

FREE HEALTH CARE AND RISK OF MORTALITY ON UNDER 5 YEARS OLD CHILDREEN IN BURKINA FASO : EVIDENCE FROM SAPONE HDSS

By Malik LANKOANDE

Msc Demography



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Vaccins Anti Paludiques



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PLAN

- Introduction
- Methods
- Results
- Discussions and conclusion



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BACKGROUND

- General worldwide decrease of mortality
- Mortality is far to be homogenous
- International conventions and mortality
- About equiprobability of mortality
- The particular case of mortality in Burkina Faso



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Aim of the study

- Assess the risk of mortality in 3 cohorts of under five years old children variously exposed in Saponé Health district.



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METHODS

Study area



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METHODS

Study population

- Total size of the DSS : 86 000 inhabitants
- Proportion of under five years old: 13,2%
- Potential children of the study : 11 283



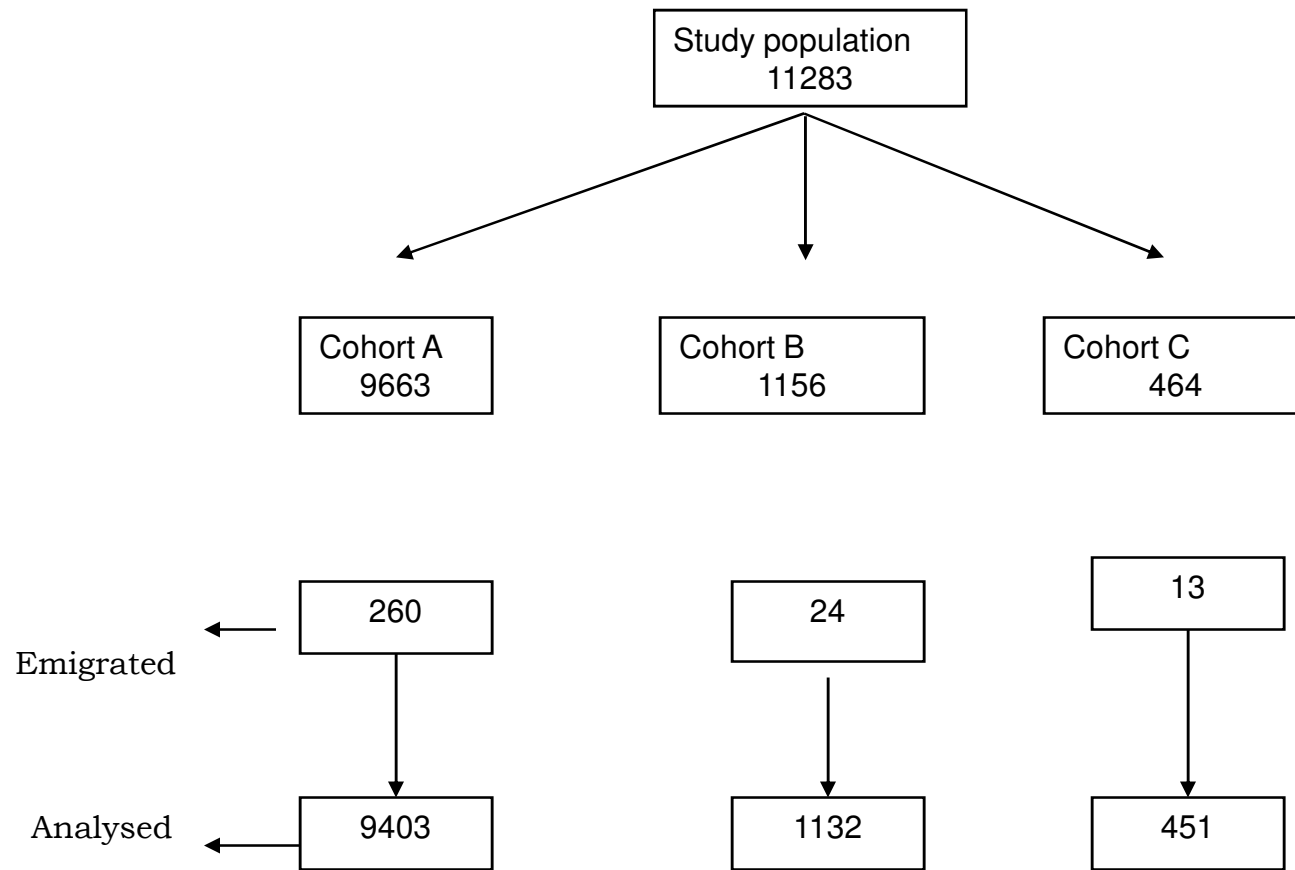
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METHODS

Study design



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METHODS

Ethical aspects

- DMID/NIH ethical committee approval
- National ethical committee of Burkina Faso approval
- The study was explained to the Sapone health district leaders, the villagers, and the head of each participating household
- Inform consent was obtained from the parents or carers of the children before their enrolment



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METHODS

Data collection and statistical analysis

- Sapone HDSS provides mortality data
- Probability of mortality and survival analysis
- Significant threshold: 5%
- Use of Stata (version 10) software



