

March
2022



INSTAND

Academy

Report on Online-Training
Group 901
Preanalytics

Dr. rer. nat. Manfred Falck

INSTAND e.V.
Society for Promoting
Quality Assurance
in Medical Laboratories e.V.

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Expert

Dr. rer. nat. Manfred Falck
INSTAND e.V.
Ubierstr. 20
D - 40223 Düsseldorf
Email: falck@t-online.de

Reviewer:

Dr. med. Alexander von Meyer

Conducted by:

INSTAND Academy
Ubierstr. 20
40223 Düsseldorf
Tel. +49 (0)211 - 1592 13 0
Fax +49 (0)211 - 1592 1330
Email: fortbildung@instand-ev.de
<https://akademie.instand-ev.de/en>

Explanation for the evaluation

In addition to the documents sent to you by mail, you can obtain further information on the training performed here.

Certificate

Each participant receives a certificate of participation and the evaluation. If you reach 60% of the points, you have passed the training and will receive a certificate.

General overview

Here we list the total number of participants, the total pass rate, and the average percentage points achieved.

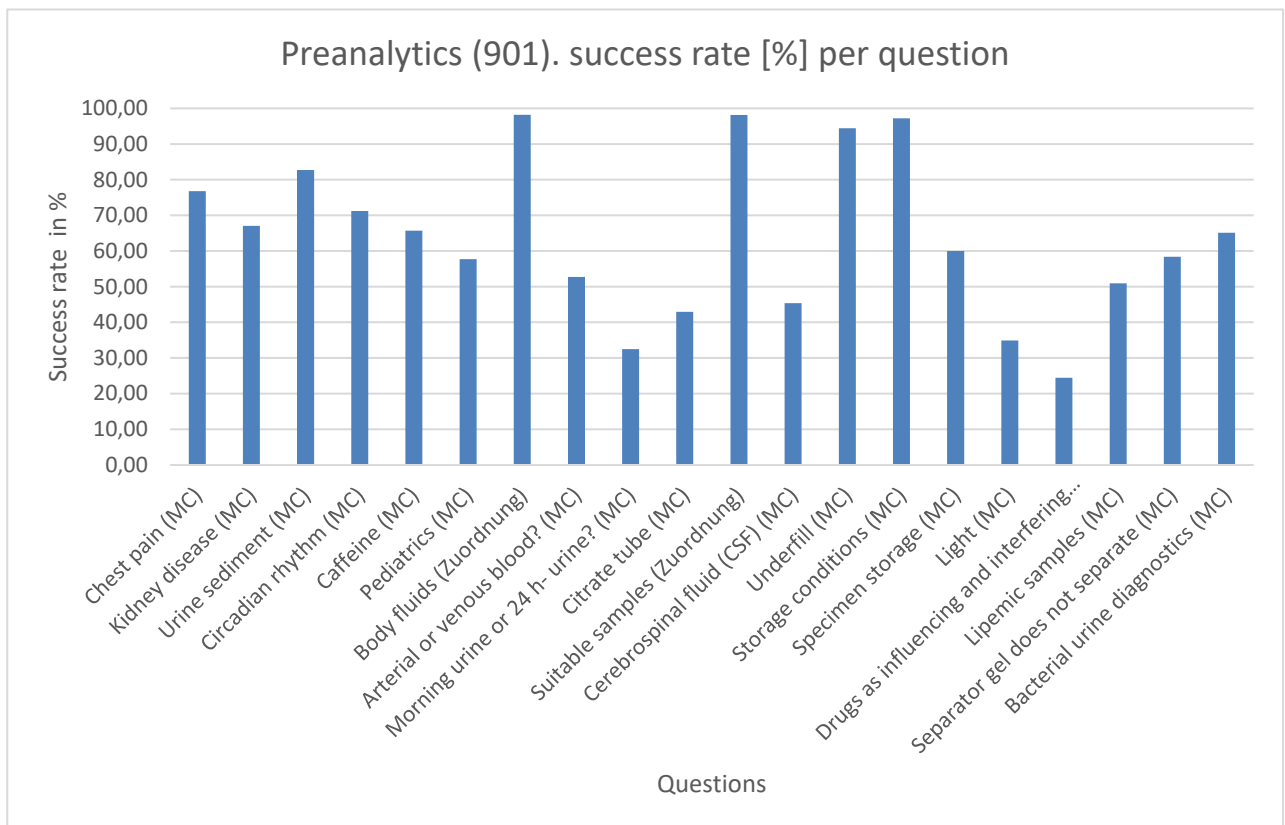
Summary table

Preanalytics March 2022 overview

	result
Number of participants	89
Passed (>60 %)	56 (63 %)
Not passed	33 (37 %)

