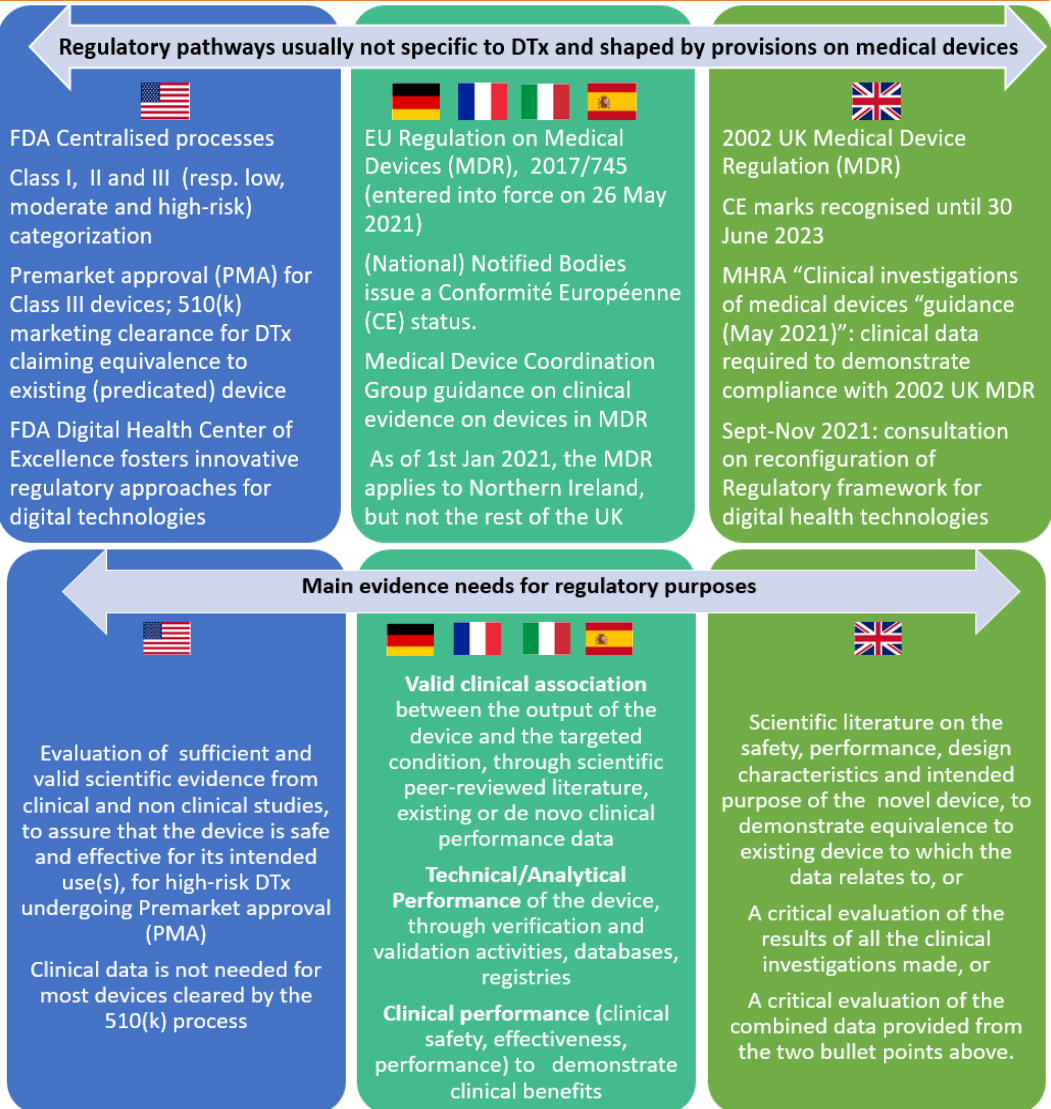


Evidence Requirements in the Regulatory and Reimbursement Processes of Digital Therapeutics: Insights from the US, EU4 and UK

