



GenV Focus Area Survey Final Report

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Abstract

The GenV Focus Area Survey was developed to engage with policymakers, researchers and practitioners in order to road test its six proposed Focus Areas and to ensure that GenV was developing an inclusive data platform that could meet the needs of a wide range of users. An online survey was conducted and found that mental health and wellbeing (particularly mothers' and babies') were the most important priorities. The diversity of interests align with GenV's Lifecourse approach.

Keywords

Content Areas, Priorities, Consultation, Cross-sectional survey, Cohort, Design, GenV

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Aboriginal acknowledgement

The Murdoch Children's Research Institute acknowledges the Traditional Custodians of the land upon which we are situated. We pay our respect to their Elders past, present and emerging.

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Acknowledgement

This report is a collaborative effort. We wish to express our appreciation of the vital contributions made to this project by the policymakers, researchers and practitioners in helping to shape GenV's priorities by identifying unanswered questions within the GenV Focus Areas.

List of abbreviations & glossary

ANZSOG Australian and New Zealand School of Government

ARACY Australian Research Alliance for Children and Youth

CHA Children's Healthcare Australasia

GenV Generation Victoria

MCC Melbourne Children's Campus (MCRI, RCH, The University of Melbourne)

MCRI Murdoch Children's Research Institute

RACP The Royal Australasian College of Physicians – Paediatrics and Child Health

Division

RCH The Royal Children's Hospital, Melbourne

WHA Women's Healthcare Australasia

1. Executive Summary

Generation Victoria (GenV) is the largest birth cohort study ever planned in Australia (n>100,000). Its primary objective is to create very large, whole-of-state birth and parent parallel cohorts for discovery and interventional research that accelerate research to improve the health of children and their families. To achieve this objective, GenV needs to focus on outcomes that are important to families, services and policymakers and supports research that maximises the benefit of a large birth cohort.

GenV Focus Areas

GenV has developed a Focus Area Framework to summarise the six defined areas that broadly impact on children, parents and families (Figure 1). This framework considers 'Inequity and Vulnerability' across all focus areas, and initially concentrates on the 'Mothers and Babies' life stage. The six areas encompass child and parent biology, physical and mental health, and the built and social environments in which children and their families live, work and play.

Figure 1: Focus Areas



GenV Focus Area Survey

The GenV Focus Area Survey was developed to engage with policymakers, researchers and practitioners, to road test the six proposed Focus Areas and to ensure that GenV was developing a data platform that could meet the needs of a wide range of users.

An online REDCap survey was sent to practitioners, service providers/managers, researchers, policymakers and project managers through GenV's partners and some peak bodies between September and November 2019. Respondents were asked which focus area was most relevant to their work. They were then asked to think about the focus area in relation to the first 1000 days of a children's life and the top three priorities needing solutions within the focus area. Statistical analyses were performed in Stata V.15.0.

Results

A total of 176 participants responded to the survey; they comprised a broad range of users.

Respondents worked across different sectors but predominantly the health sector (77 per cent). The work of most respondents was based in the state of Victoria (n=66), but all states and territories were

represented.

- The top two priorities nominated by respondents related to mental health and wellbeing in families, specifically mothers and babies.
- This was followed by priorities related to early childhood development and education, environmental factors impacting on health, prevention of childhood obesity, and access and engagement with services.

Discussion

There were two key findings:

- 1. The diversity of the top five priorities
- 2. Top priorities were similar across sectors and primary roles.

The top five priorities reflect some of the complex issues of our time but they also reflect the complex interplay between the individual, their family, their community and society more broadly. The diversity of interests across health and education is well reflected and aligned with <u>GenV's Lifecourse</u> approach. The fact that these issues were identified across sectors supports the breadth of GenV and highlights the need for multi-disciplinary and multi-sector approaches to help solve these complex issues.

The survey's findings have implications for GenV's data collection and engagement across sectors. One of the purposes of conducting this survey was to find out what priorities were important to our users so GenV can collect data that addresses them. The challenge for GenV will be how we collect data on these five broad priorities, including the top priority of mental health, to meet the needs of our users.

Addressing complex issues requires working together across sectors focused on a common goal. An important role and principle of GenV is to ensure there is high quality data that can facilitate these collaborations and partnerships to help solve the complex issues affecting today's children and adults. These key findings will inform future work with researchers, practitioners and policymakers.

Strengths and limitations

- **Limitation:** By design, the sample was not representative, so the priorities listed by respondents were unlikely to be representative of the general population. Respondents worked predominantly in the health sector (77 per cent).
- **Strength:** The survey successfully engaged a relatively large number of diverse respondents working across sectors, states and primary roles (n=176).

Conclusion

The Focus Area Survey was an important element of GenV's initial engagement with a large number of researchers, practitioners and policymakers across sectors and states. This report finds that families' mental health and wellbeing (particularly that of mothers and babies) was the most important priority identified. The diversity of interests across health and education is well reflected and aligned with GenV's Lifecourse approach.

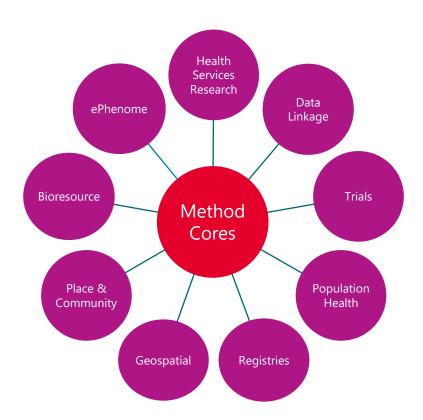


2. Introduction

Children's health, so vital to Australia's future prosperity, may be declining. Over the last 30 years, many childhood problems (such as autism, coeliac disease, obesity, allergy, mental health) have worsened, with long-term consequences for ageing societies. Studies of more than 100,000 participants, known as mega-cohorts, have transformed later-life discovery, translation and commercialisation internationally. However, research is not keeping pace with need. A major block is the laborious, slow and costly nature of research participant assessments.

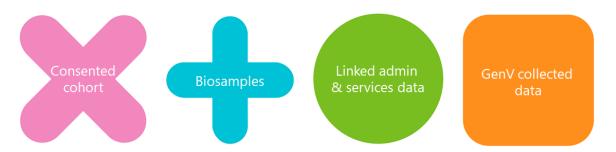
Generation Victoria (GenV) is the largest birth cohort ever planned in Australia (n>100,000). Its primary objective is to create very large, parallel whole-of-state birth and parent cohorts for discovery and interventional research that accelerate research to improve the health of children and their families. To achieve this objective, GenV needs to focus on outcomes that are important to families, services and policymakers and support research that maximises a large birth cohort. GenV is working with our partners and users to focus on the scientific methodological approaches required to deliver different types of research in the Method Cores (Figure 2) and the exposures and outcomes in the content driven Focus Areas. Within a single cohort framework, GenV's Method Cores and Focus Areas drive diverse capability, content and collaboration.

Figure 2: Method Cores



GenV will recruit for two full years from 2021 in all of Victoria's 70 birthing hospitals, in which collectively around 80,000 babies are born each year. All children born in Victoria during the recruitment period and their parents, are eligible to take part. The cohort design comprises four elements (Figure 3).

