**Analytics:**

**Summary of analytics (To be continued):**

(1) Cox-proportional hazards regression. HR and 95% CI, p value calculated.

(2) For standard model: Treat unprocessed red meat consumption (gram) variable as continuous: 100 grams/day increase, or categorical (quintile or quartiles used: lowest as reference).

For multivariable nutrition density model: divide unprocessed red meat consumption (gram) by total energy intake, and then treat meat variable as continuous: 100 grams /2000kcal/day increase or categorical (quintile or quartiles used: lowest as reference).

(3) The standard model (or so-called residual model, substitution model) that adjusted for total energy and the interpretation will be average relative causal effect.

(4) The multivariable nutrition density methods that divided just the unprocessed red meat by the daily calorie intake. The interpretation will be average relative causal effect rescaled as a proportion of total energy. The density method also adjusted for total energy intake.

(5) Subgroup analysis by age (4 groups), sex (3 groups).

(6) Complete cases analysis.

(7) 48 optional adjusting variables. 8 mandatory adjusted variables: For all model: age(continuous), sex, smoking, total energy are adjusted. For female model, menopausal status, hormone therapy, parity, oral contraceptive use are additionally adjusted.

(8) We are only focusing on unprocessed red meat and all-cause mortality.

(9) Mortality data linked from CDC is up until 31 December 2019. We have 2007-2014 NHANES data.

(10) Accident constitutes all-cause mortality. All-cause mortality is defined as: diseases of heart, malignant neoplasms, chronic lower respiratory disease, accidents (unintentional injuries), cerebrovascular disease, Alzheimer disease, diabetes mellitus, influenza and pneumonia, nephritis nephrotic syndrome and nephrosis, all other causes (residual).

(11) We are focusing 20-79 years adults.

(12) Combine coronary heart disease and stroke to get history of cardiovascular disease

(13) Combine day 1 and day 2 and use average for dietary intake.

(14) please refer to meeting questions