Developing and implementing a community-led burn prevention and first aid programme in three rural municipalities in Nepal

OBJECTIVE
Identify key barriers, facilitators and effective strategies for developing and implementing a community-led burn prevention programme, using the Consolidated Framework for Implementation Research (CFIR) Domains (Damschroder et al, 2009).

PHASE 1: INCEPTION JAN-JUN 2018
- Stakeholder introductory meetings
- Formal approval from local government for project
- Stakeholder involvement in preparation for research

PHASE 2: COMMUNITY BASED RESEARCH AND ENGAGEMENT JUL-DEC 2018
- Key Informant Interviews
- Focus Group Discussions
- Household Survey
- Participation in local government planning
- Patient Journeys

PHASE 3: COMMUNITY DEVELOPED PREVENTION AND FIRST AID APPROACH JAN-SHR 2019
- Dissemination of results using pictograms to guide stakeholder community discussion
- Documentation of community resolutions on approaches to prevent burn injury and improve first aid practices in each setting
- Identification of required resources including local champions and appointed leads
- Development of a monitoring and evaluation tool

PHASE 4: PILOT OF COMMUNITY LED PREVENTION AND FIRST AID INTERVENTIONS FROM OCT 2019
- Initiation of prevention and first aid program
- Monitoring of prevention and first aid program
- Evaluation of prevention and first aid program

COMMUNITY RESEARCH RESULTS
- Rasuwa District
  - Population: 43,500
  - 5 Rural Municipalities
  - Amo Chhodingmo RM Population: 3,891
  - Burn Incidence 2017-18 = 1/100 HH
- Makwanpur District
  - Population: 28,251
  - 8 Rural Municipalities
  - Lakshminya RM Population: 28,251
  - Burn Incidence 2017-18 = 4/100 HH
- Danusha District
  - Population: 13,891
  - 8 Rural Municipalities
  - Indrasarowar RM Population: 13,891
  - Burn Incidence 2017-18 = 1/100 HH

Population at risk:
- Women and children in the home setting experiencing scald and flame burns while preparing or serving food
- Limited practice of recommended first aid for burn injury
- Limited knowledge and awareness on burn prevention
- Limited practised of recommended first aid for burn injury

PROPOSED INTERVENTIONS TO GENERATE AND SUSTAIN AWARENESS AND ADVOCATE FOR PREVENTION
- Facilitated stakeholder discussions to identify and act on local feasible interventions
- Training of Female Community Health Volunteers (FCHVs) and Health post Staff on Burn Prevention and First Aid
- Case studies of prevention plans for publication in local newspapers and magazines
- Pictograms can generate meaningful local involvement and engagement
- Local media: utilising FM radio and television
- Case studies of prevention plans for publication in local newspapers and magazines
- Street theatre, awareness campaigns and prevention as part of burns surgery camps

Given barriers and facilitators identified within CFIR, which interventions proposed by the local stakeholders should be prioritised?

Barrier: Case studies of prevention plans
- Time and resource consuming
- What should be prioritised?

Barrier: Several proposed interventions
- Extensive weather conditions have delayed implementation in two sites
- What should be prioritised?

Barrier: Training of FCHVs Health post staff
- Frequently and abruptly transferred
- What should be prioritised?

Barrier: Inclusion of burns prevention in local government planning: cost barrier in one of the sites
- What should be prioritised?

Barrier: Geographical conditions (hilly) of Rasuwa and Makwanpur makes them difficult to access impacting on time and resources
- What should be prioritised?

Barrier: Facilitated stakeholder discussions on prevention: Multiple local languages not all of which are spoken by facilitators
- What should be prioritised?

Facilitator: Research dissemination: Pictograms can generate meaningful local discussion on prevention

Facilitator: Monitoring and Evaluation: Health posts plan to include burn incidence in routine surveillance

Facilitator: All interventions: Local stakeholders were included in all stages

Facilitator: All interventions: Local governments with local budgets, interested and engaged

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