

1 of 8	CVA	HEAD TRAUMA	SUBSTANCE ABUSE	SEIZURE	BLOOD	BLOOD	CARDIAC	CARDIAC	CARDIAC	CARDIAC
Altered LOC & Cardiac	Stroke	Head Trauma (Bleeding in Brain)	Substance Abuse (see details on separate page)	Seizure	Hypoglycemia (Diabetes Type I and II & Gestational)	Hyperglycemia (Diabetes Type I and II & Gestational)	Angina Pectoris (Stable or Unstable)	Acute Myocardial Infarction (AMI)	Congestive Heart Failure (CHF)	Pericardial Tamponade
Cause	<ul style="list-style-type: none"> • Cerebrovascular accident (CVA) • Arterial rupture/aneurysm • Thrombosis or cerebral embolism 	<ul style="list-style-type: none"> • Traumatic mechanism of injury • Coup-contrecoup 	<ul style="list-style-type: none"> • Drugs • Alcohol 	<ul style="list-style-type: none"> • Congenital • Febrile fever • Brain structure issues • Metabolic/chemical issues • Epilepsy 	<ul style="list-style-type: none"> • Too much insulin • Insufficient glucose intake • Too much exercise • Pregnancy 	<ul style="list-style-type: none"> • Insufficient insulin • Too much glucose intake • Insufficient exercise • Pregnancy 	<ul style="list-style-type: none"> • Ischemia • Atherosclerosis • Artery spasm • Stress • Large meal 	<ul style="list-style-type: none"> • Ischemia • Atherosclerosis • Hypothermia • Stress • High cholesterol • Elevated blood sugar • Lack of exercise • Smoking • Hypertension 	<ul style="list-style-type: none"> • Heart damage or disease (AMI) • Long-term hypertension 	<ul style="list-style-type: none"> • Penetrating injuries to the chest or heart itself • Less commonly, blunt trauma to the chest
Result	<ul style="list-style-type: none"> • Brain cell ischemia or infarction • Hemorrhagic stroke • Ischemic stroke • Transient Ischemic Attack (TIA) 	<ul style="list-style-type: none"> • Subdural bleeding (under Dura layer) – slow onset • Epidural bleeding (outside brain) – fast onset • Intracerebral bleeding 	<ul style="list-style-type: none"> • Altered LOC 	<ul style="list-style-type: none"> • Generalized (grand mal) • Absence (petit mal, typically in children 4 to 12 years old) • Febrile • Status epilepticus 	<ul style="list-style-type: none"> • Insulin shock • Brain damage • Heart attack • Diabetic ketoacidosis 	<ul style="list-style-type: none"> • Diabetic coma • Heart attack 	<ul style="list-style-type: none"> • Temporary O2 starvation 	<ul style="list-style-type: none"> • Cardiogenic shock • Sudden death • CHF • Tissue Infarction 	<ul style="list-style-type: none"> • Left ventricle failure or compromise • Heart rate increase • Left ventricle enlargement 	<ul style="list-style-type: none"> • Blood or fluid in the pericardium (heart sac), preventing heart from filling during diastolic phase, causing decrease in blood circulation and pressure
Red Flags	<ul style="list-style-type: none"> • Paralysis on one side • Sudden, severe “worst headache ever” (hemorrhagic) • Long-term hypertension • Atherosclerosis • History of TIA 	<ul style="list-style-type: none"> • Mechanism of injury • Severe headache “worst headache ever” (hemorrhagic) • CSF or blood exiting from ears or nose • Battle’s signs • Raccoon eyes • Retrograde or anterograde (posttraumatic) amnesia • Differential pupil size 	<ul style="list-style-type: none"> • Bottles (pill and alcohol) • Drug paraphernalia 	<ul style="list-style-type: none"> • Aura • Rapid fever rise in child • Incontinence • Rapid improvement during postictal state 	<ul style="list-style-type: none"> • Medical bracelet • Quick onset • Cool, pale, & clammy skin • <80 mg/dL • Hunger • Pregnant 	<ul style="list-style-type: none"> • Medical bracelet • Slow onset • Hot and dry skin • >120 mg/dL • Kussmaul respirations • Dehydration, sunken eyes • Fruity smell • Polyuria • Polydipsia • Polyphagia • Pregnant 	<ul style="list-style-type: none"> • Crushing • Squeezing • Standing on chest • No change with breathing • Short term <15 min • From exertion 	<ul style="list-style-type: none"> • Crushing • Squeezing • Standing on chest • No change with breathing • Several hours • Not from exertion 	<ul style="list-style-type: none"> • Frothy, pink sputum • Jugular vein distention • Pulmonary edema • Dependent edema (i.e. swollen ankles) 	<ul style="list-style-type: none"> • Mechanism of injury • Muffled (very soft, faint) heart sounds • Cardiac arrest • Jugular vein distension • Merging of systolic and diastolic BPs
Other S&S	<ul style="list-style-type: none"> • Aphasia – speech problems • Receptive aphasia – illogical responses • Expressive aphasia - grunts • Dysarthria – slurring • Limited vision • Death 	<ul style="list-style-type: none"> • Altered • Combative • Convulsions • Seizure • Sweating • Dizziness • Death • Cushing’s triad – elevated BP, decreased pulse, decreased or irregular breathing 	<ul style="list-style-type: none"> • Altered • Combative • Convulsions • Seizure • Sweating • Dizziness • Altered respirations, to arrest • Altered pulse, to arrhythmia • Altered BP, to cardiac arrest • Death 	<ul style="list-style-type: none"> • Tonic: tongue biting; incontinence • Tonic-Clonic phase: 1-3 mins: tachycardia; hyperventilation; intense salivation • Postictal state: 5-30 mins; hemiparesis; rapid improvement; fatigue; confusion; combative / anger 	<ul style="list-style-type: none"> • Altered • Combative • Convulsions • Normal or rapid respirations • Rapid pulse • Sweating • Dizziness • Headache • Rapid pulse • Normal to low BP • Seizure • Syncope • Hemiparesis • Coma to death 	<ul style="list-style-type: none"> • Weak, rapid pulse • Normal or low BP • Altered • Infection common • Vomiting 	<ul style="list-style-type: none"> • Stable – pain recedes with rest • Sudden onset • Weakness, nausea, sweating • Jaw, arm, back, abdomen, neck pain • Rapid pulse • Syncope • Dyspnea • Arrhythmia • Pale, grey skin • Increased / irregular pulse • Apprehension • Pulmonary edema • Cardiac shock • Sudden death • CHF 	<ul style="list-style-type: none"> • Sudden onset • Weakness, nausea, sweating • Jaw, arm, back, abdomen, neck pain • Syncope • Dyspnea • Arrhythmia • Pale, grey skin • Increased / irregular pulse • Apprehension • Pulmonary edema • Cardiac shock • Sudden death • CHF 	<ul style="list-style-type: none"> • Muffled heart sounds • High BP • Rapid pulse • Rapid respirations • Anxiety • Restlessness • Confusion • Dyspnea 	<ul style="list-style-type: none"> • Low BP • Cyanosis • Weak pulse • Dyspnea
