

**September
2022**



IN STAND

Academy

Report on Online-Training
Group 901
Preanalytics

Dr. rer. nat. Manfred Falck

IN STAND e.V.
Society for Promoting
Quality Assurance
in Medical Laboratories e.V.

Düsseldorf, 25-Oct-22

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.

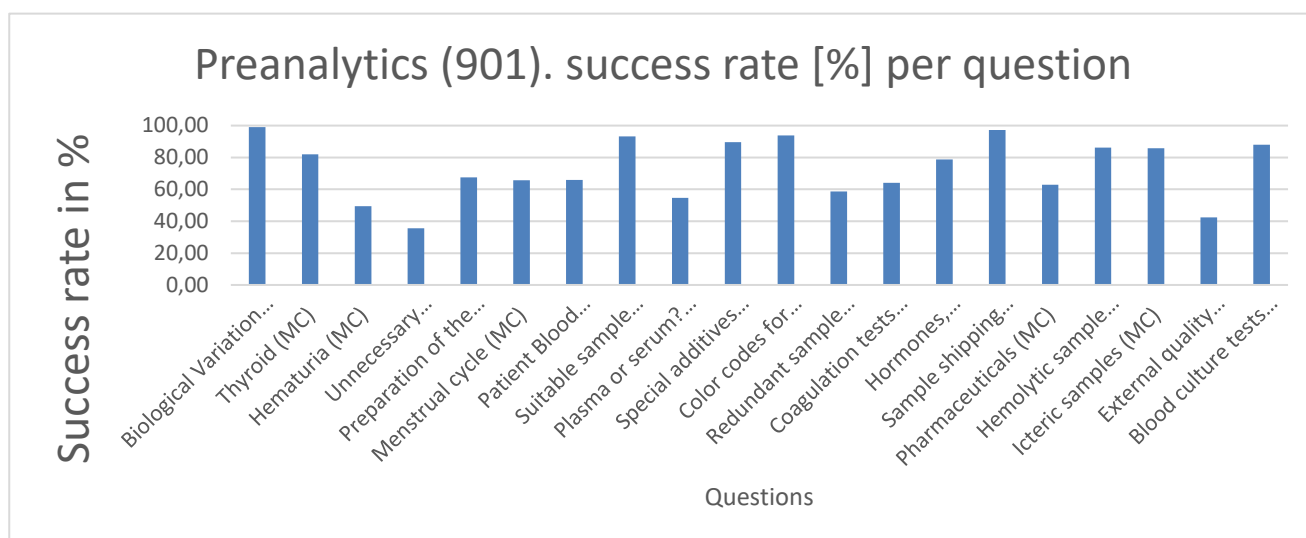
Summary table

Preanalytics September 2022 overview

	result
Number of participants	86
Passed (>60 %)	64 (74 %)
Not passed	22 (26 %)

Statistics of the individual tasks

Card	Avg Success (%)
Biological Variation (MC)	99,07
Thyroid (MC)	81,93
Hematuria (MC)	49,4
Unnecessary examinations (MC)	35,6
Preparation of the patient (MC)	67,48
Menstrual cycle (MC)	65,61
Patient Blood Management (MC)	65,85
Suitable sample material (MC)	93,15
Plasma or serum? (MC)	54,73
Special additives (Zuordnung)	89,51
Color codes for additives (Zuordnung)	93,75
Redundant sample (MC)	58,75
Coagulation tests (MC)	64,17
Hormones, peptides, amino acids (MC)	78,75
Sample shipping (Zuordnung)	97,19
Pharmaceuticals (MC)	62,92
Hemolytic sample (MC)	86,25
Icteric samples (MC)	85,83
External quality assurance (MC)	42,50
Blood culture tests (MC)	88



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 were answered correctly, the points are calculated by dividing the difference between the number of correct and the number of incorrect answers by the number of possible answers. In single-choice tasks, either 1 or 0 points can be achieved.

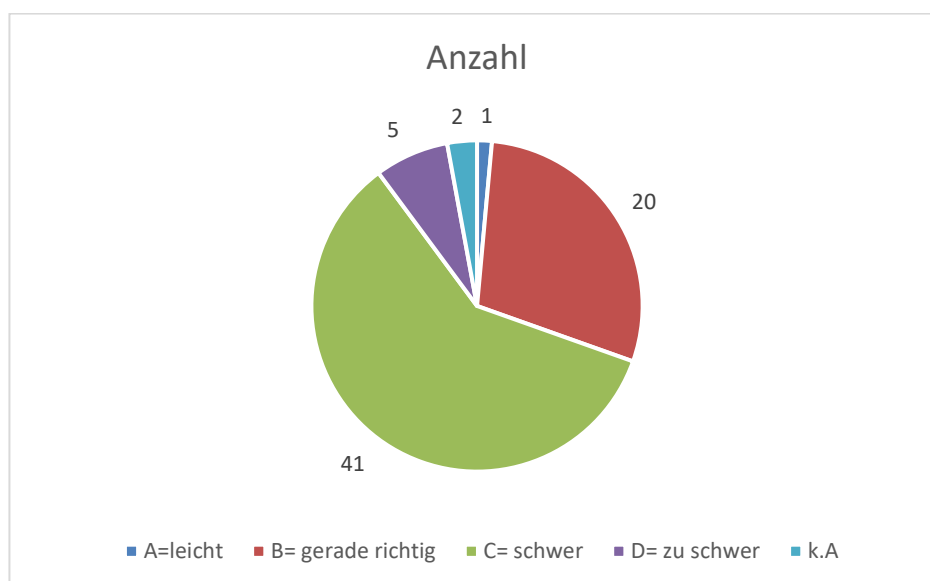
At least 60 % (12) of the maximum possible points (20) had to be achieved in order to receive a certificate of successful participation.

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 74 %, this training shows a better pass rate than the training in March 2022 (63 %). The mean total score achieved by participants increased from 12.93 out of 20 points (64.6 % of total points) to 13.9 out of 20 points (69.7 % of total points) compared to the March training. The majority of participants perceived the difficulty level of this training as "difficult" (59 %) or "too difficult" (7 %).

Rating of the questions preanalytics September 2022 (901) by the participants



In this training, some partially modified questions were used that had been asked before and caused great difficulties for the participants. In this way, on the one hand, it would be possible to estimate the learning

effect, and on the other hand, it would also be possible to refer to more current literature. Please refer to the solutions of the individual questions. This format is primarily for continuing education, so participants who did not achieve 60 % this time should not be discouraged at all!

The following questions posed particular problems:

Hematuria:

Determination of urinary myoglobin is indicated only in cases of acute renal failure due to extrarenal causes, such as rhabdomyolysis with simultaneous significantly elevated CK activity in the serum/plasma. Urine protein differentiation, particularly of albumin and α 2-macroglobulin, is useful for differentiating renal and postrenal hematuria. An appropriate procedure for follow-up should be agreed with senders in advance.

Unnecessary examinations:

Although determination of total T4 is indicated far less frequently than free T4, it is not an obsolete test. In the case of discordant TSH and fT4 values, the determination of total T4 is also indicated for the clarification of non-thyroidal diseases (Thomas L, Thyroid Function. In Thomas L, chap. 30).

Plasma or serum:

Decreased values for gGT activity are due to negative interference with the anticoagulant in serum-started tests. In this respect the solution on the card must be corrected: it is not a release of gGT from blood cells (Guder WG, Narayan S, Wisser H, Zawta B. Specimens between patient and laboratory, GIT Verlag 1999; p32).

For the remaining questions, please refer to the solution in the questionnaire.

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