Figure 3: Cohort Design



The main cohort is planned to begin in 2021, preceded by a Vanguard in 2020. Its Vanguard Protocol is approved by The Royal Children's Hospital HREC (2019.011), which has also broadly endorsed the approach for the main cohort.

2.1 GenV Focus Areas

GenV has developed a Focus Area Framework (Figure 4) to summarise the six defined areas that broadly impact on children, parents and families. This framework considers 'Inequity and Vulnerability' across all focus areas, and initially concentrates on the 'Mothers and Babies' life stage.¹ The six areas encompass child and parent biology, physical and mental health, and the built and social environments in which children and their families live, work and play. When overlaid with inequity,² the focus areas and the interaction between them, encompass many of the complex problems affecting children today.^{3,4} If not prevented or solved, complex childhood disease can become chronic diseases in adulthood and impact children's health, social and economic life outcomes.⁵ These areas are not intended to be exclusive but rather to assist GenV in engaging with users and in planning a useful and robust data collection.

Figure 4: Focus Areas



Each Focus Area is summarised in Figure 5 and further details of each Focus Area can be found in Appendix A.

Figure 5: Summary of Focus Areas

• Mental Health & Wellbeing ⁶

Social and emotional wellbeing throughout life to support resilience and mental health

Development & Learning ⁷

Pathways that can build the foundation for lifelong development and learning

• Infection, Immunity & Allergy 8,9

Reducing allergy and immune disorders through effective prevention strategies and clinical care

Obesity & Diabetes ⁵

Behaviours and mechanisms that provide a foundation for future health

• Organ Health ¹⁰

All body systems on their healthiest trajectory and free of disease, eg cardiovascular, gut, bone, lung, hearing, vision and oral health

• Healthy Environments 4,11

Healthy family, built and social environments

Mothers & Babies ¹²

Healthy pregnancy and early years ensure the best lifelong outcomes for parents and children

Inequity²

Inequity is the presence of systematic and potentially remediable differences among population groups defined socially, economically or geographically

2.2 Purpose of the survey

GenV's aim is to galvanise researchers, policymakers, practitioners and service providers to develop new ways to study, prevent and solve problems in each of the focus areas. The GenV Focus Area Survey was developed to engage with our users, road test the Focus Areas and to ensure that GenV was developing an inclusive data platform that could meet the needs of a wide range of users. The survey aim was to both enable stakeholders to suggest their priorities and unanswered questions within the focus areas, and to stimulate thinking about GenV's role in answering questions that might otherwise not be possible.



3. Methods

3.1 Participants

The survey was initially distributed to practitioners, service providers/managers, researchers, policymakers and project managers through a limited set of peak bodies (RACP, CHA, ANZSOG, WHA, ARACY) with further distribution through their members. In addition, the GenV operations team, Investigator Committee and members of all established GenV Method Core and Focus Area Working Groups at the time (Newborns, Pregnancy, Optimising Antibiotics, Health Services, Trials, Registries, Population Health, Bioresources, Geospatial) were included. Invitations were emailed to all potential respondents and notices were posted on the MCRI news page, GenV's Twitter account, the GenV website and in peak body newsletters (Appendix B). Respondents were encouraged to forward the survey link to other parties who would be interested in completing the survey.

3.2 Survey

In order to encourage high response rates, the survey was very short. An online REDCap survey was developed containing basic demographic questions, including sector, primary role and in which state their work was based (see Appendix C). Respondents were asked which focus area was most relevant to their work. They were then asked to think about the focus area in relation to the first 1000 days of a child's life and the top three priorities needing solutions within the focus area. These were then scored as described in the Data Analysis section. Respondents were asked to list any datasets they knew of that would be relevant to understanding, investigating, evaluating and reporting on their top priority. Respondents were also given the opportunity to select another focus area that was relevant to their work in case they worked across more than one focus area. If they did, they were also asked to fill out the priority areas and list relevant datasets for the second focus area.

Finally, respondents were given the opportunity to comment in their own words on the priority area/s they listed. The survey was open from 9 September until 18 November 2019.

3.3 Data analysis

Statistical analyses were performed in Stata V.15.0. We used descriptive statistics to describe the sample characteristics and the priorities within each focus area. All categorised variables were described as frequencies and percentages. To understand the priorities put forward by our respondents we ranked priorities using a weighted scoring method. For each priority area, we awarded 3, 2 and 1 point if it was nominated as the first, second and third priority, respectively. Next, we multiplied the number of votes by the point. Last, the total score was calculated for each priority area by adding up the priority scores for each priority area, with higher scores indicating higher priority. We ranked the priority areas within each focus area according to the total score. We further described the ranking results by primary role of the respondent and by sector.

4. Results

4.1 Respondents

A total of 176 participants responded to the survey; they comprised a broad range of users. Although they were mainly researchers and practitioners (71 per cent), they also included service providers/managers, those who work in program management/delivery, policy and other primary roles. This included a nurse, administrator, project assistant, consumer, medical scientist (diagnostic), operational support for research, family support worker and therapists (Figure 6).

Respondents worked across different sectors but predominantly the health sector (77 per cent). Other sectors included family/community services (13 per cent), education (7 per cent) and other (3 per cent).

The work of most respondents was based in the state of Victoria (n=66), but all states and territories were represented: Queensland (n=16), Western Australia (n=14), South Australia (n=10), Australian Capital Territory (n=9), New South Wales (n=8), Northern Territory (n=6), Tasmania (n=6) and other countries (n=1).

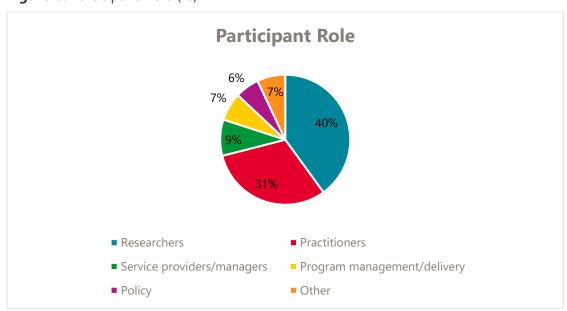


Figure 6: Participant Role (%)

There was a relatively even representation of respondents who worked in the areas of 'Mothers & Babies' (19 per cent), 'Mental Health & Wellbeing' (16 per cent), and 'Development & Learning' (16 per cent) (see Table 1).

Table 1: Respondents' work across the defined Focus Areas and other nominated Focus areas

Focus Areas	Participants, n (n=176)	%
Mothers & Babies	19	18.8
Mental Health & Wellbeing	16	15.9
Development & Learning	16	15.9
Healthy Environments	9	9.1
Infection, Immunity & Allergy	9	8.5
Organ Health	7	7.4
Obesity & Diabetes	7	6.8
Inequity	6	6.3
Other Focus Areas		
Health Services	5	5.1
Work across GenV Focus Areas	3	2.8
Research methods and data	2	1.7
Population screening	1	1.1
Child health research	1	0.6

4.2 Priorities across the GenV Focus Areas

Table 2 shows the top priority nominated for each of the eight GenV Focus Areas, as well as for the additional five focus areas that participants nominated. It is notable that considering 77 per cent of respondents work in the health sector, the top priorities are broad in nature and have an ecological lens, encompassing healthy environments, services and families. Notably, the top two priorities related to mental health and wellbeing in families, and in mothers and babies.