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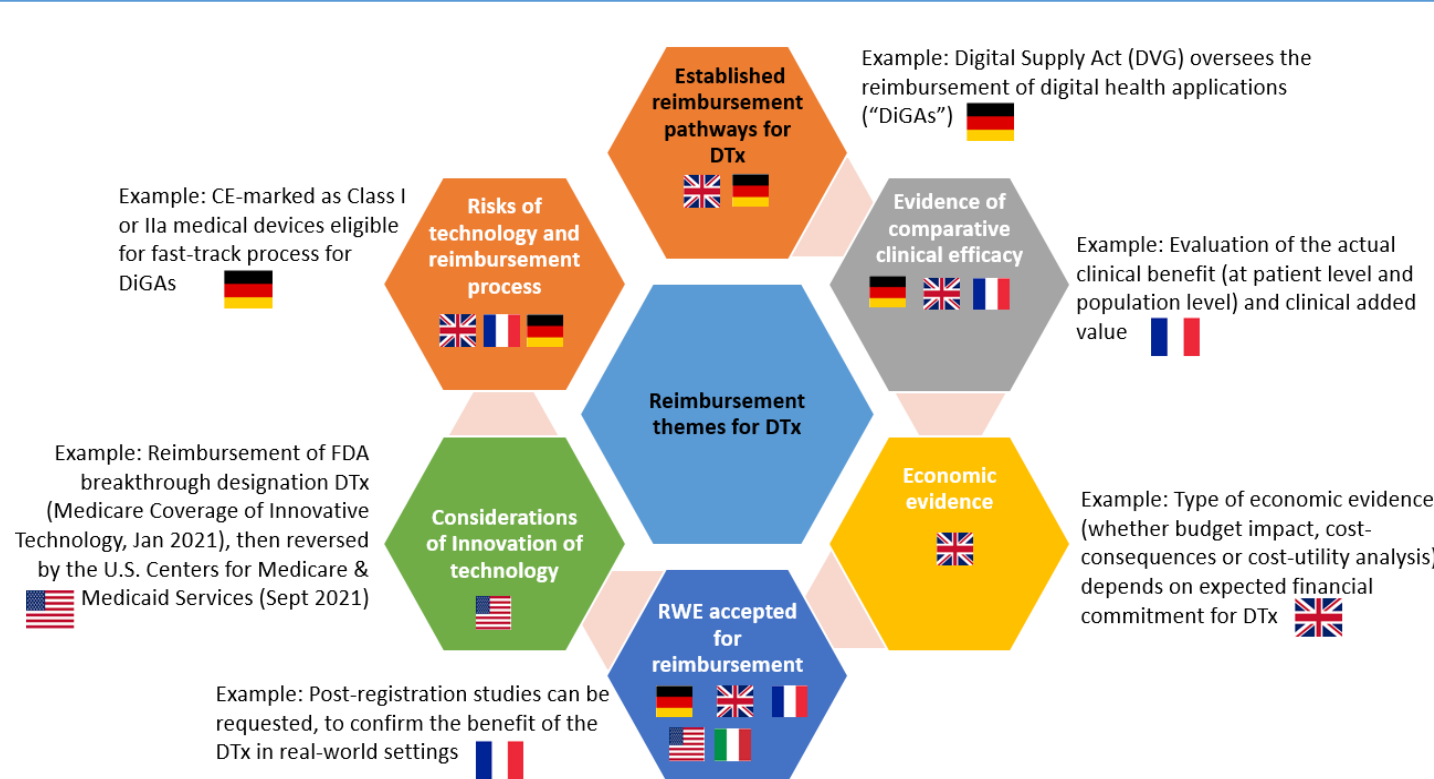
Introduction

Digital Therapeutics (DTx) are software-based programmes increasingly used to diagnose, manage and prevent chronic and behaviour-modifiable diseases. We characterise the pathways and evidence supporting the regulatory approval and reimbursement/HTA of DTx in the United States, EU4 (France, Italy, Spain and Germany) and the UK.



Methods

A pragmatic literature review was conducted in BIOSIS Previews®, Embase®, MEDLINE®, QUOSA®, using keywords related to DTx, regulatory and reimbursement frameworks (January 2010 to June 2021). Searches were supplemented with grey literature, official guidance documents and websites (e.g., FDA, ICER). Databases were searched for DTx approved to date, using Python.



Conclusions

The current regulatory and reimbursement pathways for DTx appear shaped by existing provisions on medical devices. However, some countries (most notably Germany and the UK with NICE) are implementing processes and methods targeted for these technologies. There is a need for Regulators and Payers alike to ensure that their guidance on evidence requirements maintain the pace of the rapid evolution of these technologies.

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References available in separate handout