

Digital Identity Wallets for Healthcare



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"Solving Complex Issues - Simply"

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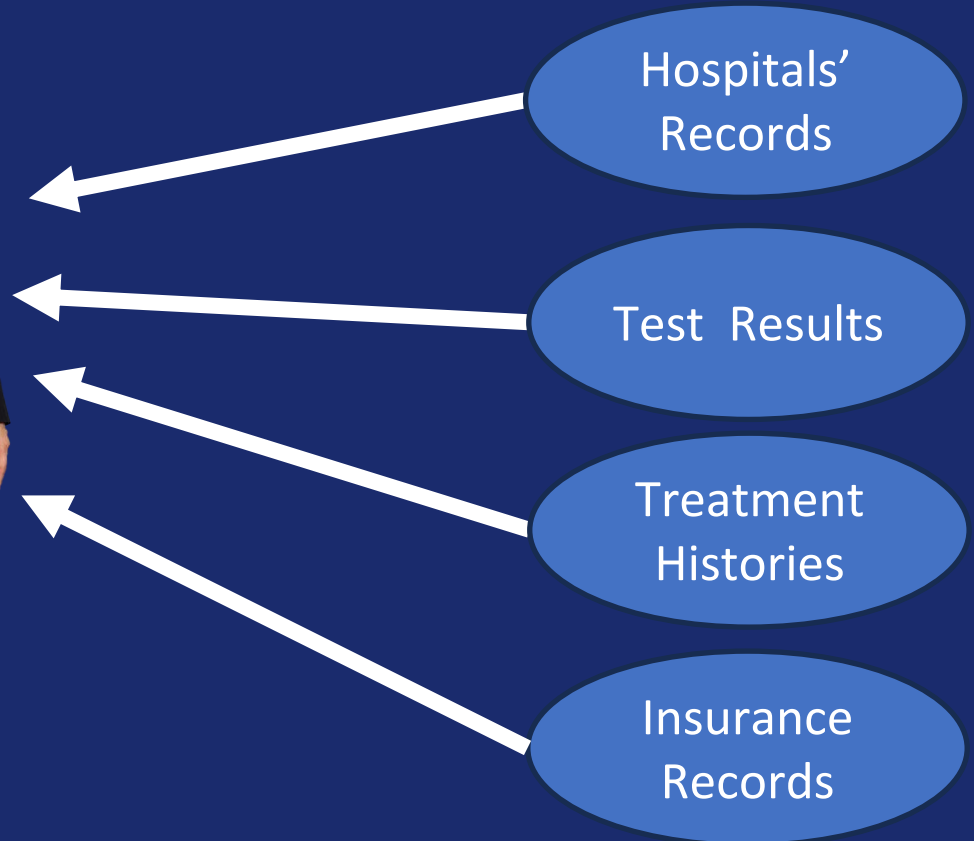
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Truly Patient-Centric Healthcare – Global Choice

Doctor 1

Doctor 2

Doctor 3



Hospitals' Records

Test Results

Treatment Histories

Insurance Records

What is the benefit of Patient Digital Identity Wallets?

- Patient Empowerment: Digital Identity Wallets offer improved efficiency, security, and privacy while giving the citizen more control.
- Health Information Management: Ensuring that correct verified and valid documents can be exchanged or revealed precisely and controllably by their owners:
 - The documents are digitally signed by the issuer and have a pre-determined lifecycle.
 - The documents can either be ad-hoc or can conform to a defined template
 - Some documents can be partially revealed, and others must be revealed in full

How can Patient Digital Identity Wallets be used in healthcare? - 1

For the Patient:

- Digital Identity Wallets enabling the patient to exert personal and confidential control over health records and increased leading to increased choice of care
- Trustworthy records become portable, enlarging the choice of options for healthcare beyond geographic boundaries
- Healthcare Information flows with the patient, saving time and effort, and reducing potential fraud

How can Patient Digital Identity Wallets be used in healthcare? - 2

For the Healthcare Provider:

- Digital Identity Wallets contain all the current records of the patient, regardless where they originated.
- Healthcare Information flows with the patient Identity Wallet, saving time and effort, and reducing potential fraud
- Signed Healthcare Approvals can be kept on wallet and presented for examination thus reducing fraudulent claims and reduced losses
- Issuer of wallet has opportunity for upselling (such as checkups) and communications.

