

Burns Prevention in Soweto and Beyond

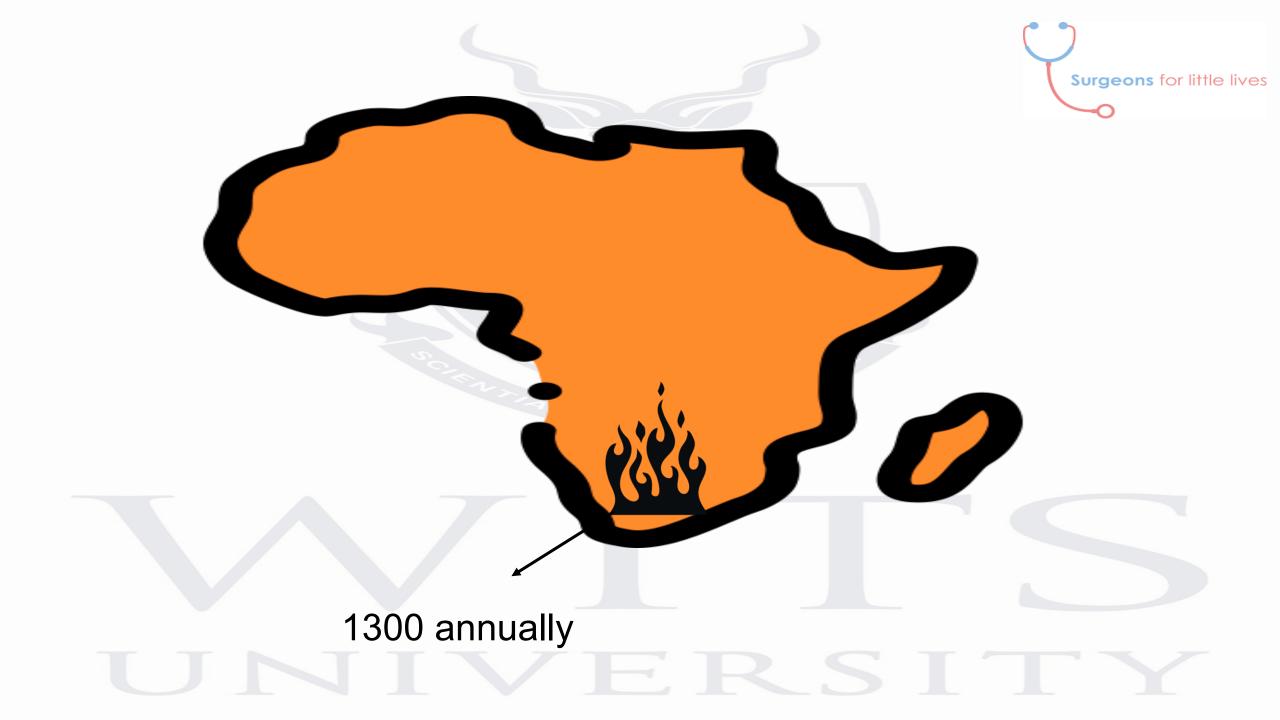
Nirav Patel Consultant Paediatric Surgeon Chris Hani Baragwanath Academic Hospital Director, Surgeons For Little Lives