Priorities related to early childhood development and education, environmental factors impacting on health, prevention of childhood obesity, and access and engagement to services were also identified. Further detail of the top priorities for each focus area and five additional focus areas is provided at Appendix D.

Many of the top six priorities relate to prevention and can be inter-related. For example, early childhood development and education is a critical foundation for children's social and cognitive development. Being unable to access appropriate services for mental health and wellbeing issues can lead to poorer health outcomes. Environmental factors that impact children's health, such as natural disasters or children's sleep, can impact mental health and wellbeing, and the ability to learn. A healthy environment can also include whether the built environment encourages activity levels, play or healthy food options. These in turn can impact early childhood development and childhood obesity.

Further detail of priorities within each focus area is provided at Appendix E.

Table 2: Top priorities across Focus Areas

Rank	Focus Areas	Priorities	Score
1	Mothers & Babies	Mothers' & babies' mental health and wellbeing	63
2	Mental Health & Wellbeing	Mental health and wellbeing in families	40
3	Development & Learning	Early childhood development and education	32
4	Healthy Environments	Environmental factors and impacts on health	30
5	Obesity & Diabetes	Prevention of childhood obesity	22
6	Inequity	Access and engagement to services	18
7	Organ Health	Children with medical complexity and chronicity	13
8	Infection, Immunity & Allergy	Medication and epidemiology data	12
Other	Focus Areas		
9	Health Services	Paediatric care	10
10	Work across GenV Focus Areas	Development and learning	7
11	Population Screening	Participation and follow up	6
12	Research methods and data	Large sample sizes	3
13	Child health research	Supporting research into child health at MCRI: Equality of opportunity	3

4.3 Top priorities across sectors and primary roles

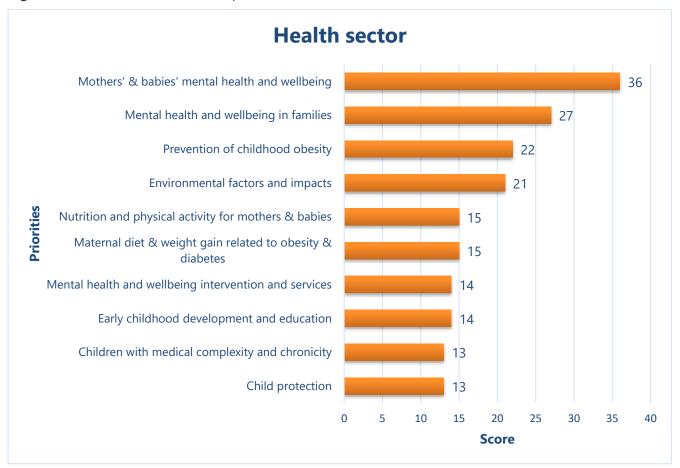
Almost all respondents worked in the health, education and/or family and community services sectors (97 per cent). Survey participants were divided into:

- Three sectors: Health, Education and Family community services sector (Figures 7-9)
- Six primary roles: Researchers, Practitioners, Service providers/managers, Policy, Program management delivery and Other (Figures 10-15).

Sectors

Respondents identified as working in one of three sectors: health, education and family community services sector. Figures 7 and 9 shows that the top three priorities listed for those working in the health sector and family community services sector predominantly relate to mental health and wellbeing in families. These were also the highest scoring priorities across the sectors.

Figure 7: Health sector focus area priorities



Figures 8 and 9 indicates that many of the priorities listed for those working in the education sector and family community services sector relate to early childhood development and learning (including communication development and access to services) as well as priorities related to healthy environments.

Figure 8: Education sector focus area priorities

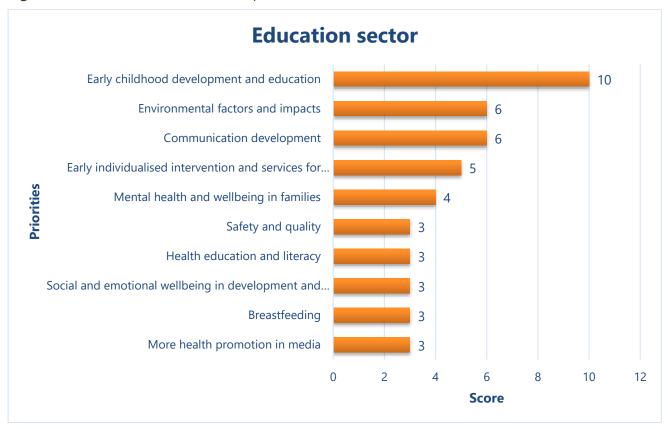
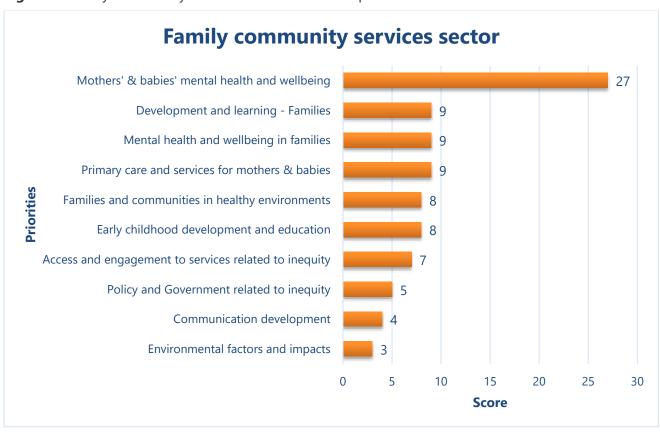


Figure 9: Family community services sector focus area priorities



Primary roles

Respondents' primary roles included researchers, practitioners, service providers/managers, policy, program managers and other (Figures 10-15).

Overall, the top priorities that featured for practitioners, those working in program management/delivery, policy and other sectors related to mothers' and babies' mental health and wellbeing with scores ranging between 25 and 8. The top priorities that researchers listed were predominantly related to environmental factors and impact (score of 26) while service providers/managers had the highest scoring (12) priorities related to children with medical complexity and chronicity.

