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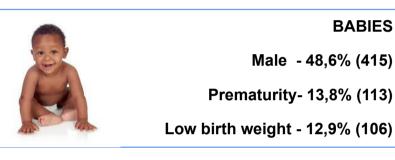
The PIPA-UFRJ project is a birth cohort study developed in the city of Rio de Janeiro, Brazil, that follows children from pregnancy to 4 years old, to assess the effects of environmental pollutants on fetal and childhood development. One of the challenges of a cohort study is the retention of participants toward longitudinal follow-up.

This work describes the **planning and execution of the strategies used for retention** in this cohort; and the results throughout the study's progress.

BACKGROUND

The study population was all babies born at UFRJ Maternity School whose mothers were> 16 years old and who lived in Rio de Janeiro, from June 2021 to July 2022. 901 pregnant women and 844 newborn were recruited.

Population characteristics	Pregnancy women - 858
Mother Age (Years)	29 DP 6,92 (16 – 46)
Race/ Ethnicity	74,3% No white (639)
Schooling (Years)	75,8 % (651) _< 12 years
Lived in low-income communities	53,4% (459)
Governmental financial aid ("Bolsa Família")	22% (190)
Work activity	52,9 (454)



The Community engagement - Strategies

The ConPIPA, the family council, is one of strategies for the community engagement. It was created to guarantee a formal space of consulting evaluation of the project and the proposal of strategies. Regular meetings are focused on collaborative actions and on building trust between researchers and the participants. At every moment of the follow-up, the strategies are renewed, including the content of the heath educational material produced and the gifts for the families.







Figure 2: 1st PIPA's Council meeting

 Figure 3: 3 rd PIPA's Council meeting



Figure 4: 1st PIPA's Council meeting

REFERENCES

Asmus CIRF, et al. Rio Birth Cohort Study on Environmental Exposure and Childhood Development – PIPA Project. Annals of Global Health. 2020; 86(1): X, 1–10. DOI: https://doi.org/10.5334/aogh.2709

Goodman MS, Sanders Thompson VL, Johnson CA, Gennarelli R, Drake BF, Bajwa P, Witherspoon M, Bowen D. EVALUATING COMMUNITY ENGAGEMENT IN RESEARCH: QUANTITATIVE MEASURE DEVELOPMENT. J Community Psychol. 2017 Jan;45(1):17-32. doi: 10.1002/jcop.21828. Epub 2016 Dec 13. PMID: 29302128; PMCID: PMC5749252.

Goldstein E, Bakhireva LN, Nervik K, Hagen S, Turnquist A, Zgierska AE, Marquez LE, McDonald R, Lo J, Chambers C. Recruitment and retention of pregnant women in prospective birth cohort studies: A scoping review and content analysis of the literature. Neurotoxicol Teratol. 2021 May-Jun;85:106974. doi: 10.1016/j.ntt.2021.106974. Epub 2021 Mar 22. PMID: 33766723; PMCID: PMC8137666.

Tindana PO, Singh JA, Tracy CS, Upshur RE, Daar AS, Singer PA, Frohlich J, Lavery JV. Grand challenges in global health: community engagement in research in developing countries. PLoS Med. 2007 Sep;4(9):e273. doi: 10.1371/journal.pmed.0040273. PMID: 17850178; PMCID: PMC1989740.

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RESULTS

- 86% (699) of the 808 babies returned at least one of the following periods (3rd, 6th, or 1st year),
- 55% (442) returned at the three moments
- The geographic localization and social vulnerabilities have to be consider to define the strategies of retention. At each moment of the follow up, the strategies are evaluate.

Figure 5: The retention rate at every moment of the follow-up



CONCLUSION

and lifestyle.

One of the challenges of the researchers is to maintain the families' participation in the study. The study has a good retention rate of>80% and retention of>86% at the end of the 1st year of follow-up. The strategies are evaluated at

each moment of the follow up to improving the quality of the data and to engage the

participants, the community engagement has to be an ongoing process and depends on the

characterization of the population, like culture



Figure 6 : Family with the Food Support







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