**Supplementary Table 1. Current studies involved in the ActEarly birth cohorts Working Group**

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| **Name** | **State or country** | **ANZ DOHaD representative and/or principal investigator** | **Participant details** | **Study aim** | **Stage** | **Website** |
| Aboriginal Birth Cohort | Northern Territory | Gurmeet Singh | n=686 babies born to mothers who identified as Aboriginal, at the Royal Darwin Hospital | To assess the effect of early life factors, birth and childhood, on later physical and mental health, and to examine which factors influence these across the life course | On-going; cohort study | http://www.menzies.edu.au/page/Research/Centres\_initiatives\_and\_projects/Aboriginal\_Birth\_Cohort\_Study\_-\_1987\_to\_2013\_and\_beyond/ |
| BABY1000 | New South Wales | Adrienne Gordon | Women (and their partners) recruited before and in early pregnancy from five New South Wales hospitals/locations | To identify the modifiable risks and interventions prior to, and during pregnancy that impact the intergenerational cycle of obesity and diabetes | Not yet recruiting; RCTs and cohort study | http://sydney.edu.au/perkins/research/current-research/baby1000.shtml |
| Barwon Infant Study  | Victoria | Peter Vuillermin | n**=**1,074 infants | To generate new knowledge regarding the early life origins of non-communicable diseases in the modern world | On-going; cohort study | http://www.barwoninfantstudy.org.au/ |
| Environments For Healthy Living Griffith birth cohort  | Queensland | Rani Scott | n=3,368 pregnant women and their 3,402 infants | To determine how the social and physical environments in which children grow up in can impact on their health and development | Completed; repeated sample, longitudinal cohort | https://www.griffith.edu.au/health/school-medicine/research/population-health/environments-for-healthy-living |
| Gen V | Victoria | Melissa Wake  | Statewide approach to  all newborns via universal services  | To embed a research capability into Victoria’s health and education services to investigate genetic, social and environmental drivers of health and disease; and build a platform to test translatable solutions | Not yet recruiting; discovery cohort and intervention research platform | https://www.mcri.edu.au/research/priorities/generation-victoria |
| GI BABY | New South Wales | Jennie Brand-Miller  | GI BABY 1 n=99 women with GDMGI BABY 2 (continuation from GI BABY 1) n=58 women including n=55Mother-infant pairs.GI BABY 3 n=139 women at high risk of GDMGI BABY 4 (continuation from GI BABY 3) n=59 mother-offspring pairs | To investigate the effect of the glycaemic index during pregnancy in women with or at high-risk of GDM and their offspring | Completed; RCTs | N/A |
| Illawarra Born: cross-generation health study | New South Wales | **Brin Grenyer and** Michelle Townsend | n=100, 41 families at different stages across the lifespan: infants, adulthood (parents) and older adulthood (grandparents) | To improve health and wellbeing across the lifespan, with a particular focus on preventable chronic diseases, especially mental health | Feasibility study completed; cross-sectional and longitudinal design | http://ihmri.uow.edu.au/illawarraborn/index.html |
| Longitudinal Study of Australian Children, including Child Health CheckPoint | Australia | Melissa Wake | n=10,000 children (aged 0-1 and 4-5 years at recruitment) and their families | To investigate the contribution of children's social, economic and cultural environments to their health, development and wellbeing | On-going; cohort study | <http://www.growingupinaustralia.gov.au/><https://www.mcri.edu.au/research/projects/longitudinal-study-australian-childrens-child-health-checkpoint>  |
| The Melbourne Children’s LifeCourse Initiative | Victorian and Australia | Katie Allen | A collection of over 20 longitudinal studies with over 40,000 participants | To bring together resources and data to aid new research questions that cannot be addressed using lone studies. Such questions centre on rare exposures and new and important risk relationships. | On-going; cohort studies and RCTs  | <http://lifecourse.melbournechildrens.com>/  |
| The Nest Study | New Zealand | Julian Crane | n=450 second trimester pregnant women  | To explore whether exposure to feather bedding is protective against allergy and asthma in infants | Recruiting; RCT | N/A |