Common Medication	• N/A	• N/A	• N/A	<ul style="list-style-type: none"> • Dilantin • Phenobarbital 	<ul style="list-style-type: none"> • Insulin • Diabinese, Orinase, Micronase • Glucotrol • Glucophage • Avondia 	<ul style="list-style-type: none"> • Insulin • Diabinese, Orinase, Micronase • Glucotrol • Glucophage • Avondia 	<ul style="list-style-type: none"> • Nitroglycerin • Aspirin 	<ul style="list-style-type: none"> • Nitroglycerin • Aspirin 	<ul style="list-style-type: none"> • Digitalis • Diuretics 	• N/A
Field Treatment	<ul style="list-style-type: none"> • O2 • Cincinnati Stroke Scale (smile, grip, speak) • Glasgow Coma Scale (eyes, verbal, motor) 	<ul style="list-style-type: none"> • Cspine • ABCs • O2 	<ul style="list-style-type: none"> • Restraint (law enforcement help) • ABCs • O2 	<ul style="list-style-type: none"> • Protect from harm • Maintain airway (suction if necessary) • O2 	<ul style="list-style-type: none"> • Glucose • O2 • Glasgow Coma Scale (expect rapid improvement) 	<ul style="list-style-type: none"> • O2 • Glasgow Coma Scale 	<ul style="list-style-type: none"> • O2 • Aspirin • Nitroglycerin (3x 0.4mg) • Defibrillation 	<ul style="list-style-type: none"> • O2 • Aspirin • Nitroglycerin (3x 0.4mg) • Defibrillation 	<ul style="list-style-type: none"> • O2 • Position of comfort 	<ul style="list-style-type: none"> • O2 • Respiratory support
Definitive Treatment	<ul style="list-style-type: none"> • Thrombolytics for ischemic (w/i 3 hours) • Surgery for hemorrhagic 	<ul style="list-style-type: none"> • Surgery 	<ul style="list-style-type: none"> • Various 	<ul style="list-style-type: none"> • Reduce body temp • Dilantin • Phenobarbital 	<ul style="list-style-type: none"> • Glucose 	<ul style="list-style-type: none"> • Insulin • IV fluids 	<ul style="list-style-type: none"> • Thrombolytics • Angioplasty • O2 	<ul style="list-style-type: none"> • Angioplasty • Open heart surgery • O2 	<ul style="list-style-type: none"> • Digitalis • Diuretics • O2 	<ul style="list-style-type: none"> • Needle into pericardium to relieve pressure
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Pulmonary	Acute Pulmonary Edema	Emphysema (COPD)	Asthma (COPD)	Anaphylaxis	Hyper-ventilation	Mechanical Obstruction	Pulmonary Embolism	Pleural Effusion	Pneumothorax	Infectious Diseases
Cause	<ul style="list-style-type: none"> • Congestive Heart Failure • Poisons • Altitude (see HAPE) 	<ul style="list-style-type: none"> • Smoking/toxins • Elasticity reduction 	<ul style="list-style-type: none"> • Excessive mucous production • Swelling 	<ul style="list-style-type: none"> • Leukotrienes • Histamines 	<ul style="list-style-type: none"> • Stress • Acidosis • Hyperglycemia • Severe infection • Overdose of aspirin 	<ul style="list-style-type: none"> • Food or other object • Vomit 	<ul style="list-style-type: none"> • Activity followed by sedentary • Recent surgery • Overweight • Birth control • Fast diving ascent 	<ul style="list-style-type: none"> • Irritation of lung • Cancer • Infection • CHF 	<ul style="list-style-type: none"> • Spontaneous • Chronic lung infection • Born with weak areas of lung • Blunt Trauma • During diving ascent without air exchange 	<ul style="list-style-type: none"> • Bronchitis • Common Cold • Pneumonia • Diphtheria • Epiglottitis • Croup • SARS
Result	<ul style="list-style-type: none"> • Fluid build-up in lungs 	<ul style="list-style-type: none"> • Alveoli dilation • Alveoli holes 	<ul style="list-style-type: none"> • Bronchiole spasm 	<ul style="list-style-type: none"> • Systemic immune response 	<ul style="list-style-type: none"> • Rapid breathing 	<ul style="list-style-type: none"> • Blocked airway 	<ul style="list-style-type: none"> • Blockage from elsewhere (clot, air bubble, other) 	<ul style="list-style-type: none"> • Fluid outside lungs 	<ul style="list-style-type: none"> • Pleural space air 	<ul style="list-style-type: none"> • Dyspnea-causing infection
Red Flags	<ul style="list-style-type: none"> • Frothy, pink sputum • History of CHF • Muffled breath sounds 	<ul style="list-style-type: none"> • Chronic cough • Sputum • Rales, crackles, rhonchi, wheezing • History • Cigarette smoking 	<ul style="list-style-type: none"> • Wheezing upon exhalation • Inhaler • History 	<ul style="list-style-type: none"> • Allergens • Airway swelling • Urticaria (check stomach) • Wheezing • History • Epipen • Death in < 30 mins 	<ul style="list-style-type: none"> • Rapid breathing (20-40/min) • Tensing muscles 	<ul style="list-style-type: none"> • No air exchange • Inability to cough or speak • Recently eating or blunt trauma • Holding throat 	<ul style="list-style-type: none"> • Sudden onset • Immediate fatality 	<ul style="list-style-type: none"> • Decreased breath sounds • Sitting is position of comfort 	<ul style="list-style-type: none"> • Stabbing pain one side • Worse while breathing • Trachial deviation • Breath sounds absent one side 	<ul style="list-style-type: none"> • Depends on disease...see table page 370
Other S&S	<ul style="list-style-type: none"> • Dyspnea • Rapid / shallow respirations • Anxiety • Restlessness • Confusion 	<ul style="list-style-type: none"> • Hypoxia • Cyanosis • Accessory muscle use • Anxiety • Restlessness • Confusion • Unconsciousness 	<ul style="list-style-type: none"> • Hypoxia • Cyanosis • Accessory muscle use • Anxiety • Restlessness • Confusion • Respiratory arrest • Unconsciousness 	<ul style="list-style-type: none"> • Decreased BP • Initially increased pulse • Altered • Pale, cyanosis • Dizzy • Flushing • Headache 	<ul style="list-style-type: none"> • Anxiety • Dizziness • Numbness • Tingling • Dyspnea • Structural muscle contraction 	<ul style="list-style-type: none"> • Cyanosis 	<ul style="list-style-type: none"> • Acute chest pain • Hemoptysis • Cyanosis • Dyspnea • Tachypnea • Hypoxia • Anxiety • Restlessness • Confusion 	<ul style="list-style-type: none"> • Cardiac arrest • Anxiety • Restlessness • Confusion • Dyspnea 	<ul style="list-style-type: none"> • Cyanosis • Dyspnea 	<ul style="list-style-type: none"> • Dyspnea • Depends on disease...see table page 370
Common Medication	<ul style="list-style-type: none"> • Diuretics 	<ul style="list-style-type: none"> • Inhaler • O2 	<ul style="list-style-type: none"> • Albuterol (inhaler) • Benadryl 	<ul style="list-style-type: none"> • Epinephrine (Epipen) • Albuterol (inhaler) • Benadryl 	<ul style="list-style-type: none"> • N/A 	<ul style="list-style-type: none"> • N/A 	<ul style="list-style-type: none"> • N/A 	<ul style="list-style-type: none"> • N/A 	<ul style="list-style-type: none"> • N/A 	<ul style="list-style-type: none"> • Depends on disease...often antibiotics
