Swiss TPH Winter Symposium 2017

Helminth Infection – from Transmission to Control

7-8 December 2017, Parterre Rialto, Basel, Switzerland



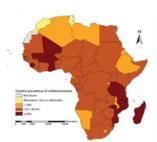
Swiss Tropical and Public Health Institute Schweizerisches Tropen- und Public Health-Institut Institut Tropical et de Santé Publique Suisse

Associated Institute of the University of Basel

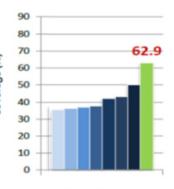
COUNTDOWN on WHO 2020 Targets: A focus on helminthiasis

Russell Stothard

Department of Parasitology E-mail: russell.stothard@lstmed.ac.uk Twitter: @StothardRuss & @countdownonntds



















Background

Background on NTD control landscape

- from 2002 onwards to 2030 perspectives

Introducing COUNTDOWN implementation research

- why are multi-disciplinary approaches needed?

Focus on schistosomiasis & soil-transmitted helminthiasis

- issues about scale-up and accelerating towards targets

Several NTDs are amenable to preventive chemotherapy

- Preventive chemotherapy (PC) is a rapid impact 'health' package (i.e. tool ready)
- Donated medicines, promoted access, often with integrated drug administration(s)
- PC typically a 'vertical-programme' although may use 'horizontal-platforms' at periphery





Coordinated use of anthelminthic drugs in control interventions:

a manual for health professionals and programme managers



2020 challenges – scale-up, performance, impact, demand & sustainability

Preventive chemotherapy becomes the front-line tool



Global



Schistosomiasis

Number of individuals treated, 2010

Actual treatment coverage (year on year)

homogeneous or heterogeneous respondents?

an important indicator but only a proxy of impact

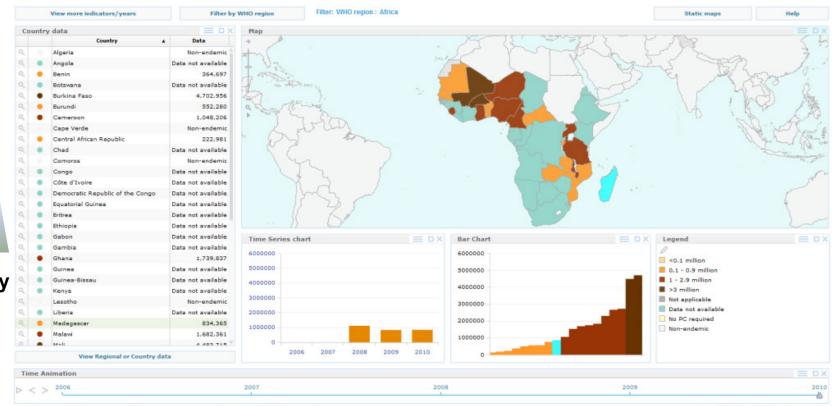
Regional

National

District

Community



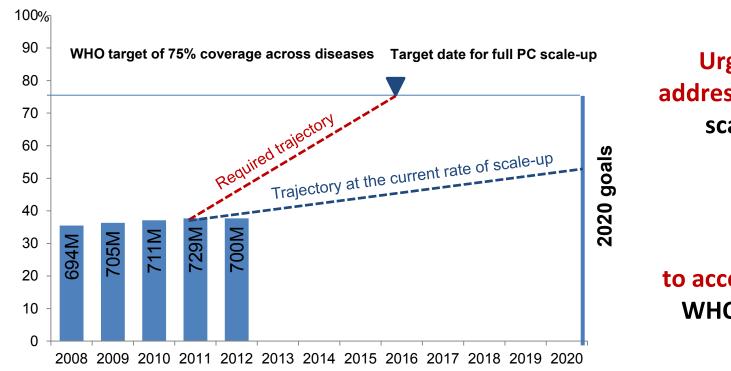


From 2010 the estimates of the number of individuals requiring preventive chemotherapy for schistosomiasis has been revised.

@ WHO 2011. All Rights Reserved. Map Disclaime

WHO's scale-up of future PC to reach 2020 targets

Projected % of people receiving PC for at least one disease (including LF, ONCH, SCH and STH) out of the total number that require PC

