

# 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).

## 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



British Birth Cohorts



Avon Longitudinal  
Study of  
Children and  
Parents  
(ALSPAC)



Summary-level data from  
consortia

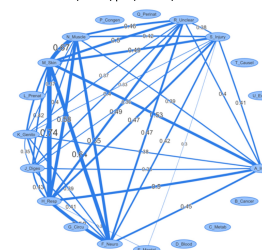


Clinical trials data

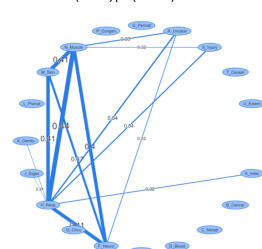
Interviews and  
focus groups

## Results from consolidator phase: eczema as an example

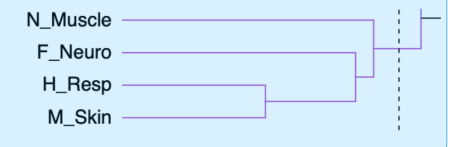
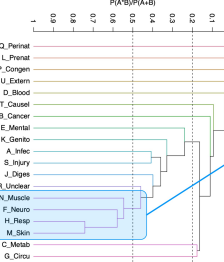
**Atopic eczema**  
(age, sex, practice, follow-up adjusted)  
 $P(A*B)/P(A+B) > 0.3$



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



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



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