Field Treatment	<ul style="list-style-type: none"> • O2 • Assist breathing • Suction • Position of comfort 	<ul style="list-style-type: none"> • O2 • Position of comfort • Inhaler 	<ul style="list-style-type: none"> • Inhaler • O2 • Suction • Position of comfort 	<ul style="list-style-type: none"> • Epinephrine • O2 • Diphenyl-hydramine • Elevate feet • Keep warm 	<ul style="list-style-type: none"> • Calm patient • O2 • Coach slower breathing 	<ul style="list-style-type: none"> • Remove blockage if visible • Suction • O2 • Chest compressions (30 in children) • Back blows & chest thrusts (5 ea infants) 	<ul style="list-style-type: none"> • O2 • Position of comfort 	<ul style="list-style-type: none"> • O2 • Position of comfort 	<ul style="list-style-type: none"> • O2 • Position of comfort • Occlusive dressing 	<ul style="list-style-type: none"> • O2 • Position of comfort
Definitive Treatment	<ul style="list-style-type: none"> • Diuretics • O2 	<ul style="list-style-type: none"> • Inhaler • O2 	<ul style="list-style-type: none"> • Inhaler • O2 	<ul style="list-style-type: none"> • Epinephrine • O2 	<ul style="list-style-type: none"> • Diagnose and treat cause • O2 	<ul style="list-style-type: none"> • Remove blockage • O2 	<ul style="list-style-type: none"> • Thrombolytics • Surgery • O2 	<ul style="list-style-type: none"> • Removal of fluid • O2 	<ul style="list-style-type: none"> • 	<ul style="list-style-type: none"> • O2 • Antibiotics • Antihistamines
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Acute Abdomen	Peritonitis	Colic	Ulcers	Cystitis	Pancreatitis	Aneurysm	Hernia	Appendicitis	Diverticulitis	Cholecystitis
Cause	<ul style="list-style-type: none"> Leakage of blood, pus, bile, pancreatic juice, or amniotic fluid into the peritoneal cavity 	<ul style="list-style-type: none"> Visceral peritoneum stimulated by distention or contraction of hollow organs 	<ul style="list-style-type: none"> Overactivity of the digestive juices 	<ul style="list-style-type: none"> Formation and passage of kidney stone 	<ul style="list-style-type: none"> Gallstone blocks outlet Alcohol abuse Other causes 	<ul style="list-style-type: none"> Weak area in aorta 	<ul style="list-style-type: none"> Rupture of a weak area (congenital, surgical, natural) in abdominal wall Frequently associated with heavy lifting 	<ul style="list-style-type: none"> Trapping of foreign material in appendix 	<ul style="list-style-type: none"> Trapping of small elements of food (i.e. seeds) in the digestive track 	<ul style="list-style-type: none"> Gallstones block outlet from the gallbladder
Result	<ul style="list-style-type: none"> Irritation of the peritoneum 	<ul style="list-style-type: none"> Severe, intermittent cramping pain 	<ul style="list-style-type: none"> Erosion of the stomach lining or duodenum, causing peritonitis 	<ul style="list-style-type: none"> Bladder infection 	<ul style="list-style-type: none"> Inflammation of the pancreas 	<ul style="list-style-type: none"> Ruptured aorta, causing acute peritonitis Severe back pain 	<ul style="list-style-type: none"> Protrusion of an organ or tissue through abdominal wall Can be strangulated 	<ul style="list-style-type: none"> Inflammation of the appendix Note that mittelschmerz can present similarly in women 	<ul style="list-style-type: none"> Inflammation of the small pouches in the large intestine, leading to pain, perforation, and severe peritonitis 	<ul style="list-style-type: none"> Severe inflammation of the gallbladder
Red Flags	<ul style="list-style-type: none"> Trauma to abdomen Pain starting off as diffuse, becoming sharp and localized Pain even when lying calm 	<ul style="list-style-type: none"> History Infant 	<ul style="list-style-type: none"> History 	<ul style="list-style-type: none"> Female History 	<ul style="list-style-type: none"> Curled up on one side 	<ul style="list-style-type: none"> Trauma to abdomen Pulsating mass in the abdomen Rapid, profound shock 	<ul style="list-style-type: none"> Lifting of heavy object History Bulging mass Site pain Tenderness on palpation Red or blue skin discoloration 	<ul style="list-style-type: none"> Pain starting off as diffuse, becoming sharp and localized lower right quadrant Rebound pain on palpation Drawn up right knee 	<ul style="list-style-type: none"> History 	<ul style="list-style-type: none"> History Pain in the right shoulder (referred) Severe pain up right quadrant
Other S&S	<ul style="list-style-type: none"> Acute abdominal pain Guarding Ileus Emesis Distention Anorexia Hypovolemic shock Tachycardia Hypotension 	<ul style="list-style-type: none"> Acute abdominal pain Guarding Ileus Emesis Distention Anorexia Hypovolemic shock Tachycardia Hypotension 	<ul style="list-style-type: none"> Acute abdominal pain Guarding Ileus Emesis Distention Anorexia Hypovolemic shock Tachycardia Hypotension 	<ul style="list-style-type: none"> Acute abdominal pain Guarding Ileus Emesis Distention Anorexia Hypovolemic shock Tachycardia Hypotension 	<ul style="list-style-type: none"> Acute abdominal pain Guarding Ileus Emesis Distention Anorexia Hypovolemic shock Tachycardia Hypotension 	<ul style="list-style-type: none"> Acute abdominal pain Guarding Ileus Emesis Distention Anorexia Hypovolemic shock Tachycardia Hypotension 	<ul style="list-style-type: none"> Acute abdominal pain Guarding Ileus Emesis Distention Anorexia Hypovolemic shock Tachycardia Hypotension 	<ul style="list-style-type: none"> Acute abdominal pain Guarding Ileus Emesis Distention Anorexia Hypovolemic shock Tachycardia Hypotension 	<ul style="list-style-type: none"> Fever Acute abdominal pain Guarding Ileus Emesis Distention Anorexia Hypovolemic shock Tachycardia Hypotension 	<ul style="list-style-type: none"> Fever Acute abdominal pain Guarding Ileus Emesis Distention Anorexia Hypovolemic shock Tachycardia Hypotension
Common Medication	• N/A	• N/A	• Antacids	• Antibiotics	• N/A	• N/A	• N/A	• N/A	• N/A	• N/A
Field Treatment	<ul style="list-style-type: none"> O2 Position of comfort 	<ul style="list-style-type: none"> O2 Position of comfort 	<ul style="list-style-type: none"> O2 Position of comfort 	<ul style="list-style-type: none"> O2 Position of comfort Drink lots of fluids 	<ul style="list-style-type: none"> O2 Position of comfort 	<ul style="list-style-type: none"> Handle gently Avoid unnecessary palpation O2 Position of comfort Treat for shock 	<ul style="list-style-type: none"> O2 Position of comfort 	<ul style="list-style-type: none"> O2 Position of comfort 	<ul style="list-style-type: none"> O2 Position of comfort 	<ul style="list-style-type: none"> O2 Position of comfort