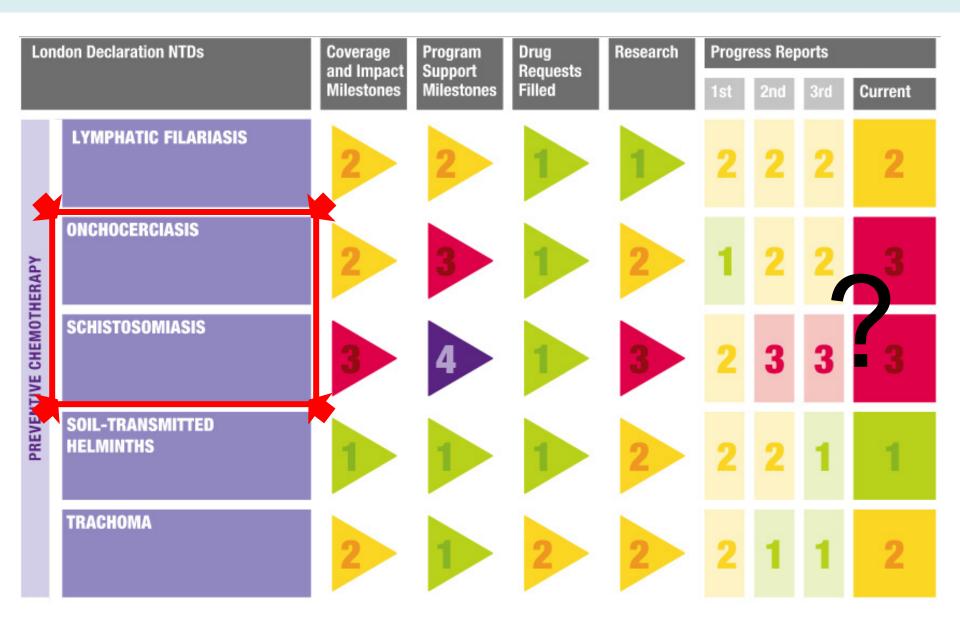


Urgent need to address bottlenecks in scale-up of PC

and

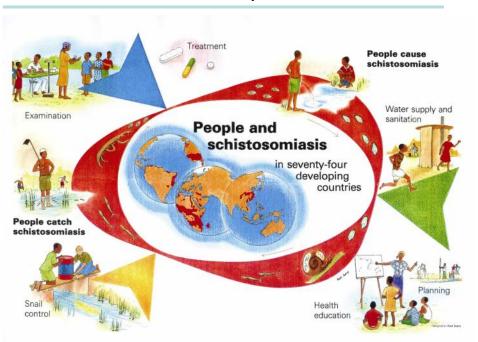
to accelerate towards WHO 2020 targets

The development of the NTD scorecard

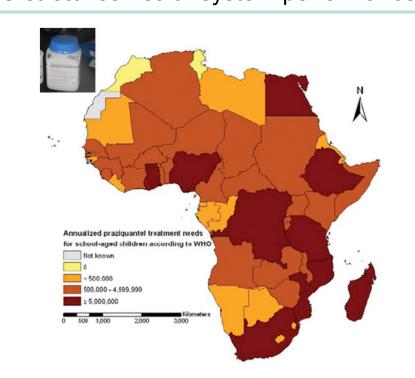


Three reasons why schistosomiasis is placed in the RED?

First
PC is not a complete solution



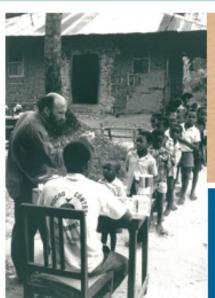
Second
PC stretches health system performance



Three reasons why schistosomiasis is placed in the RED?

Third

Policies & practices are lagging behind technology, especially at micro-spatial



27821U OMS CH
DR LORENZO SAVIOUI
SCHISTOSOMIASIS CONTROL PROGRAMME

11471 CONGRATULATIONS STOP THIRD SURVEY RESULTS SHOW OBJECTIVES
OF 65 PERCENT REDUCTION OF HEMATURIA AND 90 PERCENT REDUCTION OF
VISUAL WITHIN ONE YEAR INSTEAD OF TWO YEARS REPEAT INSTEAD OF TWO
YEARS STOP YOU MAY CONTACT C. HATZ THROUGH SWISS EMBASSY
DARESSALLAM ATTENTION C. HATZ VIA RADIO HELVITAS 41322 TELEX STOP
SWISS EMBASSY TELEPHONE 67801 OR PO BOX 2454 STOP MAKE
ARRANGEMENTS DIRECTLY STOP REGARDS
MOTT UNISANTE GENEVA
13/04/88 0935 GMT



https://score.uga.edu/

ZEST - Zanzibar Elimination of Schistosomiasis Transmission

Infectious Diseases of Poverty

SCOPING REVIEW

Open Access

SCOPING REVIEW

Open Access

Elimination of schistosomiasis: the tools required



Moving from control to elimination of schistosomiasis in sub-Saharan Africa: time to change and adapt strategies

Robert Bergquist¹, Xiao-Nong Zhou^{2*}, David Rollinson³, Jutta Reinhard-Rupp⁴ and Katharina Klohe⁵

Louis-Albert Tchuem Tchuenté^{1,2*}, David Rollinson³, J. Russell Stothard⁴ and David Molyneux⁴

and more widely

the NTD implementation landscape is becoming more

dynamic (parasite/human/vector)

complex (mixed targets)

fragmented (communications)

and

fatigued (donors)

The 2016 NTD intervention landscape

Since 2002 it has changed and grown to be complex

- 'Donated' drug deliveries with different treatment schedules
- Mixed agenda: control (morbidity) to elimination (transmission)



NTD intervention landscape

Flux of stakeholders & interests

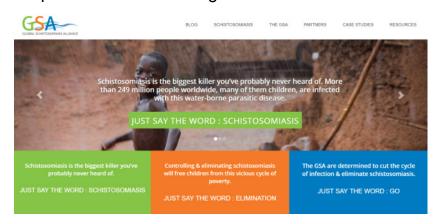


www.who.int/topics/schistosomiasis/

https://www.infontd.org/



Disease focused (pharmaceutical industry) http://eliminateschisto.org/



Partners Map



An A to Z of agencies

Alliance for Disability-Inclusive Development (ADID)

