Does the Under-diagnosis of Gestational Diabetes Mellitus (GDM) in Liberia Affect the Rate of Maternal Mortality in Country? A Mixed Methods Study of Maternal Interventions in Liberia

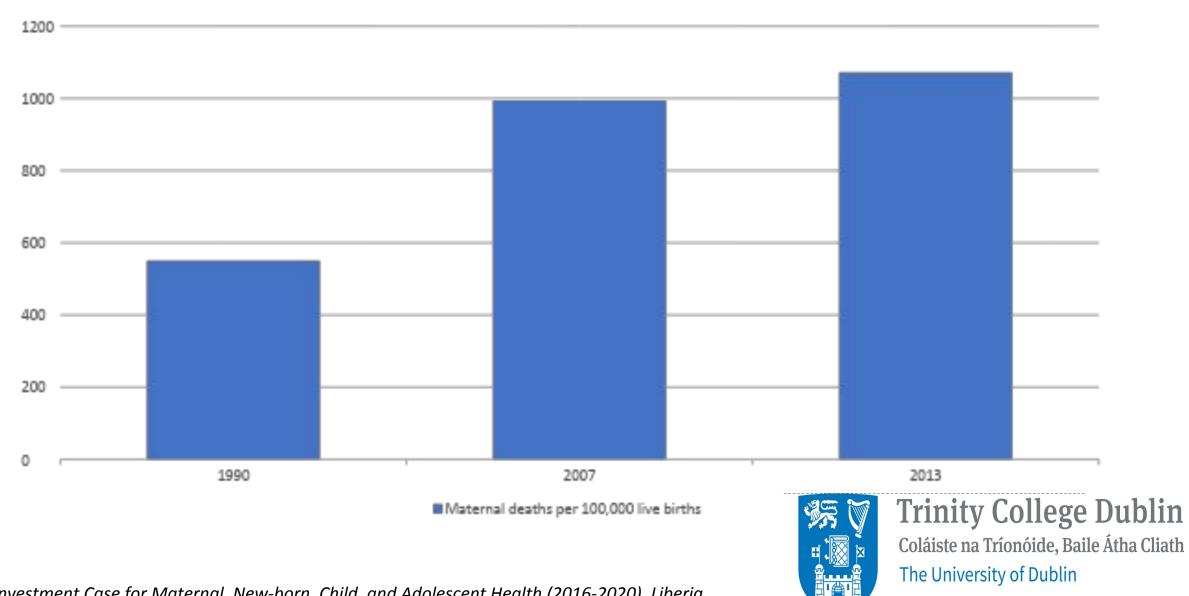


Liberia: a brief background

- Population: 4.7 million people
- Employment 3.9% (Vulnerable employment 79.5%, Informal employment 79.9%)
- Poverty levels: absolute poverty 59.0%, extreme poverty 16.5%
- Literacy levels 35.3%
- Urban population 47%
- Maternal population more than 5km from Health facility: 40%
- Health facility delivery 56%
- Out-of-pocket payment on maternal health 47%
- National Prevalence of GDM unknown

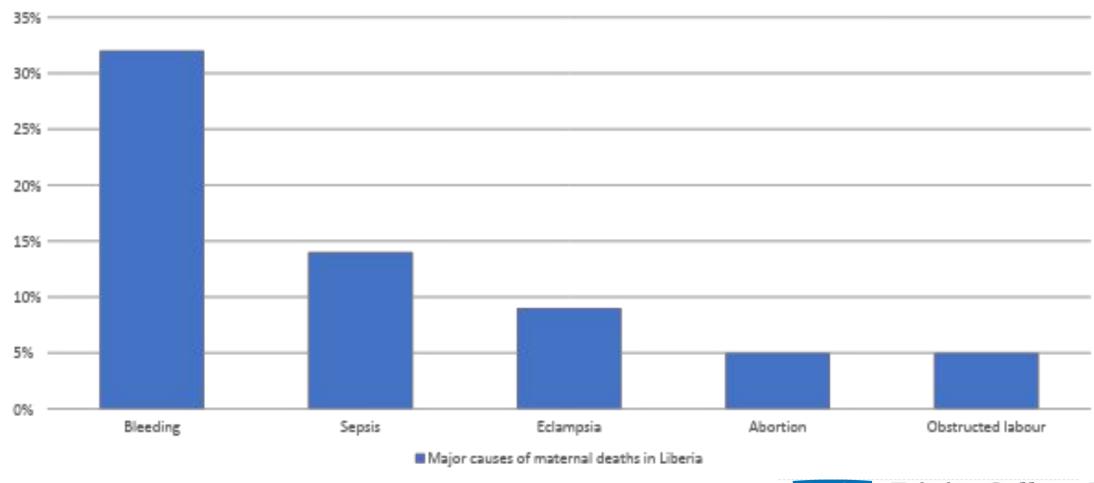


Maternal health in Liberia



Source: Investment Case for Maternal, New-born, Child, and Adolescent Health (2016-2020), Liberia

Major causes of maternal deaths in Liberia





GDM and maternal health: evidence from research



Complications of GDM

•>25 years

Bleeding

Family History

Hypertensive Disorders

Obese people

Obstructed labour

High fasting blood sugar levels

Infection

• Ethnicity (Black, Hispanic, Indian) • Sepsis Sources: World Health Organization (2016); International Diabetes Federation (2018)



Research aims, objectives and methodology

• Aim

• To map barriers and facilitators of GDM service provision in Liberia

Objectives

Explore health system interventions in Liberia that addresses GDM

Methodology

Convergent mixed methods design

Theoretical framework

Walt & Gilson policy triangle framework

Research setting and population

- John F. Kennedy (JFK) Hospital, Liberia
- JFK health workers, persons diagnosed of GDM, MOH health policy makers



Key findings: qualitative and quantitative data

Barriers to effective GDM Management

Policy

- Lack of local evidence
- Vague strategic focus

Access

- Out-of-pocket expenditures
- Lack of awareness
- Socio-economic status

Diagnosis

- Late symptomatic diagnosis
- Kind of routine maternal interventions
- GDM interventions not considered during management of maternal conditions

• Treatment

• Health system inefficiencies



Facilitators to GDM Management in Liberia

Policy

Free maternal healthcare policy

Access

Social protection package at JFK

Diagnosis

Specialists at JFK

Treatment

- "Ground rounds" at JFK
- Involvement of family in treatment plan

Research Conclusions

• GDM service provision not integrated and prioritized at maternal health facilities across the country

 There is a suspected under-diagnosis of GDM which may also contribute to maternal mortality in Liberia



Recommendations

- Augment health facilities' records to include essential information that will capture GDM
- Policy makers to use international and regional evidence to advocate for GDM service provision
- Quick impact intervention study on GDM in the country in the meantime
- Liberian health system to conduct needs and capacity assessment for integration of GDM service provision at maternal health facilities across the country
- Future maternal health policies to include clearer GDM implementation strategy in national policy documents

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Limitations and suggestions for further research

Limitations

- Nature of maternal health data assessed
- Less inferential statistical analysis

Suggestions for further research

More detailed epidemiological research on GDM in Liberia



Thanks for Listening Q&A

