

How Researchers Access Clinical Data: Resources, Pathways, and Challenges

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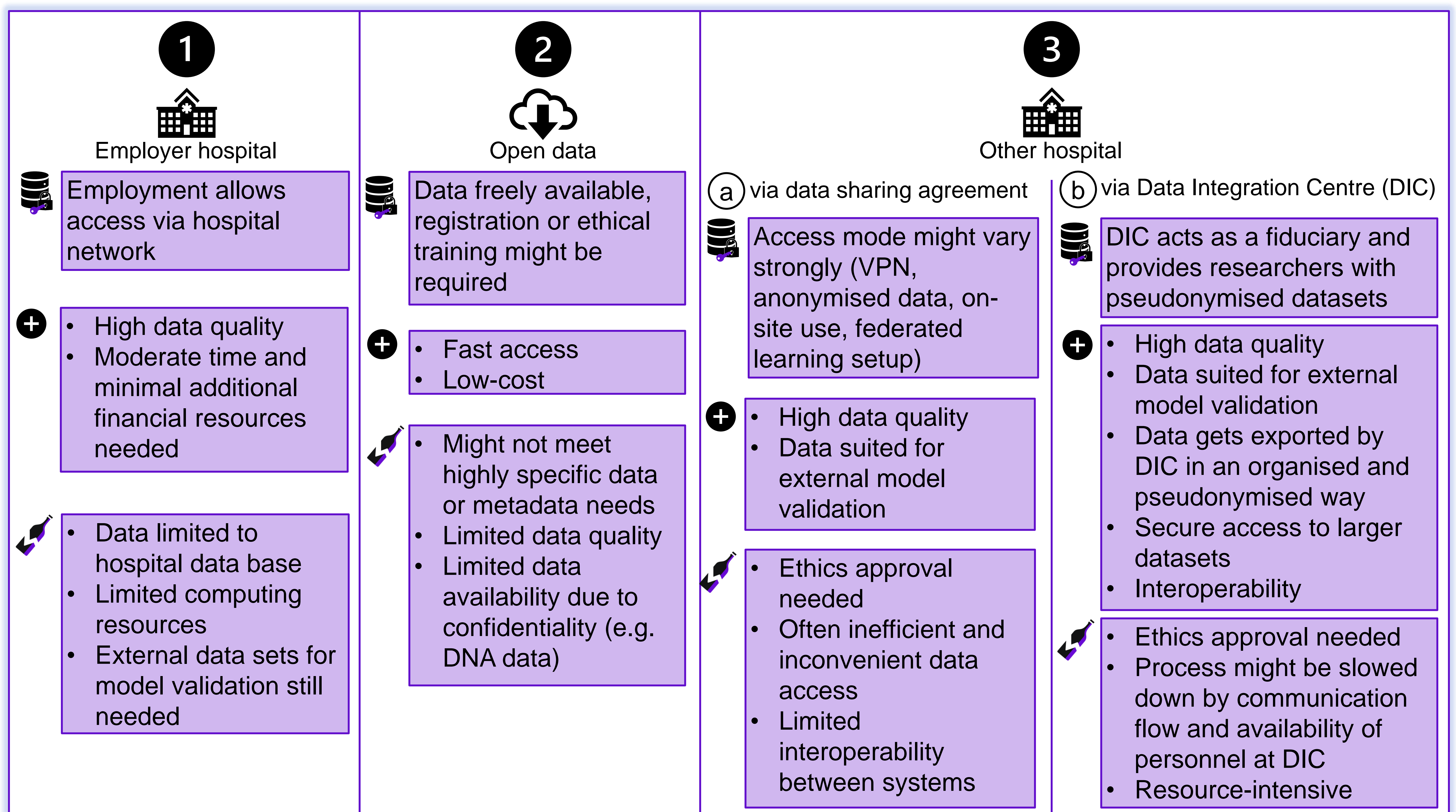
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Introduction

- In the health sector, digitalisation has led to the rapid growth of digital health data
- This work aims to provide an overview of the various **sources of clinical data** used in research, their **access pathways** and **bottlenecks** encountered throughout the data acquisition and utilisation process by researchers and their institutions

Methods & Results



Conclusion & Outlook

- ① provides comprehensive internal data at moderate cost but is limited in scalability across institutions
- ② allows rapid, low-cost research while ensuring privacy compliance but is constrained by scope, specificity, and dataset quality
- ③② enables external validation and access to larger datasets but access might be inconvenient and data not interoperable
- ③③ holds significant potential for researchers, but is restricted by communication flow and available personnel capacity

➔ To advance data-driven biomedical research, future efforts should focus on **simplifying and accelerating ethical and legal procedures**

➔ **DIC capacities should be strengthened** through adequate institutional and governmental support

➔ **Promoting interoperability** via harmonised data formats enables integration across hospitals and datasets, improving data reuse and analysis