Figure 10: Researchers focus area priorities

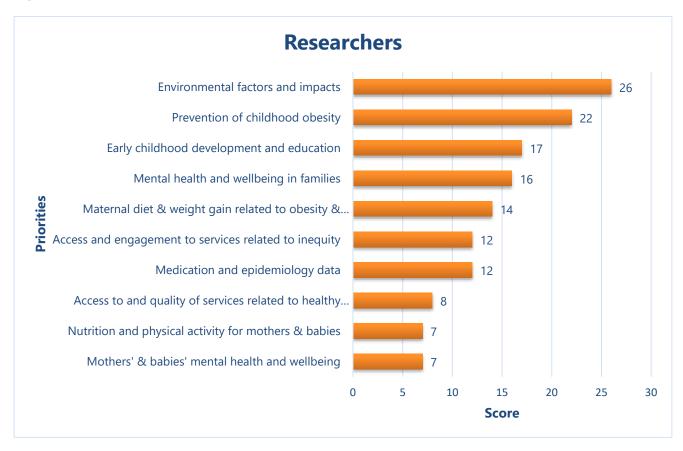


Figure 11: Practitioner focus area priorities



Figure 12: Service provider/manager focus areas priorities



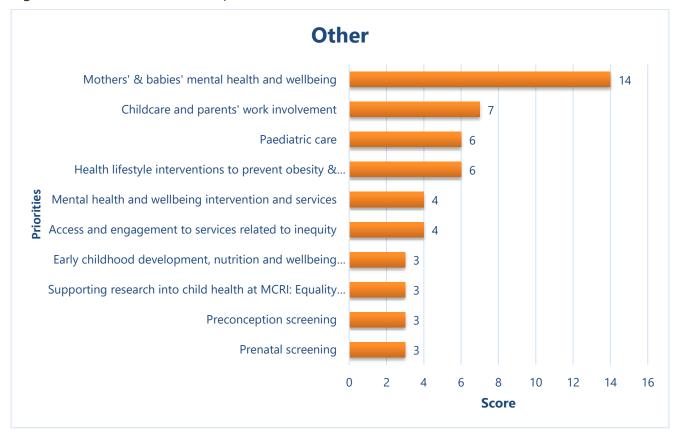
Figure 13: Policy focus areas priorities



Figure 14: Program management focus area priorities



Figure 15: Other role focus area priorities



4.4 Respondent qualitative comments

Respondents were given the opportunity to comment in their own words on the priority area/s they listed. Comments related to mental health and wellbeing, accessing services, mapping and linking services, data linkage and language development in early childhood (see Appendix F). A selection are outlined below; they highlight the complexity underpinning childhood issues and identify possible solutions.

Respondents made reference to mothers and more generally families experiencing mental health issues and isolation due to a lack of face-to-face social support.

Although depression and anxiety are highlighted in research as a major problem for parents, loneliness and isolation perpetuates the problem for parents, and interferes with the first 1000 days brain development in children, which in turn has a lasting impact on their trajectory throughout life. (Mothers & Babies)

To improve access to social support and parenting skills, respondents made comments on parents accessing services and community support services.

Parents won't come to "Parenting Classes" but they will come to supported playgroups that can offer other services/referrals and parenting strategies. These playgroups can be community or school based. (Mental Health & Wellbeing)

Respondents suggested that particular effort should be made regarding collecting and linking data related to pregnancy, genomics, pathology and other data.

Effort should be made to collect as much data as possible on aspects such as pre-pregnancy BMI, pregnancy weight gain, psychological issues in pregnancy. Some of this is linked data, other data will need to specifically ask of parents. (Mental health & wellbeing)

4.5 Datasets

Respondents were asked to think about the top priority area they listed and to list any datasets they knew of that would be relevant to understanding, investigating, evaluation and reporting on the priority. The datasets suggested for the top priorities across the GenV Focus Areas were mostly known by GenV. A list of suggested datasets is provided at Appendix G.

5. Discussion

5.1 Key findings and considerations for GenV

Diversity of top five priorities: This survey asked GenV stakeholders to propose their priorities within the Focus Areas. The most surprising finding of this report was the diversity of the top five priorities chosen. These related to families' mental health and wellbeing (particularly that of mothers and babies), early childhood development and education, environmental factors and impacts on health, as well as prevention of childhood obesity. The top five priorities listed reflect some of the complex issues of our time but they also reflect a socio-ecological approach to childhood including the social determinants of health. The two <u>Lifecourse Frameworks</u> recently published by GenV are guiding our work and specifically include a socio-ecological approach:

- Biodevelopmental framework, which considers the ongoing feedback and interaction between a child's genes, environment, behaviours and, health and learning outcomes.
- Person-centred framework, which outlines the key determinants of Australian children's health and wellbeing.

Similarity in top priorities across sectors and primary roles: These top priorities were similar across sectors and primary roles (see Table 3). The complex issues affecting children and parents that feature in the top priorities are well known. A multi-sector approach is likely required to solve these issues. The fact that these issues were identified across sectors supports the necessary breath of GenV and highlights the need for multi-disciplinary and multi-sector approaches for future efforts to help solve these complex issues.

Table 3: Summary of top priorities across sectors and primary roles

Sector/Primary Role	Priorities
Health Sector Family Community Services	Mothers' and babies' mental health and wellbeing (scores 36 and 27 respectively)
Program management delivery Practitioners Policy Other	Mothers' and babies' mental health and wellbeing (scores ranging from 25 to 8)
Researchers	Environmental factors and impact (26)
Service providers/managers	Children with medical complexity and chronicity (12)
Education	Early childhood development and education (10)

Implications for GenV: The survey's findings have implications for GenV's data collection and engagement across sectors. One of the purposes of conducting this survey was to find out what priorities were important to our users so GenV can ensure we collect data that addresses these priorities. This aligns with GenV's principle that we are inclusive of all data users. This report has identified five broad priorities with mental health being the number one priority. The challenge for GenV will be how to ensure we collect data on these five broad priorities to meet the needs of our users.

Addressing complex issues requires collaboration across systems and sectors focused on a common goal. An important role and principle of GenV is ensuring we have the data to facilitate the necessary collaborations and partnerships across different sectors to positively impact these challenging issues. Only with authentic engagement across wide range of sectors can GenV achieve its vision to help solve complex issues affecting today's children and adults.

These key findings will be used to inform future engagement with researchers, practitioners and policy makers through the GenV website, GenV's working groups and other opportunities. The fact that respondents across sectors identified similar priorities is promising for the future application of GenV.

5.2 Strengths and limitations

- **Limitation:** By design, the sample was not representative, so the priorities listed by respondents were not representative of the general population. Respondents worked predominantly in the health sector (77 per cent).
- **Strength:** The survey successfully engaged a relatively large number of diverse respondents working across sectors, states and primary roles (n=176).

6. Conclusion

The GenV Focus Area Survey was an important element of GenV's initial engagement with a large number of researchers, practitioners and policymakers across sectors and states. This report finds that families' mental health and wellbeing (particularly that of mothers and babies) was the most important priority identified. The diversity of interests across health and education is well reflected and aligned with GenV's Lifecourse approach.

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8. Appendices

Appendix A: GenV Focus Area Summaries

Mental Health and Wellbeing

Mental health is a state of emotional and social wellbeing, which influences how an individual copes with the normal stresses of life and whether he or she can achieve his or her potential. From birth, children's mental health is essential for their health, wellbeing and development. Unfortunately, almost 1 in 7 Australian children aged 4-17 years old report a diagnosed mental health problem.

The mental health and wellbeing focus area includes topics such as:

- anxiety and depression
- · socio-emotional wellbeing, including resilience and coping
- behavioural problems

It also considers factors that may promote mental health, such as supportive relationships and engagement with community, and factors that contribute to poor mental health such as family violence and social inequities.