WVI - World Vision International

TABLE 2016 Donor Support for NTD Treatments by Disease

| | | CHILDREN'S INVESTMENT FUND FOUNDATION | | Hiller | THE END RIND | | | | | 0 | uxaid | | | | | USAID | | | | | COUNTDOWN | |
|------|-----------------------------|---|-----|--------|--------------|-------|-----|-----|-----|----|-------|-------|----|-----|-----|-------|-------|----|-----|-----|--------------------------------|-------------|
| GION | COUNTRIES | SCH | STH | TR | LF | Oncho | TR. | SCH | STH | TR | LF | Oncho | TR | SCH | STH | LF | Oncho | TR | SCH | STH | Calling time on Neglected Trop | |
| RO | Angola | - | - | - | • | • | - | • | • | - | - | - | - | - | - | - | - | - | - | - | Calling time on Neglected Trop | icai Diseas |
| | Benin | - | - | - | - | - | - | - | - | - | - | - | - | - | - | | • | • | • | • | | |
| | Burkina Faso | - | - | - | - | - | - | - | - | - | | - | - | - | - | • | • | • | • | • | | |
| | Burundi | - | - | - | - | | | - | - | - | - | - | - | - | - | - | - | - | - | - | | |
| | Cameroon | _ | _ | _ | _ | _ | - | - | - | - | - | - | _ | - | _ | | • | • | • | • | Cameroon | |
| | Central African Republic | - | - | - | • | • | • | • | • | - | = | - | - | - | - | - | - | - | - | - | | |
| | Chad | - | - | - | • | • | - | - | - | - | - | - | • | - | - | - | - | - | - | - | | |
| | Congo | - | - | - | - | - | - | | | - | - | - | - | - | - | - | - | - | - | - | | |
| | Côte d'Ivoire | - | - | - | • | • | - | - | - | - | - | - | - | • | • | • | • | • | • | • | | |
| | DR Congo | - | - | _ | • | • | - | • | • | - | | • | - | • | • | • | • | • | • | • | | |
| | Egypt | - | - | - | - | - | - | _ | - | - | - | _ | - | - | - | - | - | _ | - | _ | | |
| | Equatorial Guinea | = | - | | - | • | - | - | - | 70 | 7 | - | - | - | 50 | - | - | - | - | - | | |
| | Eritrea | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | | |
| | Ethiopia | • | • | - | - | - | • | • | • | - | | - | • | • | • | | • | • | - | • | | |
| | Gabon | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | | |
| | Gambia | - | - | _ | - | - | - | _ | - | - | _ | - | _ | - | _ | - | _ | _ | _ | - | | |
| | Ghana | _ | _ | _ | - | _ | - | _ | - | - | | - | - | _ | _ | • | • | • | • | • | Ghana | |
| | Guinea | - | - | - | - | - | - | - | - | - | | - | - | - | - | • | • | • | • | • | Chana | |
| | Guinea-Bissau | - | - | = | - | • | | - | - | - | | • | - | - | - | - | - | - | - | - | | |
| | Kenya | • | • | - | • | - | - | • | • | • | - | - | - | - | - | - | - | - | - | - | | |
| | Liberia | - | - | - | - | - | - | • | • | - | | - | - | • | • | - | - | - | - | - | Liberia | |
| | Madagscar | _ | | _ | - | - | - | - | - | - | _ | - | _ | - | _ | - | - | _ | _ | _ | 213 0116 | |
| | Mauritania | - | - | | - | _ | • | - | - | - | - | _ | - | - | - | - | _ | - | _ | - | • | |
| | Malawi | - | - | - | - | • | - | - | - | • | | - | - | • | • | - | - | - | - | - | | |
| | Mali | - | - | • | - | - | - | - | - | - | - | - | - | - | - | • | • | - | • | • | | |
| | Mozambique | - | - | - | - | - | - | - | - | - | | - | - | • | • | - | - | • | - | - | | |
| | Namibia | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | _ | | |
| | Niger | - | - | • | - | • | - | - | - | - | - | - | - | • | • | | - | • | • | • | | |
| | Nigeria | - | _ | - | | • | - | • | • | - | | • | • | • | • | | • | • | • | • | Nigeria | |
| | Rwanda | - | - | - | - | - | - | • | • | - | - | - | - | - | - | - | - | - | - | - | INIGELIA | |
| | Senegal | - | - | - | - | • | - | - | - | - | - | - | - | - | - | | • | • | • | • | | |
| | Sierra Leone | - | - | - | - | | - | - | - | - | - | - | - | - | - | | • | - | • | • | | |
| | South Sudan | - | - | - | - | • | - | - | - | - | - | - | - | - | - | - | - | - | - | - | | |
| | Tanzania | - | _ | • | _ | _ | _ | - | _ | - | | _ | - | • | • | | • | | • | • | | |
| | Togo | - | - | - | - | _ | - | _ | _ | - | - | - | - | - | - | | • | - | • | • | | |
| | Uganda | - | - | - | - | - | - | - | - | - | | • | - | • | • | | • | • | • | • | | |
| | Zambia | - | - | - | | - | - | - | - | - | | - | • | • | • | - | - | - | - | - | | |
| | Zimbabwe | - | _ | - | | _ | | • | • | - | - | - | _ | _ | _ | _ | _ | _ | _ | _ | | |