Definitive Treatment	<ul style="list-style-type: none"> Surgery Antibiotics 	<ul style="list-style-type: none"> Liquid diet 	<ul style="list-style-type: none"> Antacid (Tagamet) 	<ul style="list-style-type: none"> Antibiotics 	<ul style="list-style-type: none"> Pain medication Determination of cause 	<ul style="list-style-type: none"> CT scan Surgery 	<ul style="list-style-type: none"> Surgery 	<ul style="list-style-type: none"> Removal by surgery 	<ul style="list-style-type: none"> Surgery 	<ul style="list-style-type: none"> Surgery
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Obstetrics	Placenta Previa	Placenta Abruptio	Spontaneous Abortion (Miscarriage)	Ectopic Pregnancy	Preeclampsia (Pregnancy Induced Hypertension)	Eclampsia	Supine Hypotensive Syndrome	Braxton-Hicks Contractions (False Labor)	Normal Birth	Pelvic Inflammatory Disease (PID)
Cause	<ul style="list-style-type: none"> Medical 	<ul style="list-style-type: none"> Trauma Medical 	<ul style="list-style-type: none"> Trauma Medical 	<ul style="list-style-type: none"> Egg implanted outside of uterus, usually in fallopian tube 	<ul style="list-style-type: none"> Pregnancy 	<ul style="list-style-type: none"> Extreme hypertension 	<ul style="list-style-type: none"> Supine posture causing uterus to compress inferior vena cava 	<ul style="list-style-type: none"> Unknown 	<ul style="list-style-type: none"> Unprotected sex 	<ul style="list-style-type: none"> Release of egg from the ovary
Result	<ul style="list-style-type: none"> Placenta develops on top of the cervix 	<ul style="list-style-type: none"> Placenta separates prematurely from the uterine wall 	<ul style="list-style-type: none"> Termination of pregnancy 	<ul style="list-style-type: none"> Non-viable pregnancy abortion 0.5% of all pregnancies Fallopian tube rupture 	<ul style="list-style-type: none"> Hypertension 	<ul style="list-style-type: none"> Seizures 	<ul style="list-style-type: none"> Low blood pressure 	<ul style="list-style-type: none"> Sensations similar to labor 	<ul style="list-style-type: none"> We're gonna have a baby 	<ul style="list-style-type: none"> Infection of the fallopian tubes and surrounding pelvic tissues
Red Flags	<ul style="list-style-type: none"> Pregnant Cannot see top of head when baby should be crowning 	<ul style="list-style-type: none"> Later stages of pregnancy 	<ul style="list-style-type: none"> Early stages of pregnancy 	<ul style="list-style-type: none"> Sexually active Missed menstrual cycle Low, sudden stabbing pain, usually unilateral History of ectopic pregnancy, tubal ligation, or pelvic inflammatory disease 	<ul style="list-style-type: none"> Pregnant Greater than 20 weeks along Usually first child 	<ul style="list-style-type: none"> Pregnant Seizure 	<ul style="list-style-type: none"> Pregnant Supine 	<ul style="list-style-type: none"> Contractions are not regular and do not increase in intensity Pain stays in the lower abdomen Activity or changing positions alleviates Any bloody show is brownish Leakage is usually urine and smells of ammonia 	<ul style="list-style-type: none"> Contraction increase in frequency and intensity Pain starts in lower back and wraps around Activity may intensify contractions. Shifting & activity to not eliminate Bloody show is pink or red with mucous Amniotic fluid smells sweet and may continue to leak 	<ul style="list-style-type: none"> Timing of menstruation Crippling lower abdominal pain Heavy menstrual flow
Other S&S	<ul style="list-style-type: none"> Vaginal bleeding 	<ul style="list-style-type: none"> Vaginal bleeding 	<ul style="list-style-type: none"> Vaginal bleeding 	<ul style="list-style-type: none"> Vaginal bleeding Massive internal bleeding 	<ul style="list-style-type: none"> Headache Seeing spots High BP Swelling in extremities Anxiety 	<ul style="list-style-type: none"> Elevated BP 	<ul style="list-style-type: none"> Low BP 	<ul style="list-style-type: none"> 	<ul style="list-style-type: none"> Vaginal bleeding Water draining (NOTE: If green, contains meconium and may compromise child's respiratory tract... expect resuscitation) 	<ul style="list-style-type: none"> Acute pain and tenderness in the lower abdomen High fever
Common Medication	<ul style="list-style-type: none"> N/A 	<ul style="list-style-type: none"> N/A 	<ul style="list-style-type: none"> N/A 	<ul style="list-style-type: none"> N/A 	<ul style="list-style-type: none"> High BP meds 	<ul style="list-style-type: none"> High BP meds 	<ul style="list-style-type: none"> N/A 	<ul style="list-style-type: none"> N/A 	<ul style="list-style-type: none"> N/A 	<ul style="list-style-type: none"> N/A
Field Treatment	<ul style="list-style-type: none"> Place on left side O2 	<ul style="list-style-type: none"> Place on left side O2 	<ul style="list-style-type: none"> Place on left side O2 	<ul style="list-style-type: none"> Place on left side O2 	<ul style="list-style-type: none"> Place on left side O2 	<ul style="list-style-type: none"> Place on left side O2 	<ul style="list-style-type: none"> Place on left side O2 	<ul style="list-style-type: none"> Place on left side, or move to position of comfort O2 	<ul style="list-style-type: none"> Place on left side (except when delivering) O2 10 questions Rupture sac Suction (especially if meconium) Clean nuchal cord Record time Stimulate Cut cord APGAR Massage fundus 	<ul style="list-style-type: none"> Position of comfort O2
Definitive Treatment	<ul style="list-style-type: none"> C-section delivery Abortion 	<ul style="list-style-type: none"> C-section delivery 	<ul style="list-style-type: none"> DNC 	<ul style="list-style-type: none"> Surgery 	<ul style="list-style-type: none"> Early delivery if not controllable by BP meds 	<ul style="list-style-type: none"> Early delivery if not controllable by BP meds 	<ul style="list-style-type: none"> Move from supine posture 	<ul style="list-style-type: none"> Send home 	<ul style="list-style-type: none"> Delivery 	<ul style="list-style-type: none"> Pain medication
Book Page	<ul style="list-style-type: none"> 603 	<ul style="list-style-type: none"> 603 	<ul style="list-style-type: none"> 603 	<ul style="list-style-type: none"> 469, 603 	<ul style="list-style-type: none"> 603 	<ul style="list-style-type: none"> 603 	<ul style="list-style-type: none"> 603 	<ul style="list-style-type: none"> 602 	<ul style="list-style-type: none"> 602 	<ul style="list-style-type: none"> 469

5 of 8	DRUGS	DRUGS	DRUGS	DRUGS	DRUGS	DRUGS	DRUGS	DRUGS	DRUGS	DRUGS
Drugs & Substance Abuse	Alcohol	Marijuana	Hallucinogens	Abused Inhalants	Opioids	Sympatho-mimetics	Sedative-hypnotics	Anticholinergics	Cholinergics	Other Drugs
