



Collaborative Working Project executive summary

Project title	A collaborative working project with Health Innovation South West
.,	developing optimal engagement strategies for the uptake of
	Autoimmune type 1 diabetes (At1D) screening for Endocrine patients
	within Royal Devon & Exeter Trust
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Partner organisation/s	South West Peninsula AHSN LTD (T/A Health Innovation South
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	Vantage Point
	Pynes Hill
	Exeter
	EX2 5FD
	Sanofi
	410 Thames Valley Park Drive,
	Reading
	RG6 1PT
Project rationale	Type 1 diabetes is a condition caused by autoimmune damage to the insulin-producing pancreatic beta-cells leading to severe endogenous
	insulin deficiency. Autoimmune type 1 diabetes accounts for
	approximately 5–10% of all cases of diabetes worldwide and in the UK. (Maahs et al, Endocrinol Metab Clin North Am. 2010
	Sep;39(3):481–497).
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	In the UK, around 25% of those with newly diagnosed type 1 diabetes
	present with life-threatening Diabetic ketoacidosis (DKA), with higher
	rates in the very young (up to 30% in those under 5 years of age) and in
	ethnic minority groups. (Besser REJ, Ng SM, Gregory JW, et al. Arch
	Dis Child 2022;107:790–795.)
	Dish atia kata a idaa ia a kifa thaa ataa ia a kut aya idah la aa aa ki a a fi
	Diabetic ketoacidosis is a life-threatening but avoidable complication of diabetes mellitus requiring rapid assessment and is often managed in
	intensive care units.
	intensive care units.
	Some studies indicate that DKA at diagnosis is associated with adverse
	long-term glycaemia (Duca LM, Wang B, Rewers M, Rewers A.
	Diabetes Care. 2017 Sep;40(9):1249-1255.).
	It is now widely accepted that type 1 diabetes is characterised by three
	stages:
	Stage 1: Initiation of the autoimmune process (presence of two
	or more islet autoantibodies); Importantly, currently early stage
	is associated with normoglycaemia. In children, stage 1 is
	associated with a 44% risk of progression to stage-3 within five years of developing stage-1. (Besser REJ, Ng SM, Gregory
	JW, et al. Arch Dis Child 2022;107:790–795.)
	Stage 2: Persistence of type 1 diabetes-related autoantibodies
	with further loss of βcell function and development of
	dysglycaemia. In children, stage 2 is associated with a 75% risk
	of progression to a diagnosis of T1D within 4 to 5 years, and a
	lifetime risk nearing 100%. (Besser REJ, et al. Arch Dis Child.
	2022-107(9)-790-795.)





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	Stage 3: Stage 3 type 1 diabetes with hyperglycaemia which meets ADA criteria. In the absence of early testing, most patients present in this stage.
	Although it is largely accepted within the clinical diabetes community that there are 3 stages of autoimmune type 1 diabetes, early detection and management of pre-symptomatic disease is not routine practice in UK diabetes clinical care.
	Current UK clinical practice suggests that islet autoantibodies are sporadically tested for in the general population, with widespread variability between centres and clinicians.
	Populations at higher risk of developing T1D include; those with associated auto-immune conditions, adults or children with a family history of At1D, people who may have been misdiagnosed with T2D or individuals with no known risk factors.
	Project focus:
	This 12-month collaborative project will develop, implement and evaluate the case-finding model for early identification of presymptomatic Autoimmune Type 1 Diabetes (At1D) within endocrine patients who have co-existing autoimmune conditions. The model will integrate clinical identification, testing pathways and tailored patient and provider engagement strategies to support equitable uptake of screening.
	Patient engagement has been highlighted as a potential barrier to early detection. This project will assess the optimal patient engagement strategies for uptake of At1D screening in the endocrine auto-immune population. Alongside testing engagement approaches, the project will test and evaluate the case-finding model to assess its feasibility, effectiveness, acceptability and equity in routine clinical practice. Findings will inform a scalable framework for wider adoption across the NHS.
Project period	Q4 2025 to Q4 2026
Project objectives	This 12-month project, delivered in partnership between Sanofi, Health Innovation South West (HISW) and Royal Devon University Hospital Trust (RDUH) and under guidance of the ABPI Code of Practice, aims to deliver benefits for patients and the health system.
	The specific aims are to:
	Identify at-risk populations within the current endocrine service who have co-existing autoimmune endocrine conditions, by developing and applying a case-finding approach to enable early detection of pre-symptomatic At1D and improve patient outcomes.
	Optimise patient and provider engagement strategies to increase knowledge and understanding of the importance of early detection, thereby supporting equitable uptake of At1D screening in these populations. Evaluate the feasibility, effectiveness and equity of identifying and engaging these at-risk populations for At1D





screening, generating insights to support sustainable spread and adoption.

It is anticipated the collaborative working project will deliver the following benefits:

Patients

- Increased knowledge and understanding of type 1 diabetes through specialist input.
- Reassurance for antibody-negative patients about their lower risk of developing type 1 diabetes.
- · Improved and increased access to testing
- Earlier education and monitoring for antibody-positive patients, reducing risk of DKA and supporting better glycaemic control.

NHS and Health Innovation Network

- Evidence to inform decisions on integrating case-finding into existing autoimmune caseload pathways.
- Insight into uptake levels from targeted patients, and insights on which engagement strategies are most effective & deliver equitable reach
- Earlier identification and monitoring of presymptomatic At1D patients is expected to reduce the likelihood of DKA at diagnosis, leading to fewer emergency admissions and unplanned care episodes.
- Scalable strategies to support national adoption.

Sanofi

- \bullet Practical insights on the real-world implementation of case-finding for presymptomatic At1D
- Improved corporate reputation with associated partner organisations
- Sanofi has a product in At1D that has been granted a licence by the MHRA and currently under reimbursement review in 2025.

This project will be completed by pooling resources at a total cost of up to £112.933

Sanofi indirect and direct cost = £61,108 HISW /NHS indirect and direct cost = £51,825

Contact details

Health Innovation South West

Anna Lodge

Exec Director of Operations

info@healthinnovationsouthwest.com

Sanofi

Ahmed Moussa

General Manager, General Medicines UK & Ireland

Sanofi UK

GB-marketaccess@sanofi.com