

BUILDING AI-BASED SOLUTIONS TO ENHANCE PATIENT SAFETY

ABOUT ABTRACE

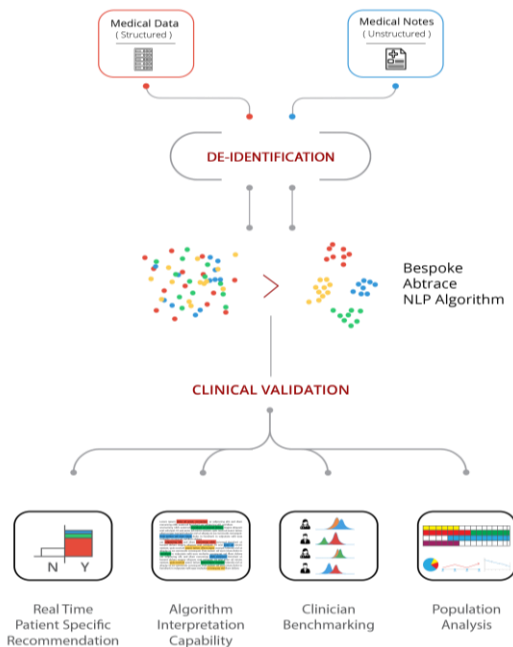
Representing over 40 years of combined clinical experience with backgrounds from the University of Oxford, Cambridge and Harvard, we are an experienced team of doctors, data scientists and regulatory experts based in London, UK.

WHAT WE OFFER

Abtrace was created having secured a €2 million investment from the European Institute for Innovation and Technology. As part of this journey we developed a novel algorithm to tackle antimicrobial resistance through optimising antibiotic prescriptions. We now aim to utilise this tool to address wider clinical concerns across the health service to reduce medical errors, improve patient outcomes and reduce costs.

Our vision is to transform individual clinical decision-making and reduce unwarranted variation of care whilst simultaneously providing up to date data for clinical training and monitoring performance.

A NEXT GENERATION DECISION SUPPORT TOOL – HOW IT WORKS



Our algorithms are based on Deep Neural Networks and Natural Language Processing trained on millions of clinical datapoints.

The clinical tool is built to be fully integrated into the clinical workflow. This means that a clinician will be presented with a clear output which supports clinical decisions in real time.

Key clinical variables contributing to the recommendation are outlined, ensuring interpretability and transparency.

Administrators will be able to access large-scale data from their department, enabling analysis of variation in care.

SECURE AND COMPLIANT WITH REGULATORY REQUIREMENTS

Data security and patient confidentiality is vital to what we do. We have obtained all requirements necessary to utilise this technology safely within the health service:

- NHS Data Security and Protection Toolkit
- Cyber Essentials approved
- GDPR compliant
- Information Management Systems ISO/IEC 27001:2013 certified
- A quality management system certified to standards ISO 13485, ISO 14971 and IEC 62304
- UK-based secured cloud infrastructure accessible through an API
- Expected certification as CE-marked medical device (MD) by Q1 2020
- Independently penetration tested through a CREST certified provider
- In house de-identification available at source with verification on upload
- ICO Registered

NEXT STEPS – CLINICAL PARTNERSHIPS

We actively seek partnerships with healthcare providers in primary and secondary care. We aim to work together to co-develop, trial and validate a clinical decision-making tool on structured and unstructured data, to tackle a clinical problem of particular relevance and concern to our partner team