Strengthening human resources for health through simplified clinical tools

Submission date 08/02/2010	Recruitment status No longer recruiting	 Prospectively registered Protocol
Registration date 22/02/2010	Overall study status Completed	
Last Edited 21/04/2011	Condition category Other	[] Individual participant data

Plain English summary of protocol

Not provided at time of registration

Contact information

Type(s) Scientific

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Additional identifiers

EudraCT/CTIS number

IRAS number

ClinicalTrials.gov number

Secondary identifying numbers MGC - 105989-001

Study information

Scientific Title

Strengthening human resources for health through simplified clinical tools and educational outreach: a cluster-randomised trial

Acronym PALM PLUS

Study objectives

Our hypothesis is that the PALM-PLUS guideline/training intervention will be associated with improved staff retention and satisfaction, and better patient outcomes.

Ethics approval required Old ethics approval format

Ethics approval(s) Malawi National Health Sciences Research Committee approved on the 10th December 2009 (ref: NHSRC 687)

Study design Unblinded cluster randomised trial

Primary study design Interventional

Secondary study design Randomised controlled trial

Study setting(s) GP practice

Study type(s) Diagnostic

Participant information sheet

Health condition(s) or problem(s) studied

Training methods in primary care centres

Interventions

The project centres on the STAT-PALM guidelines and novel training method. The STAT-PALM guidelines and training program will be developed through a review and modification of the proven PALSA-PLUS guidelines in light of Malawian national guidelines, and through consultations with the Ministry of Health, Malawian nurses and clinical officers, the Medical Council of Malawi and the Nursing and Midwifery Council of Malawi regarding content and accreditation of the training, drafting of the content, review of the content by stakeholders, and graphic design of the clinical tools (desktop maps and flipcharts) and training materials. Relevant Malawian national guidelines have been collected, and our guideline developers have been adapting and drafting specific guideline pages. These are then subjected to review in Malawi, and circulated to the appropriate Department Heads within the MoH for review and comments (e.g., National tuberculosis unit, human immunodeficiency virus [HIV] Unit, Malaria Unit, etc) as well as frontline clinicians/specialists in the district or region. The reviewers are expected to

check that the content is correct and appropriate, and to check that the algorithms flow properly and reflect available drugs/resources in Malawian Health Center settings. These comments are then transcribed and clarified if needed and discussed, then incorporated into the next draft of the guidelines, which are then returned to the same partners for review until they are accurately completed. Once the flow, content and materials have been completed, the various senior Malawi MOH Unit and Department personnel will sign off and approve them, then they will be sent to be printed and bound.

Training follows the proven innovative and evidence-based model of PALSA-PLUS, called educational outreach, a form of point-of-care training that provides case-based, onsite, training in clinical settings where primary care providers work. Trainers will be front-line healthcare workers from the MoH and other partners including the Christian Hospital Association of Malawi (CHAM) and other NGOs who will be trained to provide outreach training and support to their fellow front-line healthcare workers during focused (1 - 2 hours), intermittent, interactive sessions. A Master Trainer, already trained by the Knowledge Translation Unit (KTU) Team in Cape Town, South Africa, will be responsible for training all facility trainers. Curriculum development will also be informed by a training needs assessment during the curriculum design process. The initial facility trainer training is conducted offsite during the one week intensive course, during which the facility trainers are equipped with the necessary content, and their training skills developed and evaluated using an iterative process of training and feedback. In order to minimise travel between remote health centres. 12 facility trainers will be trained, and will conduct an average of 16 training sessions (one per health centre) each week. At health centres, integration of antiretroviral treatment (ART) into primary healthcare services will be facilitated through the training of all, rather than selected, healthcare workers at each health centre. A minimum of 6 and a maximum of 10 training sessions will occur at each health centre, over a maximum period of 16 weeks. Point-of-care guideline tools will be developed and distributed (e.g., a thin [approximately 30 pages] sturdy laminated ring binder containing the entire guideline, colourful and easy to follow algorithms designed to be on the primary care provider's desktop during each patient encounter, desk blotters with key STAT-PALM messages, laminated cards with key guideline messages on lanyards to be worn around the provider's neck). Ongoing routine training conducted by the DHO will continue in both intervention and control health centres.

