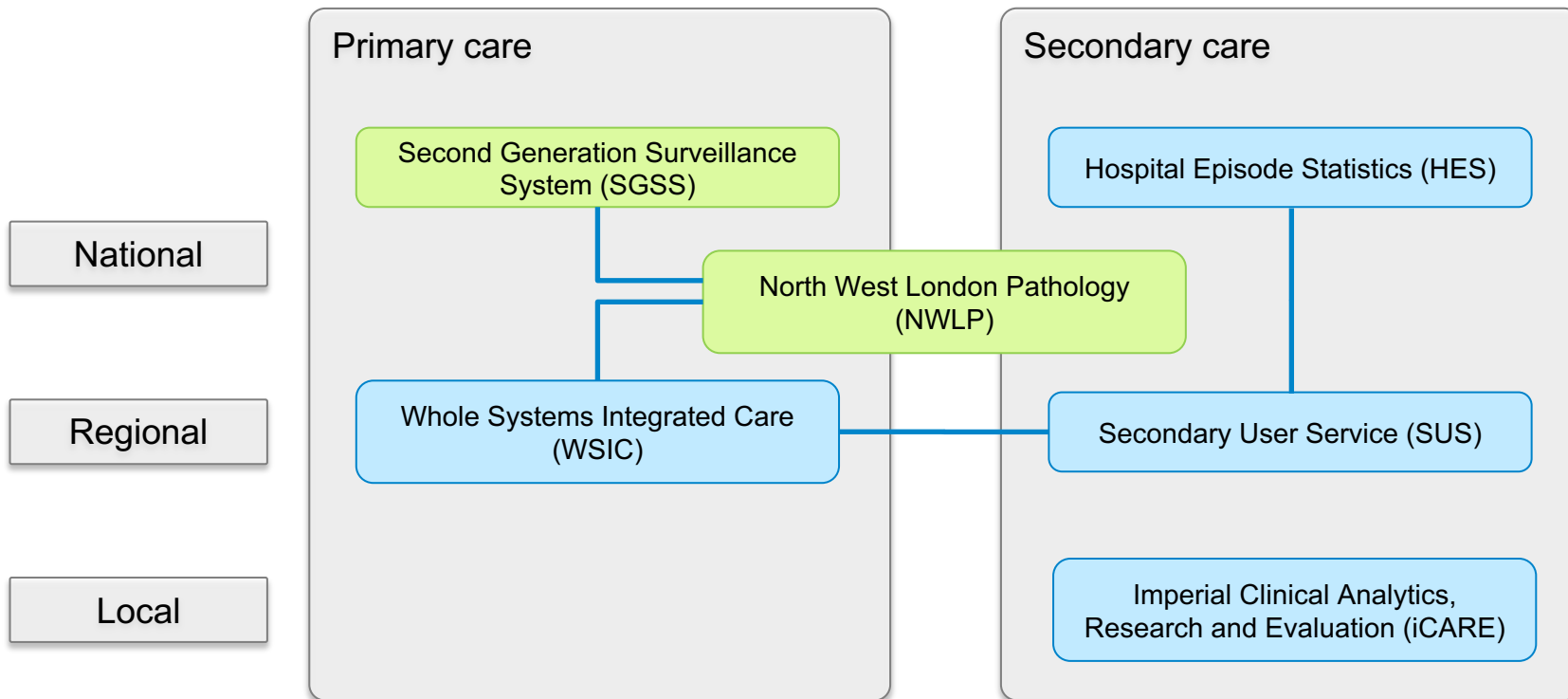


Data linkage resources, access, analysis, and outputs for integrated care

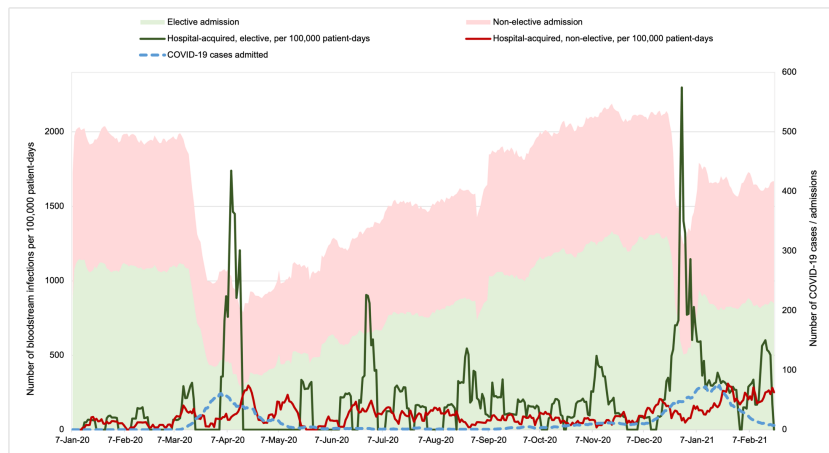
Nina Zhu PhD MPH MSc
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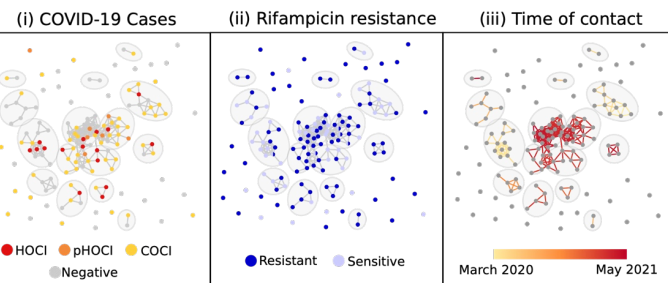
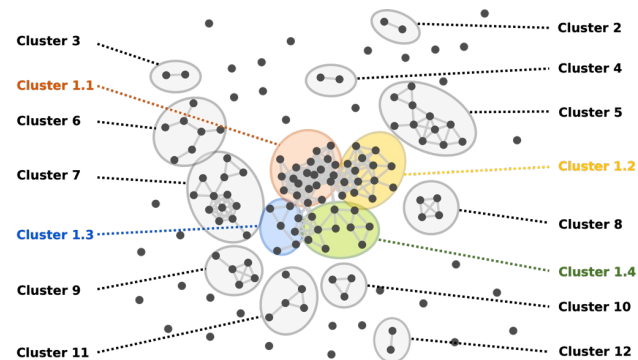
Imperial Clinical Analytics, Research and Evaluation (iCARE)

- Real-time routine clinical and laboratory data
 - De-identified for research accessible through TRE
 - Creates, tests, and evaluates clinical interventions
 - Linkage with WSIC, images, tissue bank, and genomics
-

Real-time monitoring of HCAI burden, vaccination among staff, and screening and laboratory capacity during the pandemic



Early identification of newly emerged resistant pathogens, simulation of transmission and clustering



Whole Systems Integrated Care (WSIC)

- Linked clinical and social care records
 - De-identified for research accessible through TRE
 - Expanded linkage with North West London Pathology
 - Allow assessment of social determinants influencing care access, infection and AMR burden
-

Ecological analysis

Individual-based risk modelling and economic analysis

AMR surveillance

Second Generation Surveillance System (SGSS)

North West London Pathology (NWLTP)

GP antimicrobial prescribing indicator and patterns

NHS Business Service Authority (BSA)

Whole Systems Integrated Care (WSIC)

Hospital electronic records

Hospital Episode Statistics (HES)

Secondary User Service (SUS)

Follow patient journey across primary and secondary care to assess treatment outcomes, supported by linkage with prescribing and laboratory data

