For each question, the participants should tick off for one of the alternative answers and also answer the following question: "How certain are you that your answer is right – i.e. what would you do in a real situation?"
0= Very uncertain - would search for help; consulted colleagues/reference books.
1= Relatively uncertain – would probably search for help; consulted colleagues/reference books
2= Relatively certain - would probably not search for help by consulting colleagues/reference books
3= Very certain - would not search for help by consulting colleagues/reference books
NB! No answer will be recorded as 0= very uncertain

DRUG DOSE CALCULATIONS – TEST 1 BEFORE COURSE

Certainty: 0 1 2 3

1. 1 hour 3 minutes = □ 103 minutes
□ 33 minutes
□ 63 minutes
□ 73 minute
How certain are you in this answer: □ □ □ □

2. 20 micrograms = □ 0,02 mg
□ 20000mg
□ 0,2 mg
□ 0,002 mg
How certain are you in this answer: □ □ □ □

3. Potassium cloride for infusion has the concentration 1 mmol/ml. The physician has prescribed a dose of 25 mmol for infusion. How many ml of the infusion concentrate equals 25 mmol?
□ 1 ml
□ 250 ml
□ 25 ml
□ 2,5 ml
How certain are you in this answer: □ □ □ □

4. The patient should have 10 500 IE Heparin as intervenous infusion. The concentration in the vial is 5 000 IE/ml. How many ml do you pull out from the vial?
□ 2,1 ml
□ 3 ml
□ 0,5 ml
□ 21 ml
How certain are you in this answer: □ □ □ □

5. 2,5% = □ 250 mg/ml
□ 2,5 mg/ml
□ 0,25 mg/ml
□ 25 mg/ml
How certain are you in this answer: □ □ □ □

6. 250 mg/ml = □ 25 %
□ 2,5 %
□ 0,25 %
□ 250 %
How certain are you in this answer: □ □ □ □

7. 0,42 l = □ 420 ml
□ 42 ml
□ 0,42 ml
□ 4200 ml

How certain are you in this answer: □ □ □ □

8. One Marevan tablet contains 2,5 mg warfarin, og may be divided into 4 pieces. How many mg does a patient get when given 2 and ¼ tablet?

- □ 1,1 mg
- □ 1,4 mg
- □ 5,6 mg
- □ 6 mg

How certain are you in this answer: □ □ □ □

9. You give a patient 3 and ½ tablet of a drug, and each tablet contains 5 mg. How many mg does the patient get?

- □ 1,4 mg
- □ 17,5 mg
- □ 1,75 mg
- □ 15 mg

How certain are you in this answer: □ □ □ □

10. Doxorubicin 50 mg injection substance is diluted in 25 ml sterile water. What is the concentration of the solution?

- □ 1250 mg/ml
- □ 2 mg/ml
- □ 0,5 mg/ml
- □ 20 mg/ml

How certain are you in this answer: □ □ □ □

11. Furadantin tablets contain 5 mg/tablet. The dosage is 3 mg/kg body weight per 24 hours, in two divided daily doses. The child's weight is 20 kg. How many tablets should the child get each time?

- □ 0,5 tablet
- □ 12 tablets
- □ 6 tablets
- □ 3 tablets

12. A patient should have 500 ml Glukose 50 mg/ml intravenously. How many ml/hour should the infusion pump be set at, if the infusion time should be 4 hours?

- □ 125 ml/hour
- □ 100 ml/hour
- □ 12,5 ml/hour
- □ 2,1 ml/hour

How certain are you in this answer: □ □ □ □

13. A patient gets Invertose 120 mg/ml. Due to the risk of acidosis, the infusion rate must not exceed 10 mg/kg/hour. What is maximum drop rate (drops/hour) for a patient weighing 30 kg. The drop number is 20/ml.

- □ 100 drops/hour.
- □ 18 drops/hour.
- □ 60 drops/hour.
- □ 50 drops/hour.

How certain are you in this answer: □ □ □ □

14. 20 ml Hibitane 20% should be diluted to a solution with the concentration 5 mg/ml. How many ml is the diluted solution?