The STAT-PALM training differs significantly from the current healthcare worker training in Malawi and elsewhere, which are usually didactic, taught by experts (rather than peers), and where HCWs are removed from their clinical setting for days to weeks at a time and compensated with per diems. The Master Trainer will conduct a follow-up visit with facility trainers and their trainees to assess progress and uptake. On a quarterly basis, facility trainers will meet with the Master Trainer and a high-level core trainer from Dignitas and/or the KTU to review progress, discuss challenges to implementation, and share experiences with a view to improving the quality of the trainings and subsequent versions of the guidelines. The guidelines distribution and training will occur at intervention sites only. No active distribution of the STAT-PALM materials or training sessions will occur in control facilities, however routine ongoing health centre supervision by DHO personnel and off-site DHO training courses will continue in all sites.

Intervention Type

Other

Phase Not Applicable

Primary outcome measure

1. Health centre staffing retention: months remaining in same job post-intervention, measured at staff-person level. Can do overall and by health cadre. Denominator is staff at work at study start.

2. Staff turnover (sum of retention/recruitment/loss): Denominator to be calculated based on ideal ratio of HCWs to patient visits (e.g., no. of attendances in last year

3. Staff satisfaction: Individually scored questions from validated questionnaire

Secondary outcome measures

1. Cotrimoxazole prophylaxis among HIV+ pregnant women attending ante-natal care at health centre

2. HIV testing among pregnant women

3. Anti-retroviral treatment (ART) among HIV+ pregnant women attending ante-natal care at health centre

4. Non-ART prevention-of-mother-to-child-transmission of HIV treatment provided to HIV+ pregnant women attending ante-natal care at health centre

- 5. New adult ARV follow-ups at health centre
- 6. New adult TB follow-ups at health centre
- 7. New TB treatment among ART patients at health centre
- 8. New HIV diagnosis among TB patients at health centre
- 9. New ART initiations among TB patients at health centre
- 10. Initiation of malaria treatments at health centre
- 11. Immunizations (overall and measles specific) given 0 5 years at health centre
- 12. New child ART initiations at health centre
- 13. HIV tests in children at health centre

Overall study start date

01/02/2010

Completion date

31/12/2012

Eligibility

Key inclusion criteria

1. Centres: All public primary care health centres within Zomba District (30 centres) 2. Individuals: All health professional staff (no age limit, either sex) eligible to provide clinical services within the randomised health centres

Participant type(s) Patient

Age group Adult

Sex Both

Target number of participants

30 health centres and approximately 200 clinical staff (in total) working in them

Key exclusion criteria Does not meet inclusion criteria

Date of first enrolment 01/02/2010

Date of final enrolment 31/12/2012

Locations

Countries of recruitment Canada

Malawi

Study participating centre G-147, 2075 Bayview Ave Toronto, Ontario Canada M4N 3M5

Sponsor information

Organisation International Development Research Center (IDRC) (Canada)

Sponsor details Global Health Research Initiative 150 Kent Street PO Box/CP 8500 Ottawa, Ontario Canada K1G 3H9 +1 613 696 2618 rgeneau@idrc.ca

Sponsor type Research organisation

Website http://www.idrc.ca/ghri/

ROR https://ror.org/0445x0472

Funder(s)

Funder type Research organisation

Funder Name

Global Health Research Initiative (Canada) - a research funding partnership of five agencies and departments of the Government of Canada, including the Canadian International Development Agency (CIDA), the Canadian Institutes of Health Research (CIHR), Health Canada (HC), the International Development Research Centre (IDRC), and the Public Health Agency of Canada (PHAC) (ref: MGC-105989-001)

Results and Publications

Publication and dissemination plan

Not provided at time of registration

Intention to publish date

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	03/12/2010		Yes	No