Diabetes Landscape Mapping Innovations List



[1] Wearable insulin delivery

Innovation: Medical Device

Description: A small lightweight pump, without tubes. It is waterproof and gives the user three days of non-stop insulin.

Year: N/A

Link: https://www.ncbi.nlm.nih.gov/pmc/articles/PMC8329021/

Innovation readiness: Commercially available

Source: Survey



[5] Use of Fitbit activity trackers to support

Description: Study looking at how we can track lifestyle data in adults with

[9] Risk prediction algorithms to improve

foot care and ulceration prevention - SBRI

Description: SBRI Challenge aiming to utilise AI and machine learning to

help develop prediction algorithms and risk stratification for diabetes foot

Link: https://hises.edinburghbioquarter.com/diabetes-national-sbri-

Description: Monster Manor is a combination game and logging app for

blood glucose (and other) stats, and are rewarded with piñatas.

children with type 1 diabetes. The premise is simple – children enter their

active lifestyles in adults with Type 2 diabetes

type 2 diabetes as a tool for self management.

Link: https://pubmed.ncbi.nlm.nih.gov/34770110/

Innovation readiness: Developing innovation

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Year: 2021

Source: Survey

A

Year: 2021

Year: 2015

Source: Survey

inpatients-diabetes/

Source: DHI Landscape Review

Innovation: App / Website / Game

Innovation: Algorithm / Data

ulceration, amputation and mortality.

Innovation readiness: Developing innovation

[13] Monster Manor

Link: https://ayogo.com/blog/monster-manor-uk-beta

Innovation readiness: Product/Service available

Innovation: Algorithm / Data



[2] Smart insulin patches

Innovation: Medical Device

Description: Smart insulin patches could potentially remove the need for painful insulin injections for people. It employs painless, microneedles to sense the low oxygen environment created when glucose levels rise. This technology is not yet ready for human trials.

Year: N/A

Link: https://www.diabetes.co.uk/insulin/smart-insulin.html

Innovation readiness: Commercially available

Source: Survey



[6] The use of online communities in the self management of type 1 diabetes: an ethnographic analysis

Innovation: Service Model

Description: Deep dive study into how the existing online diabetes community influences self management

Year: 2020

Link: https://strathprints.strath.ac.uk/72608/

Innovation readiness: Early innovation

Source: Survey

[10] Exploring development of a digital service focusing on prevention of Type 2 diabetes

Innovation: Algorithm / Data

Description: Aim to explore accelerated digital remote platforms to support weight management, active lifestyles and cardiovascular disease prevention.

Year: TBC

Link: https://www.nhscfsd.co.uk/our-work/innovation/

Innovation readiness: Developing innovation

Source: DHI Landscape Review



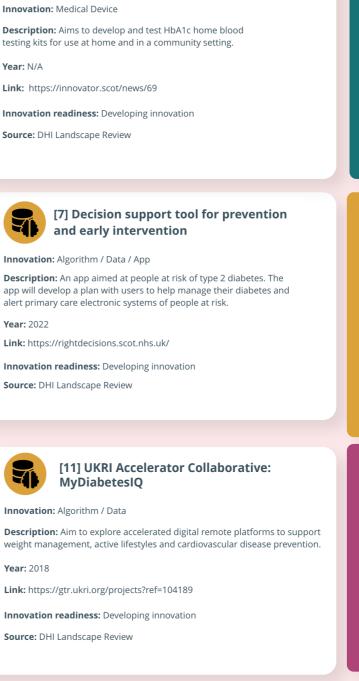
Innovation: App / Website / Game

good diabetes management practices, connecting both children and their parents.

Year: 2012

Innovation readiness: Product/Service available

Source: Survey



[3] Blood glucose testing at home (HbA1c)



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[15] Carb Counting with Lenny



Innovation: App / Website / Game

Description: This series of games, put together by Medtronis and hosted by Lenny, the lion with type 1 diabetes, is focused on teaching children to accurately count the carbs that they are consuming.

Year: 2014

Link: https://www.diabetesincontrol.com/carb-counting-with-

Innovation readiness: Product/Service available

Source: Survey



[14] mySugr Junior

Description: The app features "diabetes monster" that children tame by following

Link: https://www.mysugr.com/en/diabetes-app/

App/ Website/ Game

Al/ Data

Medical device

Service model/ research



Early Innovations

Developing Innovations



[4] My Diabetes My Way

Innovation: App/ Website/ Game

Description: Scotland's interactive diabetes website to help support people who have diabetes and their family and friends.

Year: 2018

Link: https://mydiabetesmyway.scot.nhs.uk

Innovation readiness: Offered as BAU - Innovation aligned to new developments including AI

Source: Survey



[8] Inpatient diabetes care - SBRI

Innovation: Algorithm / Data

Description: SBRI Challenge Aiming to improve the clinical care of patients with a pre-existing diagnosis of diabetes when admitted to hospital by developing a real time decision-support tool that supports triage, prevents mechanism errors, identifies emergencies and streamlines the diabetes care pathway.

Year: 2021

Link: https://hises.edinburghbioquarter.com/diabetesnational-sbri-inpatients-diabetes/

Innovation readiness: Developing innovation

Source: DHI Landscape Review



[12] Understanding the role of technology for physical activity in adolescents living with type 1 diabetes

Innovation: Service model

Description: Study aiming to codesign interventions and services for type 1 diabetics to enable them to manage the risk of taking part in physical activities.

