Teach proper dosing Different concentrations Poison control phone number by phone; Educate babysitters

Educate care givers

 they will need emotional and
 spiritual support if accidents arise

	Lead Poisoning Exposure & Assessmer
Decline since mid 1970's	9 ,
decrease in exposure & increase in screening  Source:     Paint chips     Window sill	Routine screening with well-child visits  • Questionnaire to determine risk level  • Blood level  Poisoning is determined by 2 consecutive elevated blood levels
Furniture     Contaminated food     Soil and water from old lead pipes	1 END
Lead dust from home remodeling	POISONING
Ceramics (unglazed pottery) Paint now lead free	<ul> <li>Lead Poisoning in Kids.</li> </ul>

If lead levels increase then Iron levels decrease

Body Systems Effected	Signs & Symptoms
Abdominal Pain     Hematologic: anemia     Renal: kidney damage	Lead poisoning Lead buildup in the body causes serious health problems
Neurologic: Irritability Headaches Fatigue  Often, no symptoms	Symptoms  - Heatdoches - Imitability - Reductiones - Imitability - Reductiones - Imitability - Reductiones - Agreemate behavior - United by Reductions - Reductio
Screening is key!	- Pour spelle - Oursipalen   Fotos pelle - Oursipalen   Fotos pelle - Oursipalen   Fotos pelle - Fotos pelle   Fot

Lead poisoning can damage every body system
 often no symptoms until child is very ill



# Identification & Management

Monitor renal function:

- I&O, BUN.
- Creatinine

Urine protein

- Follow-up blood levels
- Screening Education

Follow-up to evaluate development & intelligence

## Prevent further exposure

- Wash hands
- · Remove lead items

- Wash and dry hands and face frequently
- Wash toys often
- Flush pipes often to avoid standing water located in pipes

Leading cause of injury with children 5-14 years

- From caustic agents touched or ingested
- From cause op ....

   Electrical
   From direct or alternating current in electrical wires, appliances
- wires, appliances

  Radiation

  Result from exposure to radioactive substances or sunlight

  Inhalation
- - Severity influenced by type of material burned and length of exposure

# **Burn Injuries**



- Smoke can cause damage as well
- Do no mix chemicals together
- Burns cause:
  - Vasoconstriction
  - Vasodilation
  - o Ischemia
- Metabolic Rate Increases
- Need for Calories Increase in order for Heeling to Occure



- When, where, how injury occurred
   Type of burn

- Past medical history Treatment prior to arrival Tetanus booster

# Management

- · Stop burning process Maintain
- patent airway
- Breathing
- Circulation
- Deliver oxygen therapy
- Obtain vascular access
- 2 large bore Fluid status
- · Pain assessment

•		•	•

- Fluid replacement
- prevent hypovolemic shock

Temperature maintenance

- Heat is lost rapidly through burned skin
- Prevent infection
- Provide antibiotics intravenously
- Pain Control
  - Aggressive pain management





- Fluid Replacement to prevent
   hypovolemic shock Lactated
   Ringers
- Pain Control is Essential via IV opioids
- H2 Blockers to avoid stress ulcers
- Monitor I&Os

- Dressing changes
- Hydrotherapy
- Antibiotic therapy
- Skin grafting
- Whirlpool therapy
- Silvadene to prevent bacterial infection
- Hydrotherapy to increase vasodilatation
- Pain management
- Prevent complications
- Provide emotional support

# Grafting & Wound Site Care



**Goal** of wound management Speed wound debridement to protect granulation tissue and prevent scarring contractures

- Long Term Care
- Require emotional support not only to patient but for families as well

 Which nursing intervention should take place prior to all vaccination administrations?

# QUESTION OF THE DAY

- Document the vaccination to be administered of immunization record and medical record
- Provide the vaccine information statement handout, and answer all questions.
- Administer the most painful vaccination first, and then alternate injection sites.
- Refer to the vaccination as "baby shots" so the parent understands the baby will be receiving an injection.
- Provide VIS (vaccination information sheets) to patients and family prior to vaccinations being given
  - Printed from CDC website

Answer to	the Question of the Day		
Written information about the vaccine should always be given prior to any immunization administered as well as allowing time for questions.	Written information about the vaccine should always be given prior to any immunization administered as well as allowing time for questions. Accurate documentation should always occur after immunizations are given.		
	Administer the most painful immunization last.		
	<ol> <li>The word "shots" has a negative connotation to parents and should be avoided.</li> </ol>		
References  Ward, Susan L. and Hisley, Shelton M. (2009). Maternal-Child Nursing Care: Optimizin Philadelphia: F.A. Davis. ISBN -13: 978-0-8036	g Outcomes for Mothers, Children, & Families. 1486-4		
Ward, Susan L and Hisley, Shelton M. (2010). Clinical Pocket Compan Care: Optimizing Outcomes for Mothers, Children, & Familles 71 ISBN-13: 978-0-8036-1855-8	on for Maternal-Child Nursing		
F.A. Davis Plus / Ward Electronic Readings Website: http://davisplus.fac	lavis.com/ward/bonus_unit.cfm		

Medications and chemicals – store in a high shelf away from child's reach, in a sealed area, safety child locks on cabinets. Poison-proof and child-proof the home. Put locks on cabinets, use child safety containers. Do not place poisonous materials in other, nonsafe containers. Discard unused medications. Make sure child is always under adult supervision. Post phone number for local poison control center next to telephone. Examine the environment from the child's viewpoint. Poisonings particularly by ingestion is a common cause of childhood injury and illness. Most poisonings occur in children under the age of 6, with a peak at age 2.

Other safety reminders: Have fire extinguisher easily available, ensure you have the appropriate size car scat for the child, crib safety, never use microwave oven to heat breast milk, never prop a bottle in infant's mouth.

Changing tables - keep one hand on the infant at all times, never leave the infant alone on the table. Powder should never be shaken close to infant's face to prevent aspiration.

During bath - parent keep both hands on infant, one hand to wash, the other to hold infant.

Gates - top & bottom of staircases at all time (accordion gates not recommended.)