

N433 Care Plan #1

Lakeview College of Nursing

Taylor Sullivan

**Demographics (3 points)**

<b>Date of Admission</b> 10-1-20	<b>Patient Initials</b> CC	<b>Age (in years &amp; months)</b> 45 days	<b>Gender</b> M
<b>Code Status</b> Full	<b>Weight (in kg)</b> 4.62	<b>BMI</b> 17.9	<b>Allergies/Sensitivities (include reactions)</b> NKA

**Medical History (5 Points)**

**Past Medical History: Cystic fibrosis – 3 days old**

**Illnesses: None**

**Hospitalizations: None**

**Past Surgical History: None**

**Immunizations: Not up to date**

**Birth History: Born full term at 37 weeks 3 days by spontaneous vaginal delivery**

**Complications (if any): None**

**Assistive Devices: None**

**Living Situation: At home with mom, grandma, maternal uncle, no one in the home smokes**

**Admission Assessment**

**Chief Complaint (2 points): Respiratory distress and recurrent vomiting**

**Other Co-Existing Conditions (if any): Cystic Fibrosis**

**Pertinent Events during this admission/hospitalization (1 points): None**

**History of present Illness (10 points): Client has a history of cystic fibrosis. Presented to the ED with respiratory distress and recurrent vomiting. Clients mother reported the client had a “dry, wheezy” cough followed by an emesis described as “projectile, green/yellow,**

**foamy, with presence of formula and mucus in it.” This occurred 15-30 minutes after a feed. No presence of blood was noted. Client has shown a decrease in feedings since the weekend. Approximately 1-3 oz every 2-4 hours, previously it was 4-7 oz. Client was on Enfamil gentlease and switched to neuropro when vomiting worsened on Monday. Tested COVID 19 negative on Monday. Outside of facility chest x-ray showed no abnormalities, and abdominal x-ray showed CF associated with no obstruction. Client has had normal wet dippers, bowel movements are “orange/green.” Client is on pancreatic enzymes. Denies fever, chills, recent illness, or sick contacts**

#### **Primary Diagnosis**

**Primary Diagnosis on Admission (2 points): Respiratory distress and Recurrent vomiting**

**Secondary Diagnosis (if applicable): None**

**Pathophysiology of the Disease, APA format (20 points): Cystic Fibrosis is a CFTR mutation that causes alterations in epithelia ion transport on mucosal surfaces, resulting in generalized dysfunction of the exocrine glands. This results in thickened, tenacious secretions in the sweat glands, gastrointestinal tract, pancreas, respiratory tract, and other exocrine tissues. The increased viscosity of these secretions makes them difficult to clear. The sweat glands produce a larger amount of chloride leading to a salty taste in the skin and alterations in electrolyte balance and dehydration. The pancreas intrahepatic bile ducts intestinal glands gall bladder in submaxillary glands become obstructed by viscous mucus and eosinophilic material. Pancreatic enzymes activity is lost in malabsorption of fats proteins and carbohydrates occurs resulting in poor growth and large malodorous stools. Excess mucus is produced by the tracheal bronchial glands. Abnormally thick**

**mucus plugs the small Airways and then bronchiolitis and further plugging of the air ways occurs.**

**Pathophysiology References (2) (APA):**

**Ricci, S. S., Kyle, T., & Carman, S. (2017). *Maternity and pediatric nursing*. Wolters Kluwer.**

**Active Orders (2 points)**

<b>Order(s)</b>	<b>Comments/Results/Completion</b>
<b>Activity:</b>	<b>Ad lib</b>
<b>Diet/Nutrition:</b>	<b>Enfamil neuropro standard, some breast milk, ad lib 10-12 feedings</b>
<b>Frequent Assessments:</b>	<b>Asceses Q4 Vitals Q\$</b>
<b>Labs/Diagnostic Tests:</b>	<b>No new orders</b>
<b>Treatments:</b>	<b>IV antibiotics, Albuterol, Ancef, Creon</b>
<b>Other:</b>	
<b>New Order(s) for Clinical Day</b>	
<b>Order(s)</b>	<b>Comments/Results/Completion</b>
<b>None</b>	

**Laboratory Data (15 points)**

**CBC Highlight All Abnormal Labs**—Explanations must be in complete sentences and contain in-text citations in APA format.

