Abstract of Master's Dissertation

Course	International Health Development	Name	Takumi Sakamoto
Thesis	Effectiveness of Free Child Healthcare policy in reducing catastrophic health		
Title	expenditure: a facility-based prospective study in Kwale County, Kenya		

Background: In the paradigm shift from Primary Health Care (PHC) to Universal Health Coverage (UHC), financial protection has been widely recognized its importance. Financial protection is often measured by incidence of catastrophic health expenditure (CHE). While indirect costs, such as transportation costs and income loss, are merely considered health expenditures, those costs exacerbate financial hardship. Especially, childhood hospitalization inflates indirect costs since it usually involves accompanying person(s). In Kwale County, Kenya, although Free Child Healthcare Policy is implemented, the Policy covers only direct costs. Thus, this study aims to assess the effectiveness of the Policy in reducing CHE considering the costs that are not covered by the Policy.

Objectives: The objective of this study is to assess the effectiveness of the Policy in reducing CHE by (i) comparing the difference in prevalence of CHE between factual (the current situation under the Policy) and counterfactual (the situation as if the Policy had not existed); (ii) exploring the determinants of CHE due to childhood hospitalization; and (iii) estimating the magnitude of indirect costs in health expenditure.

Methods: A facility-based prospective study was conducted in Kwale Sub-County hospital, Kenya. Sample size was calculated in terms of prevalence of households suffering CHE, considering non-response rates of 0.2 and withdrawal rate of 0.2 (n=72). All inpatients under five years of age were targeted. Newborns without any disease were excluded from the target. The question about household expenditures and health expenditures were asked in structured interviews with their family. To calculate the direct costs that were covered by the Policy, medical records were referred to. McNemar's test was conducted to compare the difference in prevalence of CHE between factual and counterfactual. To explore the factors associated with whether households undergo CHE, logistic regression was conducted. Descriptive analyses were conducted to assess the magnitude of indirect costs in health expenditure.

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prevales in factu quintile with ur expendi transpo Moreov hospital Conclus childho only dir incur C be paid	nce of CHE in counterfactual (72 al (50.9%) (P<0.001). The results of households and longer duration ndergoing CHE. Overall, indirec- itures. To accompany child in rtation, and 48 households (81.4% rer, 42 households (71.2%) ur lization. sion: The Free Child Healthcare od hospitalization (22% = 72.9% rect costs is not enough to achieve HE. Especially, indirect costs that attention to when child inpatients rs or an insurance system that com-	.9%) was s s of logistic n of hospit ct costs a patients, 6) paid for nderwent Policy wa - 50.9%). c UHC since are incurrents	ttients participated in this study. The significantly higher than that of CHE c regression showed that lower wealth alization were significantly associated ccounted for 46.9% of total health 55 households (93.2%) paid for extra foods for accompanying person. income loss because of a child's as effective in reducing CHE due to However, financial support covering ce indirect costs were large enough to ed by an accompanying person should e healthcare services. Transportation ne loss might be a feasible approach.