Rapid whole-genome sequencing in hospitalised infants: focus on pediatric oncology

Genetic disorders are an important cause of morbidity and mortality infants. Rapid whole-genome sequencing (rWGS) can diagnose genetic disorders and point to possible intervention in time to improve clinical outcome. The goal of this project is to imagine a setup to implement fast turnaround rapid whole genome sequencing for infants hospitalized across Switzerland at the Health 2030 Genome Center, with a particular emphasis on pediatric oncology.

Your proposal shoud consider the following aspects:

- Sequencing technology
- Turnaround time
- Clinical utility (better outcomes) in comparison to standard of care, focusing on pediatric oncolgy
- Cost and financing
- Make a case for financing through the healthcare system
- Preservation of privacy of genomic information

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Reference

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