

A Comparative Analysis of Economic Cost and Social Dimensions of Podoconiosis and Leprosy on Affected Households in the North West Region of Cameroon.

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OUTLINE

- Background and Rationale
- Objectives
- Study Design and Method
- Results and Discussion
- Conclusions and Recommendations

BACKGROUND AND RATIONALE

- ▶ Podoconiosis (podo) and leprosy progressively cause devastating disfigurements and disability.

Economic Impact

- Reduced productivity (both domestic and economic).
- Treatment may lead to catastrophic health expenditures ($\geq 10\%$ of household income)

Social Effects

- Stigma.
- Social discrimination and exclusion (marriage partners and employment).
- Reduced quality of life.



PODOCONIOSIS

BACKGROUND AND RATIONALE

Prevalence In Cameroon

- Podoconiosis \longrightarrow (0.5%) Kebede et al 2018
- Leprosy \longrightarrow (Essimiland=1.7/10000, Boyo=2/10000)
Nsagha et al 2009; Nsagha et al 2014

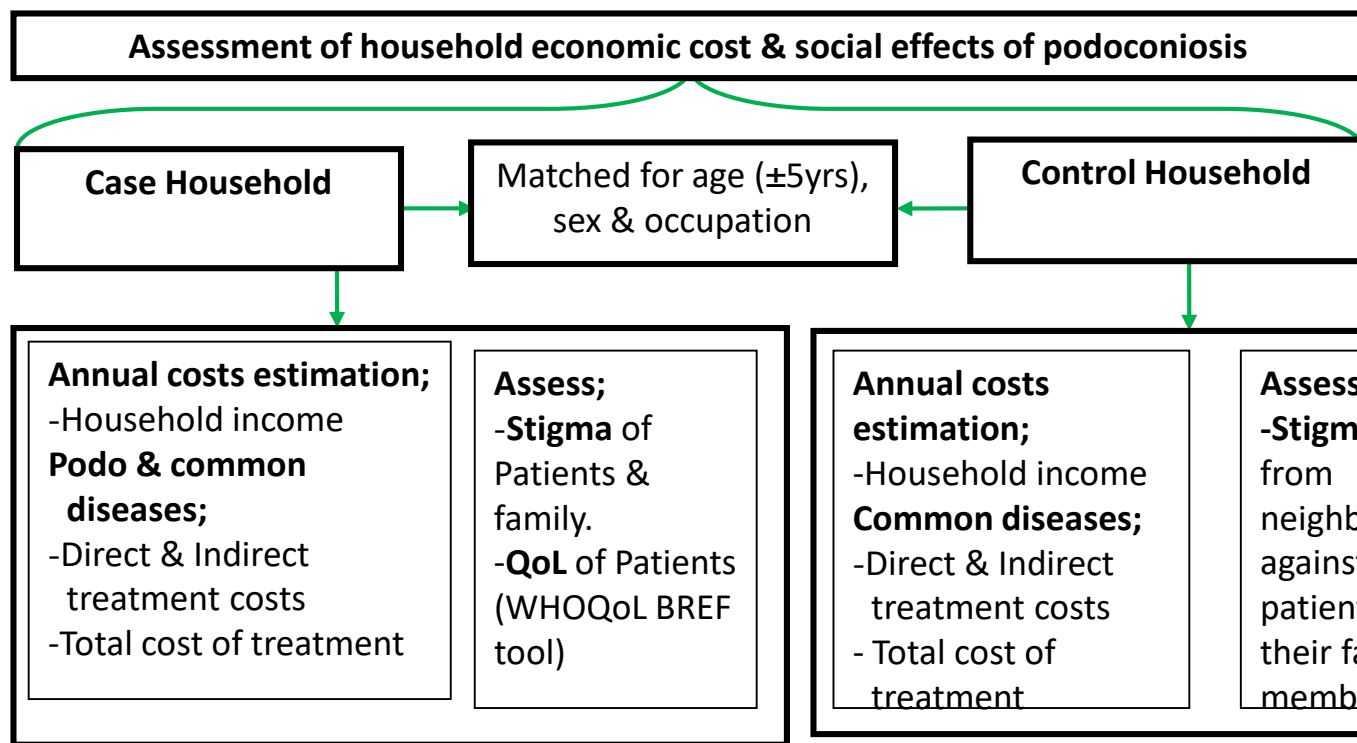
Objective

- To estimate and compare the economic cost and social effects of podo and leprosy at household level
- Aiming to **establish research-based evidence on the need for public health action in Cameroon.**



LEPROSY

METHODS



Economic Outcome Variables

- Household income
- Annual cost of treatment
- Cost burden

Economic Analysis

- Differences between study groups
- Differences in income
- Differences in working days lost
- Differences in proportions of cost burden.

