DRAFT - 22.11-21 V7

Context In June 2021, NHS waiting lists reached record highs, with 5.45 million people waiting for treatment (for example in the East of England 52-week waits across the region have increased to 42K in Feb 2021 from c.400 12 months previously). This dramatic growth in waiting lists during the Covid-19 pandemic, is likely resulting in deterioration in clinical outcomes, avoidable emergency admissions and patient distress adding to the burden of disease. There is also variation in how patients are currently assessed - potentially leading to health inequalities those waiting for treatment. The pressure on NHS resources is compounded by the limited scope of current methods to generate detailed patient risk profiles and provide an effective means of triaging between patients with the same P number (large numbers of patients are given the same P codes). The pilot project, to be evaluated, involves two hospital sites, one the intervention site (Colchester) and the scond the control site (Ipswich). Ratonale This current challenge is leading to a deterioration in clinical outcomes amongst patients waiting for treatment combined with inefficiencies in how limited NHS resources are planned and managed to meet patient needs. The rationale for the C2Ai project is to provide clinical decision-makers with enhanced risk analysis providing access to detailed risk profiles for each patient generated by an Ai enabled platform using existing NHS hospital data. It is hoped this will enable clinical teams to differentiate and prioritise between patients and strengthen their ability to get the right patient to the right facilities at the right time - thereby reducing deterioration and health disparities while increasing staff and service efficiencies. Aim The proposed evaluation will address the impact of the enhanced risk analysis on triaging patients for elective care using key indicators related to efficiency and patient outcomes, generating evidence and insights to support decisions regarding the future development and scale up of this Ai based approach. Outcomes (Outcomes and related measures to be confirmed by the selected evaluation team). Successful delivery of project plan- or ime and budget without significant delays, leading to: Al Platform: Prototype Ai platform and related ESNEFT IT: ESNEFT to ensure hardware and software ESNEFT Team: ESNEFT staffing, IT process made available to support delivery with packground briefing provided to the ESNEFT are available and ready to use at project initiation ar equipment and related training in place uced patient deterioration and completed (for each specialty confirm a named clinical lead and non clinical lead to nterpart team (clinical and non clinical inc ~2-Ai hway). during inception. Data Security: ESNEFT and C2-Ai to confirm protoc ESNEFT IT: Confirmation of IT infrastructure an and related processes for data submission and Data: Data protocols for uploading. data requirements with ESNEFT delivery team and IT counterpart - PTL data if possible or HES analysis and downloading agreed with Data Sharing Agreements signed (for alysis. Finalise Data Sharing Agreement (DSA). eased Staff Efficiency (Clinical and non-clinical) nsure online C2-Ai platform is fully operational and data. In addition - 24 months HES data (all data accessible by ESNEFT team with support provided by each speciality pathway). in CSF format). C2-Ai for its use as needed. ESNEFT Team: ESNEFT to engage with and provide eased patient throughput for specified procedures Team: ESNEFT to confirm project delivery tea upport and training to delivery team on the basis d les and res itial training needs analysis undertaken during iding weekends project start up (including IT team). prehension: Clinicians and users Clinical Pathways: Confirm clinical pathways and target patient population to be included in the project analysis. ESNEFT Team: ESNEFT to establish and brief Clinica e platform understand data requi duced health inequalities /disparities and Operational Reference Group (CRG) on their role and the process by which results are in project delivery. erated from the platform. Data Security: Confirmation of secure data mparison: C2Ai outputs in terms of prioritisation of patients at Colchester site, compared against existing data upload protocols as the basis for uploading da aff engagement/ satisfaction/acceptability/feasib linical and non-clinical) Data: Data acquisition from ESNEFT and upload. rom ESNEFT. Provide pre-existing template for Data Sharing Agreement (DSA). rom control site (Ipswich). Guidance: Provide guidance and templates for methodology and uploading process for Neighted Scoring System generated by the C2dding: C2Ai embedded and Data: Data collation, analysis and output for uced duplicates on patient list actively being used to prioritise patients awaiting treatment (for each Ai analysis /templates (Data Sharing Agreement) made available during project set aluation including PTL analysis and related eighted scoring system. cialty pathway). up to enable project initiation flows to mence. ESNEFT Team: Engage and support ESNEFT PTL: Review and Adapt once the initial PTL analysis staff providing guidance to clinicians and nonclinicians during design/delivery phase and ESNEFT and Evaluation team during project ev as been provided, including any adjustments of th

oring matrix weightings as appropriate to the CRG

PTL: Ongoing PTL download and clinical validation

nly?) in consultation with ESNEFT delivery

nd ESNEFT delivery team.

Task and Finish: ESNEFT to establish Project / Task and Finish group and support the CRG and its role in project delivery.

T hardware: (including necessary software) and related staffing with appropriate expertise for successful delivery of the project.

Data: All data needed for successful delivery related operating protocols with reference to data collection, sharing, analysis and use confirmed and agreed (Data Sharing

Funding from ESNEFT and C2Ai