

# What the Future Holds for Diabetes?

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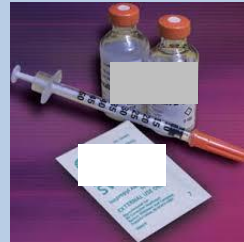
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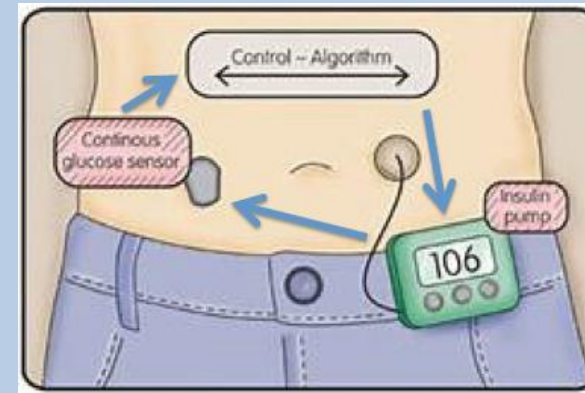
# Automation in Diabetes

3<sup>rd</sup> world country, 1991



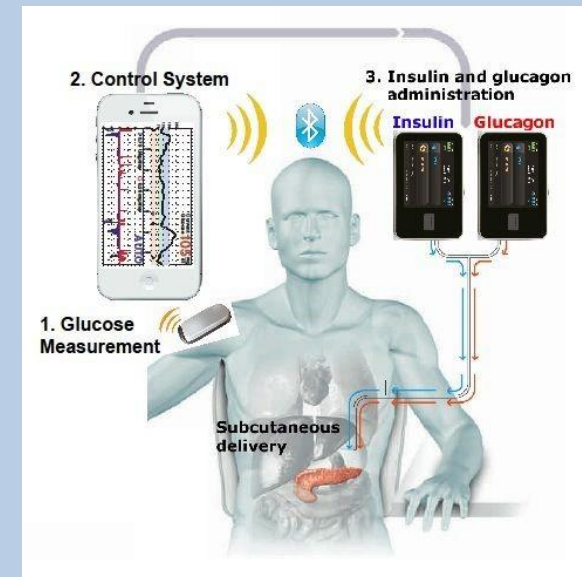
United Kingdom, 2021

4 Commercial Hybrid-Closed Loop Systems in the UK



Where next?

Dual hormone systems  
Speed of insulin action  
Sensor accuracy  
Algorithm improvements and AI  
Cost!!!



# Tackling access & digital literacy

KEY PRIORITY

STRONG IMPLICATIONS ALSO FOR TYPE 2 DIABETES

## Non-invasive glucose monitoring



Lower continuous glucose sensors



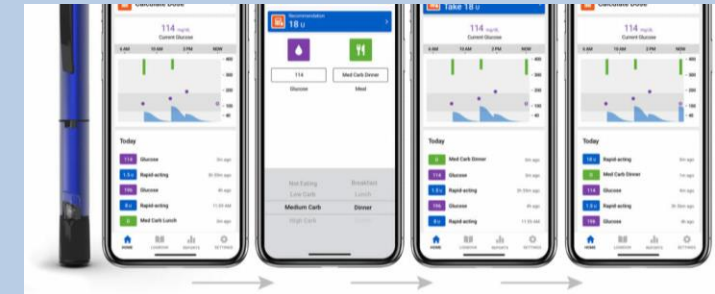
## Smart pens



Lower cost pumps



## Smartphone based advisors



Also...  
Oral insulin  
Longer acting insulins

# Co-producing care?

## Technology driven and patient led care models

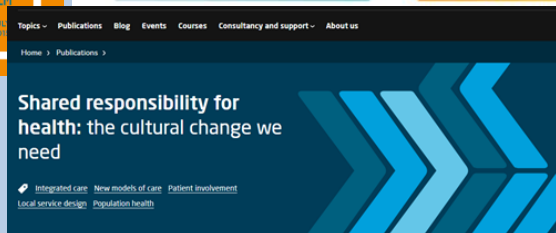
1990's – cut test strips in half!



Figure 4 Old power values and new power values

OLD POWER VALUES	NEW POWER VALUES
Managerialism, institutionalism, representative governance	Informal, opt-in decision making; self-organization; networked governance
Exclusivity, competition, authority, resource consolidation	Open source collaboration, crowd wisdom, sharing
Discretion, confidentiality, separation between private and public spheres	Radical transparency
Professionalism, specialization	Do-it-ourselves, "maker culture"
Long-term affiliation and loyalty, less overall participation	Short-term, conditional affiliation; more overall participation

HBR.ORG



“DIY” real-time cgm



“DIY” or Open-source systems



**Driver: NEED FOR EMPOWERMENT**

Different healthcare access globally

Cost of care

Burden of care

Need for peer support

Online communities & support groups



By product  
**“PAY IT FORWARD”**





**Vision for the future?**