Social Outcome Variables

- Patients QoL
- Patients enacted stigma
- Patients felt stigma
- Stigma from household members against patients
- Stigma from neighbours against patients and family members

Social Analysis

- Differences between study groups
- Differences in QoL scores
- Differences in stigma scores
- Association between QoL & stigma scores with age, sex, income & education.

Figure 1: Conceptual Framework showing a comparative cross sectional study design employing quantitative methods.

RESULTS AND DISCUSSIONS

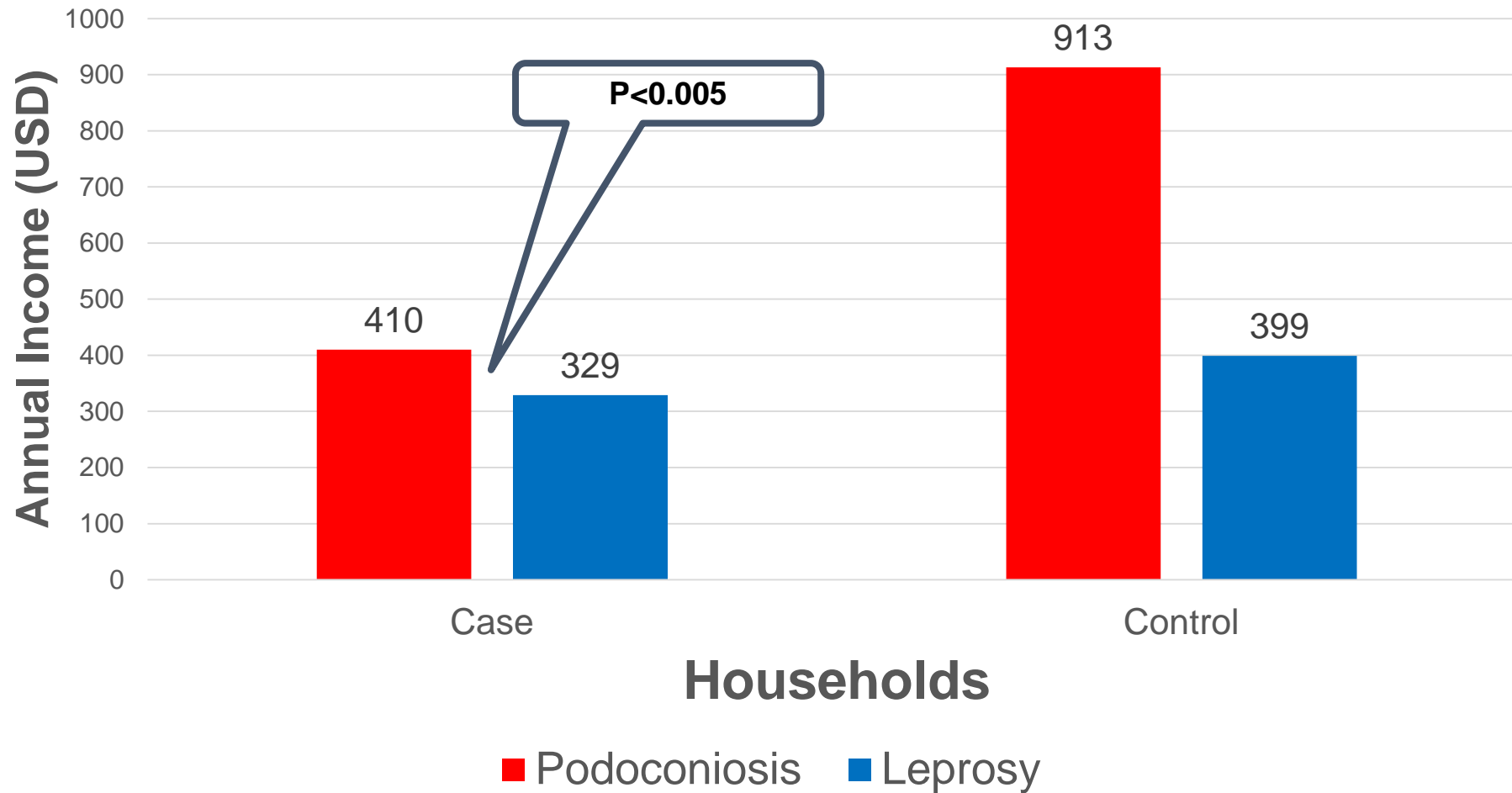


Fig 2: Annual Income for Podocniosis and Leprosy Respondents

RESULTS AND DISCUSSIONS

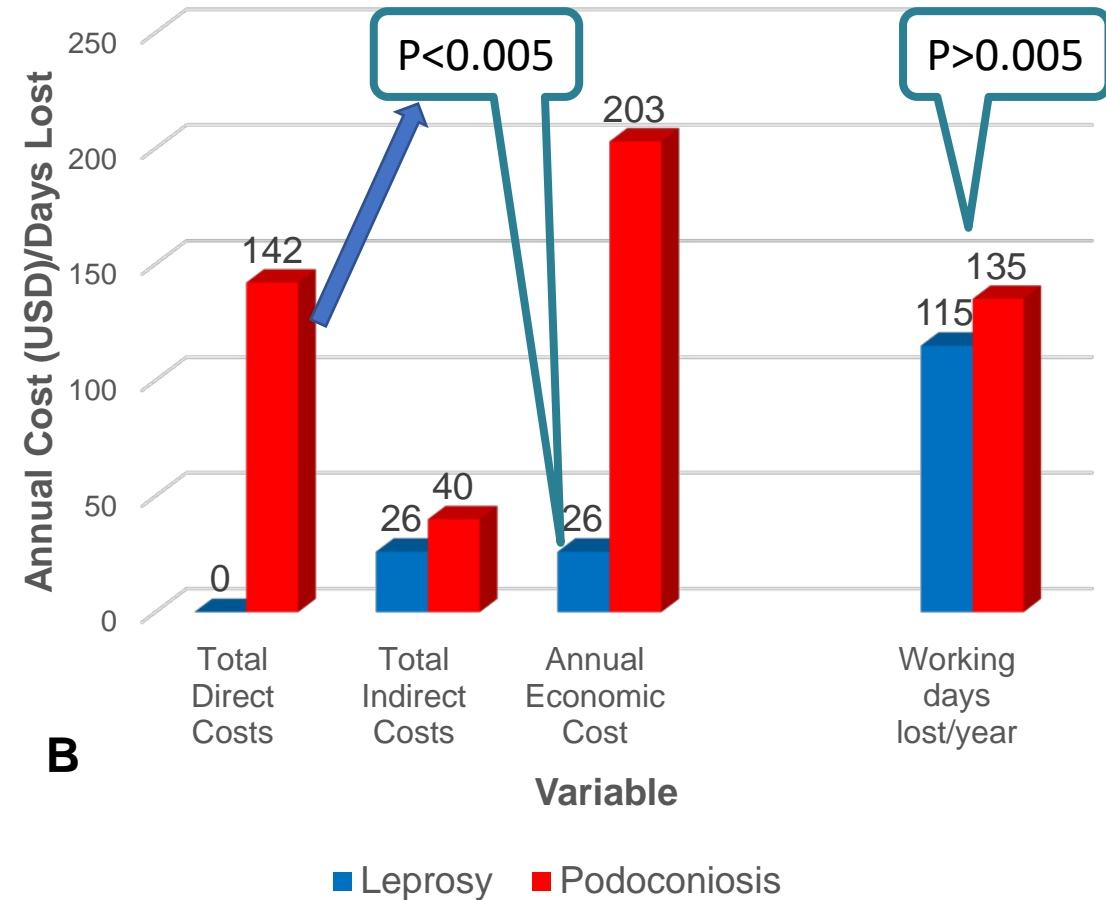
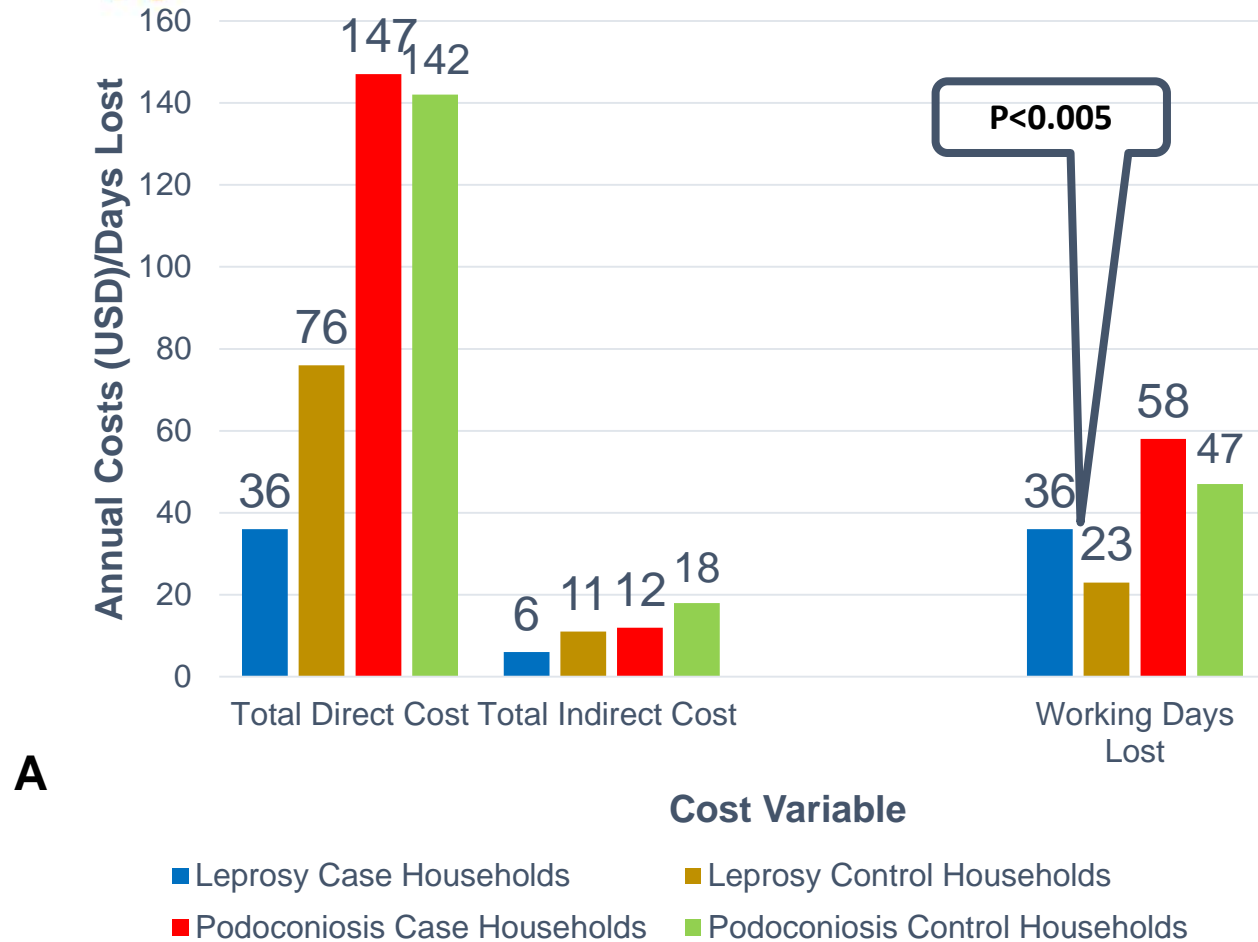


Fig 2: A) Economic Cost of Common Diseases.