Lab	Normal Range (specific to the age of the child)	Admission or Prior Value 10-1-20	Today's Value	Reason for Abnormal Value
RBC	3.02 – 4.22	3.43		
Hgb	8.9 – 12.7	11.4		
Hct	26.8 – 37.5	33.6		
Platelets	229 – 562	569		CF – these clients have an increased number of circulating platelets
WBC	8.14 – 14.99	13.86		
Neutrophils				
Lymphocytes				
Monocytes				
Eosinophils				
Basophils				
Bands				

**Chemistry Highlight All Abnormal Labs**—Explanations must be in complete sentences and contain in-text citations in APA format.

Lab	Normal Range	Admission or Prior Value 10-1-20	Today's Value	Reason For Abnormal
Na-	136 -145	139		

<b>K+</b>	3.5 – 5.1	5		
<b>Cl-</b>	98 - 107	106		
<b>Glucose</b>	60 – 99	103		<b>CF – pancreas may not be properly working</b>
<b>BUN</b>	7 – 18	8		
<b>Creatinine</b>	0.70 – 1.30	<0.15		<b>CF – declined hepatic function</b>
<b>Albumin</b>	3.4 – 5	2.7		<b>Recurrent vomiting</b>
<b>Total Protein</b>	6.4 – 8.2	5.9		<b>Recurrent vomiting</b>
<b>Calcium</b>	8.5 – 10.1	10.4		<b>CF – improper digestion</b>
<b>Bilirubin</b>	0.2 – 1	0.3		
<b>Alk Phos</b>	54 – 369	261		
<b>AST</b>	15 – 37	35		
<b>ALT</b>	12 – 78	43		
<b>Amylase</b>	NA			
<b>Lipase</b>	NA			

Other Tests **Highlight All Abnormal Labs**—Explanations must be in complete sentences and contain in-text citations in APA format.

**Not Performed**

<b>Lab Test</b>	<b>Normal Range</b>	<b>Admission or Prior Value</b>	<b>Today's Value</b>	<b>Reason for Abnormal</b>
<b>ESR</b>				
<b>CRP</b>				
<b>Hgb A1c</b>				

TSH				
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Urinalysis **Highlight All Abnormal Labs**—Explanations must be in complete sentences and contain in-text citations in APA format.

Not Performed

Lab Test	Normal Range	Admission or Prior Value	Today's Value	Reason for Abnormal
Color & Clarity				
pH				
Specific Gravity				
Glucose				
Protein				
Ketones				
WBC				
RBC				
Leukoesterase				

Cultures **Highlight All Abnormal Labs**—Explanations must be in complete sentences and contain in-text citations in APA format.

Not Performed

Test	Normal Range	Admission or Prior Value	Today's Value	Explanation of Findings
Urine Culture				
Blood Culture				
Sputum Culture				
Stool Culture				
Respiratory ID Panel				

**Lab Correlations Reference (APA):**

Mayo Clinic Laboratories. (2020). *Pediatric Test Reference Values - Mayo Clinic Laboratories.*

Www.Mayocliniclabs.Com.

<https://www.mayocliniclabs.com/test-info/pediatric/refvalues/index.html?alpha=C>

**Diagnostic Imaging**

All Other Diagnostic Tests (5 points): NA

Diagnostic Test Correlation (5 points): NA

Diagnostic Test Reference (APA):

**Current Medications (8 points)**

**\*\*Complete ALL of your patient's medications\*\***

<b>Brand/Generic</b>	Albuterol sulfate AccuNeb	Cefazolin Ancef	Pancrelipase Creon 6		
<b>Dose</b>	2.5mg/3mL	138.6mg in sodium chloride 0.9%	0.5 capsule		
<b>Frequency</b>	Q6H	Q8h	Q2h With feedings		
<b>Route</b>	nebulization	IV push	Oral		
<b>Classification</b>	bronchodilator	antibiotic	Pancreatic enzyme replacement		
<b>Mechanism of Action</b>	Relaxes bronchial smooth muscle cells and inhibits histamine release	Interfears with bacterial cell wall synthesis			
<b>Reason Client Taking</b>	CF- Thickened scretions	Possible infection	CF – improper pancreatic function		
<b>Concentration Available</b>	2.5mg/3mL	138.6	6,000 – 19,000 – 30,000 unit		