Introducing COUNTDOWN, an implementation research consortium for PC NTDs

Reducing poverty in SSA with implementation science for NTD control

In 2008, DfID committed £50M for to support control of NTDs

Implementation portfolio including:

Sightsavers (Trachoma)
Schistosomiasis Control Initiative (ICOSA)
Centre for NTDs (LSTM)
UNITED (Nigeria)

....with The Research and Evidence Division supporting

Programme of implementation research to inform the effective and sustainable scalingup of integrated Neglected Tropical Disease (NTD) control initiatives

OJEU: 2013/S 181-312697

Open tender: one final application for £8M in the Nov. 2014 - Oct. 2019 period





COUNTDOWN

- Working in Liberia, Ghana, Nigeria & Cameroon
- Active research uptake/communications & 5 main research themes

Search

Q





COUNTDOWN at Swiss TPH Winter Symposium -7-8 December 2017 -Basel, Switzerland

07 December 2017

The Swiss TPH Winter Symposium 2017 on Helminth Infection - from transmission to Control



The 2017 British Society for Parasitology Autumn Symposium on 28th September!

28 September 2017

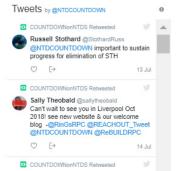
The Multidisciplinarity of Parasitology: Host-Parasite Evolution and Control in an Ever Changing World

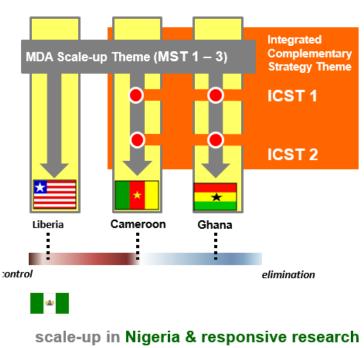


at the Keystone Symposia Conference in Durban. South Africa 10 - 14 Sept. 2017

10 September 2017

'Understanding the epidemiological and social factors of Lymphatic Filariasis persistence ten years into the MDA program: towards a successful and sus...





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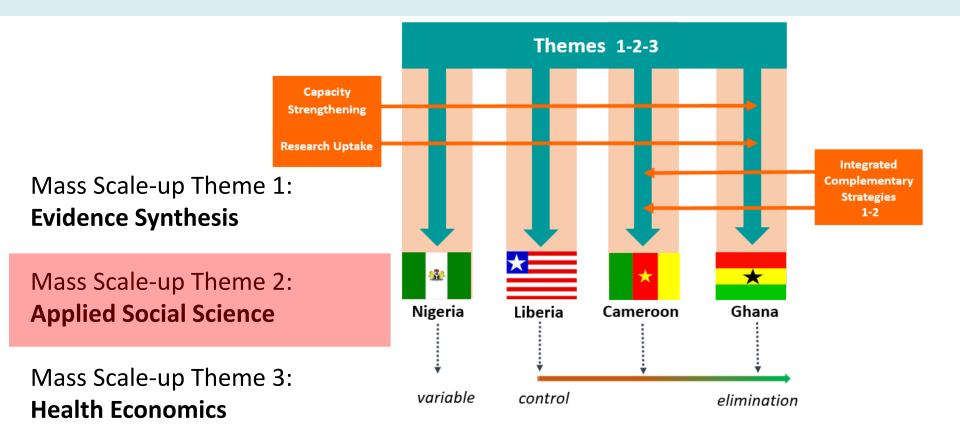
- issues about scale-up and accelerating towards targets

2030 Ensure healthy lives & promote well-being for all at all ages

How do NTDs fit in across this agenda? both pro and con aspects



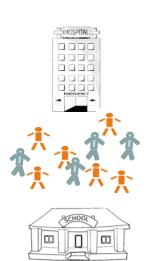
COUNTDOWN activities set across five major themes





20 years of gender mainstreaming in health: lessons and reflections for the neglected tropical diseases community

NTD interventions need better gender programming, reporting & analysis



Fixed point approaches: health post clinic/ distribution point Drugs are distributed by CDDs or health workers at a fixed point

School-based programmes
Teachers and/or others
distribute drugs in the
schools



House to house Community drug distributors (CDDs)/ others visit households to register the household members and distribute drugs

But there are several current gaps in gender & age-related equity (maternal & child health - SCH)

Coverage improvement activities for example, mop up Additional 'pro-equity' activities undertaken to try to ensure everyone is covered

Child (under 5) health/ special events Particularly common in the African context, drugs are provided within these gatherings

Theobald (2017) et al.



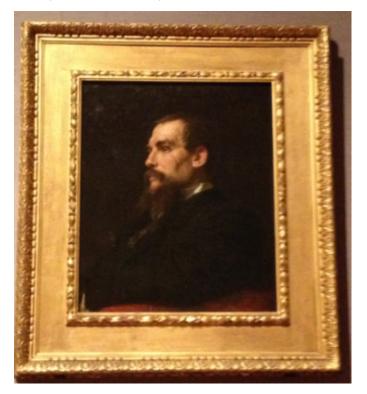
SPECIAL



grand challenges of energy, food, water, climate and health. This special scrutinizes the data on interdisciplinary work and looks at its history, meaning and funding. A case study and a reappraisal of the Victorian explorer Richard Francis Burton explore the rewards of breaking down boundaries. Meanwhile, a sustainability institute shares its principles for researchers who work across disciplines. Thus inspired, we invite readers to test their polymathy in our lighthearted quiz.