| New Zealand Asthma and Allergy Cohort Study (NZAAC) | New Zealand | Julian Crane | n=1105 newborns; n=1064 mothers completing 3 month home visit and questionnaire and n=1011 mothers completing 15 month home visit and questionnaire | To seek out possible relationships between environmental factors, respiratory health and the development of allergy in young children | On-going; cohort study | N/A |
| Nini Helthiwan project | Western Australia | Karen Edmond | n=800 pregnant women and their infants who identify as Aboriginal or Torres Strait Islander attending antenatal care in the Kimberley region | To determine whether an new model of enhanced model of maternal care (clinical governance and peer led targeted support) can improve antenatal care and the health of Aboriginal mothers and young infants | Recruiting; RCT and cohort study | N/A |
| The ORIGINS Project  | Western Australia | Susan Prescott and Lyn Colvin | Families intending to deliver at the Joondalup Health Campus (public and private) | To create a platform for research based upon the DOHaD principles, with a large biobank and databank | The first two sub-studies within ORIGINS are ready to commence recruitment; cohort study and RCTs | <http://originsproject.telethonkids.org.au> |
| Pregnancy and Neonatal Diabetes Outcomes in Remote Australia (PANDORA) | Northern Territory | Louise Maple-Brown | n=700 women with any type of diabetes in pregnancy (type 1, type 2 or gestational diabetes) | To improve the care and outcomes for women with diabetes in pregnancy and their babies | On-going; longitudinal cohort study | http://www.menzies.edu.au/page/Research/Projects/Diabetes/The\_Northern\_Territory\_Diabetes\_in\_Pregnancy\_Partnership\_Project/ |
| Probiotics in Pregnancy (PIP) | New Zealand | Kristin Wickens | n=423 pregnant women randomised to *L. rhamnosus* HN001or placebo taken daily from 14-16 weeks gestation till 6 months in breastfeeding women  | To investigate the effect of a probiotic taken by mother only on eczema and atopy in the infant at 1 year | Closed to recruitment, follow-up continuing; RCT  | http://www.otago.ac.nz/wellington/departments/medicine/research/otago031744.html |
| Raine Study | Western Australia | Peter Eastwood and Jenny Mountain  | n=2,900 pregnant women and 2,868 infants | To determine how events during pregnancy and childhood influence health in later life. | On-going; cohort study | http://www.rainestudy.org.au/ |
| Small baby Omega-3 trial (SO3)  | New South Wales | Michael Skilton | n=576 SGA babies | To investigate the effect of omega-3 fatty acid supplementation on arterial intima-media thickness and blood pressure in children who are born SGA | Not yet recruiting; RCT | N/A |
| The ‘Stork’ stepped wedge RCT | Western Australia | Karen Edmond | All mothers (and their newborn/s, n=~4,300) who give birth to a live baby at a public hospital in Western Australia and identify as Aboriginal and/or Torres Strait Islander, or identify their baby as Aboriginal and/or Torres Strait Islander | To improve health outcomes in Aboriginal and Torres Strait Islander babies in Western Australia through improved access to early infant primary care | Piloting; RCT and cohort study | N/A |
| Top End Cohort  | Northern Territory  | Gurmeet Singh | n=196 individuals age matched to the Aboriginal Birth Cohort; born to mothers who do not identify as Aboriginal, at the Royal Darwin Hospital and still living in Darwin  | To assess the effect of early life factors, birth and childhood, on later physical and mental health, and to examine which factors influence these across the life course | On-going; cohort study | N/A |
| A trial of the effect of probiotics on the development of atopy and eczema in children | New Zealand | Kristin Wickens | n=474 pregnant women randomised to either *L. rhamnosus* HN001 or *B. Lactis* HN019 taken daily from 35 weeks gestation till 6 months in breastfeeding women, and from birth to age 2 years in infants | To investigate the effect of two different probiotics on the development of atopy and eczema in children at 2, 4 and 6 years | Closed to recruitment, follow-up continuing; RCT | N/A |
| Women And Their Children’s Health (WATCH) Study | New South Wales | Clare Collins and Alexis Hure | n=180 pregnant women and their offspring | To test whether maternal nutritional factors are important predictors of offspring outcomes such as growth, body composition, and childhood cognition | Completed; cohort study | N/A |

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