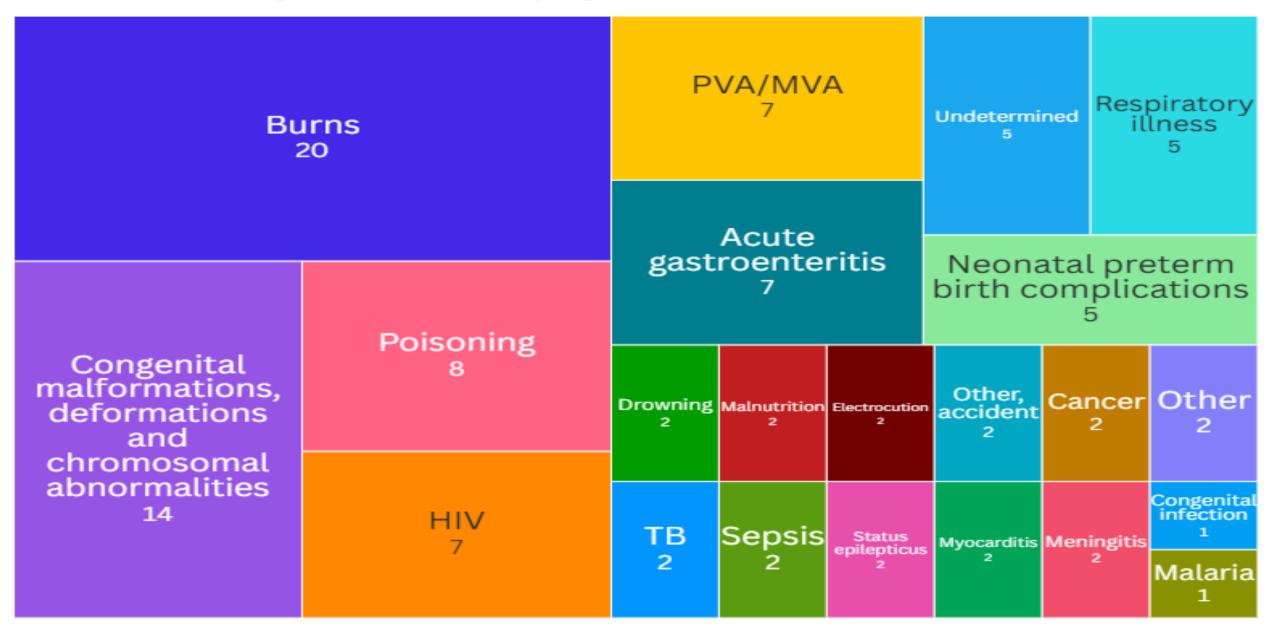


Surgeons for little lives



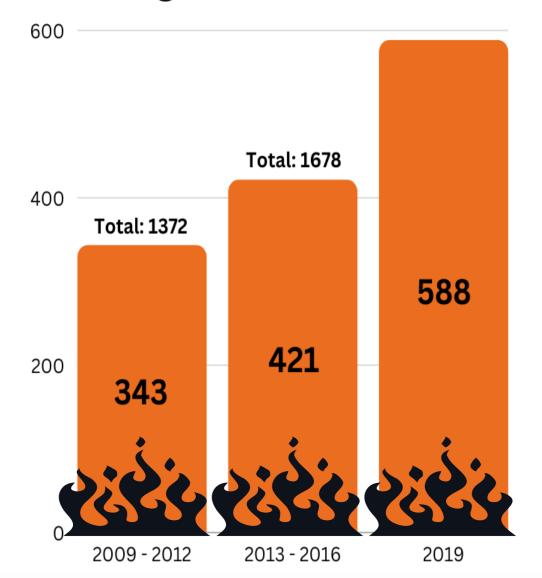
Underlying cause of death in children (12 to 59 months)

(Data is percentage of total underlying causes - %)



How Big is the Problem?

Average Annual Admissions





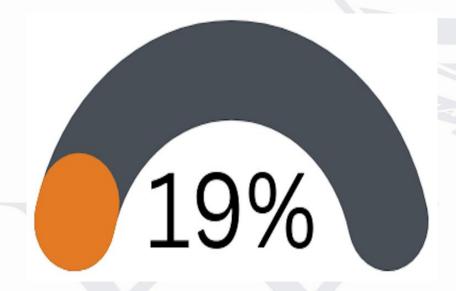


2019: 900 children treated for burns at CHBAH alone

Resource Diversion



Burns as a % of all surgical cases



Significant resource diversion away from non preventable disease



PROBLEM



Common + Worsening



Expensive



Debilitating



Preventable





Contributing Factors





Society

I. Settlement trends (Urbanisation)



Community

- I. Poverty
- II. Overcrowding
- III. Electrification



Household

- I. Spatial arrangement
- II. Construction
- III. Paraffin stove



Individual

- I. Substance abuse
- II. Lack of knowledge/awareness



Education (individual, family, community)

Current Situation

Surgeons for little lives

- Paucity of organisations (NGO, Governmental)
- Focus on treatment and rehabilitation
- Schools miss target
- Gap
- Opportunity for prevention





The Important Numbers at Bara





Majority at home



Most burns during winter months



72% 3 years or younger



79% burns are HWB



38% NO first aid



40% are classified as severe

25% **INCORRECT** first aid



Burns Awareness Programme Core Messaging



General Awareness



Risk Reduction



Action











Multimedia approach (pamphlet, animated video, radio, print media)



Local language



Repetitively



Behaviour change



General Awareness



QAPHELA

Izingane ezingaphansi kweminyaka emihlanu zisengozini enkulu



Kungenzeka ekhaya lapho kukhona umuntu, nangesikhathi sokupheka, lapho umgezisa ngisho noma nidlala



Ukusha esikhathini esiningi kubangelwa amanzi ashisayo



Ukusha kubucayi. Ukusha kungavinjelwa



Asibanakekele ngathi siyabazala, anti

























Surgeons4LLives 258 Tweets

Following

17



Paediatric burns are a massive public health issue. Burns admissions have increased 45% in 10 years. Help us in our battle against burns.