Multidisciplinary examples

R F Burton FRGS (1821-1890)



first cultural anthropologist & cartographer of Africa

very likely had schistosomiasis

but still had a very colourful life



Breaking across boundaries

is **not easy** and requires

- at individual-level patience & respect
- at group-level effective communications

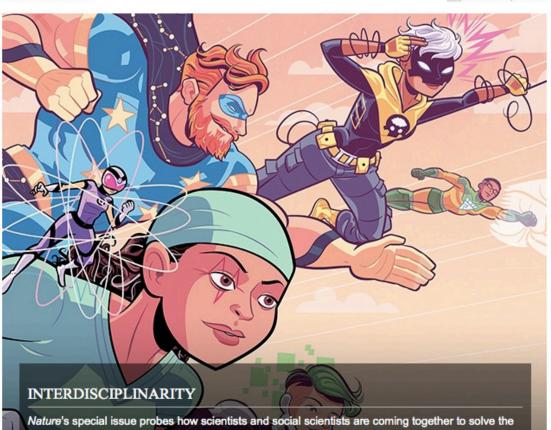
but

See all specials

- is very rewarding holistic 'team' insight
- has broader appeal pragmatic outcomes



SPECIAL



Nature's special issue probes how scientists and social scientists are coming together to solve the grand challenges of energy, food, water, climate and health. This special scrutinizes the data on interdisciplinary work and looks at its history, meaning and funding. A case study and a reappraisal of the Victorian explorer Richard Francis Burton explore the rewards of breaking down boundaries. Meanwhile, a sustainability institute shares its principles for researchers who work across disciplines. Thus inspired, we invite readers to test their polymathy in our lighthearted quiz.

Preventive chemotherapy needs intensification

earch site.

CONTACT US





COUNTDOWN is a research consortium dedicated to investigating cost-effective, scale-up and sustainable soluti control and eliminate the seven most common Neglected Tropical Diseases by 2020

How can NTD treatments be scaled-up to meet the demand?

What bottlenecks need to be opened?



A PLACE TO SHARE NEW APPROACHES TO NEGLECTED TROPICAL DISEASES.

Latest

Question Time on Neglected Tropical Diseases (NTDs): The COUNTDOWN has begun!

19 March 2015

COUNTDOWN launches in Liverpool with a special guest from Liberia by @sci_ntds

14 March 2015

Official COUNTDOWN Launch

13 March 2015

COUNTDOWN in Nigeria

08 March 2015

Beyond 2020: A discussion on Neplected Transcal Diseases at the Rill

The Team



Our team's expertise and knowledge spans decades and sectors. From Neglected Tropical Disease (NTD) programme managers, to research

Tweets by @NTDCO

tropical diseases in #Africa. #NT

@ThisisBuhari @Global Network

#3 Retweeted by COUNTDOWN

#GlobalHealthAmbassador

Expand





By Susie Crossman, Liverpool School of Tropical Medicine As part of the COUNTDOWN launch we gathered together a group of international NTD experts (David Molyneux, Lorenzo Savioli, Moses Bockarie, Alan Fenwick, Margaret Gyapong, Kamal Kar and Tim Martineau) for a lively chat on the priority areas in the response and some pressing issues that need further exploration. Our colleague Sally Theobald ably chaired the event.



- RECENT POSTS -Question Time on Neglected Tropical Diseases (NTDs): The COUNTDOWN has begun!

COUNTDOWN launches in Liverpool with a special guest from Liberia by @sci_ntds

Official COUNTDOWN Launch

COUNTDOWN in Nigeria

Beyond 2020: A discussion on Neplected Tropical Diseases at the Bill and Melinda Gates Foundation, London

COUNTDOWN is a multi-country research consortium

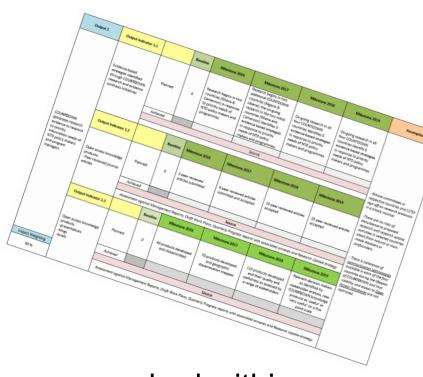
reporting **logframe** of impact, outcomes, outputs

COUNTDOWN

...generates research evidence to respond to priority information needs of NTD policy makers and program managers

...supports incorporation of evidence to improve policies and operational plans and practices for scale-up of NTD control

...strengthens capacity for evidence-based decision making and planning through learning by doing amongst its staff, associated partners and country based research communities



meshed within a theory of change model and indicators

Dynamic NTD landscape: policies with practicalities

5-points to consider:

- 1. A move from a single disease to addressing multiple NTDs through a coordinated health systems approach
- 2. Strategic partnerships amongst multiple stakeholders
- 3. Robust and appropriate data for evidence-based action
- 4. A strong equity stance and focus upon addressing poverty and achieving universal health coverage
- 5. Strong women's leadership and roles in health
- Promoting community ownership is central but is dynamic sometimes, often with local complex power structures evolving as programmatic integration ensues, thus adaptive programme reflecting the realities of the communities they serve are needed

