

Enhancing Research through Statistical Consulting

Kainat Khowaja

I  **CORE FACILITY**
STATISTICAL CONSULTING

Topics/Results

With our wide range of expertise, we can cover a variety of topics that involve statistical modelling and data analytics



ORCHESTRA: Connecting European Cohorts to Increase Common and Effective Response to SARS-CoV-2 Pandemic

- Funded by Horizon 2020.
- Goal: to study the health effects of the pandemic.
- Contribution: to develop innovative statistical methods to study the pandemic by performing data analysis and pioneering modelling, integrating multi-omics data with the hope to build better preparedness for future threats.

OPTI-TRIALS: Novel Statistical Solutions for Optimized Experimental Design Hand in Hand with Domain Expertise

- Co-funded by Next-Generation EU funds – Germany's recovery and resilience plan.
- Goal: to make pre-clinical animal trials more efficient.
- Contribution: to develop software prototypes for experimental design with differential equations. To build statistical course material for experimental design.

Scientific and Technological Expertise

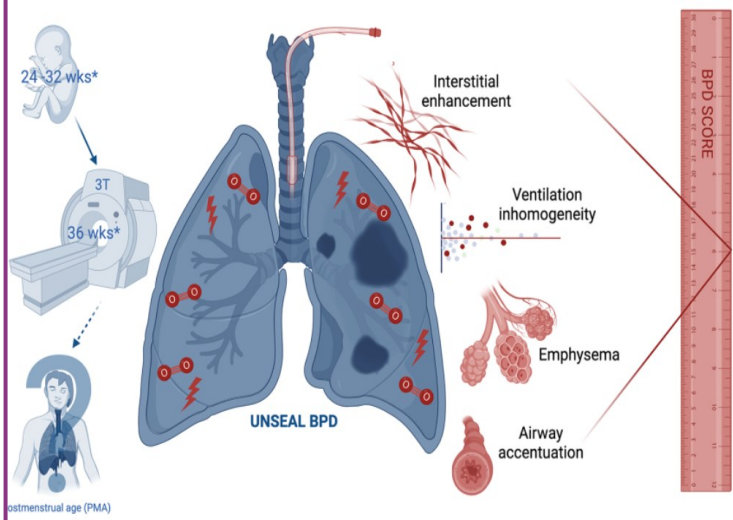


ML for Prediction of Vision Correction Surgery

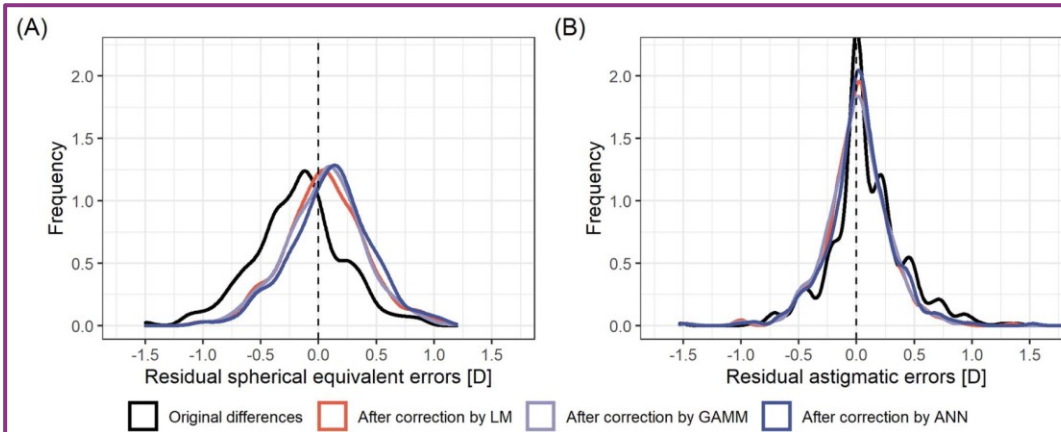
App: Assessment of Lung Disease in Premature Infants

UNiform Scoring of the disEAsed Lung in BPD

Increased scores for 'emphysema' and 'airway accentuation' (extremely premature), 'interstitial enhancement' and 'ventilation inhomogeneity' (very premature) characterize BPD.

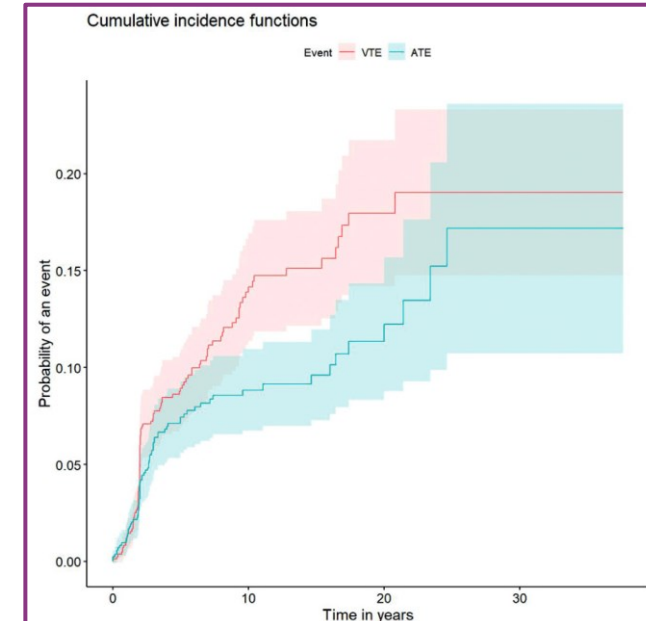


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- Descriptive statistics and data visualization
- Machine learning
- Experiments and sampling design
- Statistical modelling, prediction and forecasting
- Survival analysis
- Programming shiny apps
- Software: R, Python

Time to event: Blood Clot Risks in Blood Cancer



HELMHOLTZ MUNICH →

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Type of Partners

We are Helmholtz Munich -
a government funded non-profit research organization.

We, unfortunately, do not
have capacity to coordinate
consortia.



We can partner with **any consortia that needs statistical expertise**, taking over part or complete work packages.

We seek partners primarily in Horizon Europe's Health Cluster (cluster 1).

Example: HORIZON-HLTH-2025-01-IND-03: Facilitating the conduct of multinational clinical studies of orphan devices and/or of highly innovative (“breakthrough”) devices.

⇒ Thank you!
Find out more:



<https://helmholtz-munich.de/cf-statcon>