# Achievements 2025 - Working with others we have:

Queen Mary University of London | NHS Barts Health NHS Trust

**BARTS LIFE SCIENCES**

DISCOVERY / DIVERSITY / DELIVERY

Launched the Barts Life Sciences Cluster in partnership with developers and secured ministerial backing. £800m investment announced, corner-stoning the creation of one of the UK's largest and most concentrated life science clusters.

As part of a consortium, secured £43m to develop the UK's first multi-modal platform for AI cancer diagnosis and drug discovery. Now working with clinicians and researchers to develop use cases.

Developed and tested an AI tool to accelerate identification of patients with diabetic foot. 87 patients were highlighted for review, with only 8 known already. Nearly 20% of identified patients were at risk of issues requiring urgent attention. Subject to funding, the tool will launch in 2026.

Developed the PREDICT model, which uses patient and socioeconomic data from free-text narratives and public sources to forecast and prevent emergency admissions for heart valve disease. This could save four critical-care bed days and about £5,000 per patient by shifting severe cases to elective care.

Evaluation of pathology blood films is highly time-consuming and labour intensive. We trialled an AI model on blood films to identify patients at highest risk of blood cancer, speeding up diagnosis and support. The model achieved 84% accuracy. Work is underway to improve it with more training data.

Submitted ~£14m collaborative bids, winning £11m of funding, aligned with clinical and strategic priorities.

Collaborated with AstraZeneca, using AI and NLP to identify individuals at highest risk of lung cancer by extracting diagnostic criteria from electronic health records. In trials, 42% of cancer cases were flagged an average of 16 months early.

Launched Barts Health Futures at Waltham Forest College, offering T-Levels and healthcare training opportunities. A second hub at Capital City College opened in Sept focussed on healthcare science.

Won project with Queen Mary University of London to develop an AI-ECG solution as a screening tool for patients with known or suspected heart disease. The AI tool aims to reduce demand – and thereby shorten waiting lists – for echocardiography and thus decrease the time to diagnose.

Worked with Sanofi and searched ~2.5million medical records and, using AI/NLP, identified 16 new patients at high-risk of the rare Gaucher disease. Identification of these patients took hours, a process normally taking years. Currently discussing expanding the tool to identify 10 different rare diseases.

Developed and deployed a Patient Cohorting Tool that enables researchers to confirm if Barts holds the data required to conduct their studies and assesses study feasibility within minutes. The tool supports research with a highly diverse population.


Developed a Trust-wide Platform for mature AI tools, offering a one-stop location for staff to access developed tools, thus helping to accelerate and scale AI deployment.

Won project with Queen Mary University of London to use AI to analyse rehabilitation data from older adults with fragility fractures, with the aim to identify best practice in rehabilitation outcomes. The insights will shape national policy.

Doubled our followers on LinkedIn, expanding our reach among relevant stakeholders, underpinning our ambition to be *the* national exemplar of innovation translation into the NHS.

Ran six webinars and workshops focussed on clinical needs, such as innovation for elderly care, to drive collaboration with London-based SMEs. The webinars helped SMEs align their innovations with NHS requirements. To date, seven SME projects have been proposed.

Completed market feedback on a proposed Digital Health User Testing Platform to enable the North-east London population to test health apps prior to launch. This platform enables health technology companies to co-design solutions with staff and our diverse patient population, improving digital inclusion.

Signed Memorandum of Understanding with the London School of Economics to develop models for evaluation of new healthcare technologies and with the ABHI to deepen links with innovative HealthTech companies.

We gratefully acknowledge the generous support of **Barts Charity** and thank them for their continued commitment to our work.

# We thank our partners for their collaboration and commitment to driving innovation into healthcare