

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).



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

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



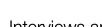
Avon Longitudinal
Study of
Children and
Parents
(ALSPAC)



Summary-level data from
consortia



Clinical trials data

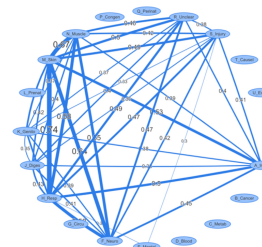


Interviews and
focus groups

Results from consolidator phase: eczema as an example

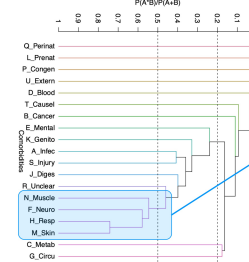
Atopic eczema

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



Cluster dendrogram

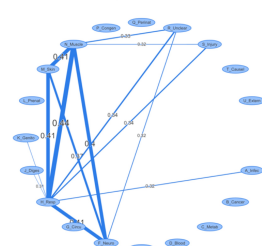
Atopic eczema
 $P(A*B)/P(A+B)$



N_Muscle
F_Neuro
H_Resp
M_Skin

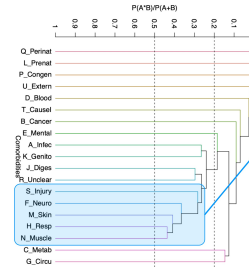
Matched controls

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



Cluster dendrogram

Matched controls
 $P(A*B)/P(A+B)$



S_Injury
F_Neuro
M_Skin
H_Resp
N_Muscle