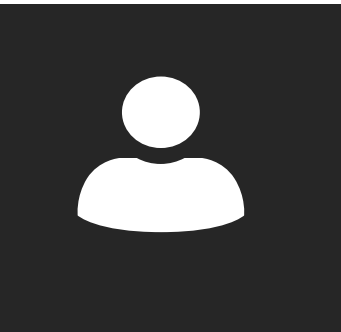




PRESENTER:
Adriana Fuhs

BACKGROUND:

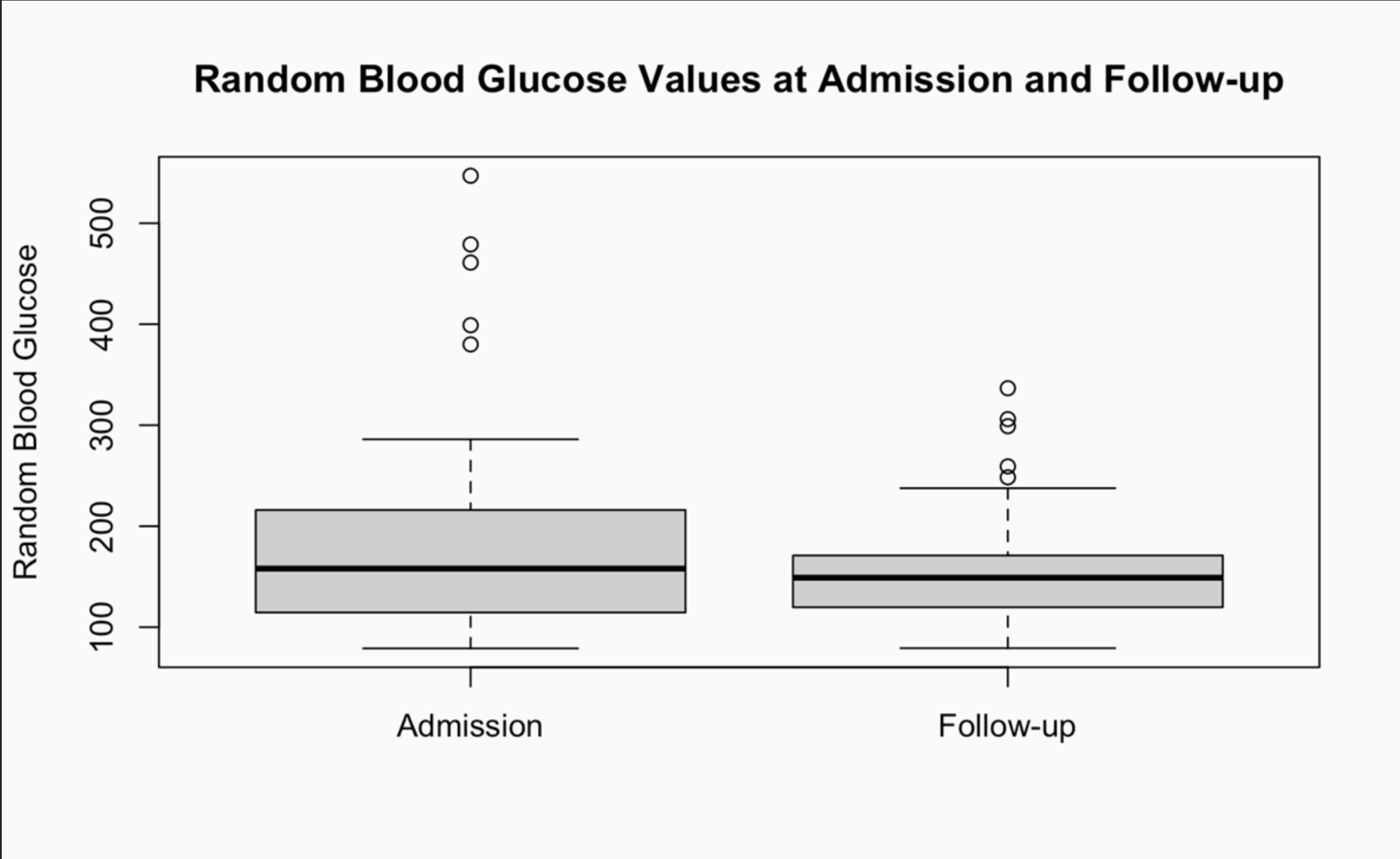
- **Problem:** Type 2 Diabetes Mellitus (T2DM) with 9% prevalence globally,
 - 81% occurring in low- and middle-income countries
- **Burden of disease** particularly high in conflict-affected settings where access to adequate care is lacking.
- **Rationale:** Non-communicable diseases (NCDs) and mental health (MH) conditions are related:
 - Shared risk factors
 - High comorbidity
 - Similar treatment process
- **Addressing this gap** with an integrated NCD-MH intervention implemented in primary care centers in Iraq (1) and Nigeria (2)
- **Model of delivery:** NCD-MH screening, lifestyle and MH counseling, and medication
- **Study objective:** Evaluating whether T2DM patients enrolled in the intervention show improvements in clinical outcomes (baseline vs. last follow-up)

