**APCAPS STUDY COLLABORATOR REQUEST FORM**

If you would like to use the APCAPS study data and/or biological samples in your work, please complete this form and submit to [apcaps.crf@gmail.com](mailto:apcaps.crf@gmail.com). If you have any queries about APCAPS data or policies, relevant information can be found on our website [apcaps.lshtm.ac.uk](http://apcaps.lshtm.ac.uk).

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| **1. Applicant and project details** | | | |
| Applicant Name(s) | Email | Organisation | |
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| Proposed Project Title |  | | |
| What will be the intended output of this collaboration? Please select ONE answer only. | Data analysis for publication (e.g. research paper, poster)  Completion of an examined research project (e.g. Masters’ thesis) \*  Other (please specify): \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_  \*If part of an examined research project:  Please state the type of degree and start and end dates:  Please also state the name of contact email of the academic supervisor of this project:  Please note that if you are a student analysing APCAPS data for an examined research project (e.g. MSc thesis) you will need to submit a further collaboration request if you want to write up the analysis for publication. | | |
| Aims and objectives of proposed project. *(200 words max)* |  | | |
| Anticipated start date |  | | |
| Anticipated end date |  | | |
| Has this project been funded? | Yes\*  No  \*Please state the funder and start and end dates of the grant: | | |
| Data requirement *(please tick all that apply)* | Existing secondary data  New assay of existing bio-resources  Collection of additional data | | *(if ticked, complete form 2, p3-5)*  *(if ticked, complete form 3, p6)*  *(If ticked, complete form 4, p7)* |
| **Please note: We require that collaborators must actively involve at least three researchers from Indian institutes involved in the relevant APCAPS follow-up in published research using APCAPS data.** | | | |
| Are researchers based at the lead collaborating Indian institutions involved in this analysis (see Terms and Conditions)? | Yes  No  If yes, names and email addresses:  If no, please review the relevant section of the APCAPS website to identify co-investigators with relevant expertise and contact. If you need assistance in contacting them, please let the APCAPS team know. | | |
| After completing all necessary forms, please refer to the terms and conditions of APCAPS collaboration. | | | |