The Expanded Special Project for Elimination of Neglected Tropical Diseases (ESPEN): new directions, new opportunities





Author: Sally Theobald and Ifeoma Anagbogu

Sally Theobald is a Professor in Social Science and
International Health at the Liverpool School of Tropical
Medicine with a research portfolio on gender, equity and
health systems. She works on the social science and
health systems elements of "COUNTDOWN: Calling Time

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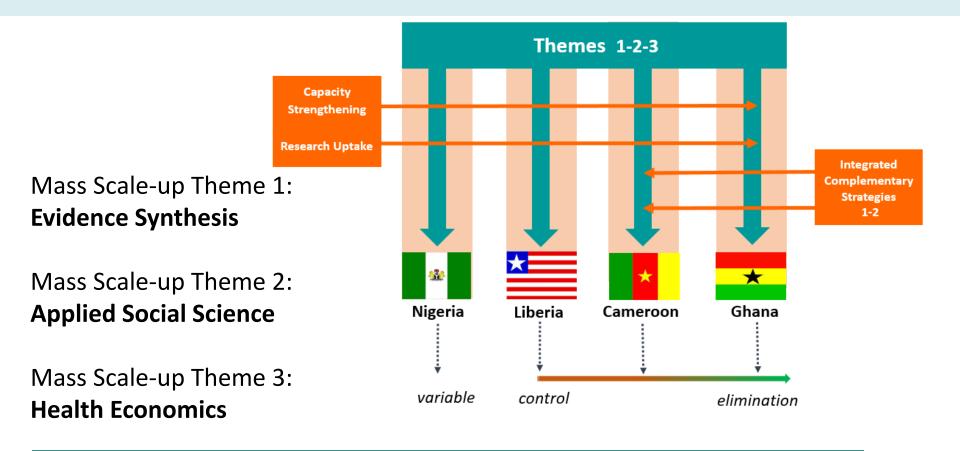
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- issues about scale-up and accelerating towards targets

COUNTDOWN activities set across five major themes



Integrated Complementary Strategy Theme 1:

Macrofilaricides & Vector Control

Integrated Complementary Strategy 2: Schistosomiasis/STH & Diagnostics

' access / equity ' of interventions (better STH surveillance systems)

Better molecular surveillance for STH (& schistosomiasis)

JID 2014

Molecular Epidemiology of Ascariasis: A Global Perspective on the Transmission Dynamics of *Ascaris* in People and Pigs

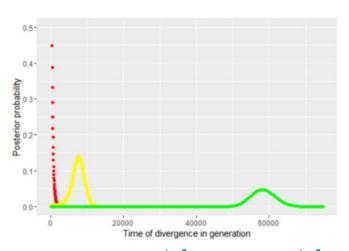
Martha Betson,^{1,4} Peter Nejsum,² Richard P. Bendall,³ Rinki M. Deb,⁴ and J. Russell Stothard⁴

¹Department of Production and Population Health, Royal Veterinary College, Hartfield, Hertfordshire, United Kingdom; ²Department of Veterinary Disease Biology, Faculty of Health and Medical Sciences, University of Copenhagen, Denmark; ²Department of Clinical Microbiology, Royal Comwell Hospital, Truro, and ¹Department of Parasitology, Pembroke Place, Liverpool School of Tropical Medicine, United Kingdom

IGE 2017

Ascaris phylogeny based on multiple whole mtDNA genomes

Peter Nejsum a,b,*,1 , Mohamed B.F. Hawash c,h,1 , Martha Betson d , J. Russell. Stothard e , Robin B. Gasser f , Lee O. Andersen g





February 17, 2016

Leave a comment

By Russell Stothard Shortly before Christmas, I had the pleasure of visiting Accra and Dodowa to discuss with the COUNTDOWN teams our research on DNA diagnostics. Previously, the surveillance of soil-transmitted helminthiasis (STH) and schistosomiasis has relied upon



THE IMPORTANCE OF GOOD PREPARATION IN QUALITY CLINICAL DIAGNOSTICS

March 4, 2016

It is said that prior planning prevents poor performance, so we were pleased to be joined in Liverpool by our colleague Jaco Verweij who is supporting the qPCR workshop which will take place in Ghana later in the month. As head of the clinical molecular diagnostics facility at Tilburg, Dr Verweij has developed an automated [...]

www.countdownonntds.org
https://countdownonntds.wordpress.com

ICST 2: Schistosomiasis/STH diagnostic surveillance platforms







PRACTICAL TRAINING IN MOLECULAR DNA DIAGNOSTICS

March 21, 2016 2 Comments Russ Stothard, Jaco Verweij, Lucas Cunningham and Mike Osei-Atweneboana Developing our research theme on molecular diagnostics for soil-transmitted

