**Minutes from AFGen call on June 25, 2016**

**Attending:**

|  |  |
| --- | --- |
| **AGES** |  |
| **AFNET/KORA** |  |
| **ARIC** | Alvaro |
| **CHS** | Susan |
| **WGHS** | Christine, Dan, Jorge |
| **FHS** | Honghuang |
| **Gutenberg** |  |
| **HABC** |  |
| **Ship** | Tim, Stephan |
| **Cleveland Clinic** | Jonathan |
| **WHI** |  |
| **Luric** | Marcus Kleber |
| **Malmo** |  |
| **MESA** | Henry |
| **Rotterdam** |  |
| **MGH** | Ingrid, Lu-Chen, Steve, Carolina, Patrick |
| **Prevend** |  |
| **Prosper** |  |
| **Vanderbilt** | Ben |
| **Korean AF network** |  |
| **Generation Scotland** |  |
| **Beat-AF** | Sebastien, David |
| **BioMe** |  |
| **ULSAM/Epihealth/ Pivus/Twingene** |  |
| **FINCAVAS** |  |
| **Heinz Nixdorf** |  |
| **DDCHS** |  |
| **Sao Paulo** |  |
| **Munich WTCC stroke** |  |
| **Metastroke** |  |
| **Geisinger** | Diane |
| **UCL** |  |
| **Mayo** |  |
| **PR interval** |  |
| **Estonia biobank** |  |
| **Copenhagen City Heart Study** | Christina |

**Agenda**

**New business**

* Genetic Risk Score for Recurrence after AF Ablation – presentation of analysis plan - Ben
  + Does addition of a genetic risk score including all of the known genetic loci associated with AF to a clinical only model improve prediction of arrhythmia recurrence following AF ablation?
  + Only one variant at the 4q25 locus has previously been associated consistently with AF recurrence after AF ablation
  + Ideal to get this out soon, before the 1000G is published?
  + Wait for the final genotyping in the Broad GWAS? Concern about colliding with the Ablation GWAS. Different questions answered by the two studies.
  + **Next steps:** 
    - **Ben will reach out to groups who have contributed data to AF ablation study**
    - **Working on initial analysis in Vanderbilt – will share results at later point**
    - **Please contact Ben (**[**moore.b.shoemaker@vanderbilt.edu**](mailto:moore.b.shoemaker@vanderbilt.edu)**) if you want to participate!**

**Old business**

* MR alcohol and AF – presentation of recently published paper on this topic – Jorge
  + Found a linear relationship between alcohol intake and AF in men, not in women.
  + No association between genetic variants for alcohol intake and AF.
  + Now 5,685 cases -> wish to include more individuals; goal is at least 6,000.
  + Propose to analyze incident cases only.
  + Another paper on association between alcohol and cardiovascular disease was circulated with today’s agenda; using participant level data. Feasible to do this analysis?
  + Association seems to be for heavy drinkers. Would the genetic risk score be sufficient to model this? Could add drinkers vs. non-drinkers.
  + Lookup SNPs in 1000G AF study and look for association with AF.
  + **Please contact Jorge (**[**jwong37@partners.org**](mailto:jwong37@partners.org)**) and Christine (**[**calbert@mgh.harvard.edu**](mailto:calbert@mgh.harvard.edu)**) if you want to participate!**
* MR thyroid free T4 level and AF - discussion of revised analysis plan – Dan
  + Postponed to later call
* 1000G AF meta / Exome chip – Ingrid, Kathy, Carolina
  + After additional QC issues, the final results are now complete.
  + Will send for lookup in stroke consortium and eQTL analysis in the Cleveland Clinic LAA samples shortly.
  + Working on in silico functional lookups
  + Aim at circulating the manuscript within a few weeks
* Broad AF project – Steve, Carolina
  + Working on imputation
* WGS AF – Patrick
  + Sequencing is finished for EOAF and controls; variant calling underway at Michigan
  + Sequencing has also been performed in approximately 20 cohorts not on this call (other phenotypes) – plan on contacting these cohorts to see whether it is possible to get access to AF data.
  + Anticipate to have a regular call. **Let Patrick (**[**ellinor@mgh.harvard.edu**](mailto:ellinor@mgh.harvard.edu)**) know if you want to participate.**

**Next call:** June 8, 2016