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| **2. Existing secondary data application form**  *Please select only the minimum set of variables you require for your analysis, to comply with data regulations. Further variables can be requested later if necessary. See APCAPS website for full data details.* | | | | | | | |
| **Domain** | **Sub-Domain** | **1st Wave (2003-05) \*** | **1st Wave (2003-05) \*\*** | **2nd Wave (2009-10)** | **3rd Wave (2010-12)** | | **4th Wave**  **(2021-23)** |
| **Socio- Demographics** | **Birth Details** |  |  |  |  | |  |
| **Tribal Status / Caste** |  | NA | NA |  | |  |
| **Marital Status** |  | NA |  |  | |  |
| **Migration Details** |  | NA | NA | NA | | NA |
| **Socio-Economic Status** |  |  |  |  | |  |
| **Lifestyle** | **Alcohol** |  | NA |  |  | |  |
| **Tobacco** |  |  |  |  | |  |
| **Breast feeding & food supplementation** | NA |  | NA | NA | | NA |
| **Foods Consumed** |  |  |  |  | |  |
| **Derived Dietary Variables** | NA | NA |  |  | |  |
| **Frequency of Daily Physical Activities** |  | NA |  |  | |  |
| **Derived Physical Activity Variables** | NA | NA |  |  | |  |
| **Sleep Patterns** |  | NA |  |  | |  |
| **Indoor fuel use** |  | NA |  |  | |  |
| **Ambient and Personal Air Pollution** (modelled black carbon and PM2.5) | NA | NA | NA |  | | NA |
| **Medical History** | **Personal and Family History** |  | NA |  |  | |  |
| **Immunization** |  |  | NA | NA | | NA |
| **COVID-19** | NA | NA | NA | NA | |  |
| **Mental Health & Wellbeing** | **Depression** | NA | NA |  |  | |  |
| **Anxiety** | NA | NA | NA | NA | |  |
| **Health-related Quality of Life** | NA | NA |  |  | |  |
| **Chronic stress** | NA | NA | NA | NA | |  |
| **Alcohol use disorder** | NA | NA | NA | NA | |  |
| **Reproductive Health** | **Reproductive History** | NA | NA |  |  | |  |
| **Fertility** | NA | NA |  |  | |  |
| **Puberty** |  | NA | NA | NA | | NA |
| **Anthropometry** | **DXA Body Composition** | NA | NA |  |  | |  |
| **DXA Bone Mineral Density** | NA | NA |  |  | |  |
| **TANITA Body Composition** | NA | NA | NA |  | |  |
| **Circumferences** |  | NA |  |  | |  |
| **Hand Grip Strength** | NA | NA |  |  | |  |
| **Skinfold** |  | NA |  |  | | NA |
| **Weight & Height** |  |  |  |  | |  |
| **Cardiovascular Physiology** | **Blood Pressure** |  | NA |  |  | |  |
| **Arterial Stiffness (PWV)** |  | NA |  |  | | NA |
| **Arterial Stiffness (Aug. Index)** |  | NA |  |  | |  |
| **Carotid Intima-Media Thickness** | NA | NA |  |  | |  |
| **Heart structure and function** | NA | NA | NA | NA | |  |
| **Arrhythmia (ECG)** | NA | NA | NA | NA | |  |
| **Diabetes Complications** (people with diabetes or pre-diabetes) | **Neuropathy** | NA | NA | NA | NA | |  |
| **Diabetic ulceration** | NA | NA | NA | NA | | pending |
| **Peripheral arterial disease** | NA | NA | NA | NA | |  |
| **Retinopathy** | NA | NA | NA | NA | | pending |
| **Respiratory** | **Spirometry** | NA | NA |  |  | | NA |
| **COPD (symptom-based screen)** | NA | NA | NA | NA | |  |
| **Asthma (symptom-based screen)** | NA | NA | NA |  | |  |
| **Healthcare** | **Healthcare use** | NA | NA | NA | NA | |  |
| **Medication use** | NA | NA |  |  | |  |
| **Medication expenditure** | NA | NA | NA | NA | |  |
| **Biomarkers** | **Full Blood Count** |  | NA |  |  | |  |
| **Fasting plasma glucose** |  | NA |  |  | |  |
| **Cardiovascular Markers** |  | NA |  |  | | pending |
| **Liver, bone and kidney function** | NA | NA |  |  | | pending |
| **Inflammatory Markers (CRP)** | NA | NA | NA |  | | pending |
| **Biological samples**  (NB samples must be analysed in India) | **Banked blood** (serum, plasma, whole blood) |  | NA |  |  | |  |
| **DNA** | NA | NA | NA |  | | NA |
| **Urine** | NA | NA | NA | NA | |  |
| **Stool** | NA | NA | NA | NA | |  |
| **Ageing-related measures** | **Cognition/Dementia** | NA | NA | NA | NA | |  |