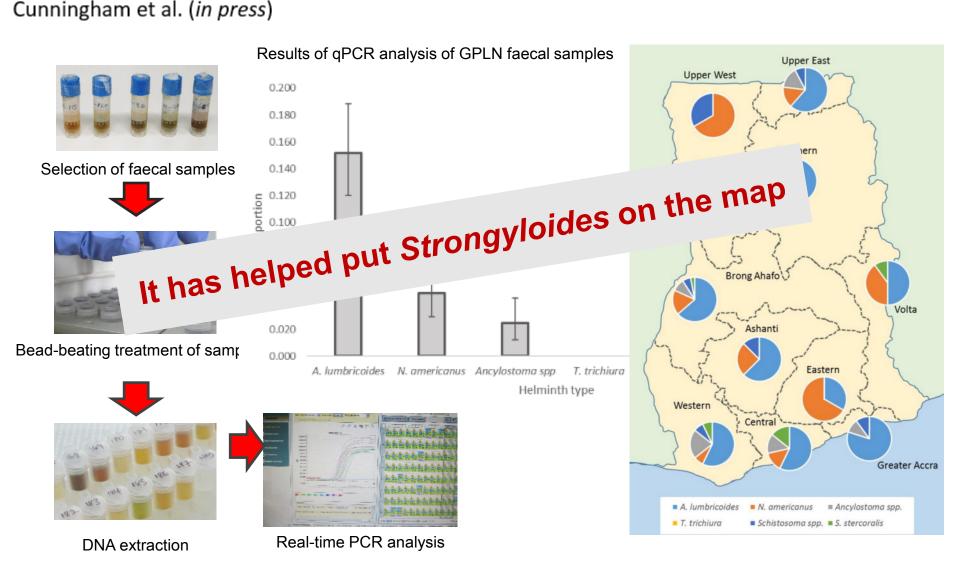


Expanding molecular diagnostics of helminthiasis: Piloting use of the GPLN platform for surveillance of soil transmitted helminthiasis and schistosomiasis in Ghana Cunningham et al. (in press)

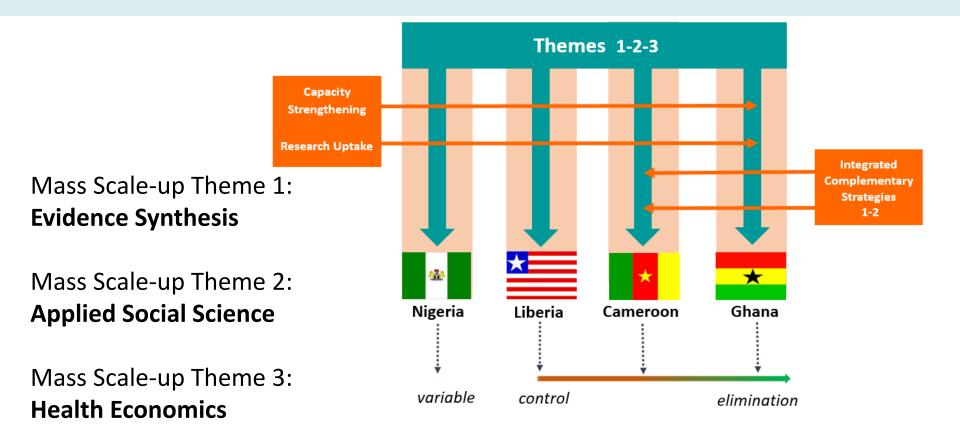
NOTE: real-time DNA diagnostics has several untapped applications
e.g. eDNA monitoring (WASH) or interruption of parasite transmission
clinical investigations in tissue biopsy for FGS in cervical screening



Expanding molecular diagnostics of helminthiasis: Piloting use of the GPLN platform for surveillance of soil transmitted helminthiasis and schistosomiasis in Ghana



COUNTDOWN activities set across five major themes



Integrated Complementary Strategy Theme 1:

Macrofilaricides & Vector Control

Integrated Complementary Strategy 2: 'access / equity' of SCH interventions
Schistosomiasis/STH & Diagnostics (noting historical roots of the problem)

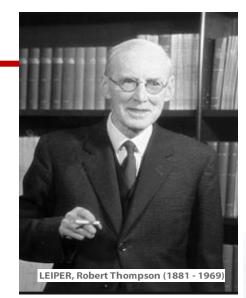
Peripatetic nature of tropical medicine studies

SPECIAL ISSUE REVIEW

Parasitology

A centenary of Robert T. Leiper's lasting legacy on schistosomiasis and a COU**NTD**OWN on control of neglected tropical diseases

J. RUSSELL STOTHARD¹*, NARCIS B. KABATEREINE², JOHN ARCHER¹, HAJRI AL-SHEHRI¹, LOUIS ALBERT TCHUEM-TCHUENTÉ³, MARGARET GYAPONG⁴ and AMAYA L. BUSTINDUY⁵



