

Design Document

Company: Kid Care Home Health Agency

Training Title: Infinity Pump 101

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| Business Goal and Problem | <p>We are looking to raise our rating on both google and facebook to a minimum of 4.6 stars by increasing staff knowledge regarding the basics of the infinity pump and the steps to administer an enteral feed. Employees are forgetting the details of an enteral feed using an infinity pump after not using it regularly since nursing school.</p> <p>Our reviewers online are commenting about the lack of knowledge our staff exhibits when it comes to tube feedings. Other comments have expressed concern that some of our home health aides and/or nurses are feeding the children differently than how the parents were taught in the NICU. Some comments include stories about aides forgetting to prime the air out of the tubing. Other comments point to concerns about using feed bags from previous feeds without regard to the food hang-time.</p> |
| Target Audience | <p>This training is intended for our home health aides and nurses. Our home health aides and nurses have a basic understanding of medical issues and care. Some may have past experience with Gtubes. This course will be a refresher for those employees who may have forgotten the details of the infinity pump.</p> <p>Based upon our current employee pool, 90% of the employees taking this course will be females between the ages of 25-45. Their nationalities and 2nd language capabilities vary greatly as we are located right outside of Chicago, but at least 70% of them have learned English as a first language.</p> |
| Learning Objectives | <p>Terminal LOs:</p> <ol style="list-style-type: none">1. Gather the correct supplies needed to give an enteral feeding using an infinity pump.2. Prepare the food bag properly.3. Program the pump with the correct dose and rate.4. Determine causes of common pump alarms that prevent a full feed. <p>Enabling LOs:</p> <p>Learn which items are needed to administer an enteral feed using an infinity pump.</p> <p>Learn how to fill the bag and remove the air.</p> <p>Learn how to load the bag into the pump.</p> <p>Learn how to prime the air from the tubing</p> <p>Learn how to calculate the correct rate based on the doctor's prescribed feeding plan.</p> <p>Learn how to program the rate/dose into the pump.</p> <p>Learn the alarm codes.</p> <p>Learn what causes an alarm code alert.</p> |

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| Training Recommendation | <p>Delivery Method: e-Learning course using storyline 360</p> <p>Approach: Scenario-based intro with applicable practice incorporated throughout the course and a scenario-based final quiz at the end.</p> | |
| Training Time | 20 minutes | |
| Deliverables | Storyboard with voice-over script Working .story file Published scorm file of e-learning storyline 360 course Job Aid | |
| Training Outline | <ul style="list-style-type: none"> ● Intro to Course <ul style="list-style-type: none"> ○ Welcome & Navigation ○ Choose Avatar ○ Opening Scenario ○ Learning Objectives ● Supplies Needed <ul style="list-style-type: none"> ○ Infinity Pump <ul style="list-style-type: none"> ■ Cord ■ Backpack or IV pole ○ Feeding Bag ○ Extension tube ○ Food <ul style="list-style-type: none"> ■ Blended Food ■ Formula ○ GI doctor/dietician's food regiment plan ○ Pediatric patient with Gtube ● Setting up the Feed <ul style="list-style-type: none"> ○ Step 1 - Fill clean bag +include extra mls for the tubing ○ Step 2 - Remove access air and close ○ Step 3 - Load into pump <ul style="list-style-type: none"> ■ Open cover ■ Stretch silicone tubing over wheel ■ Click into place ○ Step 4 - Hang bag above the pump | <ul style="list-style-type: none"> ● Dose/Rate Calculations <ul style="list-style-type: none"> ○ based on doctor's plan of amount of food and length of feed ○ Practice formula/calculation ○ Enter the correct dose/rate into the pump ● Knowledge Check #2 - rate calculation practice ● Pump Alarm & Causes <ul style="list-style-type: none"> ○ LOAD SET <ul style="list-style-type: none"> ■ Bag not installed properly ○ SHUT DOOR <ul style="list-style-type: none"> ■ Pump door not closed ○ LOW BATT <ul style="list-style-type: none"> ■ Need to plug in pump for electricity/recharge ○ NO FLOW IN <ul style="list-style-type: none"> ■ Not primed all air OR air getting into the tubing ■ Ran out of food in the bag ○ NO FLOW OUT <ul style="list-style-type: none"> ■ Kinks in tubing ■ Clamp closed on extension ■ Bag's silicone tube or pump is dirty ○ NO FOOD <ul style="list-style-type: none"> ■ Air in tubing ■ Clog/not right consistency ■ No food in bag |

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| | <ul style="list-style-type: none"> ○ Step 5 - Prime air out of tube <ul style="list-style-type: none"> ■ Turning on machine ■ Removing cap from bag's tubing ■ Prime button ● Knowledge Check #1 - steps in order | <ul style="list-style-type: none"> ● Wrap Up <ul style="list-style-type: none"> ○ Summary ○ Final Assessment ○ Results ○ Congratulations/Conclusion |
| Assessment Plan | <p>Level 2 Assessment: Learners will have two un-graded knowledge checks - one about $\frac{1}{3}$ of the way into the course to order the steps of a feed and one about $\frac{2}{3}$ of the way into the course to practice calculating the rate. There will be one final, graded quiz at the end of the course. The final quiz will have 5 questions regarding the terminal learning objectives with a passing rate of 80%. The questions will be incorporated into a scenario to mimic a real-life job situation.</p> <p>Level 3 Assessment: To be sure the learner has incorporated these skills into the job setting, we will send surveys to our patient families to ask how the health aides are doing as they are the ones observing our learners daily. Surveys will be sent out 2 weeks after each new health aid has been placed with a family and taken this course. We will also watch for the reviews about the home health aides online to be more positive regarding their knowledge of enteral feeds using an infinity pump. We will also verify that the number of google and facebook stars is approaching 4.6 (our goal).</p> | |