METHODS

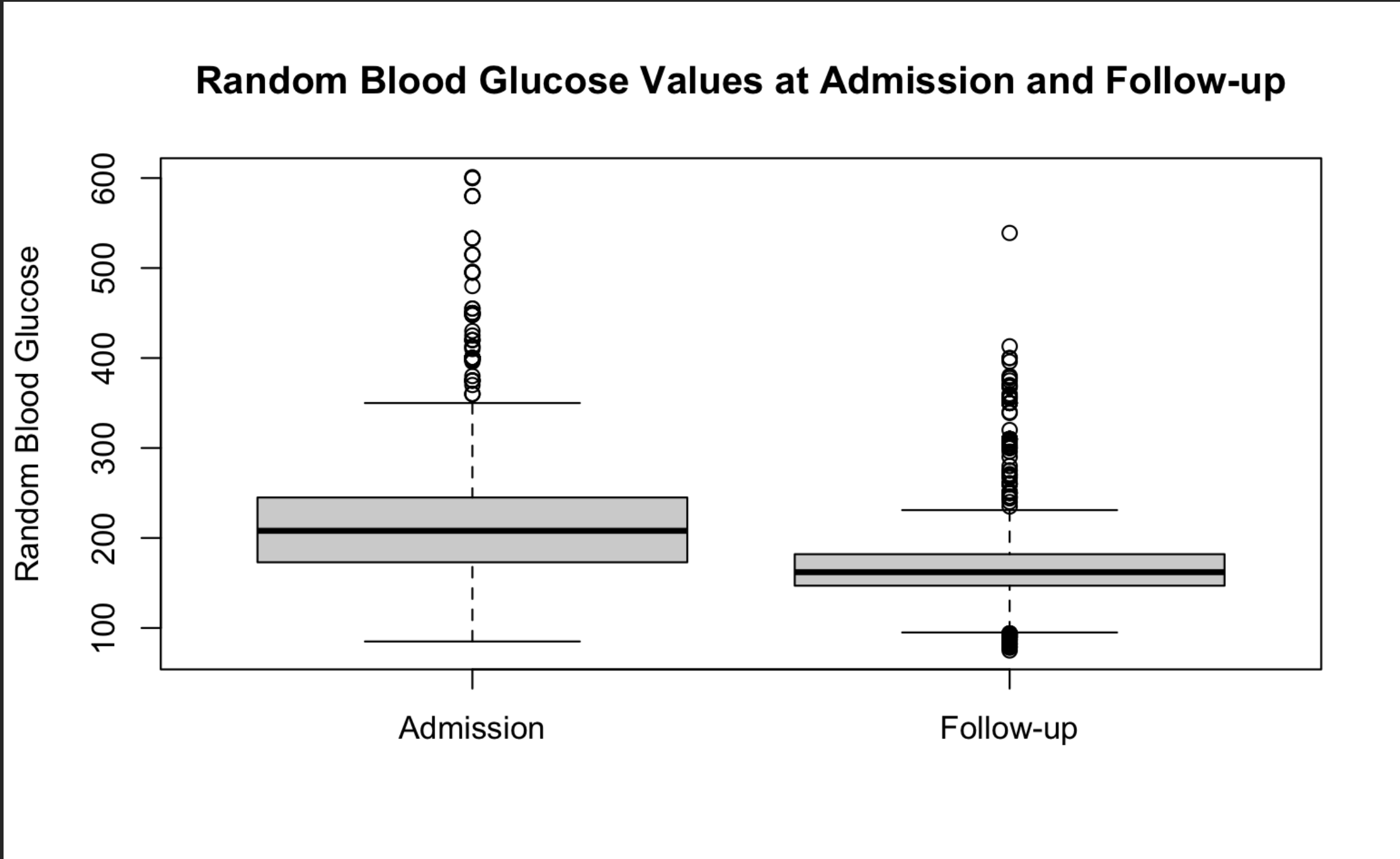
- **Retrospective quantitative study** using routine patient data in Iraq and Nigeria
- **Data collection** from
 - Jan 2021 – Oct 2023 in Iraq
 - Nov 2022 – Oct 2023 in Nigeria
- **Inclusion criteria:** Adult T2DM patients enrolled for at least 3 months in the NCD-MH intervention
- **Measures:**
 - Socio-demographics
 - Duration of enrollment in intervention
 - Attrition rate
 - Primary outcome: control in random blood glucose (RGB) (Controlled RGB ≤ 200 mg/dL)
- **Mc Nemar’s test** assessing proportions with improved and non-improved clinical outcomes between baseline and follow-up

Integrated NCD-MH care services on primary care level have potential to improve Type 2 Diabetes Outcomes in volatile settings.

Diabetes Outcomes Nigeria



Diabetes Outcomes Iraq



RESULTS

	Nigeria	Iraq
Socio-Demographics	73% female; 81% unemployed; moderate/high health behavior	75% female; 77% unemployed; moderate/high health behavior
Attrition rate	~38%	~25%
T2DM Prevalence in sample	20% of enrolled patients (N=43)	37% of patients enrolled (N=999)
Comorbidities in sample	8% with hypertension 0.7% with MH	12% with hypertension NA with MH
Primary Outcomes	Mean RGB decline of –33.5 mg/dL; non-significant (p = .182; OR = 3.5, 95% CI: 0.73–16.9)	Mean RGB decline of –78.2 mg/dL; significant improvement (p < .001; OR = 12.9, 95% CI: 7.3–22.5)

DISCUSSION

- The NCD-MH intervention showed effectiveness in Tel afar, Iraq, significantly improving the RGB levels of patients with T2DM
- In Konduga, Nigeria, a positive trend was observed, effectiveness could not be proven statistically – likely due to a small sample size (N = 43)
- **Nigeria and Iraq contexts differ** in the basic prevalence of T2DM (7% vs. 13% respectively), potentially influencing divergent outcomes per context
- Overall, this study provides evidence for the effectiveness of integrated NCD-MH services on primary care level in improving patients’ T2DM outcomes.
- **Study limitations** include:
 - relatively high loss to follow-up,
 - use of RGB rather than more reliable effectiveness measure (e.g., HbA1c)
- **Future research directions:**
 - Explore context-specific needs and patient experiences to improve services in each setting.
 - Apply more robust measures for clinical outcomes to more reliably monitor clinical outcomes.

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