| **Frailty** | NA | NA | NA | NA | |  |
| **Falls** | NA | NA | NA | NA | |  |
| **Cataracts** | NA | NA | NA | NA | |  |
| **Functioning and impairments** | **Functioning** | NA | NA | NA | NA | |  |
| **Gait** | NA | NA | NA | NA | |  |
| **Vision impairment** | NA | NA | NA | NA | |  |
| **Hearing impairment** | NA | NA | NA | NA | |  |
| **Other conditions / symptoms** | **Liver fibrosis** | NA | NA | NA | NA | | pending |
| **Dental health** | NA | NA | NA | NA | |  |
| **Chronic pain** | NA | NA | NA | NA | |  |
| **GORD (symptom-based screen)** | NA | NA | NA | NA | |  |
| **Tuberculosis (symptom-based screen)** | NA | NA | NA | NA | |  |
| **Goitre** | NA | NA | NA | NA | |  |
| **Raw digital data** | **Body photographs (clothed)** | NA | NA | NA | NA | |  |
| **Teeth photographs** | NA | NA | NA | NA | |  |
| **Feet photographs** (visible light and infrared, diabetics only) | NA | NA | NA | NA | |  |
| **Retinal images** | NA | NA | NA | NA | |  |
| **Video of 6 metre walk** | NA | NA | NA | NA | |  |
| **Accelerometery of 6 metre walk** | NA | NA | NA | NA | |  |
| **Free living accelerometery data** | NA | NA |  |  | |  |
| **ECG trace** | NA | NA | NA | NA | |  |
| **Central blood pressure trace** | NA | NA |  |  | |  |
| **Echocardiogram images** | NA | NA | NA | NA | |  |
| **Liver ultrasound images** | NA | NA | NA | NA | |  |
| **CIMT images** | NA | NA |  |  | |  |
| **DXA scan images (subset)** | NA | NA |  |  | |  |
| **Abdominal MRI scans (subset)** | NA | NA |  | NA | | NA |
| **Breath and vowel sound recordings** | NA | NA | NA | NA | |  |
| **Speech recordings** | NA | NA | NA | NA | |  |
| \* Index children. \*\* Mothers of index children | | | | | | | |
| **Geotagged built environment survey data** | | | | | | **2016** | |
| **Shops selling food, tobacco & alcohol** | | | | | |  | |
| **Physical activity** | | | | | |  | |
| **Health services** | | | | | |  | |
| **Educational services** | | | | | |  | |
| **Advertisements, public transport and walkability** | | | | | |  | |
| **Other data**  Please give details of other APCAPS data requested if not listed above (e.g., sub-studies, qualitative, village-wide household survey data). Contact APCAPS team for more information. | | | | | | | |
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| **Analysis plan and justification of selected variables**  *Please describe your plan of analysis to justify each of the variables you have selected above. Collaborators can only have access to variables they can demonstrate a need for in their scientific research.* |
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| **3. New assay of existing bio-resources** |
| Please describe the assays required for your analysis, including type, number of samples, APCAPS participants who you want to assay, what **kind of biological material** is required for the (e.g. plasma, whole blood, saliva), and the **minimum amount of material needed.**  Also provide contact details for the Indian laboratory where your assays will be carried out and a copy of the assay protocol.  *Please note that it is not possible to transfer biological samples from India to other countries. All assays must be conducted in India.* |
| Over what dates do you intend these analyses to occur? |
| Please describe the predicted cost of the assays and the source of funding you have available to cover these costs.  *Please be aware that typically assays are more expensive to conduct in India than in UK or elsewhere.* |
| Have you sought or do you intend to seek ethical approval for the proposed project?  Yes  No  *Please describe any additional ethical considerations which may arise out of this analysis and how you will address them.* |
| The APCAPS bio-resource team will be in touch with you to discuss your proposal further. |

