Recruitment and Retention Practices of Longitudinal Birth Cohorts from Conception Onwards



Early Consultation ..

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Background

Participatory Approach

In Australia, growing commitment for methodologically ethical practices in Aboriginal and Torres Strait Islander research has prompted novel application of Indigenous Research Methodologies (IRMs) (1). This systematic review examined intersections of recruitment and retention strategies in Longitudinal Birth Cohorts (LBCs) (2) and IRM application.

Conclusion

Figure 1: Ultimately, the research identified that when IRM are applied to Aboriginal and Torres Strait Islander LBCs, recruitment and retention rates are equivalent to non-Indigenous cohorts. The integrated relationships of multigenerational life courses, recruitment and retention into LBCs, and the application of effective IRM strategies depicted in figure 1 underpin the success of such cohorts. Effective strategies are early and ongoing consultation, which promotes are participatory approach, family involvement, community relationships and employment of Aboriginal RAs.

Results

Study:	2018	2016	2014	2012	2010	2008	2006	2004	2002	2000	1998	1996	1994	1992	1990	<1988	
MUSP	n = 2900						n = 3805			n = 5216				1981-	1983 n = 7223		
	Third Ge	n Recruiting															
ATP					n = 1701		n = 1580		n = 1580	n = 1650	n = 1666	n = 1661	n = 1743	n = 1799		1983 n = 2443	
			Third Ge	en Recuiting.													
ABC*						n = 469			n = 590						1987	-1990 n = 686	
Raine		n = 1234	n = 1234		n = 1726	n = 1864		n = 2048	n = 2140		n = 2236	n = 2280			1989-	1991 n = 2868	
BG*									15 months in mid-90's (unspecified date) n = 273								
KOMS*			n = 216						1999-2003 n = 280								
LSAC			n = 3764		n = 4242	n = 4386	n = 4606										
Gudaga*				n = 117													
VICHS		Т	hird generat	ion of VAHC	S recruited fi	rom 2006 – 2	2014 n = 1026	Figur	Figure 2: Timeline and recruitment and retention rates of eleven novel LBCs. LBCs								
LSIC*		n = 674 n = 960							were considered novel if they (i) had a relationship with a third generation birth								
66*		2010 - orgoing $n = 229 currently$							cohort (ii) ware landmark Australian LBCs or (iii) had a significant Abariginal and (or								

* Six LBCs had a specific focus on Aboriginal and Torres Strait Islander populations







cohort, (ii) were landmark Australian LBCs, or (iii) had a significant Aboriginal and/or Torres Strait Islander cohort. 'n' = number of babies recruited/retained in the cohort. Recruitment periods indicated at right end of coloured rows



@@@@@ GG

✓ Integrated with local art class ✓ Strong links with Elders

<u>©©©©</u> ABC ✓ Attended local events ✓ Built strong relationships

Gudaga of family LSIC



<u>©©©©</u> ✓ Engaged existing health workers

✓ Employed male and female RAs



ABC

Methods

listed

PubMed and Medline were used to searched for Australian LBCs from the 1970's onwards where prospective data collectioncommenced within first year after birth. Cohorts were excluded if they had non-typical health profiles, studies included an intervention, or primarily evaluated maternal health. PRISMA guidelines were used to critically appraise a total of 44 LBCs identified. STROBE was used to assess reporting quality. Qualitative text analysis provided in-depth insights into recruitment and retention practices. Of the six included Aboriginal and Torres Strait Islander LBCs, four key IRM themes emerged. Each study ranked from 0-5 based on quality of engagement methods according to NHMRC Guidelines (2). The rankings are represented out of five stars in figure 3.



Study Abbreviations:

– Aboriginal Birth Cohort ATP – Australian Temperam BG – Bibbulung Gnarneep GG – Gomeroii Gaanyggal ent Project Gudaga - Gudaga Birth Cohort - Kalgoorlie Otitis Media Study Longitudinal Study of Australia Acknowledgment:

References:

LSIC – Longitudinal Study of Indigenous Children MUSP – Mater University Study of Pregnancy Raine – Western Australian Birth Cohort VAHCS – Victorian Adolescent Health Cohort Study - Victorian Intergenerational Health Cohort VINCS

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