Obesity and Diabetes

Obesity and diabetes result in a range of health complications, including heart and vascular diseases, and are among the leading causes of death and disease for Australian adults (AIHW, 2018). Currently, almost 1 in 4 Australian children and two-thirds of adults are overweight or obese (AIHW, 2017). While the prevalence of diabetes has tripled over the last three decades, with type 1 and type 2 diabetes affecting around 1.2 million Australians aged 18 years and over in 2014–15.

The obesity and diabetes focus area relates to obesity and diabetes in childhood and adulthood. It considers protective and preventative factors such as nutrition and physical activity and risk factors such as unhealthy eating and screen time. It also encompasses government and community initiatives like food labelling and health promotion activities.

Infection, Immunity and Allergy

Allergy and immune disorders are among the fastest growing chronic diseases in Australia (ASCIA, 2013) with the most recent generation of infants experiencing potentially life-threatening food allergies that were uncommon in previous generations (Tang & Mullins, 2017; McDade, 2012; Milner et al., 2009). Infections are the leading cause of mortality and hospitalization in children. Almost 1 in 5 Australian children are hospitalized at least once before the age of 2 years for an infection (Carville 2007).

The Infection, Immunity and Allergy focus area includes:

- disorders of the immune system such as asthma, autoimmune diseases and food allergies
- interventions, such as the National Immunisation Program
- health and social topics linked to the immune system like gut health, stress and the over-use
 of antibiotics.

Development and Learning

Children's early development creates the foundation for lifelong health and wellbeing. Poor childhood

development can have lasting impacts on health, education, and social and economic wellbeing. Differences in developmental outcomes are already apparent by school age. Currently 1 in 5 Australian children are arriving at school developmentally vulnerable (AEDC, 2016) and, cruelly, these vulnerabilities are often borne by already disadvantaged children and families.

The development and learning focus area includes:

- conditions that may influence development and learning such as epilepsy, injury, disability, autism, ADHD, learning difficulties and developmental delay
- programs that support early intervention, prevention and promotion such as early childhood education
- factors that influence development and learning such as education, nutrition, environmental impacts and responsive relationships.

Organ Health

Children's organs such as their heart, brain, kidney and gut are crucial for healthy development. Disruptions to children's organ health can have a cascade effect on other body systems and organs. The increase in diseases affecting organ health, such as chronic kidney disease, poses a concern for children's quality of life and wellbeing in adulthood.

The Organ Health focus area includes:

- chronic and genetic conditions such as congenital heart disease and chronic kidney disease
- children's physical health and wellbeing, such as heart health, brain health, bone health, gut health and oral health.

Healthy Environments

A safe, healthy and nurturing environment is key to ensuring all children grow and develop normally and healthily. Children are particularly vulnerable to air pollution, hazardous chemicals, community emergencies (e.g. fires, natural disasters) and inadequate water, sanitation and hygiene. In 2015, reducing environmental risks could have prevented more than a quarter of the 5.9 million deaths of children under 5 years globally (WHO 2017).

The Healthy Environments focus area includes:

- play, sleep and children's environments
- systems, services and community-level factors such as access to green spaces, health/education services and safe housing that enable healthy lifestyles
- barriers to achieving healthy behaviours such as stress, disadvantage, abuse and food and housing insecurity.

Inequity

Inequity is the presence of systematic and potentially remediable differences among population groups defined socially, economically or geographically. ²

Mothers and Babies

Healthy pregnancy and early years ensure the best lifelong outcomes for parents and children.



Appendix B: Survey invitation

GenV: Help shape the wellbeing of Australia's children and parents Complete the GenV Survey now

Our rapidly-changing world is having both positive and negative impacts for today's children and their families. This includes high rates of complex health and development problems, and a search for better ways to promote wellbeing. However, our traditional approaches to problem-solving and research are struggling to keep pace at the rate we need.

Generation Victorian (GenV) is an initiative led by the Murdoch Children's Research Institute and backed by the Victorian Government. It will help address these issues by better linking existing data, supplemented with data from up to 170,000 Victorian children born between 2021-2022 and their parents, telling a holistic story of lifelong health and wellbeing.

Policy-makers, researchers, service providers, educators and practitioners will be able to use GenV's powerful data to accelerate the discovery of solutions for children and parents today.

We need your contribution to ensure that GenV knows about the questions confronting you.

Please help us to understand your needs by completing <u>GenV's Focus Area Survey</u>. The survey will remain open until 9:00am Monday 23 September 2019. Your input is important and can help to shape GenV's priorities, data and resources.

For more information, please contact the GenV team at solutionsgenv@mcri.edu.au



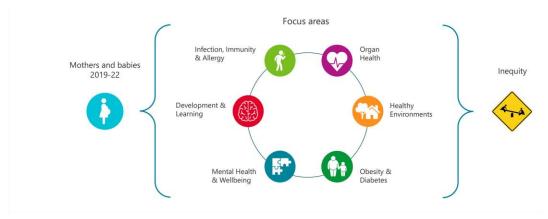
Confidential

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GenV Focus Area Survey

Thank you for participating in GenV's Focus Area Survey

GenV supports collaborations to improve wellbeing and address pressing problems experienced by children and parents. GenV has developed a Focus Area Framework comprising six defined areas that frequently impact on children, parents, families and the community. This framework considers 'Inequity' across all focus areas and is initially concentrating on the first thousand days; the 'Mothers & Babies' life stage.



1. Mental Health & Wellbeing

Social and emotional wellbeing throughout life to support resilience and mental health

2. Development & Learning

Pathways that can build the foundation for lifelong development and learning

3. Infection, Immunity & Allergy

Lower risk of allergy and immune disorders through effective prevention strategies and clinical care

4. Obesity & Diabetes

Behaviours and mechanisms that provide a foundation for future health

5. Organ Health

All body systems on their healthiest trajectory and free of disease, eg cardiovascular, gut, bone, lung, hearing, vision and oral health

6. Healthy Environments

Healthy family, built and social environments

7. Mothers & Babies

Healthy pregnancy and early years ensure the best lifelong outcomes for parents and children

8. Inequity

Children having the same opportunities from birth for health, education, inclusion and participation

Thinking about the first 1000 days of a life (from conception to roughly age 2 years) for children and their parents, we are seeking your feedback on:

- a) the focus areas, and their specific priorities most relevant to your work,
- b) the kinds of datasets relevant to your priorities.

Your input is important and can help to shape GenV's priorities, data and resources.

The Focus Area survey will take approx. 10 minutes to complete. We'll share the results on GenV's website and newsletter. We may also write up the anonymous summary results into a report.