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| **4. Collection of additional data** |
| Please describe the data you wish to collect, including the variables needed, means of collection, and sampling. Outline how this data will be used in an analysis and what value it holds for the APCAPS study as a whole. |
| Over what dates do you intend this data collection to occur? |
| Fieldwork with the APCAPS cohort is conducted by the existing field teams. Please describe the predicted amount human resources required to collect this data (i.e., number of person hours per week) and the amount of time for training required. |
| Please describe the predicted cost of the new data collection and the source of funding you have available to cover these costs. |
| Have you sought or do you intend to seek ethical approval for the proposed project?  Yes  No  If no, please describe your reasons for not seeking ethical approval.  Please describe any additional ethical considerations which may arise out of this analysis and how you will address them. |
| *The APCAPS collaborations team will be in touch with you to discuss your proposal further.* |

**Terms and Conditions for collaboration**

We welcome potential collaborators. The request will be reviewed by the APCAPS executive committee. Collaborators can expect a decision within 3-4 weeks. In most cases data will be shared with bona fide researchers who agree to comply with the following terms and conditions for data sharing:

1. Collaborators can only request access to data which will be of use to them in their scientific research and must only use this data for **purposes originally stated** in this application form. They must under no circumstances attempt to identify any individual participants from the data. Data must not be shared with third parties unless specified in the original application.
2. We require that collaborators must **actively involve at least three researchers** **from Indian institutes involved in the relevant APCAPS follow-up** in their published research using APCAPS data (e.g., to contribute to analysis strategy and/or interpretation of results). They should be named as a co-author on any publications or acknowledged at the end of the publication if mutually agreed that their involvement will not be considerable. They will act as a guarantor for the original data in relation to its design, mode of collection, reliability, maintenance and analysis.
3. We require collaborators to **upload any new data derived** from existing variables onto the main project database (along with thorough documentation and a contact email) so that others may benefit from them in future. This must be done within 1 year of data generation (after 1 year we will open the data to sharing with other collaborators).
4. The final draft of any manuscripts being prepared for publication must be shared with the APCAPS executive at least **3 weeks before final submission.** This is to check participant confidentiality is protected and to ensure the study or its participants have not been misrepresented in any way. The APCAPS Executive reserves the right to require that any paper which could potentially breach the confidentiality of APCAPS participant(s) be withheld from submission for publication.
5. All submitted manuscripts must comply with the **APCAPS Publication Checklist** (see below\*).
6. The **data handling fee** for use of APCAPS data will typically be £2000. However, the APCAPS executive committee reserves the right to use their discretion when applying this fee, and exceptions may be granted (for example for researchers based in Low or Middle-Income Countries and unfunded students).

*Requests involving use of finite bio-resources or new data collection will be reviewed by the APCAPS Internal Steering Group. Decisions will be based on consistency of proposed research with the APCAPS strategic objectives and long-term maintenance of the cohort. Collaborators can expect a decision within 2-3 months. The following additional terms and conditions apply:*

1. Collaborators will be required to **upload all newly collected/acquired data** onto the main project database (along with thorough documentation and a contact email) so that others may benefit from them in future. This must be done within 1 year of data lockdown (after 1 year we will open the data to sharing with other collaborators).
2. There will be an **additional handling fee** for use of finite bioresources to contribute to sample maintenance. This will be discussed with the APCAPS bioresource team and will vary depending on bioresources used. Material Transfer Agreements will apply. Biological material cannot be transferred out of India.
3. Collection of additional data will be led by the **existing APCAPS team** based on the budget agreed by the APCAPS executive.

**\*APCAPS Publication Checklist** (to be reviewed by APCAPS Executive before approval for publication is approved)

* Manuscript will be published Open Access or deposited in an Open Access repository. Final published version PDF AND link to Open Access DOI will be shared with the APCAPS team upon publication.
* Includes name of the cohort (“APCAPS”) in the title or abstract
* Acknowledgement of the APCAPS study team (including any key investigators for that data type) at the end of the paper (see list of investigators on website)
* Acknowledgment of APCAPS funding bodies including grant reference numbers at the end of the paper (see list of funders for different data types on website)
* Includes an accurate description of the study numbers (see website) and the correct references to the cohort.
* Includes an accurate description of the ethical approval and obtaining consent (see website).

I confirm that I have read the above and agree to adhere to the conditions stipulated.

Name:

Signed: Date:

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Please submit this application along with signed terms and conditions to [apcaps.crf@gmail.com](mailto:apcaps.crf@gmail.com)

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| **FOR ADMIN USE ONLY** |
| Check to confirm that applicant (or APCAPS team on applicant’s behalf) has contacted co-investigators from Indian Institutes to collaborate in the published research. |
| Date approved by Executive Committee: |
| Person sharing data and date of sharing: |
| Notes/comments/relevant correspondence: |