Digital Identity Wallets Verifiable Credentials

- Digital Identity Wallets can hold verifiable credentials from many sources
- Each verifiable credential is digitally signed by the issuer to ensure validity and restrict lifecycle
- They can be used and forwarded as required, and also partially forwarded to prevent showing private information



Healthcare Mobility Use-Cases – 1: Health Tourism

- The patient chooses tests from provider of choice - Anywhere
 - Provider gives full test verified results to patient
- The patient chooses procedures from a practitioner of choice - Anywhere
 - Patient provides copies of test results and other personal details to practitioner
- Verified Information is immediately available to practitioner, together with identity confirmation of the patient (thus reducing fraud)

Healthcare Mobility Use-Cases – 2: Change of Physician

- Patient maintains personal healthcare records in own control or curated by chosen third party in parallel
- Patient may choose to change physician and make the change without delay.
- Information is immediately available to new physician

Issues to Consider - 1

- Resilience of records
 - Data curation: Health Insurance company may wish to offer data storage
 - Patients may not be able to store large volumes of data, say from multiple detailed images
 - Data will need to be signed / verified. (Lifecycle may not be an issue?)
- Semantic and ontology issues
 - A standardised language will be needed. (This may already be partially available in the domain)

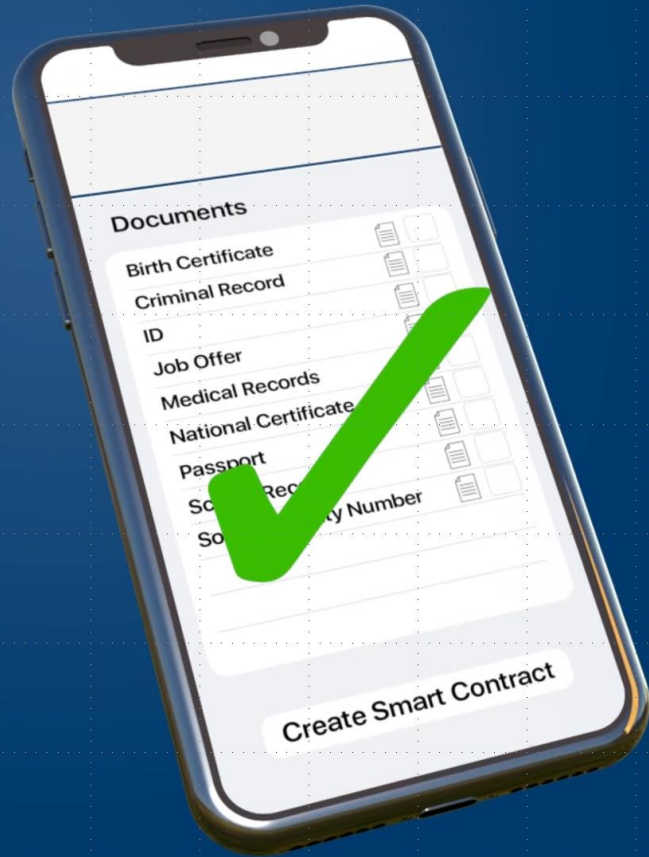
Issues to Consider - 2

- Liability issues
 - The physician is not supplied with complete details
 - Cross jurisdictional issues
 - Quality Standards of both treatment and post-treatment care
- Regulatory Compliance
 - Implementing digital identity wallets in healthcare requires compliance with a variety of regulations, including data protection laws and healthcare-specific regulations

Issues to Consider - 3

Risk / Issue	
Governance	A recognised set of rules need to be agreed globally regarding liabilities and local compliance, as well as recognised practitioner qualifications etc
Semantics	Agreed semantics to avoid misunderstandings
Language	Agreed libraries to ensure translations are consistent .
Recognition -	Quality standards should be universalised. ie LOA3 (high) for identity and signatures
Intention – Clarity of understanding	Clearly explained to the patient
Technical interoperability acting as a bridge between wallet services	Interchange of credentials between wallets should be considered essential
Consideration of Non–Natural Person Wallets	For use by organisations to countersign results, A.I.s and test equipment

Digital Identity Wallets are the Legal Alternative to Paper



Summary

The use of Digital Identity Wallets in healthcare will drive the need for cross-sectoral coordination and a globally holistic approach to personal health



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