Cause	<ul style="list-style-type: none"> Alcoholic beverages 	<ul style="list-style-type: none"> Cannabis Sativa 	<ul style="list-style-type: none"> LSD, PCP, Angel Dust, & Phencyclidine 	<ul style="list-style-type: none"> Acetone, toluene, xylene, hexane, cleaning compounds, paint thinners, laquers, Freon, gasoline, and aerosols. 	<ul style="list-style-type: none"> From opium in poppy seeds (heroin, codeine, morphine). Also Demerol, Darvon, Percocet, OxyContin, Vicodin, and methadone. 	<ul style="list-style-type: none"> Amphetamine, methamphetamine, Benzedrine, caffeine, theophylline, phenylprop-anolamine, Ecstasy, Eve & Coke 	<ul style="list-style-type: none"> Barbituates & benzodiazepines 	<ul style="list-style-type: none"> Atropine, diphenhydramine (Benadryl), Jimson weed, certain tricyclic antidepressants, Prozac, and Zoloft 	<ul style="list-style-type: none"> Nerve gas Organophosphate fertilizers Wild mushrooms 	<ul style="list-style-type: none"> Aspirin Acetaminophen Methyl alcohol & ethylene glycol Food poisoning Plant poisoning
Result	<ul style="list-style-type: none"> Powerful CNS depression Hypnotic (induces sleep) Impairs ability to think and function rationally 	<ul style="list-style-type: none"> Hallucinogen Perception alternation / euphoria 	<ul style="list-style-type: none"> Hallucinogen Perception alteration 	<ul style="list-style-type: none"> CNS depression 	<ul style="list-style-type: none"> CNS depression 	<ul style="list-style-type: none"> CNS stimulation (effects last less than 1 hour) 	<ul style="list-style-type: none"> CNS depression 	<ul style="list-style-type: none"> Hot as a hare, blind as a bat, dry as a bone, red as a beet, and mad as a hatter" Blocked parasympathetic nerves 	<ul style="list-style-type: none"> Overstimulated parasympathetic nerves (salivation, mucous secretion, urination, crying, abnormal heart rate) 	<ul style="list-style-type: none"> Various (see below)
Red Flags	<ul style="list-style-type: none"> Bottles Breath Dull sense of awareness, slow reflexes, slow reactions Lack of coordination Aggressive behavior Delerium tremens (in withdrawal) 	<ul style="list-style-type: none"> Baggie or butts Euphoria Relaxation Drowsiness Short term memory loss Poor sense of time 	<ul style="list-style-type: none"> Severe behavior changes (often with self-injury) Visual hallucinations Acute vision & hearing senses "Bad Trip" fear 	<ul style="list-style-type: none"> Inhalants Seizures Ventricular fibrillation 	<ul style="list-style-type: none"> Severe respiratory depression "High" or "Kick" Rapid tolerance development Decreased respiratory rate & tidal volume 	<ul style="list-style-type: none"> Paranoia Illusions Nose bleeds Tracks Paraphernalia Extremely addictive 	<ul style="list-style-type: none"> Pills (normally taken by mouth) Rapid tolerance development Marked respiratory depression (often used for suicide, date rape) 	<ul style="list-style-type: none"> Usually not abused, but overdosed Rapid transition (30 min) from "normal" to seizure and death 	<ul style="list-style-type: none"> DUMBELS (defecation, urination, miosis, brochorrhea, emesis, lacrimation, salivation) SLUDGE (salivation, lacrimation, urination, defecation, GI irritation, eye constriction / emesis) 	<ul style="list-style-type: none"> Aspirin – nausea, vomit, hyperventilation, ringing in ears, anxiety, confusion, tachypnea, hyperthermia, seizures Acetaminophen – liver failure 1 week later Methyl alcohol & ethylene glycol – tachypnea, blindness, renal failure, death
Other S&S	<ul style="list-style-type: none"> Altered Hypoglycemia Emesis & hematemesis Hypoperfusion Internal bleeding With DTs: Fever, sweating, confusion, delusions, agitation, and seizures Breathing cessation Death 	<ul style="list-style-type: none"> Depression Confusion Anxiety / panic Hallucination 	<ul style="list-style-type: none"> Hypertension Tachycardia Anxiety Paranoia 	<ul style="list-style-type: none"> Drowsiness Coma 	<ul style="list-style-type: none"> Altered/sedated Cyanotic Pinpoint pupils Hypotension Coma 	<ul style="list-style-type: none"> Hypertension (up to 250/150) Tachycardia Dilated pupils Suppressed appetite Wide awake Irritability Anxiety / fear Lack of concentration / disorganized Seizures Cardiac arrhythmia Stroke 	<ul style="list-style-type: none"> Altered LOC (drowsy, peaceful, intoxicated) Cardiac arrest 	<ul style="list-style-type: none"> Similar to sympathomimetics Agitated Tachycardia Dilated pupils Cardiac arrhythmia 	<ul style="list-style-type: none"> Bradycardia or tachycardia 	<ul style="list-style-type: none"> Various (see above)
Common Medication	• N/A	• N/A	• N/A	• N/A	• N/A	• N/A	• N/A	• N/A	• N/A	• Aspirin • Acetaminophen
Field Treatment	<ul style="list-style-type: none"> Respiratory support (watch for vomiting) Gently arouse O2 Treat for shock Calm & reassure 	<ul style="list-style-type: none"> Suspect mixing with other drugs O2 Reassure 	<ul style="list-style-type: none"> Calm patient Monitor closely O2 Restraint (law enforcement) 	<ul style="list-style-type: none"> Calm patient Minimize exertion (adrenaline release that could cause arrhythmia) O2 	<ul style="list-style-type: none"> Airway O2 Watch for inappropriate resuscitation by colleagues Activated Charcoal 800-222-1222 	<ul style="list-style-type: none"> Restraint (law enforcement) O2 Activated Charcoal 800-222-1222 	<ul style="list-style-type: none"> Respiratory assistance (watch for vomiting) Gently arouse O2 Activated Charcoal 800-222-1222 	<ul style="list-style-type: none"> O2 Activated Charcoal 800-222-1222 	<ul style="list-style-type: none"> Avoid exposure Decontaminate Suction & provide airway support Activated Charcoal 800-222-1222 	<ul style="list-style-type: none"> Determine cause / medication and alert hospital personnel O2 ABCs Activated Charcoal 800-222-1222
Definitive Treatment	• Dry out	• Possible sedation & restraints	• Possible sedation & restraints	• O2	• Narcotic antagonists (Narcan) – 2 minute reaction	• Antagonists	• IV Flumazenil for benzodiazepine	• IV physostigmine • IV sodium bicarbonate	• Atropine	• Various
Book Page	• 528	• 532	• 532	• 530	• 529	• 531	• 530	• 532	• 533	• 533

6 of 8	ENVIRONMENTAL	ENVIRONMENTAL	ENVIRONMENTAL	ENVIRONMENTAL	ENVIRONMENTAL	ENVIRONMENTAL	ENVIRONMENTAL	ENVIRONMENTAL	ENVIRONMENTAL	ENVIRONMENTAL
Environment (1 of 2)	Frostbite	Hypothermia	Heat Cramps	Heat Exhaustion (Prostration, Collapse)	Heat Stroke	Drowning	Decompression Sickness (The Bends)	Lightning / High Voltage	Sunburn, Windburn, Snow Blindness	Dehydration