Statistics of the individual tasks

Card	Success rate [%]
Chest pain (MC)	76,78
Kidney disease (MC)	67,05
Urine sediment (MC)	82,73
Circadian rhythm (MC)	71,21
Caffeine (MC)	65,69
Pediatrics (MC)	57,73
Body fluids (Zuordnung)	98,18
Arterial or venous blood? (MC)	52,73
Morning urine or 24 h- urine? (MC)	32,50
Citrate tube (MC)	42,96
Suitable samples (Zuordnung)	98,14
Cerebrospinal fluid (CSF) (MC)	45,35
Underfill (MC)	94,42
Storage conditions (MC)	97,21
Specimen storage (MC)	60,00
Light (MC)	34,89
Drugs as influencing and interfering variables (MC)	24,42
Lipemic samples (MC)	50,93
Separator gel does not separate (MC)	58,37
Bacterial urine diagnostics (MC)	65,12



Training materials

For this training, tasks were provided as an online questionnaire and as a PDF. The tasks were compiled with the collaboration of the above-mentioned expert and the solutions were released by him. Participants were able to view the solutions immediately after completing each task and download the entire training with all tasks and solutions as a PDF after submitting the training.

Solutions and assessment scheme

The questions are multiple- and single-choice types as well as mapping tasks. For multiple-choice and mapping tasks, the participant receives 1 point if all correct answers are selected. If not all answers are correct, the points are calculated by dividing the (number of correct answers minus the number of incorrect answers) by the number of possible answers. In single-choice tasks, either 1 or 0 points can be achieved.

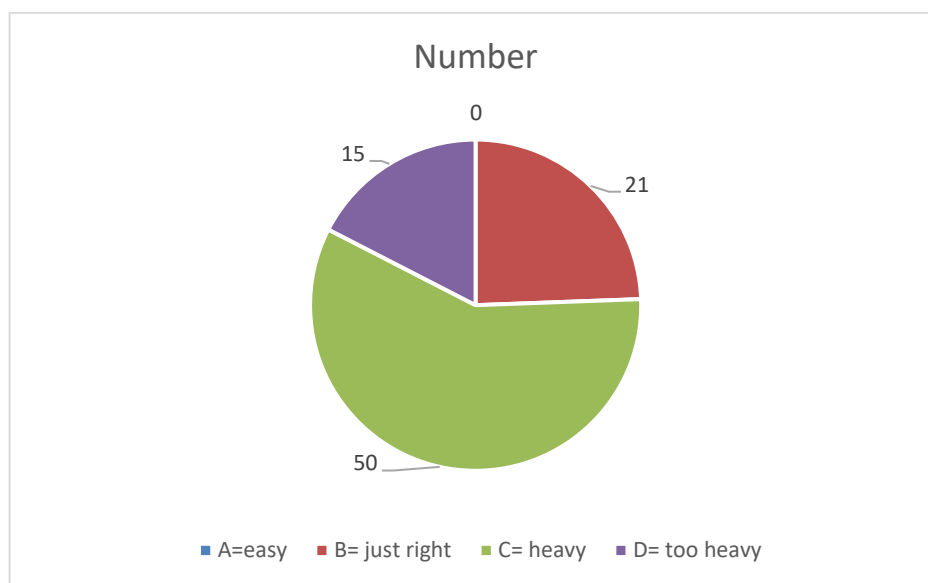
At least 60% (12) of all possible points (20) had to be achieved in order to receive a certificate of successful participation.

Comment

Dear participants,
the current online training course "Preanalytics" is aimed at MTLA and laboratory managers. 89 participants took part in this training. We would like to thank all participants for their commitment.

With a pass rate of 63%, this training shows a lower rate than the pass in March 2021 (83%). The mean value of the total number of points achieved by the participants fell from 14.53 out of 19 points (76% of the total points) to 12.93 out of 20 points (64.6% of the total points) compared to the March date. The majority of the participants found the level of difficulty of this training course to be "difficult" (58 %) or "too difficult" (17 %).

Participant rating of the questions preanalytics March 2022 (901)



This online proficiency test is primarily used for further training, so participants who did not achieve 60% this time should not be discouraged!

The following questions posed particular problems:

In the question on the effect of **therapeutic drugs** on laboratory values, a distinction had to be made between in vivo influences and in vitro method interferences. The less common interferences of allopurinol and digitoxin on cholesterol determination may be irrelevant due to manufacturer's test confections but should be clarified in individual cases in case of implausible results.

24 h- urine: as stated in the commentary, collection urine is also no longer recommended for the determination of vanillic mandelic acid, because the collection is too error-prone.

Light sensitivity, correction: according to the cited literature (Thomas, Laboratory and Diagnosis), samples for cobalamin determination should also be stored protected from light in the dark. I apologize for the resulting uncertainty. The answer 'cobalamin' was also scored as the correct answer.

Citrate tubes: the high number of incorrect answers highlights the confusion partly also due to company jargon: 1:10 is the dilution of the citrate solution, not of the blood in the resulting sample. This is important e.g. for the conversion of cell counts from the citrate sample.

CSF and lipemic samples: CSF should be collected slowly with small-lumen cannulas, and Frigen should no longer be used to clarify lipemic specimens.

We thank all participants for their comments, they are very important feedback for us and can also lead to correction of my mistakes!

Dr. rer. nat. Manfred Falck
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