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Reducing childhood illness - fostering growth: an integrated home-based intervention package (IHIP) improving indoor-air pollution, drinking water quality and child nutrition

Submission date
04/02/2010

Registration date
14/04/2010

Last Edited
08/11/2016

Recruitment status
No longer recruiting

Overall study status
Completed

Condition category
Respiratory

[_] Prospectively registered
[_] Protocol
[_] Statistical analysis plan
[X] Results
[_] Individual participant data

Plain English summary of protocol
Not provided at time of registration

Contact information

Type(s)
Scientific

Contact name
Dr Claudio Lanata

Contact details
Instituto de Investigación Nutricional
Av. La Molina 1885
La Molina
Lima
Peru
Lima-12

Type(s)
Scientific

Contact name
Dr Daniel Mäusezahl

Contact details
Swiss Tropical & Public Health Institute (Swiss TPH)
Socinstrasse 57

Basel
Switzerland
CH-4002
-
daniel.maeusezahl@unibas.ch

Additional identifiers

Study information

Scientific Title
Integrated environmental home-based intervention package for child survival: a community randomised trial

Acronym
Peru-IHIP

Study objectives
An immediate and massive reduction of household burden of disease in childhood (acute respiratory infection [ARI], diarrhoea, nutrition-related illness/factors) will have a measurable impact on rural livelihoods and home economies.

Ethics approval required
Old ethics approval format

Ethics approval(s)
1. Institutio Nacional de Salud (Peruvian Ministry of Health), 12/03/2008
2. Comite Etica Investigation of the Instituto de Investigation Nutritional (IIN), 20/08/2008
3. Ethics Committee of Basel, Switzerland (EKBB), 15/09/2008

Primary study design
Interventional

Study design
Community randomised trial

Study type(s)
Quality of life

Health condition(s) or problem(s) studied
Diarrhoea, acute lower respiratory infection (ALRI), pneumonia

Interventions
Intervention arm: improved stoves, kitchen sink and hygiene, solar drinking water disinfection
Control arm: early childhood psychomotoric stimulation

The improved stoves and kitchen sink and water treatment hardware was built and introduced in the households of the intervention arm together with the hygiene component from October

2008 to January 2009. Solar water disinfection treatment was introduced January 2009. Reinforcement of the intervention messages was continuously every 2 - 3 weeks during the follow up period. Anthropometric measurements were taken monthly.

In the control arm, the psychomotoric stimulation package was explained and first delivery of the early stimulation toys was provided according to the child's age in December 2008 - January 2009. Subsequent deliveries of the psychomotoric stimulation tools and toys were according to the development level of the individual child (assessed two-monthly) during follow up.

The follow up period for data collection and monitoring lasted over 12 months from February 2009 to January 2010.

Intervention Type
Other

Phase
Not Applicable

Primary outcome(s)
1. Diarrhoea incidence, longitudinal prevalence from daily diarrhoeal illness assessments, recorded by field investigators during weekly home visit for the entire 12 months follow-up period
2. Child growth parameters, taken monthly during the follow up

Key secondary outcome(s)
1. Compliance to use interventions, recorded by field investigators during weekly home visit for the entire 12 months follow-up period
2. Bacterial load reduction in drinking water and kitchen cloths exposed to sunlight, recorded by field investigators during weekly home visit for the entire 12 months follow-up period
3. Acceptability of the intervention and uptake in the control group after study end
Individual psychomotoric child development indicators are assessed every two months during home visit for the entire 12 months follow-up period.

Completion date
31/12/2010

Eligibility

Key inclusion criteria
1. Youngest child of household between 6 - 36 months of age, either sex
2. Living permanently in each of the 653 households in 54 communities of the study area identified during a population census
3. The child has no chronic disease or congenital malformation

Participant type(s)
Other

Healthy volunteers allowed
No

Age group

Mixed

Sex
All

Key exclusion criteria
Does not meet inclusion criteria

Date of first enrolment
01/06/2008

Date of final enrolment
31/12/2010

Locations

Countries of recruitment
Peru

Study participating centre
Instituto de Investigación Nutricional
Lima
Peru
Lima-12

Sponsor information

Organisation
Instituto de Investigación Nutricional (IIN) (Peru)

Organisation
Swiss Tropical & Public Health Institute (Swiss TPH) (Switzerland)

Organisation
Instituto de Investigación Nutricional

ROR
https://ror.org/05by4rq81

Funder(s)

Funder type
Industry

Funder Name
Private Swiss Foundation (Switzerland)

Results and Publications

Individual participant data (IPD) sharing plan

IPD sharing plan summary
Not provided at time of registration

Study outputs

Output type	Details	Date created	Date added	Peer reviewed?	Patient-facing?
Results article	results	01/12/2016		Yes	No
Results article	results	01/03/2017		Yes	No
Other publications	rationale, trial design and baseline findings	01/11/2011		Yes	No