Cause	<ul style="list-style-type: none"> Wet conditions Hypothermia Poor nutrition 	<ul style="list-style-type: none"> Improperly clothed Alcohol & drugs Cold, wind, water Diabetes, age, or fatigue 	<ul style="list-style-type: none"> Not well understood (electrolyte imbalance) Alcohol, drugs, meds, age, diabetes, dehydration & obesity 	<ul style="list-style-type: none"> Water and electrolyte loss Alcohol, drugs, meds, age, diabetes, dehydration & obesity 	<ul style="list-style-type: none"> More heat than body can handle Alcohol, drugs, meds, age, diabetes, dehydration & obesity 	<ul style="list-style-type: none"> Panic in water 	<ul style="list-style-type: none"> Rapid underwater ascent Ascending mountains or flying after diving 	<ul style="list-style-type: none"> High voltage power 	<ul style="list-style-type: none"> Solar radiation Low humidity & wind 	<ul style="list-style-type: none"> Fluid losses exceed intake Excessive exercise, respiration or sweating Vomit & diarrhea (esp. in children) Insufficient intake of fluids & electrolytes
Result	<ul style="list-style-type: none"> Frostnip – Superficial Frostbite – Frozen skin & underlying tissue Trench (immersion) foot Gangrene – Dead tissue 	<ul style="list-style-type: none"> Core temperature drop Mild 90-95, Severe <90 Acute < 1 hr, Subacute 1-24 hrs, Chronic > 24 hrs Eventually death 	<ul style="list-style-type: none"> Painful muscle spasms 	<ul style="list-style-type: none"> Hypovolemic shock 	<ul style="list-style-type: none"> Rapid body temp rise (to 106 degrees or more) to the point tissue is destroyed Untreated, it always results in death 	<ul style="list-style-type: none"> Aspiration Laryngospasm Breath-holding syncope (see AAOS EMT-B page 567) 	<ul style="list-style-type: none"> Nitrogen bubbles in the bloodstream 	<ul style="list-style-type: none"> Respiratory control brain injury Cardiovascular and nervous system injury Cardiac arrest Pain, paralysis, blindness, numbness, weakness Deep burns Fall injuries Kidney injury 	<ul style="list-style-type: none"> 1st & 2nd degree burns Temporary blindness 	<ul style="list-style-type: none"> Insufficient water in the body Electrolyte imbalance
Red Flags	<ul style="list-style-type: none"> Blisters Leathery & thick to hard & waxy skin 	<ul style="list-style-type: none"> Cold environment (doesn't have to be freezing) Mild – Shivering; rapid pulse & respirations; red, pale, or cyanotic skin Severe – Stiff muscles; no shivering; all vitals slow 	<ul style="list-style-type: none"> Painful cramps, usually in lower extremities or abdomen After vigorous exercise in hot environment 	<ul style="list-style-type: none"> Onset while working hard in hot environment (or at rest for infants/aged) Dry tongue / thirst Elevated temp (>104F) 	<ul style="list-style-type: none"> Vigorous physical activity Outdoors in heat In closed, poorly ventilated, humid space 	<ul style="list-style-type: none"> Recovered from water Choking, coughing, or unresponsive Not breathing or can't ventilate 	<ul style="list-style-type: none"> Severe abdominal or joint pain within 24-48 hrs of diving (vs air embolism which happens immediately...see pulmonary embolism) 	<ul style="list-style-type: none"> Deep burns Thunderhead or exposed wires Arrhythmia Nerve damage Massive muscle spasms Fractured bones Tingling 	<ul style="list-style-type: none"> History of sun, wind, or snow exposure 1st & 2nd degree burns "Sand in the eye" 	<ul style="list-style-type: none"> Mild: dry lips & gums; decreased saliva & urination; slow reactions Severe: very dry lips & gums; sunken eyes; sleepy or irritable; skin turgor; mottled, cool, clammy skin
Other S&S	<ul style="list-style-type: none"> Mild tingling followed by numbness Blue, grey or yellow skin Slow cap refill 	<ul style="list-style-type: none"> Weakness Altered Dilated pupils Blue/puffy Young, old, and ill patients 	<ul style="list-style-type: none"> Sweaty 	<ul style="list-style-type: none"> Cold / clammy skin Excessive sweating Dizziness, weakness, faintness Normal vitals (pulse rapid, diastolic low) 	<ul style="list-style-type: none"> Altered, becoming unresponsive (often the first sign of heat stroke) Pulse rapid / strong, then crashes Hot, dry, flushed skin (after moist and wet) 	<ul style="list-style-type: none"> Cyanotic Bradycardia Cold 	<ul style="list-style-type: none"> Altered or loss of consciousness Amnesia Confusion Seizures Respiratory or cardiac arrest 	<ul style="list-style-type: none"> Eye redness 	<ul style="list-style-type: none"> Delayed cap refill Increased respirations & pulse Weak or unresponsive Infants overcome in a matter of hours Shock Death 	
Common Medication	• N/A	• N/A	• N/A	• N/A	• N/A	• N/A	• N/A	• N/A	• N/A	• N/A
Field Treatment	<ul style="list-style-type: none"> Remove from cold Remove wet & constricting clothing Handle gently Immerse in 100-112F water Apply dry dressings Splint O2 	<ul style="list-style-type: none"> Stop further heat loss Remove wet clothing Treat gently Hydrate (warm, sweet) Treat injuries & splint O2 Rewarm only mild and if will not refreeze Keep working: "Not dead until warm and dead" 	<ul style="list-style-type: none"> Remove from heat Rest the cramping muscles Rehydrate with electrolyte solution O2 	<ul style="list-style-type: none"> Remove excess clothing Move out of hot environment O2 Shock position Drink electrolytes Transport on side 	<ul style="list-style-type: none"> Remove from heat Max A/C Remove clothing O2 Ice packs Cover w/ wet towels Fan 	<ul style="list-style-type: none"> Remove from water (reach, throw, tow, go) ABC's C-spine (if diving) CPR & ventilations as needed O2 Keep warm 	<ul style="list-style-type: none"> Remove from water ABC's O2 Left lateral recumbent, head down 	<ul style="list-style-type: none"> Move to safe area C-spine ABC's AED / CPR O2 	<ul style="list-style-type: none"> Saline Cover both eyes 	<ul style="list-style-type: none"> ABCs Vitals If conscious, intake of fluids by mouth slowly enough to avoid nausea. NOTE: Fluids should ideally contain electrolytes...solely water can cause further issues O2
Definitive Treatment	<ul style="list-style-type: none"> Rewarm O2 	<ul style="list-style-type: none"> Rewarming IV fluids O2 	<ul style="list-style-type: none"> IV fluids Cooling 	<ul style="list-style-type: none"> IV fluids Cooling 	<ul style="list-style-type: none"> IV fluids Cooling 	<ul style="list-style-type: none"> Positive pressure ventilations Diuretics 	<ul style="list-style-type: none"> Recompression in hyperbaric chamber O2 	<ul style="list-style-type: none"> Monitor IV fluids O2 	<ul style="list-style-type: none"> Eye drops 	<ul style="list-style-type: none"> IV fluids & electrolytes