13/11/2019 16:22

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Appendix D: Top priorities for each focus area

Table D1.1 outlines the top priorities for each focus area

Table D1.1: Priorities for each Focus Area

Rank	Priority	Score
Ment	al Health & Wellbeing	
1	Mental health and wellbeing in families	40
2	Mental health and wellbeing intervention and services	16
3	Child protection	13
4	Mental health and social support	10
5	Early childhood development and care	9
Deve	opment & Learning	
1	Early childhood development and education	32
2	Communication development	18
3	Development and learning - Families	17
4	Early individualised intervention and services for development and learning issues	15
5	Early assessment and universal screening of development and learning issues	6
5	Neurodisability and rehabilitation	6
Infect	tion, Immunity & Allergy	
1	Medication and epidemiology data	12
2	Infections	10
3	Vaccinations	7
4	Antibiotics	6
5	Prevention of allergic illnesses	5
Obesi	ty & Diabetes	
1	Prevention of childhood obesity	22
2	Maternal diet & weight gain related to obesity & diabetes	15
3	Health lifestyle interventions to prevent obesity & diabetes	7
4	Healthy food choices	6
5	Infant feeding/Breastfeeding related to obesity & diabetes	5
Orgai	n Health	
1	Children with medical complexity and chronicity	13
2	Familial Hypercholesterolaemia	6
2	Oral health	6
2	Thrombosis and Haemostasis	6
2	Vision development	6
3	Hearing screening	3
3	Hypertension	3
3	Long-term outcome of congenital anomalies	3
4	Urological diseases	2
Healt	hy Environments	
1	Environmental factors and impacts on health	30
2	Families and communities in healthy environments	17
3	Access to and quality of services	14
4	Inequitable environments perpetuating health inequities	3

Rank	Priority	Score
4	More health promotion in media	3
4	Food security and knowledge transfer	3
Mothe	ers & Babies	
1	Mothers' & babies' mental health and wellbeing	63
2	Primary care and services for mothers & babies	16
3	Nutrition and physical activity for mothers & babies	15
4	Breastfeeding	12
5	Pregnancy and birth complications	11
Inequi	ty	
1	Access and engagement to services related to inequity	18
2	Migrant health	6
3	Policy and Government related to inequity	5
4	Support for families experiencing social adversity	5
5	Parent education, support & resources related to inequity	4
Other	Focus Areas	
Hea	alth Services	
1	Paediatric care	10
2	Safety and quality	9
3	Procedural pain management	7
4	Aboriginal Health	6
5	Health education and literacy	4
Res	earch methods and data	
1	Large sample sizes	3
2	Registry Randomised Trials - Immunisation compliance	3
3	Quality research questions	3
Chil	d health research	
1	Supporting research into child health at MCRI: Equality of opportunity	3
2	Supporting research into child health at MCRI Impact of parenting on health	2
3	Supporting research into child health at MCRI: Exercise & nutrition	1
Pop	ulation screening	T
1	Participation and follow up	6
2	Preconception screening	3
3	Prenatal screening	3
Woı	k across GenV Focus Areas	
1	Development and learning	7
2	Inequity	5
2	Mental Health	5
2	Mothers & Babies	5
3	Infection, Immunity & Allergy	4
4	Healthy Environments	2
5	Obesity & Diabetes	2



Appendix E: Frequencies of focus area priorities

Table E1.1 outlines the priorities that respondents listed across the three priority areas.

Table E1.1: Frequencies of Focus Area Priorities

Mental health &	Priority 1 (n=16)	%	Priority 2 (n=16)	%	Priority 3 (n=15)	%
Wellbeing (n=28)	Mental health and wellbeing in families	50	Mental health and wellbeing in families	31	Mental health and wellbeing in families	40
	Child protection	13	Mental health and wellbeing intervention and services	25	Child protection	20
	Mental health and wellbeing intervention and services	13	Early childhood development and care	19	Mental health and social support	20
	Mental health and social support	6	Child protection	13	Mental health and wellbeing intervention and services	13
	Prevention strategies related to mental health and wellbeing	6	Mental health and social support	13	Early identification/diagnosis of mental health and wellbeing issues	7
	Early childhood development and care	6				
	Early identification/diagnosis of mental health and wellbeing issues	6				

Development and	Priority 1 (n=18)	%	Priority 2 (n=16)	%	Priority 3 (n=16)	%
learning (n=28)	Early childhood development and education	22	Early childhood development and education	56	Early individualised intervention and services for development and learning issues	38
	Development and learning - Families	17	Development and learning - Families	19	Communication development	31
	Early individualised intervention and services for development and learning issues	17	Communication development	13	Development and learning - Families	13
	Communication development	17	Social and emotional wellbeing in development and learning	6	Early childhood development and education	13
	Early assessment and universal screening of development and learning issues	11	Neurodisability and rehabilitation	6	Neurodisability and rehabilitation	6
	Children's daily activities	6				

Social and emotional wellbeing in development and learning	6		
Neurodisability and rehabilitation	6		

Infection,	Priority 1 (n=8)	%	Priority 2 (n=8)	%	Priority 3 (n=6)	%
Immunity &	Infections	25	Vaccinations	25	Infections	33
Allergy (n=15)	Medication and epidemiology data	25	Medication and epidemiology data	25	Medication and epidemiology data	33
	Antibiotics	13	Antibiotics	13	Antibiotics	17
	Vaccinations	13	Infections	13	Hospital/GP visits	17
	Prevention of allergic illnesses	13	Prevention of allergic illnesses	13		
	Improving engagement and health literacy	13	Hospital/GP visits	13		

Obesity &	Priority 1 (n=10)	%	Priority 2 (n=11)	%	Priority 3 (n=10)	%
Diabetes (n=12)	Prevention of childhood obesity	50	Prevention of childhood obesity	18	Prevention of childhood obesity	30
	Maternal diet & weight gain related	30	Maternal diet & weight gain	18	Maternal diet & weight gain related to obesity	20
	to obesity & diabetes		related to obesity & diabetes		& diabetes	
	Healthy food choices	10	Infant feeding/Breastfeeding	18	Health lifestyle interventions to prevent	20
			related to obesity & diabetes		obesity & diabetes	
	Health lifestyle interventions to	10	Healthy food choices	9	Healthy food choices	10
	prevent obesity & diabetes					
			Poverty related to obesity &	9	Infant feeding/Breastfeeding related to	10
			diabetes		obesity & diabetes	
			Access to services related to	9	Weight gain	10
			obesity & diabetes			
			Drivers/mechanisms of health	9		
			behaviour			
			Health lifestyle interventions to	9		
			prevent obesity & diabetes			

Organ Health	Priority 1 (n=10)	%	Priority 2 (n=7)	%	Priority 3 (n=7)	%
(n=13)	Children with medical complexity and chronicity	20	Children with medical complexity and chronicity	29	Children with medical complexity and chronicity	43
	Long-term outcome of congenital anomalies	10	Oral health	14	Oral health	14
	Oral health	10	Vision development	14	Vision development	14
	Vision development	10	Urological diseases	14	Familial Hypercholesterolaemia	14
	Hearing screening	10	Familial Hypercholesterolaemia	14	Thrombosis and Haemostasis	14
	Hypertension	10	Thrombosis and Haemostasis	14		
	Familial Hypercholesterolaemia	10				
	Thrombosis and Haemostasis	10				
	Unsure	10				