#surgeonsforlittlelives #surgeons #charity #patient #doctor #donation #paediatrics #paeds #burns #burnsunit #burnsawarenessmonth

BURNS ARE SERIOUS Burns are preventable











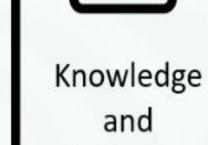




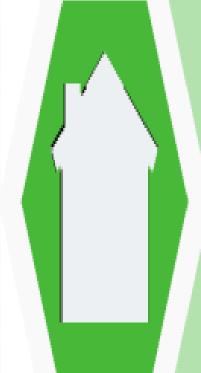
VALUERSITY UNIVERSITY

Burns Intervention

Methods



behavior

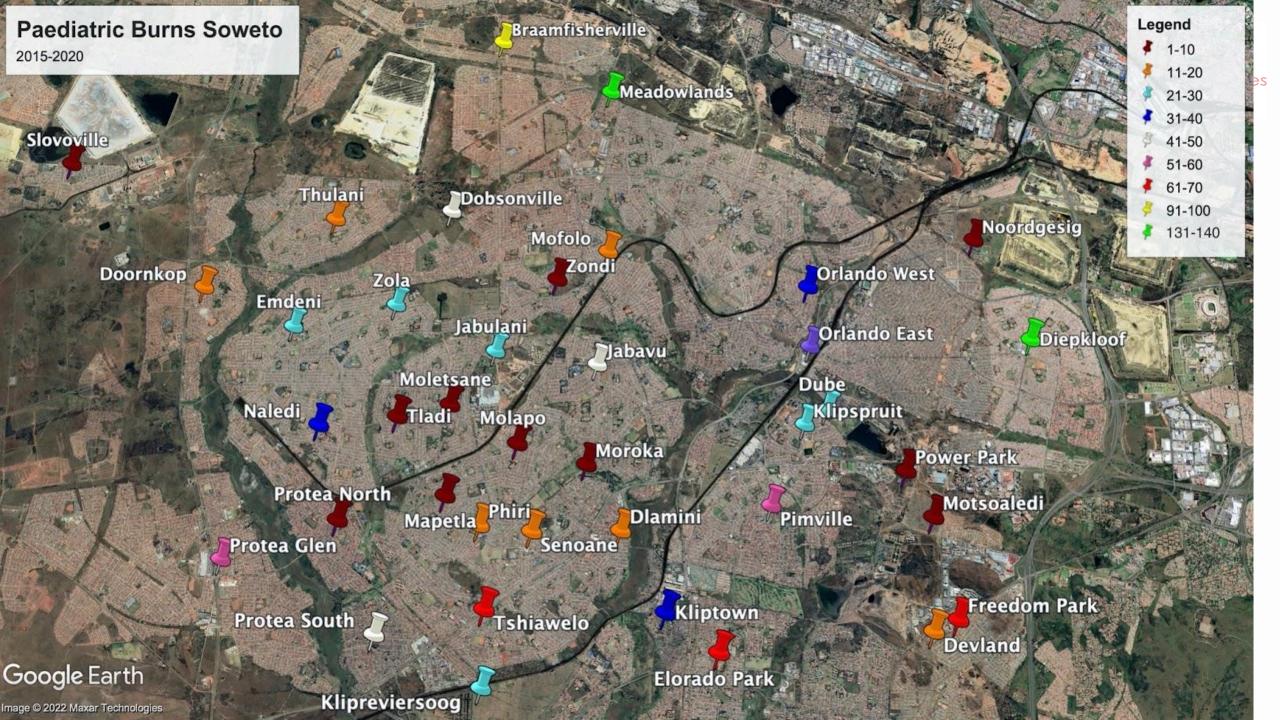


Community intervention

- 245 households + 50 control households
- Pre- and post-surveys (190 followed)

up)





Results





Overcrowding (84%)



Electrification (98%)



Still boil water for bathing



31% previous burn



29% incorrect first aid



50% no child safe zone and children left unsupervised

Results – Post Intervention





Change in knowledge

29% - 64% identification of correct first aid



Behaviour change

29% - 56% performing the correct first aid



Safe practice in the home

~50% safe zone when cooking/boiling water

Holistic Prevention



Interventions by various actors at multiple different levels:



Urban planning



Legislation and enforcement of laws regarding household safety standards



Use of safe energy sources



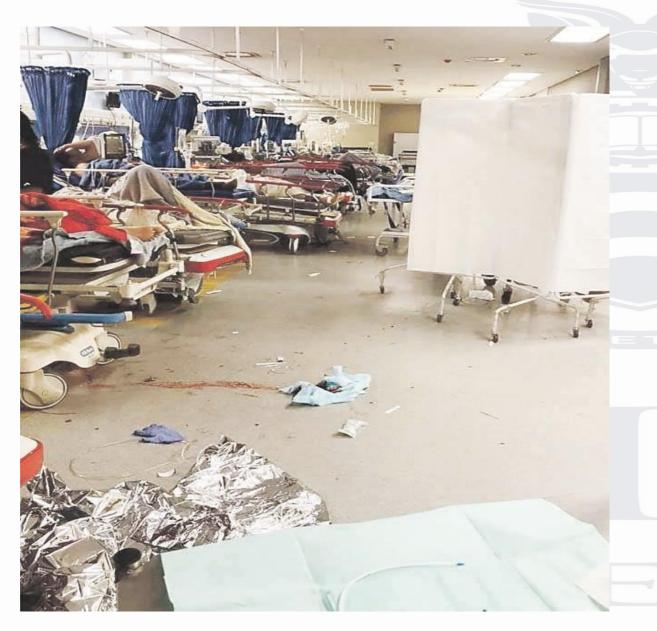
⊞

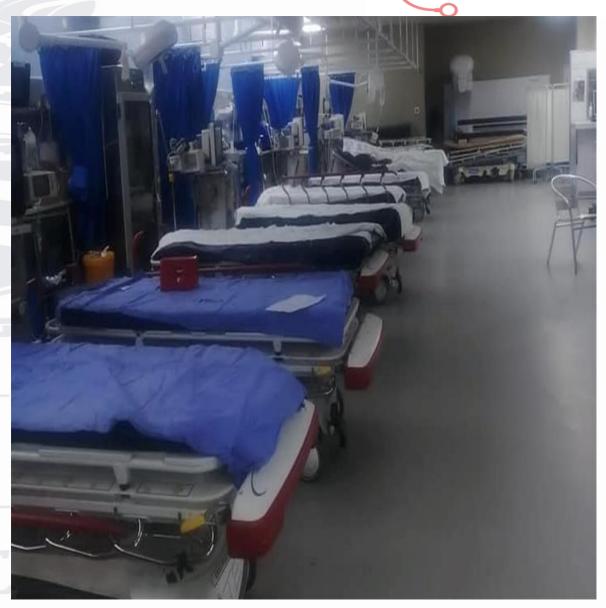


System of adequate treatment centres

Prevention vs Treatment

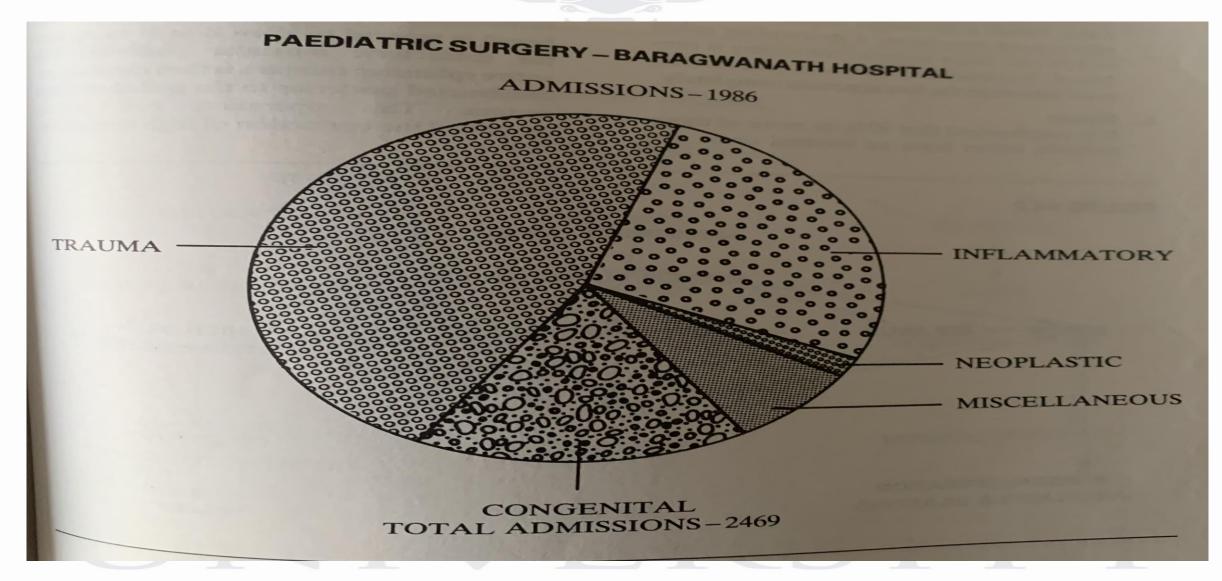






FUTURE...







NIRAV PATEL

0735589173

Nirav.Patel@wits.ac.za