- □ 780 ml
- □ 800 ml
- □ 80 ml
- □ 820 ml

How certain are you in this answer: □ □ □ □

Certainty

DRUG DOSE CALCULATIONS – TEST 2 AFTER COURSE

	0	**1**	**2**	**3**
1. 1 hour 3 minutes = □ 55 minutes □ 83 minutes □ 63 minutes □ 60 minutes				
How certain are you in this answer:	□	□	□	□
2. 50 micrograms = □ 0,50 mg □ 0,050 mg □ 5,0 mg □ 50,0 mg				
How certain are you in this answer:	□	□	□	□
3. A concentrate of mono potassium phosphate for infusion has the concentration 1 mmol/ml. The physician has prescribed a dose of 0,15 mmol/kg, to be added into an infusion liquid. The patient weigh 54 kg. How many ml of the infusion concentrate should be added to the infusion liquid? □ 1,5 ml □ 8,1 ml □ 0,1 ml □ 1 ml				
How certain are you in this answer:	□	□	□	□
4. A male cancer patient should have 9 IE Bleomycin per square meter body surface once a week as an intervenous injection. His estimated body surface is 1,8 square meter. 15 IE Bleomycin (pouder) are dissolved in 10 ml injection liquid. How many ml do you use from the solution to give him a correct dose? □ 10,8 ml □ 10,0 ml □ 9,0 ml □ 16,2 ml				
How certain are you in this answer:	□	□	□	□
5. 0,1 % = □ 0,01 mg/ml □ 0,10 mg/ml □ 1,0 mg/ml □ 10 mg/ml				
How certain are you in this answer:	□	□	□	□
6. 100 mg/ml = □ 0,1 % □ 1,0 % □ 10 % □ 100 %				
How certain are you in this answer:	□	□	□	□
7. 0,42 l = □ 4,2 ml □ 42 ml □ 420 ml □ 4200 ml				
How certain are you in this answer:	□	□	□	□

Certainty

0 **1** **2** **3**

8. Phenergan injection fluid has the consentration 25 mg/ml. 1,2 ml has been pulled out from the container. What is this dose in mg?

- 25 mg
- 30 mg
- 20,8 mg
- 33 mg

How certain are you in this answer: ☐ ☐ ☐ ☐

9. A child should have 150 mg acetylsalicylic acid. Novid contains 0,3 grams/tablet. How many tablets would you give the child?

- 3 tablets
- 2 tablets
- 1 tablet
- 0,5 tablet

How certain are you in this answer: ☐ ☐ ☐ ☐

10. 20 ml Glyceryl nitrate 5 mg/ml concentrate for infusion is given in 500 ml glucose liquid for infusion. What is the concentration of glyceryl nitrate in the infusion liquid?

- 60 microgram/ml
- 250 microgram/ml
- 200 microgram/ml
- 100 microgram/ml

How certain are you in this answer: ☐ ☐ ☐ ☐

11. Lanoxin mixture contains 50 micrograms digitoxin*) per ml. A child weighing 15 kg should get 0.01 mg/kg body weight per day. How many ml would you give the child per day? (*)before the change to digoxin on the market)

- 0,5 ml
- 2 ml
- 3 ml
- 4 ml

How certain are you in this answer: ☐ ☐ ☐ ☐

12. A patient should have furosemide 2 mg per minute intravenously. 25 ml furosemide injection fluid with the concentration 10 mg/ml is added to NaCl to a total volume of 250 ml. The infusion is given by an infusion pump. How many ml per hour would you set the infusion pump to give?

- 125 ml/t
- 120 ml/t
- 100 ml/t
- 50 ml

How certain are you in this answer: ☐ ☐ ☐ ☐

13. 2 grams of Fortum infusion substance is dissolved in 50 ml NaCl 9 mg/ml infusion liquid. The infusion is given during 40 minutes. What is the infusion rate in drops per minute. The drop number is 20/ml.

- 25 drops/minute
- 50 drops/minute
- 5 drops/minute
- 20 drops/minute

How certain are you in this answer: ☐ ☐ ☐ ☐

14. 2 grams of Keflin injection substance (powder) is dissolved in 10 ml sterile water. What is the concentration in this solution in mg/ml?

- 50 mg/ml
- 100 mg/ml
- 20 mg/ml
- 200 mg/ml

How certain are you in this answer: ☐ ☐ ☐ ☐