			capsule		
<b>Safe Dose Range Calculation</b>	<b>2.5 mg 3-4 times a day</b>	<b>90mg/kg/day</b>	<b>2,000 – 4,000 units per breast feeding or 120 ml of formula</b>		
<b>Maximum 24-hour Dose</b>	<b>10mg/day</b>	<b>415.8 mg/day</b>	<b>24000 – 48000 units</b>		
<b>Contraindications (2)</b>	<b>Hypersensitivity</b>	<b>hypersensitivity</b>	<b>Acute pancreatitis, hypersensitivity</b>		
<b>Side Effects/Adverse Reactions (2)</b>	<b>Hyperglycemia, vomiting</b>	<b>Fever, hepatic failure</b>	<b>Hyperglycemia, vomiting</b>		
<b>Nursing Considerations (3)</b>	<b>Monitor serum potassium levels, be aware of drug tolerance with prolonged use</b>	<b>Obtain culture and sensitivity, inject slowly over 3-5 minutes, monitor for nephrotoxicity</b>	<b>Brands are not interchangeable, mix powder with fluid or soft nondairy food, give before or with meals and snacks</b>		
<b>Client Teaching needs (2)</b>	<b>Do not exceed prescribed dose or frequency, immediately report signs and symptoms of allergic reaction</b>	<b>Complete prescribe therapy as indicated, report watery, bloody stools immediately</b>	<b>Stools may have a foul smell, do not inhale the powder</b>		

**Medication Reference (APA):**

Jones, & Bartlett. (2019). *2019 Nurse’s drug handbook*. Jones & Bartlett Learning.

**Assessment**

**Physical Exam (18 points)**

<b>GENERAL (1 point):</b> <b>Alertness:</b> sleeping <b>Orientation:</b> <b>Distress:</b> no <b>Overall appearance:</b>	<b>Client was sleeping at time of assessment, no distress indicated, over all appearance was calm.</b>
<b>INTEGUMENTARY (2 points):</b> <b>Skin color:</b> pink, lacy mottling <b>Character:</b> <b>Temperature:</b> 97.0	<b>Pink warm and dry, temperature noted at 97.0 F, client was unswaddled and har their arms raised prior to temperature check and was in just a diaper, lacy motting noted on lower</b>

<p><b>Turgor:</b>  <b>Rashes: NA</b>  <b>Bruises: NA</b>  <b>Wounds: NA</b>  <b>Braden Score: 16</b>  <b>Drains present: Y</b><input type="checkbox"/> <b>N</b><input checked="" type="checkbox"/>  <b>Type:</b></p>	<p><b>extremities. Skin turgor 2, Braden scale 16</b></p>
<p><b>HEENT (1 point):</b>  <b>Head/Neck:</b>  <b>Ears:</b>  <b>Eyes:</b>  <b>Nose:</b>  <b>Teeth:</b>  <b>Thyroid:</b></p>	<p><b>Head is symmetrical and midline, ears were not examined, eyes had a little build up in one corner easily removed, nose is symmetrical and midline, no teeth present.</b></p>
<p><b>CARDIOVASCULAR (2 points):</b>  <b>Heart sounds:</b>  <b>S1, S2, S3, S4, murmur etc.</b>  <b>Cardiac rhythm (if applicable):</b>  <b>Peripheral Pulses:</b>  <b>Capillary refill:</b>  <b>Neck Vein Distention: Y</b><input type="checkbox"/> <b>N</b><input checked="" type="checkbox"/>  <b>Edema Y</b><input type="checkbox"/> <b>N</b><input checked="" type="checkbox"/>  <b>Location of Edema:</b></p>	<p><b>Regular rate in rhythm for age, S1 and S2 present, no murmur or gallops noted, pulses equal and strong, capillary refill 2, no edema noted</b></p>
<p><b>RESPIRATORY (2 points):</b>  <b>Accessory muscle use: Y</b><input checked="" type="checkbox"/> <b>N</b><input type="checkbox"/>  <b>Breath Sounds: Location, character</b></p>	<p><b>Minimal wheezing on expiration noted and mild costal retractions</b></p>
<p><b>GASTROINTESTINAL (2 points):</b>  <b>Diet at home: Formula/breast milk</b>  <b>Current diet:Formula/ breast milk</b>  <b>Height (in cm): 50.8</b>  <b>Auscultation Bowel sounds:</b>  <b>Last BM:</b>  <b>Palpation: Pain, Mass etc.:</b>  <b>Inspection:</b>  <b>Distention:</b>  <b>Incisions:</b>  <b>Scars:</b>  <b>Drains:</b>  <b>Wounds:</b>  <b>Ostomy: Y</b><input type="checkbox"/> <b>N</b><input checked="" type="checkbox"/>  <b>Nasogastric: Y</b><input type="checkbox"/> <b>N</b><input checked="" type="checkbox"/>  <b>Size:</b>  <b>Feeding tubes/PEG tube Y</b><input type="checkbox"/> <b>N</b><input checked="" type="checkbox"/></p>	<p><b>Client received 2 oz feedings and is then placed on the breast for 2-3 minutes every 2-4 hours. Mother supplements with formula because she only produced 0.5-1 oz of milk. Bowel sounds active in all four quadrants, last bowel movement was 10-1-20, no masses noted upon palpation.</b></p>

