

S13 Table. Comparison of domestic laws and overseas cases

	All of Us	UK BioBank	Revised guidelines
Anonymization and Pseudonymization	- Identifying elements replacement or removal	- Identifying elements replacement or removal	- Identifying elements replacement or removal
Data security	- Physical, technical, and administrative security measures - Encryption during data storage and transmission	- Physical, technical, and administrative security measures - Encryption during data storage and transmission	- Physical, technical, and administrative security measures (Network segmentation) - No encryption-related technologies proposed
Access control	- Limited access	- Limited access - Minimal restriction, with allowances as necessary	- No proposal for access
Laws	Privacy Act, FISMA: Federal Information Security Modernization Act	GDPR: General Data Protection Regulation	Bioethics Law, Personal Information Protection Act