

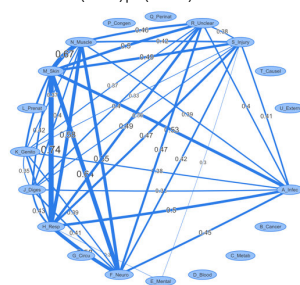
Towards Prevention and Better management of Multimorbidity In **Common Allergic Conditions** Research Collaborative

Impact: This work will identify **unmet need** and **shape interventions** to **prevent** multimorbidity and **improve care** in people with multimorbidity amongst people with common allergic diseases.

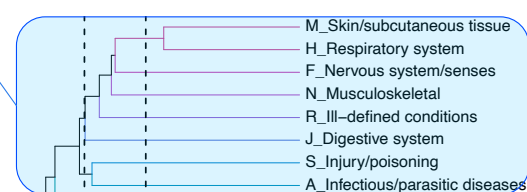
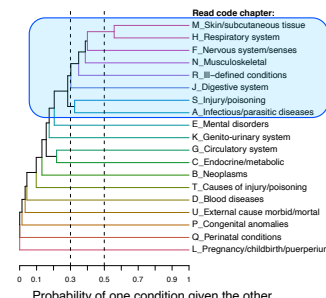
Novelty: No previous research **focus on allergic disease**, despite high prevalence. Investigation of a **novel multimorbidity cluster** (skin, respiratory, neurological, and musculoskeletal).

Results from consolidator phase: eczema in men aged 50

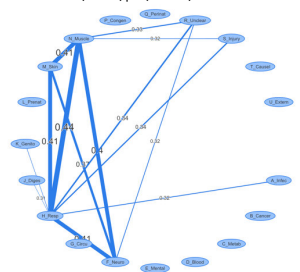
Atopic eczema
(age, sex, practice, follow-up adjusted)
 $P(A^*B)/P(A+B) > 0.3$



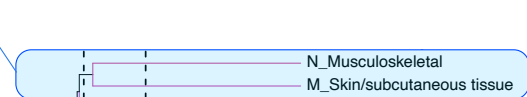
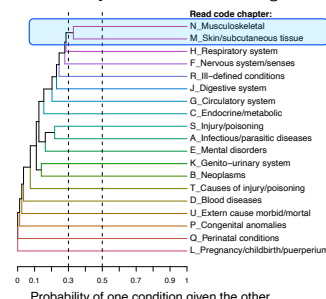
Atopic eczema
(age, sex, practice, follow-up adjusted)
Probability of one condition given the other



Matched controls
(age, sex, practice, follow-up adjusted)
 $P(A^*B)/P(A+B) > 0.3$



Matched controls
(age, sex, practice, follow-up adjusted)
Probability of one condition given the other



Work packages and partners

Patient and public involvement will be embedded in all work packages.

WP1. CLUSTERS OF MULTIMORBIDITY

WP2. MECHANISMS TOWARDS PREVENTION

WP3. TOWARDS BETTER CARE

Imperial College
London



LONDON
SCHOOL of
HYGIENE
& TROPICAL
MEDICINE



Swansea
University
Prifysgol
Abertawe



University
of Glasgow



THE UNIVERSITY
of EDINBURGH

Data sources



Clinical Practice Research
Datalink (CPRD)



Secure Anonymised
Information Linkage (SAIL)



UK Biobank



1970 British
Cohort Study



Avon
Longitudinal
Study of
Children and
Parents
(ALSPAC)



The NHGRI-EBI Catalog of published
genome-wide association studies



Summary-level data from
consortia



Clinical trials data

Interviews and
focus groups



<https://a-henderson91.github.io/MICAC>