<p><b>Type:</b></p>	
<p><b>GENITOURINARY (2 Points):</b>  <b>Color:</b>  <b>Character:</b>  <b>Quantity of urine:</b>  <b>Pain with urination:</b> Y <input type="checkbox"/> N <input checked="" type="checkbox"/>  <b>Dialysis:</b> Y <input type="checkbox"/> N <input checked="" type="checkbox"/>  <b>Inspection of genitals:</b>  <b>Catheter:</b> Y <input type="checkbox"/> N <input checked="" type="checkbox"/>  <b>Type:</b>  <b>Size:</b></p>	<p><b>Clients mother described urine as pale yellow, without odor</b></p>
<p><b>MUSCULOSKELETAL (2 points):</b>  <b>Neurovascular status:</b>  <b>ROM:</b>  <b>Supportive devices:</b>  <b>Strength:</b>  <b>ADL Assistance:</b> Y <input checked="" type="checkbox"/> N <input type="checkbox"/>  <b>Fall Risk:</b> Y <input checked="" type="checkbox"/> N <input type="checkbox"/>  <b>Fall Score: 2</b>  <b>Activity/Mobility Status:</b>  <b>Independent (up ad lib)</b> <input type="checkbox"/>  <b>Needs assistance with equipment</b> <input type="checkbox"/>  <b>Needs support to stand and walk</b> <input type="checkbox"/></p>	<p><b>Client moved all extremities equally, strength was hard to assess approximately equal, fall score 2, in crib when not being held</b></p>
<p><b>NEUROLOGICAL (2 points):</b>  <b>MAEW:</b> Y <input checked="" type="checkbox"/> N <input type="checkbox"/>  <b>PERLA:</b> Y <input type="checkbox"/> N <input type="checkbox"/>  <b>Strength Equal:</b> Y <input checked="" type="checkbox"/> N <input type="checkbox"/> if no -  <b>Legs</b> <input type="checkbox"/> <b>Arms</b> <input type="checkbox"/> <b>Both</b> <input checked="" type="checkbox"/>  <b>Orientation:</b>  <b>Mental Status:</b>  <b>Speech:</b>  <b>Sensory:</b>  <b>LOC:</b></p>	<p><b>Moves all extremities well, PERLA not assessed client was sleeping, strength was hard to assess approximately equal, to young to assess orientation, mental status, and speech. Sensory intact, responded to touch</b></p>
<p><b>PSYCHOSOCIAL/CULTURAL (2 points):</b>  <b>Coping method(s) of caregiver(s):</b>  <b>Social needs (transportation, food, medication assistance, home equipment/care):</b>  <b>Personal/Family Data (Think about home environment, family structure, and available family support):</b></p>	<p><b>Parents are present with client, they feel they are managing patient’s needs well, understand importance of medication therapy, have good home support, are tired at this time.</b></p>

**Vital Signs, 1 set (2.5 points)**

<b>Time</b>	<b>Pulse</b>	<b>B/P</b>	<b>Resp Rate</b>	<b>Temp</b>	<b>Oxygen</b>
<b>0900</b>	<b>148</b>	<b>86/48</b>  <b>MAP 60</b>	<b>48</b>	<b>97.0</b>  <b>Axillary,</b>  <b>infants'</b>  <b>arms were</b>  <b>up and</b>  <b>unswaddled</b>	<b>100% RA</b>

