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Maternal and perinatal mortality in resourcelimited settings

Claudia Hanson and colleagues (July, 2015)¹ report that maternal mortality was four times higher in women who lived more than 35 km from a hospital in rural Tanzania than in women who lived within 5 km of a hospital. We strongly agree with the findings of their study, but are interested to know whether a similar association was noted between distance and perinatal mortality.

Of the 17 427 deliveries at Modilon Hospital, the only referral hospital in the Madang Province of Papua New Guinea, over a 6-year period, three-quarters of pregnancy-related deaths were recorded in women presenting late to hospital as a result of distance and logistical constrains limiting access

to hospital. Additionally, poor quality obstetric care in peripheral health facilities caused a clinically significant increase in the risk of late presentation and maternal deaths in our setting in Papua New Guinea.2 Because of the high maternal mortality in Papua New Guinea, increased efforts have been made by the government and its partners to improve availability and accessibility of quality obstetric care.3 Consequently, our in-hospital maternal mortality ratio declined from 893 per 100 000 livebirths in 2009 to 363 per 100 000 livebirths in 2014 (p<0.001; figure).

We would be interested to know whether Hanson and colleagues noted any correlation between maternal and perinatal mortality in relation to distance in their study.¹ Although access to professional health care during childbirth should obviously reduce perinatal mortality in parallel

with maternal mortality, we did not find this in our setting (p=0·10; figure). This result highlights the fact that efforts aimed at reducing maternal mortality in developing countries should not overlook neonatal survival.

We declare no competing interests.

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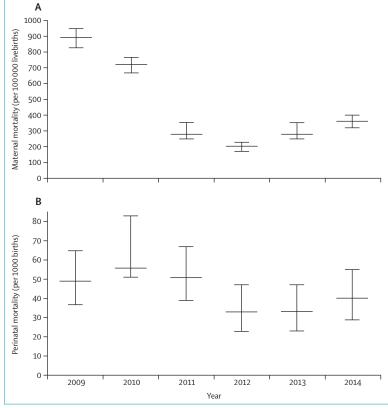


Figure: Trends in (A) maternal mortality and (B) perinatal mortality at Modilon Hospital, Papua New Guinea, 2009-14

Data are mean and error bars are 95% CI