The use of routine case record data to evaluate quality of inpatient hospital care for newborns and children in Kenya
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The use of routine case record data to evaluate quality of inpatient hospital care for newborns and children in Kenya

David Ndegwa Gathara
The use of routine case record data to evaluate quality of inpatient hospital care for newborns and children in Kenya

ACADEMISCH PROEFSCHRIFT
ter verkrijging van de graad van doctor
aan de Universiteit van Amsterdam
op gezag van de Rector Magnificus
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ten overstaan van een door het College voor Promoties ingestelde commissie,
in het openbaar te verdedigen in de Agnietenkapel
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geboren te Laikipia, Kenia
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a. Hospital outcomes for paediatric pneumonia and diarrhoea patients admitted in a tertiary hospital on weekdays versus weekends: a retrospective study.


b. Variation in and risk factors for paediatric inpatient all-cause mortality in a low income setting: Data from an emerging clinical information network.

David Gathara, Mike English, Michael Boele van Hensbroek, Jim Todd, Elizabeth Allen. *Submitted*
Chapter 4 Exploring the value of case record review data as a means to examine variability in quality of hospital care in Kenyan hospitals and to explore associations with such variability


David Gathara, Mike English, Michael Boele van Hensbroek, Jim Todd, Elizabeth Allen. *Implementation Science* 2015, 10:60.

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Samenvatting

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PhD portfolio

About the author
Abbreviations

AMPATH Academic model for prevention and treatment of HIV
ANOVA Analysis of Variance
AUC Area under curve
CIN Clinical information network
COHSASA Council for Health Service Accreditation of Southern Africa
CPG Clinical practice guideline
CPRD Clinical practice research database
DHIS 2 District Health Information System 2
ETAT+ Emergency Triage, Assessment and Treatment Plus Admission Care
EMR Electronic medical record
GFATM Global Fund to Fight AIDS, Tuberculosis and Malaria
HIB Haemophilus influenzae type B
HIC High income country
HIS Health information system
HIV Human immuno-deficiency virus
ICC Intra class correlation coefficient
IMCI Integrated management of childhood illnesses
IT Information technology
IVF Intravenous fluids
KEMRI Kenya Medical Research Institute
KNH Kenyatta National Hospital
LIC Low income country
LRT Likelihood ratio test
MAR Missing at random
MDG Millennium development goals
MLM Multi-level models
MNAR Missing not at random
MySQL Structured Query Language database
NHS National Health Service
PAR Paediatric admission record form
PCV Pneumococcal conjugate vaccine
PEWS Paediatric Early Warning System Score
PHP Hypertext Pre-processor
PIM Paediatric Index of Mortality
PRISM Paediatric Risk of Mortality Score
QI Quality improvement
QoC Quality of care
QOF Quality and outcomes framework
RCT Randomised controlled trial
REDCap Research Electronic Data Capture
RHIS Routine health information system
SIRCLE Health Services, Implementation Research and Clinical Excellence
UK United Kingdom
UoN University of Nairobi
USAID United States Aid for International Development
WHO World Health Organization