Book Page	•552	•546	•554	•555	•557	•560	•564	•568	•OEC Book	•682, 978

7 of 8	ALTITUDE	ALTITUDE	ALTITUDE	VENOM	VENOM	VENOM	VENOM	VENOM	VENOM	POISON
Environment (2 of 2)	Acute Mountain Sickness (AMS)	High Altitude Pulmonary Edema (HAPE)	High Altitude Cerebral Edema (HACE)	Spider	Snake	Scorpions	Tick Bites	Marine Animals (Coelenterates)	Marine Animals (Rays, Spiny Fish)	Other Poisoning
Cause	<ul style="list-style-type: none"> Each 1000' up, -3.5F temp, -20mm Hg, +5% in solar radiation 	<ul style="list-style-type: none"> Each 1000' up, -3.5F temp, -20mm Hg, +5% in solar radiation 	<ul style="list-style-type: none"> Each 1000' up, -3.5F temp, -20mm Hg, +5% in solar radiation 	<ul style="list-style-type: none"> Black Widow Brown Recluse 	<ul style="list-style-type: none"> Pit vipers (rattlesnakes, copperheads, cottonmouths) Coral snake 	<ul style="list-style-type: none"> Scorpion 	<ul style="list-style-type: none"> Tick 	<ul style="list-style-type: none"> Coelenterates (fire coral, Portuguese man-of-war, sea wasp, sea nettles, jellyfish, anemones & coral) 	<ul style="list-style-type: none"> Urchins, stingrays, lionfish, scorpionfish & stonefish 	<ul style="list-style-type: none"> Unlimited
Result	<ul style="list-style-type: none"> Hypoxia Fluid retention Increased cerebral blood flow, plasma leaking from capillaries 	<ul style="list-style-type: none"> Increased pulmonary artery pressure from vessel contraction Lung capillary damage High-pressure shunts open in lungs 	<ul style="list-style-type: none"> Bleeding in the skull, increased pressure on the brain 	<ul style="list-style-type: none"> Black Widow – neurotoxic Brown Recluse – cytotoxic (local tissue damage) 	<ul style="list-style-type: none"> Local tissue destruction Interruption of body's clotting mechanism (remote bleeding) Coral snake "red on yellow kill fellow, red on black vein lack" 	<ul style="list-style-type: none"> Toxic sting 	<ul style="list-style-type: none"> Rocky Mountain Spotted Fever Lyme Disease Spread through tick saliva 	<ul style="list-style-type: none"> Nematocysts 	<ul style="list-style-type: none"> Heat-sensitive toxins 	<ul style="list-style-type: none"> Unlimited
Red Flags	<ul style="list-style-type: none"> Recent significant change of altitude, or extreme altitude 	<ul style="list-style-type: none"> Recent significant change of altitude, or extreme altitude Respiratory distress made worse by exertion Pink sputum 	<ul style="list-style-type: none"> Extreme altitude Ataxia (trouble maintaining balance) 	<ul style="list-style-type: none"> Black Widow – numbness at site or localized pain and spasms Brown Recluse – not painful at first, but becomes so, large ulcer develops 	<ul style="list-style-type: none"> Fang marks Severe burning at the site followed by swelling, ecchymosis Coral snake – paralysis 	<ul style="list-style-type: none"> Very painful sting Localized swelling and discoloration 	<ul style="list-style-type: none"> Rocky Mountain Spotted Fever – within 7-10 days nausea, vomiting, headache, weakness, paralysis, cardiorespiratory collapse Lyme Disease – rash within 3 days, bullseye, joint pain 	<ul style="list-style-type: none"> Painful, reddish lesions 	<ul style="list-style-type: none"> 	<ul style="list-style-type: none"> Various
Other S&S	<ul style="list-style-type: none"> Headache Breathless Lightheaded Dyspnea Fatigue Nausea & vomit Apathy Insomnia No appetite Pale/fill look Poor urine output Edema of ankles 	<ul style="list-style-type: none"> Dry cough Mild chest pain Decrease in ability to exercise Cyanosis Rapid pulse & respiration Gurgling & crackling sounds 	<ul style="list-style-type: none"> All of AMS plus altered 	<ul style="list-style-type: none"> Black Widow – abdomen bite causes severe abdominal cramps, dizziness, sweating, nausea, vomit, rashes, tightness in chest, rigid abdomen Brown Recluse – site swollen, tender, mottled / pale / cyanotic center 	<ul style="list-style-type: none"> Weakness, sweating, fainting (immediately), shock (later) 	<ul style="list-style-type: none"> Centruroides sculpturatus – severe systemic reaction, circulatory collapse, severe muscle contractions, excessive salivation, hypertension, convulsions, cardiac failure 	<ul style="list-style-type: none"> 	<ul style="list-style-type: none"> Headache Dizziness Muscle cramps Fainting Sometimes anaphylactic shock 	<ul style="list-style-type: none"> 	<ul style="list-style-type: none"> Various
Common Medication	<ul style="list-style-type: none"> N/A 	<ul style="list-style-type: none"> N/A 	<ul style="list-style-type: none"> N/A 	<ul style="list-style-type: none"> N/A 	<ul style="list-style-type: none"> N/A 	<ul style="list-style-type: none"> N/A 	<ul style="list-style-type: none"> N/A 	<ul style="list-style-type: none"> N/A 	<ul style="list-style-type: none"> N/A 	<ul style="list-style-type: none"> N/A
Field Treatment	<ul style="list-style-type: none"> Position of comfort O2 Keep warm Avoid exertion Eat/drink Aspirin Gamow bag 	<ul style="list-style-type: none"> Position of comfort O2 Keep warm Avoid exertion Eat/drink Aspirin Gamow bag 	<ul style="list-style-type: none"> Position of comfort O2 Keep warm Avoid exertion Eat/drink Aspirin Gamow bag 	<ul style="list-style-type: none"> Respiratory support O2 Bring (dead) spider 	<ul style="list-style-type: none"> Use caution to avoid getting bit Calm patient Respiratory support Wash and mark bite site Sterile dressing Splint Treat for shock O2 Bring (dead) snake 	<ul style="list-style-type: none"> Respiratory support O2 Bring (dead) spider 	<ul style="list-style-type: none"> Tick removal Cleanse with disinfectant Bring (dead) tick 	<ul style="list-style-type: none"> Avoid exposure Remove from water Vinegar Scrape with credit card Hot water immersion for 30 mins for pain 	<ul style="list-style-type: none"> Avoid exposure Remove from water Vinegar Scrape with credit card Immobilize Hot water immersion for 30 mins for dramatic relief of pain 	<ul style="list-style-type: none"> Activated Charcoal Identify toxin Respiratory support 800-222-1222
Definitive Treatment	<ul style="list-style-type: none"> Descend 	<ul style="list-style-type: none"> Descend 	<ul style="list-style-type: none"> Descend 	<ul style="list-style-type: none"> Antivenin Spasms treated with IV benzodiazepines (Valium, Ativan) Pain relief 	<ul style="list-style-type: none"> Antivenin 	<ul style="list-style-type: none"> Antivenin 	<ul style="list-style-type: none"> Antibiotics 	<ul style="list-style-type: none"> Antivenin 	<ul style="list-style-type: none"> Tetanus treatment 	<ul style="list-style-type: none"> Various