B) Economic Cost of Podo & Leprosy

RESULTS AND DISCUSSIONS

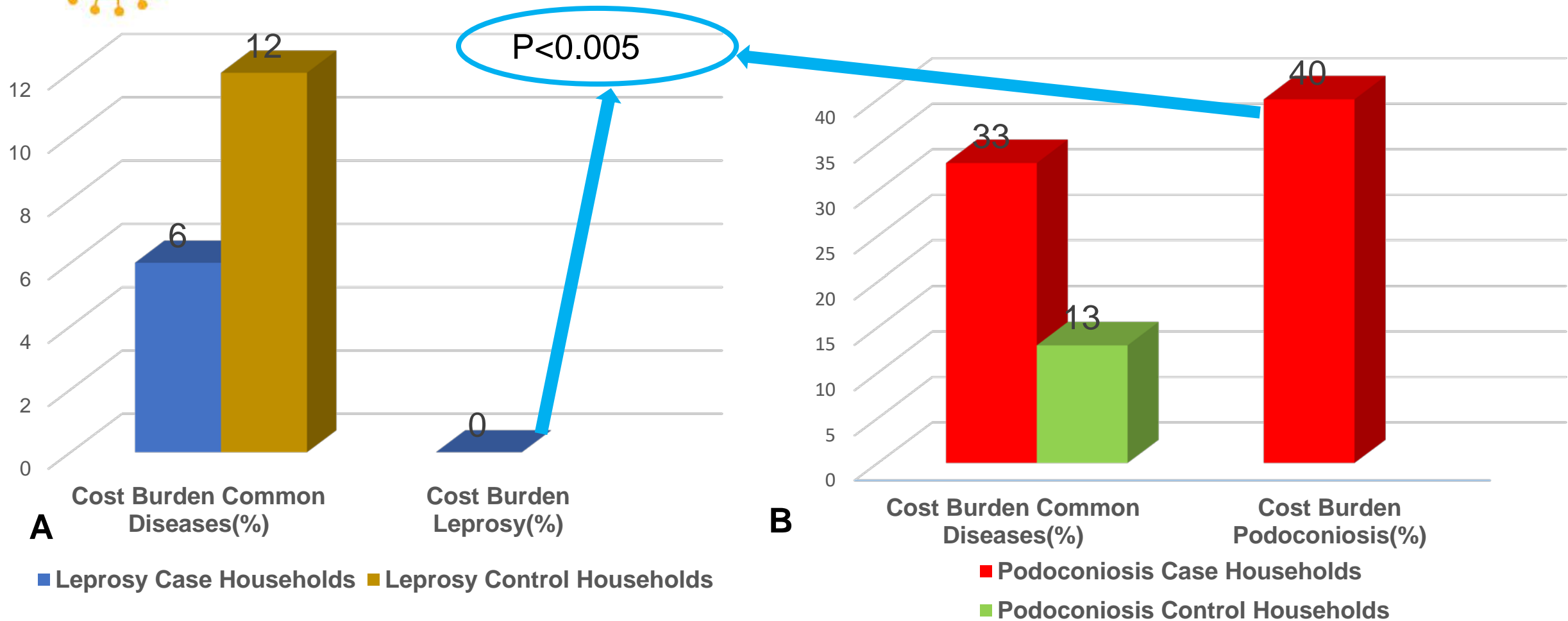
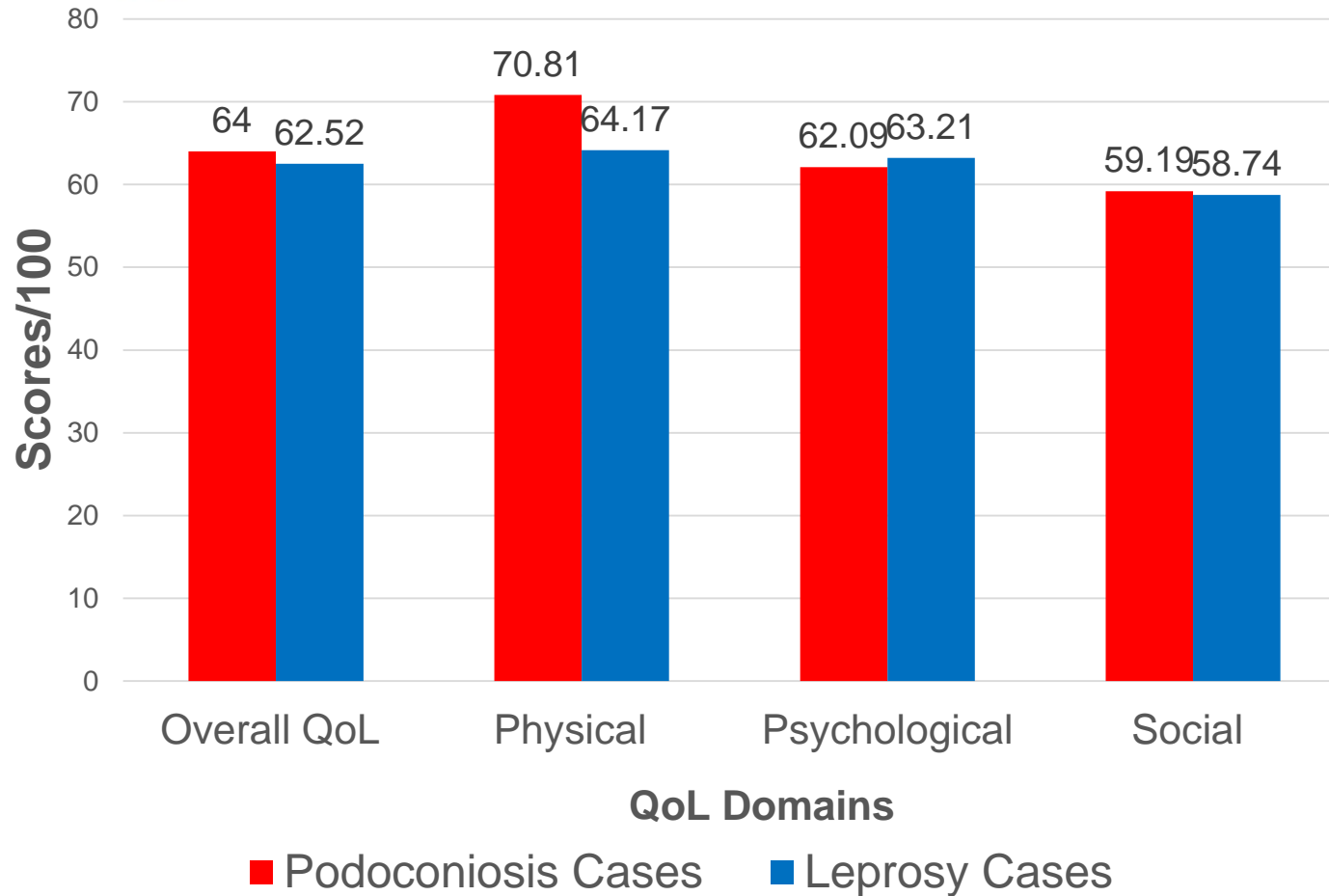


