

1. General Information

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|-------------------------------|--|
| Cohort ID | 5002_18 |
| Title (Study Name) | QCbyPESI / CBmed-Biomarkers |
| Principal investigator | Dr. Natalie Bordag, Dr. Sigrid Deller |
| Contact information | pm-biobank@medunigraz.at |
| Funding agency | --- |

2. Description

Pre-analytical errors during blood sampling risk misleading diagnostic and scientific results. This single-centre, non-interventional study of 50 adults (20 young, healthy; 30 all ages with various diseases/medications) addresses sample quality dependence on time delays until blood centrifugation. From each adult K3+ EDTA blood samples were taken and centrifugation was delayed in 20 min steps in 11 steps from 0 to 200 min, storing EDTA plasma and buffy coat for each time step. Detailed clinical data including routine hematology is available. This resource supports method development, cross-platform comparisons, and translational studies in sample handling and pre-analytical quality assurance.

3. Details

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|--|---|-------|--|
| ICD 10/O codes / Healthy | 20 healthy, 30 mixed | | |
| Key words | sample quality biomarkers, pre-analytical delay, plasma, EDTA, buffy coat, time-dependency | | |
| Collection / Cohort size 12/2025 (mm/yyyy) | 2.399 aliquots from 50 patients | | |
| Informed Consent (IC) | <input checked="" type="checkbox"/> Broad Biobank IC | | |
| | <input type="checkbox"/> Specific Study IC | | |
| Status | <input type="checkbox"/> In progress / compl. date: (mm/yyyy) | | |
| | <input checked="" type="checkbox"/> Completed | | |
| Inclusion criteria | Age distribution | 20-66 | |
| | Sex distribution (f:m) | 24:26 | |
| | Others | | |
| Earliest access | as of now (mm/yyyy) | | |
| Quality-standards | <input checked="" type="checkbox"/> ISO 9001:2015 (SOPs) <input checked="" type="checkbox"/> ISO 23118:2021 (metabolomics in urine, venous blood serum and plasma) | | |
| Associated publications / references | Preprint: https://www.medrxiv.org/content/10.1101/2021.04.18.21254782v1 Study protocol: https://drks.de/search/en/trial/DRKS00024807/entails | | |

4. Material available (aliquot size) and storage conditions

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|-----------------|--|--|---|--|
| Material | <input checked="" type="checkbox"/> EDTA plasma (µl) | | <input checked="" type="checkbox"/> -80°C | <input type="checkbox"/> liq. N ₂ |
| | <input checked="" type="checkbox"/> EDTA Buffy coat (µl) | | <input checked="" type="checkbox"/> -80°C | <input type="checkbox"/> liq. N ₂ |

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