Book Page	<ul style="list-style-type: none"> OEC / C. Hargrove 	<ul style="list-style-type: none"> OEC / C. Hargrove 	<ul style="list-style-type: none"> OEC / C. Hargrove 	<ul style="list-style-type: none"> 539 	<ul style="list-style-type: none"> 570 	<ul style="list-style-type: none"> 573 	<ul style="list-style-type: none"> 574 	<ul style="list-style-type: none"> 574 	<ul style="list-style-type: none"> 575 	<ul style="list-style-type: none"> N/A

8 of 8	ENVIRONMENTAL	INFECTION	PEDIATRICS	BURNS	DROWNING	CHILD REN	CHILDREN	CHILDREN	CHILDREN	ELDERLY
PRIMARILY PEDIATRICS	Swimmer's Ear	Meningitis	Febrile Seizure	Burns	Drowning & Near Drowning	Child Abuse	SIDS (Sudden Infant Death Syndrome)	Shaken Baby Syndrome	Croup & Epiglottitis	Osteoporosis
Cause	<ul style="list-style-type: none"> Water in ear 	<ul style="list-style-type: none"> Infection (by bacteria, fungi, viruses, or parasites) of meninges (tissues that cover spinal cord and brain) 	<ul style="list-style-type: none"> Rapid rise in temperature Meningitis 	<ul style="list-style-type: none"> 	<ul style="list-style-type: none"> Submersion 	<ul style="list-style-type: none"> 	<ul style="list-style-type: none"> Unknown Leading cause of death in infants < 1 year 	<ul style="list-style-type: none"> Intentional or forcible shaking of child 	<ul style="list-style-type: none"> Croup – infection of the airway below the vocal cords Epiglottitis – infection of the soft tissue above the vocal cords 	<ul style="list-style-type: none"> Calcium imbalance Age Sex (female)
Result	<ul style="list-style-type: none"> Infection 	<ul style="list-style-type: none"> Inflammation of meninges 	<ul style="list-style-type: none"> Generalized tonic-clonic seizure lasting less than 15 minutes 		<ul style="list-style-type: none"> Lack of Oxygen 	<ul style="list-style-type: none"> Physical abuse Sexual abuse Neglect Emotional Abuse 	<ul style="list-style-type: none"> Death that remains unexplained after complete autopsy 	<ul style="list-style-type: none"> Bleeding within the head and damage to the cervical spine Form of child abuse 	<ul style="list-style-type: none"> 	<ul style="list-style-type: none"> Bone density loss
Red Flags	<ul style="list-style-type: none"> History of swimming White or yellow discharge Ear pain Partial deafness 	<ul style="list-style-type: none"> Males; newborn infants; older people; weakened immune systems; history of brain, spinal cord, or back surgery; children with head trauma; children with foreign bodies in spine or brain Seizure in children Infants <2-3 months cyanosis, apnea, fever, hypothermia, bulging fontanel, refusal to curl into C, irritability when handled Pain accompanying movement (esp bending head forward or back) Small, pinpoint, cherry-red spots or larger purple/black rash 	<ul style="list-style-type: none"> Infant 6 months to 6 years old High temperature with quick onset Vomit Prior febrile seizure 	<ul style="list-style-type: none"> Children: Minor= Partial thickness <10%, Moderate= Partial thickness 10-20%, Critical= Any full thickness, any partial thickness > 20%, any critical areas 	<ul style="list-style-type: none"> 	<ul style="list-style-type: none"> Injury not typical of child's stage of development Inconsistent with parental report Caregiver's behavior Multiple injuries at different healing stages Environment (drugs, etc) Rectal or vaginal bleeding Delay in seeking help Relationship with parents Unusual marks or bruises (i.e. cigarette burns) Hand or foot "glove" burns Unexplained decreased LOC Child not clean, appropriate weight or height 	<ul style="list-style-type: none"> Mother younger than 20 Mother smoked during pregnancy Low birth weight 	<ul style="list-style-type: none"> 	<ul style="list-style-type: none"> Seal bark (croup) 	<ul style="list-style-type: none"> Female Aged (postmenopausal)
Other S&S	<ul style="list-style-type: none"> 	<ul style="list-style-type: none"> Fever Altered LOC, confusion, inability to understand Severe headache Lethargy Permanent brain damage Death 	<ul style="list-style-type: none"> Less than 15 minutes Short or no postictal state 	<ul style="list-style-type: none"> 	<ul style="list-style-type: none"> Cardiac arrest Respiratory difficulty Coma Hypothermia 	<ul style="list-style-type: none"> 	<ul style="list-style-type: none"> 	<ul style="list-style-type: none"> Cessation of breathing Unconscious, often without sign of external trauma 	<ul style="list-style-type: none"> Fever, cold symptoms Drizzling Decreased or absent breath sounds Stridor (upper airway) Wheezing or crackles (lower airway) Ineffective cough Inability to speak / cry Increasing respiratory difficulty Cyanosis Loss of consciousness 	<ul style="list-style-type: none">
Common Medication	<ul style="list-style-type: none"> N/A 	<ul style="list-style-type: none"> N/A 	<ul style="list-style-type: none"> N/A 	<ul style="list-style-type: none"> 	<ul style="list-style-type: none"> 	<ul style="list-style-type: none"> 	<ul style="list-style-type: none"> 	<ul style="list-style-type: none"> 	<ul style="list-style-type: none"> N/A 	<ul style="list-style-type: none">
Field Treatment	<ul style="list-style-type: none"> Several drops vinegar 1/2 diluted w/ water or rubbing alcohol 	<ul style="list-style-type: none"> BSI precautions (contagious) 	<ul style="list-style-type: none"> 	<ul style="list-style-type: none"> 	<ul style="list-style-type: none"> 	<ul style="list-style-type: none"> 	<ul style="list-style-type: none"> Assessment and mgmt of patient Communication and support of family Assessment of scene 	<ul style="list-style-type: none"> 	<ul style="list-style-type: none"> Encourage coughing O2 Position of comfort 	<ul style="list-style-type: none">
Definitive Treatment	<ul style="list-style-type: none"> 2% acetic acid in propylene glycol drops 	<ul style="list-style-type: none"> Antibiotics 	<ul style="list-style-type: none"> 	<ul style="list-style-type: none"> 	<ul style="list-style-type: none"> 	<ul style="list-style-type: none"> 	<ul style="list-style-type: none"> Autopsy 	<ul style="list-style-type: none"> 	<ul style="list-style-type: none"> 	<ul style="list-style-type: none">
Book Page	<ul style="list-style-type: none"> OEC Book 	<ul style="list-style-type: none"> 922 	<ul style="list-style-type: none"> 451, 923 	<ul style="list-style-type: none"> 927 	<ul style="list-style-type: none"> 927 	<ul style="list-style-type: none"> 927 	<ul style="list-style-type: none"> 930 	<ul style="list-style-type: none"> 928 	<ul style="list-style-type: none"> 	<ul style="list-style-type: none"> 1000