Healthy	Priority 1 (n=13)	%	Priority 2 (n=12)	%	Priority 3 (n=12)	%
Environments (n=16)	Environmental factors and impacts	46	Families and communities in healthy environments	33	Environmental factors and impacts	33
	Access to and quality of services related to healthy environments	23	Environmental factors and impacts	33	Families and communities in healthy environments	25
	Families and communities in healthy environments	15	Access to and quality of services related to healthy environments	17	Access to and quality of services related to healthy environments	8
	Inequitable environments perpetuating health inequities	8	Lack of longitudinal data	8	Gene environment interactions	8
	More health promotion in media	8	Food security and knowledge transfer	8	Unclear pathways and mechanisms	8
					Food security and knowledge transfer	8
					Physical exercise	8

Mothers & Babies	Priority 1 (n=24)	%	Priority 2 (n=24)	%	Priority 3 (n=24)	%
(n=33)	Mothers' & babies' mental health	50	Mothers' & babies' mental health	46	Mothers' & babies' mental health and	21
	and wellbeing		and wellbeing		wellbeing	
	Breastfeeding	17	Primary care and services for	17	Primary care and services for mothers &	21
			mothers & babies		babies	

	Nutrition and physical activity for nothers & babies	13	Early childhood development, nutrition and wellbeing (mothers & babies)	13	Early childhood development, nutrition and wellbeing (mothers & babies)	17
P	Pregnancy and birth complications	8	Childcare and parents' work involvement	8	Nutrition and physical activity for mothers & babies	17
	Primary care and services for nothers & babies	4	Nutrition and physical activity for mothers & babies	4	Childcare and parents' work involvement	13
	amily violence and substances abuse related to mothers & babies	4	Pregnancy and birth complications	4	Pregnancy and birth complications	13
	Mothers & babies at risk populations	4	Mothers & babies at risk populations	4		
		·	Mothers' & babies' chronic disease	4		

Inequity (n=11)	Priority 1 (n=8)	%	Priority 2 (n=7)	%	Priority 3 (n=7)	%
	Access and engagement to services	50	Access and engagement to	29	Access and engagement to services related to	29
	related to inequity		services related to inequity		inequity	
	Policy and Government related to	13	Parent education, support &	29	Support for families experiencing social	29
	inequity		resources related to inequity		adversity	
	Support for families experiencing	13	Preventing vulnerability by early	14	Migrant health	14
	social adversity		intervention			
	Migrant health	13	Policy and Government related to	14	Health and nutrition related to inequity	14
			inequity			
	Workplace & inequity	13	Migrant health	14	ADHD related to inequity	14

١	Health services	Priority 1 (n=6)	%	Priority 2 (n=6)	%	Priority 3 (n=6)	%
	(n=9)	Aboriginal Health	33	Paediatric care	50	Procedural pain management	33
ı		Safety and quality	33	Procedural pain management	17	Health education and literacy	33
ı		Procedural pain management	17	Safety and quality	17	Paediatric care	17
		Paediatric care	17	Health education and literacy	17	Safety and quality	17

Research methods	Priority 1 (n=2)	%	Priority 2 (n=1)	%	Priority 3 (n=1)	%
and data (n=3)	Large sample sizes	50	Quality research questions	100	Quality research questions	100
	Registry Randomised Trials - Immunisation compliance	50				

Child health	Priority 1 (n=1)	%	Priority 2 (n=1)	%	Priority 3 (n=1)	%
research (n=1)	Supporting research into child health at MCRI: Equality of	100	Supporting research into child health at MCRI Impact of parenting on	100	Supporting research into child health at MCRI: Exercise & nutrition	100
	opportunity		health			

Population	Priority 1 (n=2)	%	Priority 2 (n=2)	%	Priority 3 (n=2)	%
screening (n=2)	Participation and follow up	50	Participation and follow up	50	Participation and follow up	50
	Preconception screening	50	Prenatal screening	50	Prenatal screening	50

Work across GenV	Priority 1 (n=5)	%	Priority 2 (n=5)	%	Priority 3 (n=5)	%
Focus Areas (n=5)	Mothers & Babies	20	Development and learning	40	Healthy Environments	40
	Development and learning	20	Mothers & Babies	20	Mental Health	40
	Inequity	20	Inequity	20	Infection, Immunity & Allergy	20
	Infection, Immunity & Allergy	20	Obesity & Diabetes	20		
	Mental Health	20				

Appendix F: Survey respondent comments

Focus Area Survey: Qualitative Responses

At the conclusion of the survey, respondents were able to provide additional comments on the focus area(s) and priorities they had selected and listed. The key themes that arose related to mental health issues and social support, access to and provision of services,

Mental health & wellbeing in families

Three respondents made reference to mothers and more generally families experiencing mental health issues and isolation due to a lack of face-to-face social support:

Anxiety is one of the key issues for new mothers and affects ability to attach (Mothers & Babies)

Although depression and anxiety are highlighted in research as a major problem for parents, loneliness and isolation perpetuates the problem for parents, and interferes with the first 1000 days brain development in children, which in turn has a lasting impact on their trajectory throughout life. (Mothers & Babies)

Mothers are becoming increasingly isolated and reliant on digital media for social interaction and sources of information. This gives them a skewed view of the world and their role as parents. I would like to see a return to face to face interactions and real life friendships. (Mental health & wellbeing)

Families accessing support and community services

To improve access to social support and parenting skills, respondents made comments on parents accessing services and community support services including early childhood centres:

We run a Peep program, which stands for Parents Early Education Partnership. It is a facilitated playgroup, where we support and encourage parents to be their child's first, most important and ongoing teacher. (Mental Health & Wellbeing)

Parents won't come to "Parenting Classes" but they will come to supported playgroups that can offer other services/referrals and parenting strategies. These playgroups can be community or school based. (Mental Health & Wellbeing)

A high quality early childhood centre that is accessible and affordable has been shown to improve children's life chances. It can also be a great support to families. [...] Teachers have been shown by research to be the key factor to achieving high quality, and high quality the key factor to later life success for children. (Obesity & Diabetes)

While parent support and parenting skills were highlighted as key areas to consider, respondents also commented on primary health, health literacy education and housing services being available to families in socioeconomic disadvantaged areas.

There are many facets to the issues facing families within the first 1000 days, and ensuring stable families with good parenting skills is essential, but they will never be able to focus on these unless basic needs of housing and food are met first. (Mental health & wellbeing)

Additional primary health services and supports (including Allied Health) should be provided in areas of known socioeconomic disadvantage. (Infection, Immunity & Allergy)

I work with the families who are poor and vulnerable. Many of the parents that I work with have low levels of education and poor literacy and numeracy skills. They have had poor role models in



regards to their parenting experience and many have limited social and emotional supports. Often these clients need emotional and material resources to care for their families and the opportunity to improve their life skills through access to education at a range of levels that give them access to a range of opportunities. (Inequity)

One respondent made a suggestion that parents need to attend child health clinics regularly to help identify any risk factors.

[Families] need to attend child health nurse clinic regularly. Have more time for identifying any issues than busy GPs. Should have to have regular checks linked to family payments, not just immunisation status to enable early recognition of issues and intervention. (Development & Learning)

Barrier to accessing support services

Respondents also warned of barriers experienced by at-risk families in seeking and engaging with support and services and suggested approaches to overcoming these barriers.

