

**Committee for Quality Assurance**

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**VR 28407 B Amtsgericht Charlottenburg****Final Report on Laboratory-Focussed Quality Assurance 2018 Ring  
Trial**

Dear Colleagues,

We would like to thank you for your submission to the "Laboratory-Focussed Quality Assurance 2018" ring trials. In particular, we would like to express our sincere gratitude for the contributions of the experts, who assisted in large numbers and with great commitment with the evaluation of the karyograms:

Birgitta Gläser (Freiburg), Andreas Rättsch (Stuttgart), Patricia Emmerich (Baden-Baden), Martina Reichert (Würzburg), Anja Louis (Mannheim), Anne Pleyers (Aachen), Jutta Spang (Frankfurt), Ilona Dietze-Armana (Neu-Ulm), Susanne Anders (Dresden), Christian Cramer (Bingen), Viola Langhof (Dresden), Ute Werner (Zwickau), Katrin Fröbius (Marburg), Hanne Tittelbach (Nuremberg), Marion Krüger (Niederwangen), Patrizia Jung (Homburg), Wanda Gerding (Bochum), Sonja Dahlum (Ulm), Sylke Singer (Tübingen) and Franco Bottini (Zürich).

The evaluation criteria are specified by the current version of the RiliBÄK (Guidelines of the German Federal Medical Council) which have not been changed in comparison to the last Ring Trial. The certificate is valid for two years.

We would like to point out once again that for the evaluation of the overlay points, the original images of the mitoses should be submitted, as otherwise the overlay points will not be verifiable by the experts. In cases of uncertainty regarding the designation of the overlay points, the definition can be found again under the following link: <http://www.bundesaerztekammer.de/aerzte/qualitaetssicherung/richtlinien-leitlinien-empfehlungen-zur-qualitaetssicherung/labor/>.

The establishment of the "karyotype" field has proved worthwhile and has resulted in many structurally and numerically interesting findings being included in the quality evaluation. Furthermore, it was a great help to the experts in the evaluation of mosaic findings. However, it should also be ensured that the karyotype formula is entered correctly.

Regrettably, a few careless errors occurred when the images were uploaded, so that we were not able to award the Federal Medical Council Guidelines Certificate as the karyograms of an entire case were missing, as well as another missing karyogram. Here we would ask you all to take great care in the future, concerning which files you upload and not only to save your files after uploading, but also to check them again before pressing the "Submit" button.

We found overall that in this round of submissions there was again an increased number of karyograms containing errors (swapping of chromosomes, upside-down chromosomes, etc.) submitted in all three ring trials. We would therefore like to ask everyone to check their karyograms carefully.

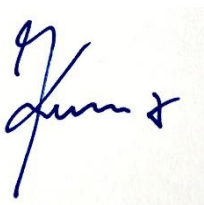
Now we come to the usual key aspects of the evaluation of these ring trials: The number of laboratories that participated in the laboratory-focussed QA was as follows – Postnatal diagnostics 79 (previous year 88) – Prenatal diagnostics (amniotic fluid) 70 (previous year 74) and Prenatal diagnostics (CVS) 60 (previous year 62).

A total of 1,254 karyograms were evaluated by the experts. For the evaluated chromosomes from lymphocytes from 2018 the average band resolution was 6.34 points (2017: 6.23 points, 2016: 6.19 points, 2015: 6.18 points), for the amniotic fluid chromosomes from 2018 an average of 5.62 points (2017: 5.26 points, 2016: 5.47 points, 2015: 5.45 points), while the submitted chromosomes from chorionic villi from 2018 showed an average band resolution of 4.39 points (2017: 4.40 points, 2016: 4.43 points, 2015: 4.63 points). With the exception of the chromosomes from CVS, there was a slight increase in the average quality of the resolution of the chromosomes.

On the platform [www.bvdh-ringversuche.de](http://www.bvdh-ringversuche.de) you can see your so-called case ID after logging in under "Ring trials - completed" in the table for the respective ring trial. In the results tables, which you can also download there, you will find your results (three lines, one line for each month submitted) under the case IDs referred to above. If you have any questions, please do not hesitate to contact Ms Brandt at the Coordination Office (+49 2403 838054, [brandt@bvdh.de](mailto:brandt@bvdh.de)).

If you would like to support us as an expert in the future, please also contact Ms Brandt.

Kind regards,



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