Fig 3: A) Disease Cost Burden Leprosy Households. B) Disease Cost Burden Podoconiosis Households.

RESULTS AND DISCUSSIONS



- Average quality of life domain scores were similar across all domains ($p>0.005$).
- Overall QoL Scores ($p>0.005$)

Mousley et al., 2013 in Ethiopia

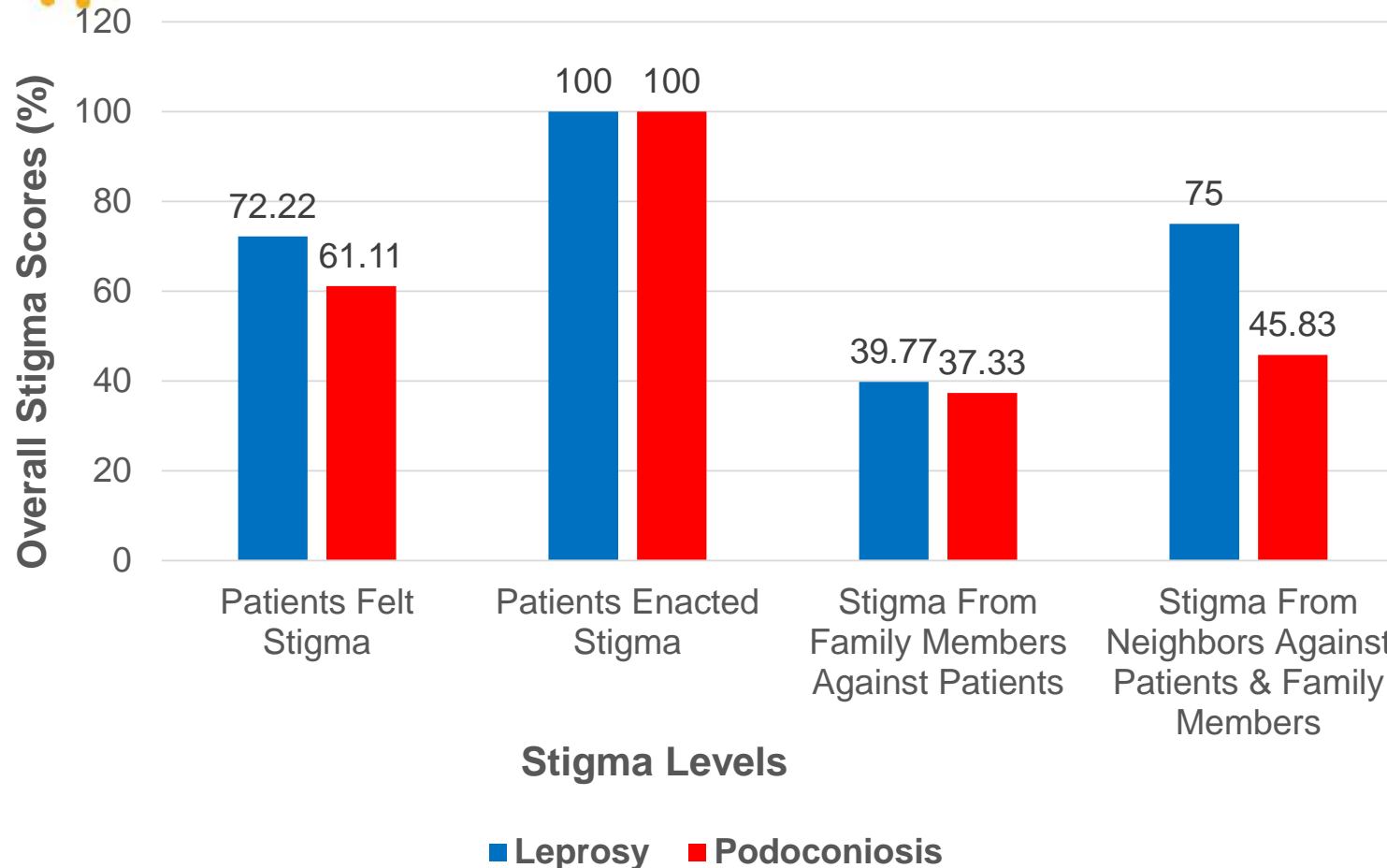
Mankar et al., 2011

Felipe et al., 2013

Geetha & Sundar, 1999

Fig 3: Patients' Quality of Life

RESULTS AND DISCUSSIONS



- No significant differences observed;

Patients felt stigma
 Patients enacted stigma
 Family member stigma

P>0.005

Neighborhoods (p<0.005)

Deribe et al., 2013
 Tora et al., 2014
 Van Brakel, 2003

Fig 4: Comparing Overall Stigma between Podoconiosis and Leprosy at Three Levels

CONCLUSIONS AND RECOMMENDATIONS

Conclusions

- Cost burden for treatment of podo is high (40%) > 10% recommended for catastrophic health expenditures
- Patient quality of life and stigma associated with podoconiosis on affected households is comparable to that experienced by leprosy households



LEPROSY



PODOCONIOSIS

Recommendations

- Urgent need for intensified preventive, management and control schemes to fight podoconiosis in Cameroon, just like leprosy.
- Social inclusion of all people with disabilities i.e. 'no-one is left behind' as we move towards podo control from research to implementation.



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THANK YOU ALL FOR YOUR
KIND ATTENTION

