**PEDIATRICS MATH EXAM- THURSDAY students only- registered for HY2 with Dr. Riggi**

 ***ATI NURSING CARE OF CHILDREN DOSAGE CALCULATION ASSESSMENT***

Assignment Expectations and Exam information: Students are expected to individually review and prepare for the math exam using the resources provided. Students will need to achieve benchmark on the proctored exam to start pediatric clinical. To prepare for the proctored pediatric math exam do the following:

1. Review this document
2. Complete the ATI, 25-question exam titled ***Dosage Calculation RN Nursing Care of Children Online Practice Assessment 3.0*** (located under ATI website, assessments)
3. Upload your results report in Canvas for a completion grade (complete/incomplete). This is **due by** **Thursday, January 11th at 8:59am**

(please note the drop box will not be available until the course opens)

1. Study the content you did not perform well on.
2. Retake the exam as many times as needed until you are able to understand and answer all of the questions correctly.
3. Take the **proctored dosage calc exam for Nursing Care of Children** on **Tuesday, January 16th, 2023 at 8am** in the Hanley Computer Lab in the library.

Proctored Exam Description: This 35-item assessment addresses drug calculations and conversions used when caring for pediatric clients. Items reflect a client focus that supports safe administration of a dosage that is based on the weight of clients who range in age from newborn to 18 years of age.

Each assessment has 25 scored items and 10 pretest items and a time limit of 90 minutes

The majority of items are fill-in-the-blank questions requiring a calculation. Multiple choice item format is also used.

Content Areas:

* Convert quantities between units of measure (metric, household).
* Convert quantities within the metric system (e.g., g to mg).
* Interpret components of medication label(s).
* Interpret medication order(s).
* Calculate basic oral dosage.
* Calculate basic liquid parenteral dosage.
* Calculate basic powdered parenteral dosage.
* Calculate dosage by weight – oral (convert from kg to lb and lb to kg).
* Calculate dosage by weight – non-intravenous parenteral (convert from kg to lb and lb to kg).
* Calculate by weight – intravenous parenteral (covert from kg to lb and lb to kg)
* Calculate IV drip rate in mL/hr.

You must know the following:

* 1kg = 2.2lbs
* 1 teaspoon = 5ml
* 1 tablespoon= 15ml
* 1 ounce = 30ml
* 16 oz = 1 pound (body weight)
* 1L = 1000mL

Helpful information from your professor:

No more PBA rounding rules! ATI will tell you how to round to on each individual question. Go slow and read each question carefully.

One of the most important and unique aspects of pediatric drug administration is understanding the importance of weight-based dosing. This means that many of the questions on the exam will be calculating dosage by weight. If you are struggling with these types of problems start by using this learning module in ATI, go to:

ATI study materials → learn→ Dosage Calculation and Safe Medication Administration3.0 → module → dosages by weight →begin lesson

**Take the practice exam seriously**. This is your key to success. When you miss a question on the practice exam, the exam will automatically show you how to compute the problem correctly. Read this, write it down, go over it again, until you understand it. If you are having trouble, use the applicable learning module in the learn → dosage calc → module section of the ATI website.

One last thing, there is a Nursing Care of Children dosage calc learning module in ATI. This is important information and is testable material later in the course. However, this material is not on the proctored assessment so save this module for a later date.

Email if you need me. I am looking forward to a great sub term A!

Dr. Riggi

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