**Normal Vital Sign Ranges (2.5 points)**  
**\*\*Need to be specific to the age of the child\*\***

<b>Pulse Rate</b>	<b>100-180 awake, 90- 160 sleeping</b>
<b>Blood Pressure</b>	<b>72-104 systolic 37-56 diastolic</b>
<b>Respiratory Rate</b>	<b>30 – 55</b>
<b>Temperature</b>	<b>&gt;97.6</b>
<b>Oxygen Saturation</b>	<b>&gt;90%</b>

**Normal Vital Sign Range Reference (APA): PALS provided by instructor**

**Pain Assessment, 2 sets (2 points)**

<b>Time</b>	<b>Scale</b>	<b>Location</b>	<b>Severity</b>	<b>Characteristics</b>	<b>Interventions</b>
<b>0900</b>	<b>rFLACC</b>	<b>NA</b>	<b>NA</b>	<b>NA</b>	<b>NA</b>
<b>Evaluation of pain status <i>after</i></b>	<b>rFLACC</b>	<b>NA</b>	<b>NA</b>	<b>NA</b>	<b>NA</b>

<b>intervention</b>					
<b>Precipitating factors:</b> <b>Physiological/behavioral signs:</b>					

**Intake and Output (1 points)**

Intake (in mL)	Output (in mL)
60 mL feeding, on breast for 1-2 minutes x2 6.95 mL - infusion Total 126.95 mL	323 mL

**Developmental Assessment (6 points)**

**\*Be sure to highlight the achievements of any milestone if noted in your child. Be sure to highlight any use of diversional activity if utilized during clinical. There should be a minimum of 3 descriptors under each heading\***

**Age Appropriate Growth & Development Milestones**

1. **Root**
  - a. Infants turn to side the side the cheek is touched on
  - b. Searching with mouth
2. **Suck**
  - a. Reflexive sucking when nipple or finger is placed in mouth
3. **Palmar grasp**
  - a. Reflexively grasps when palm is touched

**Age Appropriate Diversional Activities**

1. **Skin to skin**
  - a. Thermoregulation
2. **Swing/rocking**

- a. **comfort**
- 3. **Sucking**
  - a. **Used to sooth client while preforming assessment**

**Psychosocial Development:**

**Which of Erikson's stages does this child fit? Trust vs Mistrust**

**What behaviors would you expect? Caregiver response to infant needs when crying or fussy.**

**What did you observe? The mother held the baby for 30-45 minutes after feeding to provide comfort before returning to crib. After feeding the mother stated she moves the client to breast if he is still searching for food. She only produces approximately 0.5 -1 oz of milk.**

**Cognitive Development:**

**Which stage does this child fit, using Piaget as a reference? Sensory motor - use of reflexes**

**What behaviors would you expect? Sucking brings the pleasure of ingestion nutrition. Infant begins to gain control over reflexes and recognizes familiar objects, odors, and sounds.**

**What did you observe? The infant was sucking on their pacifier while sleeping.**

**Vocalization/Vocabulary:**

**Development expected for child's age and any concerns? Crying, fussing, cooing  
Any concerns regarding growth and development? Client appears to be at an appropriate growth and developmental stage.**

**Nursing Diagnosis (15 points)**

**\*Must be NANDA approved nursing diagnosis and listed in order of priority\***

<p><b>Nursing Diagnosis</b></p> <ul style="list-style-type: none"> <li>• Include full nursing diagnosis with “related to” and “as evidenced by” components</li> </ul>	<p><b>Rational</b></p> <ul style="list-style-type: none"> <li>• Explain why the nursing diagnosis was chosen</li> </ul>	<p><b>Intervention (2 per dx)</b></p>	<p><b>Evaluation</b></p> <ul style="list-style-type: none"> <li>• How did the patient/family respond to the nurse’s actions?</li> <li>• Client response, status of goals and outcomes, modifications to plan.</li> </ul>
<p><b>1. Impaired gas exchange related to airway obstruction as evidenced by CF</b></p>		<p>1. 2.</p>	
<p><b>2. Ineffective airway clearance related to increased mucous production as evidenced by wheezing</b></p>		<p>1. 2.</p>	
<p><b>3. Imbalanced nutrition related to malabsorption related to decreased pancreatic function</b></p>		<p>1. 2.</p>	
<p><b>4. Infection related to CF as evidenced by increased sputum</b></p>		<p>1. 2.</p>	

**Other References (APA):**

**Nanda. (2018). *Welcome to NANDA International Defining the Knowledge of Nursing | Just another WordPress site.* Nanda.Org. <https://nanda.org/>**

**Concept Map (20 Points):**