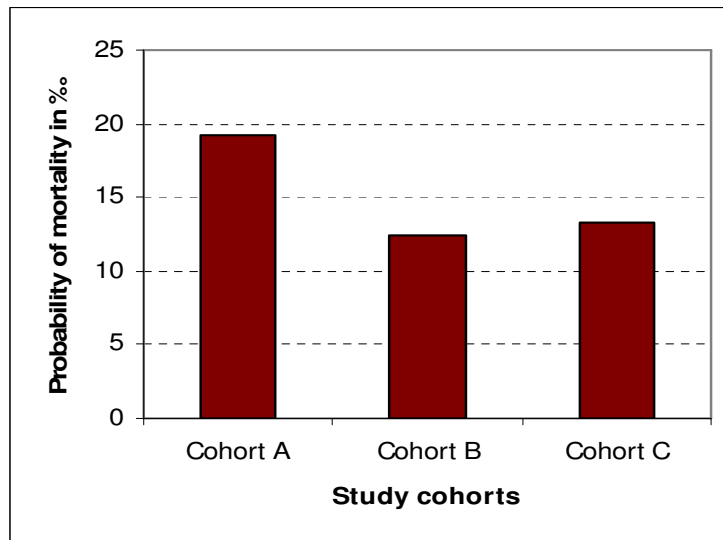
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RESULTS

Death series and risk of mortality within the 3 cohorts



Cohorts	Dead	Alive	Total
A	181	9222	9403
B	14	1118	1132
C	6	445	451
Total	201	10785	10986

Chi2 = 3.0522 P = 0.197

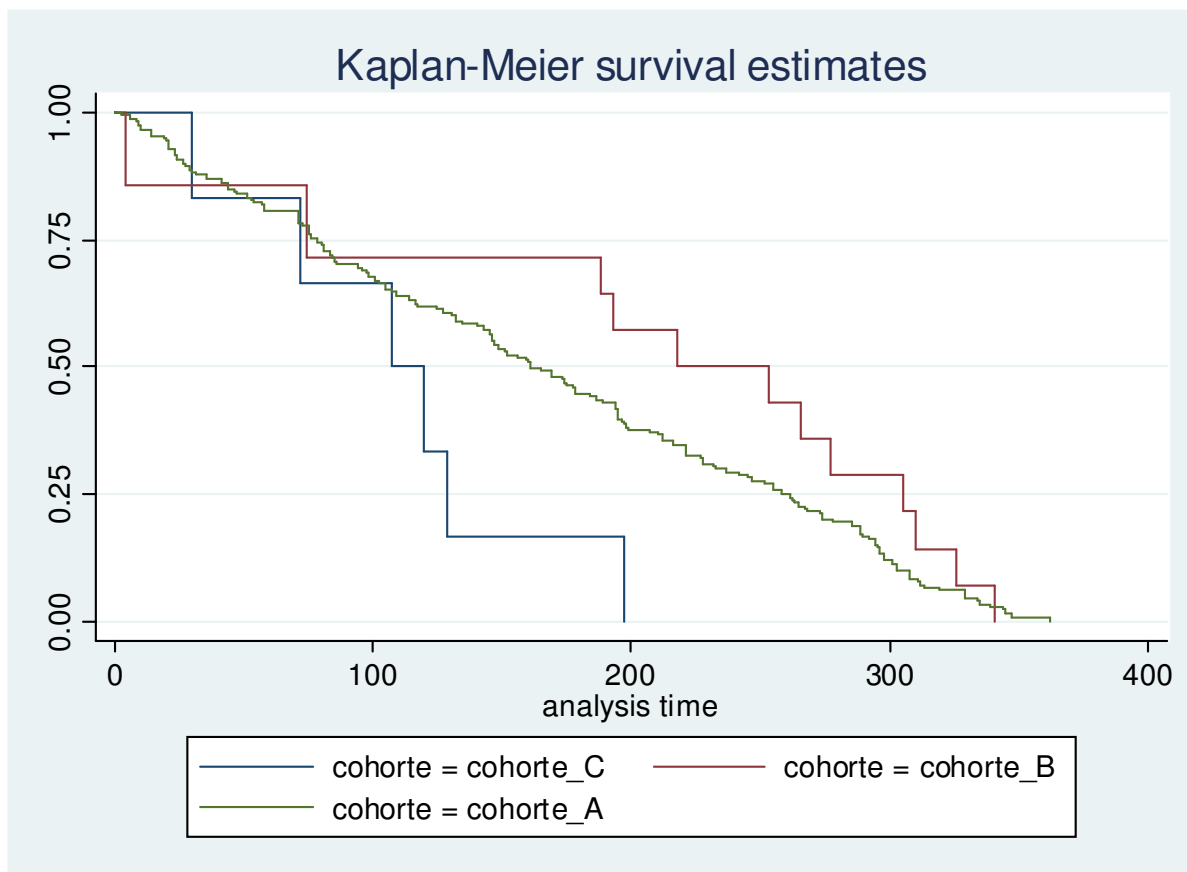


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RESULTS



Time at 50% failure

Cohort C = 107 [30,.]

Cohort B = 218 [74, 305]

Cohort A = 161 [143, 194]

Log rank test

P.Value = 0.0748



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RESULTS

Cohorts	Hazard ratio	P-value	[95% confidence Interval]
Cohort A	ref	ref	ref
Cohort B	0.7	0.292	[0.43 - 5.08]
Cohort C	2.2	0.056	[0.97 - 1.78]



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DISCUSSION AND CONCLUSION

- Several studies found that economic inaccessibility of social services in general and health services in particular is one of the main factor of underdevelopment
- This study confirm this point of vue and made a prouf that current health cost in Sapone is an obstacle to people well being



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DISCUSSION AND CONCLUSION

- Achieving MDGs, we need to imagine a health care protection which integrates the populations purchasing power. We have to do that because if Healthy condition has a cost we need also to be in health conditions to make money.



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Thank you for your attention



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