

09:00 – 09:40 Registration and coffee

Session 1

09:40 – 10:00 Plenary session, Lecture Theatre 1 and streamed to Lecture Theatre 2

Welcome and presentation by the Head of Department **Prabhat Jha**

10:00 – 11:15 LT1: Dementia

Chair: **Sarah Floud** (5)

Alcohol and risk of dementia

Anya Topiwala (8)

Association between objectively measured multidimensional sleep health and incident dementia in the UK Biobank

Yiwei Yue (8)

Blood-based biomarkers and risk factors for dementia: value of population-based cohorts with long follow-up

Tom Littlejohns (8)

Kidney function and dementia risk in the UK Biobank: APOE pleiotropy and subtype-specific vascular proteomic signatures

Peien Zhou (8)

Measuring what matters: Translating blood-based biomarkers for dementia

Daniel Chapman (8)

Living alone with dementia: a cohort characterisation using CPRD Aurum

Miriam Lucar Flores (8)

UK Biobank: how can we enhance the resource for late-life cognition and dementia research?

Janet Maccora (8)

There will be two minutes for discussion after each talk.

10:00 – 11:15 LT2: Infectious Diseases

Chair: **Angela Brueggemann** (5)

Linking UK Biobank to UKHSA data to find infection causes

Danny Wilson (20)

Discussion (5)

Evidence of human-pathogen genetic interactions in Staphylococcus aureus bloodstream infections

Hugh White (5)

Global and regional molecular epidemiology of HIV-1 during 1990 – 2024

Ayisha Khalid (5)

Last observations of inpatient physiology data are more effective than time series in mortality prediction

Zizheng Zhang (5)

Discussion (7)

Malaria-Schistosoma mansoni co-infection in Ugandan fishing communities

Max Lang (5)

Clinical decision support systems for periportal fibrosis staging

Eloise Ockenden (5)

Harm from bloodstream infections in acute and emergency care

Kieran Johnstone (5)

Discussion (7)

11:15 – 11:45 Break

Session 2

11:45 – 13:00 LT1: 30 Years of the Million Women Study

Chair: **Toral Gathani**

The origins of the Million Women Study and key breast cancer results

Toral Gathani (12)

Early detection of breast and colorectal cancer

Isobel Barnes (12)

Effects of diet and alcohol on cancer and liver cirrhosis

Keren Papier (12)

Genetics and cancer risk

Karl Smith-Byrne (12)

Evidence on diverse outcomes: venous thromboembolism, dementia and mortality

Sarah Floud (12)

Discussion (15)

11:45 – 13:00 LT2: AI

Chair: **Bartek Papiez and Philip Awadalla** (5)

Results from our AI survey and AI work

Philip Awadalla (10)

TBC

TBC (10)

Discussion (5)

User perspectives on explainable deep learning models for rheumatoid arthritis

Zhiyan Bo (10)

Deep variational inference for multi-ancestry Bayesian fine-mapping from summary statistics

Shizhe Xu (10)

Discussion (5)

Cardiometabolic disease in the era of big data and AI

Qiang Zhang (10)

Deep learning-derived pericardial adipose tissue from cardiovascular magnetic resonance imaging in 62,000 UK Biobank participants

Imen Hammami (10)

Discussion (5)

13:00 – 14:00 Lunch

Session 3

14:00 – 15:00 LT1: Bringing biobanks together

Chair: **Naomi Allen**

Accessing biobanks

Naomi Allen (5)

Accessing CKB

Daniel Avery (7)

Accessing UKB

Adam Lewandowski (7)

Accessing MCPS

Diego Aguilar Ramirez (7)

Discussion (6)

Are you fit enough for surgery?

Jessica Caterson (7)

Genomic discovery of wearable-derived physical activity in >200,000 individuals

Chariloas Zisou (7)

Genome-wide association meta-analysis identifies aldosterone as a risk factor for intracerebral haemorrhage

Robin Walters (7)

Discussion (6)

14:00 – 15:00 LT2: Healthy longevity

Chairs: **Sasha Shepperd and Ben Lacey (5)**

Have we made hip and knee replacement safer for an ageing population? Eighteen years of postoperative pulmonary embolism and major bleeding in England, 2006 to 2024

Billy Zhong (6)

Inequalities in hip fracture incidence and treatment across England over the last decade (5)

James Webster (6)

The Knee Arthroplasty Trial: 20-year clinical and economic results of a surgical trial

Helen Dakin (6)

Discussion (10)

Smoking, exhaled CO and risk of Parkinson's disease

Clara Bueno-Lopez (6)

Can a routine blood count predict obstructive airway disease? Eosinophils and the incidence

Benjamin Mappin-Kasirer (6)

Weight loss in older patients with persistent atrial fibrillation (LOSE-AF): a randomised clinical trial

Rohan Wijesurendra (6)

Discussion (9)

Session 4

15:30 – 16:30 Plenary session, Lecture Theatre 1 and streamed to Lecture Theatre 2

Update on EDI and Athena Swan

Sasha Shepperd

Long service awards and closing remarks

Prabhat Jha

Plenary session

Trey Ideker, incoming Director of the Big Data Institute

16:30 – 18:00 Drinks reception