Barriers to seeking and engaging supports need to be identified and addressed in business rules and strategic plans (i.e. roles that undertake care co-ordination, booking and scheduling practices, referral and follow up pathways), specific for families experiencing vulnerability (either transient or long term vulnerabilities). (Inequity)

Many at-risk mums-to-be are not presenting early nor regularly at birthing hospitals. [...] The cogs for social intervention from the birthing hospital grind too slowly to afford any support to the family, with a plethora of support in the community sector, the options are bewildering. Often the risk adverse reaction of the birthing hospital is to remove the infant. Turning the hospital system around from them seeing child removal as the 'safest option', to being seen as welcoming and supportive to at- risk mother-to-be, rather than those families being afraid of presenting at hospital for fear of judgement and child removal, will be a slow process. There needs to be greater coordination of community support, less risk aversion from community services, more opportunity for community services to work in real partnership with Child Protection (CP) with clear bottom lines from CP and a coordinated response from that myriad of support services out there. That means that one NGO agency is the lead agency - coordinating all the services around the family - not just referring families to all the support required - DOA, Housing, Police, Health etc but keeping the services accountable and tracking the progress of the at risk family. (Mental Health & Wellbeing)

Children receiving diagnoses and access to health services

One respondent with an interest Mental Health and Wellbeing highlighted that infants 'need rapidly responsive diagnostic and intervention services [...] with developing behavioural and developmental problems". While, another respondent made the suggestion that:

Children with chronic health conditions require child centred and developmentally appropriate / individualised preparation and support for medical procedures to avoid trauma. (Mental health & wellbeing)

Another highlighted the importance of funding home-based care for children under the age of year 2 with medical complexities and chronicity to aid the reducing the burden on families.

Families with children with medical complexity and chronicity are providing excellent often complex medicalised care at home for their children - this, in decreasing the burden on the health system increases the burden on families. Families are dealing with not only chronic grief and



sorrow but also carer fatigue and exhaustion, this impacts the carers' health and mental health which they often do not take time to address. In home care and support for families with children under the age of 2 with complex health care needs is not always supported by NDIS funding. This is particularly true if these children live in rural and remote settings. Issues to be addressed and prioritised. (Development & learning)

Mapping and linking services

A number of respondents referred to the importance of mapping and linking health and community services so that 'silos' could be prevented between different services that families often access.

[There should be] better handover from antenatal care providers, GPs to other services and vice versa. Eg. History mental health issues, family supports, stressors all attended by all AN professional. (Development and learning)

Agreements/MOUs between services for information sharing under state based legislation. Mapping of support services would diminish the 'silos' between acute and primary health care and NGOs/support services. Primary Health Networks have attempted to map through health pathways, but this is only from a health perspective. The whole of community response (i.e. health and human services) would need to include supports that address the social determinants of health that impact on the first 1000 days. A lack of knowledge in general means that optimal provision of services does not occur. (Development & learning)

Data quality and linkage

Three respondents indicated that there were gaps in data related to preconception, post-partum, medications and the environment which contributes to the challenge of measuring health impacts and outcomes.

[There are] many data sets but weight is poorly recorded preconception and post-partum (Healthy Environments)

Distinct lack of preconception data. No universal coverage. No national policy. (Mothers & Babies)

There are also gaps in the data related to medications (i.e. prescriptions for public inpatients, private scripts, emergency department, remote aboriginal health services) (Organ Health)

Unfortunately data relating to pollution is not provided at a very granular level. This makes it difficult to measure the health impacts on our daily lives. (Healthy Environments)

Two respondents suggested that particular effort should be made with regards to collecting and linking data related to pregnancy, genomics, pathology and other data.

Effort should be made to collect as much data as possible on aspects such as pre-pregnancy BMI, pregnancy weight gain, psychological issues in pregnancy. Some of this is linked data, other data will need to specifically ask of parents. (Mental health & wellbeing)

Data linkage between the identified data collections (and others) is needed to really deliver value. Genomics, pathology and other data also of value (Organ health)

Scoping and linking datasets

One respondent with an interest in Organ Health highlighted, "There is a lack of understanding around what data items are collected, if they're accessible". To overcome this challenge, two respondents provided in-depth comments on the importance of scoping and identifying opportunities for data linkage with GenV across an array of different services.



We need extensive review and consultation to scope all the relevant datasets, for example with DHHS regarding Family Services datasets that would be applicable for inclusion, e.g. Child Protection, and the accessibility of these given confidentiality considerations. Similarly full review and consultation with CCOPMM regarding the health and social datasets used in their reviews to date and how these should intersect with GenV. To fully realise health care provision and 'health care gaps' we would need good coverage of as many health care providers as possible including public and private providers, particularly for services where a substantial proportion of child health care provision is provided privately e.g. dental, speech and language, mental health ... Fully understanding this area requires a breadth of services including social provision such as housing, parental health care support (e.g. addiction services), child health and educational services... To be comprehensive these data would need to be extensive and consider health and care outside of the mainstream 'health service', e.g. health and mental health care provided within the justice system, and frontline acute mental health incidents supported by emergency services including the police. This needs to be fully scoped with regard to which datasets should be core to GenV from the outset and capacity for future linkage. (Development & learning)

Communication development

Finally, respondents also made reference to early childhood development especially with regards to technology impacting language development.

Technology has impacted the time and way families communicate. Children, in first 2000 days, need language to be modelled and need to be encouraged in their attempts to make sounds, babble and talk, feedback from adults in the home provides this. Technology in some cases draws adult attention away from interactions with infants and children. (Mental health & wellbeing)

Children are increasingly delayed in speech, which is a direct result of lack of meaningful and sufficient interaction with caregivers. Children are spending too much time in front of screens, as are parents, and this is impacting on the quality of interactions with each other. (Development & Learning)

Many cultures don't have the same emphasis on reading and singing songs and nursery rhymes to children from womb to 2 years old. Children come to school 3 years behind with their oral language skills. Teaching parents the importance of reading & singing even to unborn and infants is vital for later life. (Development & learning)

Appendix G: Datasets

Datasets listed by respondents are outlined in the Table G1.1. Note that some of those suggested are only available for research samples, while others are potential sources rather than datasets.

Table G1.1: Datasets listed by respondents

Focus Area & Top Priority	Datasets
Mothers & Babies: Mothers & babies	
mental health and wellbeing	
	National Nutrition Survey
	Victoria Population Health survey
	Australian Bureau of Statistics
	Medicare and data on services used
Mental health & Wellbeing: Mental	
health and wellbeing in families	
	Maternal Child Health Record
	Hospital Electronic Medical Record
	Maternity
	Mental health services data
	Primary care data
	Longitudinal Study of Australian Children (LSAC)
	Australian Bureau of Statistics
	data.gov.au
	Mapping Economic Disadvantage (maps.ncoss.org.au)
	Right @home nurse home visiting program evaluation
Healthy environments: Environmental	
factors and impacts on health	
	iWHP held by WHO
	Australian Institute of Health and Welfare pregnancy
	data set
	Australian Longitudinal Study on Women's Health
	Raine study
	Lucina
Obesity & diabetes: Prevention of childhood obesity	
	Australian Early Development Census
	AIHW
	Australian indigenous healthinfonet
	Consumer feedback
	Health reports