Year: 2022

Link: https://pureportal.strath.ac.uk/en/publications/a-gualitativestudy-for-co-designing-the-future-of-technology-to-

Innovation readiness: Early innovation

Source: DHI Landscape Review



[16] Companion Card

Innovation: App / Website / Game

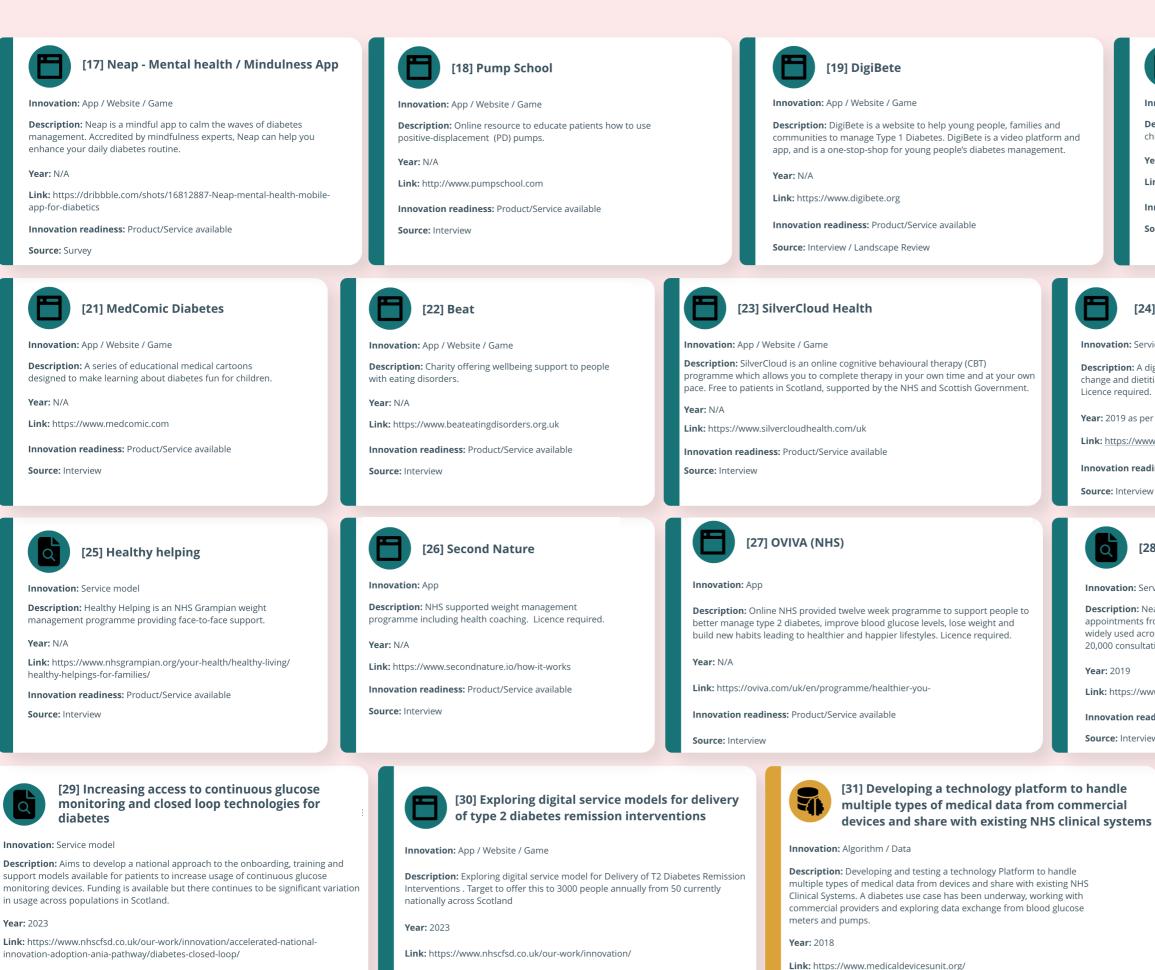
Description: Toolkit invites people WITH type 1 diabetes, their healthcare team and I to break down barriers and connect – in a way that is clear, medically accurate and fun.

Year: 2021

Link: https://www.diabetesbydesign.org/companioncards

Innovation readiness: Product/Service available

Source: Survey



Innovation readiness: Product/Service available

Source: DHI Landscape Review

Source: DHI Landscape Review

Innovation readiness: Product/Service available

Source: DHI Landscape Review

Innovation readiness: Developing innovation



[20] Ready Steady Go

Innovation: Service model

Description: A programme designed to assist with transitioning children from childrens service to adult services.

Year: 2022

Link: https://www.readysteadygo.net/home.html

Innovation readiness: Product/Service available

Source: Interview

[24] Counter Weight digital programme

Innovation: Service model / App

Description: A digital weight loss programme combining meal replacement with behavioural change and dietitian support building on the evidence outcomes of The Direct Clinical Trial.

Year: 2019 as per funding

Licence required.

Source: Interview

Year: 2019

Link: https://www.counterweight.org/pages/nhs

Innovation readiness: Available in regions of Scotland who fund it.

[28] Scotland's NEAR ME service

Innovation: Service model / Platform

Description: Near Me is a video consulting service that enables people to attend appointments from home or wherever is convenient. The service is already widely used across NHS Scotland for health and care appointments with around 20,000 consultation being held every week.

Link: https://www.nearme.scot

Innovation readiness: Product/Service available

Source: Interview

