

Collaborative Working Executive Summary

Project Title	Using Artificial Intelligence (AI) to inform Neurology Service Redesign across Manchester locality.
Project Partners	Northern Care Alliance NHS Foundation Trust (NCA) and Biogen Idec Ltd
Project Summary	<p>This project aims to create and validate an automated system which will extract and validate (non-coded) neurological diagnoses for patients in Greater Manchester, which will be used to inform service redesign and service delivery.</p> <p>Natural Language Processing (NLP) and Artificial Intelligence (AI) will be used to extract, analyse and validate patient medical records, and then link the data to local demographic information and hospital statistics. A strategy document for service redesign based on accurate epidemiological data will be developed, along with a dashboard which will show key metrics for service optimisation and redesign.</p>
Expected Benefits to People with neurological conditions, NHS/NCA and Biogen	<p>NHS/NCA</p> <p>Optimised specialised neurology service pathways which could facilitate more efficient utilisation of NHS resources.</p> <p>PATIENT</p> <p>The insights that inform the strategy document could help ensure patients have access to the optimal service, designed and based on patient need.</p> <p>Patients with undiagnosed/misdiagnosed neurological conditions could be reviewed and placed on the relevant pathway.</p> <p>BIOGEN</p> <p>The insights gained will help Biogen support better service redesign and optimisation for patient access to appropriate healthcare across the NHS.</p>

Resource Breakdown	Biogen will make a financial contribution of £82,306 and a resource contribution (project management and support) of £6,912 to this project.
Start Date	January 2025