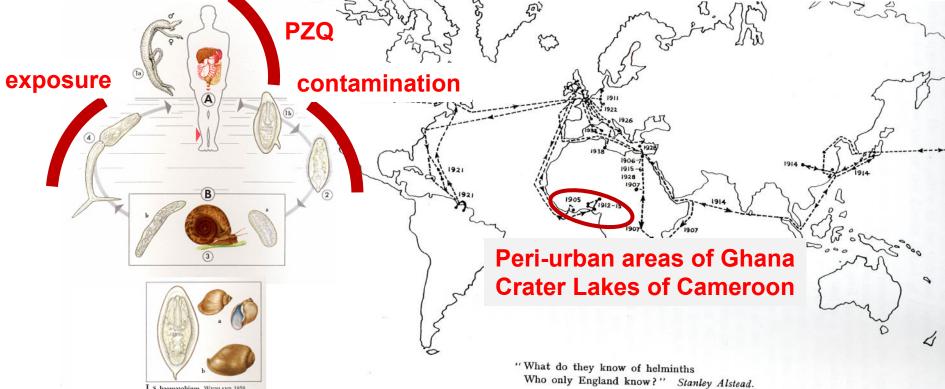
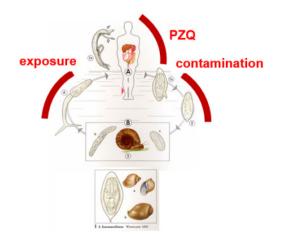
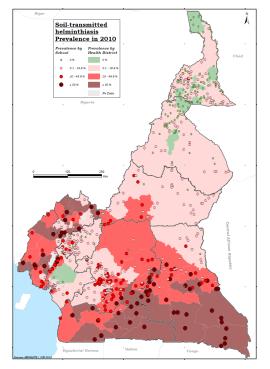


FIGURE 1. (From Supplement to J. Helminth. In honour of R. T. Leiper on the occasion of his 80th birthday, 1961.)

How we should be thinking of WASH and indicators





RESEARCH ARTICLE Open Access



Urogenital schistosomiasis and soiltransmitted helminthiasis (STH) in Cameroon: An epidemiological update at Barombi Mbo and Barombi Kotto crater lakes assessing prospects for intensified control interventions

Suzy J. Campbell¹, J. Russell Stothard^{1*}, Faye O'Halloran¹, Deborah Sankey¹, Timothy Durant¹, Dieudonné Eloundou Ombede², Gwladys Djomkam Chuinteu², Bonnie L. Webster^{3,6}, Lucas Cunningham¹, E. James LaCourse¹ and Louis-Albert Tchuem-Tchuenté^{2,4,5}

SCOPING REVIEW Open Access



Towards interruption of schistosomiasis transmission in sub-Saharan Africa: developing an appropriate environmental surveillance framework to guide and to support 'end game' interventions

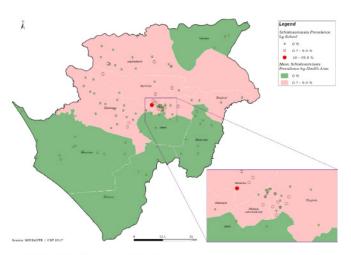
J. Russell Stothard^{1*}, Suzy J. Campbell¹, Mike Y. Osei-Atweneboana², Timothy Durant¹, Michelle C. Stanton¹, Nana-Kwadwo Biritwum³, David Rollinson⁴, Dieudonné R. Eloundou Ombede^{5,6} and Louis-Albert Tchuem-Tchuenté^{5,6,7}

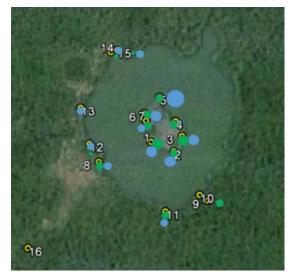
Intensification of multisector actions for better impact

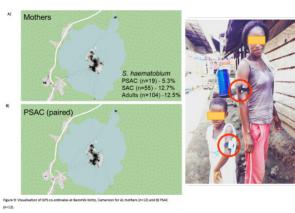
1) Precision mapping to better tailor treatment

2) Mapping snail distribution for control

3) Pinpointing key water contact sites







Trends in Parasitology

Opinion

Tailoring Water, Sanitation, and Hygiene (WASH) Targets for Soil-Transmitted Helminthiasis and Schistosomiasis Control

Suzy J. Campbell, 1,6,* Nana-Kwadwo Biritwum, 2 Geordie Woods, 3 Yael Velleman, 4 Fiona Fleming, 5 and J. Russell Stothard 1



Fresh impetus for snail control... new epidemiological theory here too



Good to see a renew momentum for malacology & snail control to boost Schisto control/elimination in Africa. #ESPEN @elimin8schisto @WHOAFRO

À l'origine en anglais

01:25 - 13 sept. 20





The 2nd China-Africa meeting 24-28/10/2016 was a further great step forward in strengthening coop for Schisto elimination in Africa @WHOAFRO

A l'origine en anglais



CHINA AND AFRICA JOIN FORCES IN FIGHT TO ELIMINATE SCHISTOSOMIASIS

August 29, 2017

by Prof Louis-Albert Tchuem Tchuenté, Pamela Bongkiyung, Prof Russell Stothard

In the fight against Neglected Tropical Diseases (NTDs), it has become obvious that

Research uptake: targeted activities playing into policy action...

SCOPING REVIEW

Open Access

Moving from control to elimination of schistosomiasis in sub-Saharan Africa: time to change and adapt strategies

Louis-Albert Tchuem Tchuenté^{1,2*}, David Rollinson³, J. Russell Stothard⁴ and David Molyneux⁴

- Drivers of national policy change
 - advocate for increased PZQ supplies
 - accelerate towards public health goals
 - widen health system engagement (**NB academia**)

- Indicators of environmental transmission
 - WASH factors, e-DNA tracers of NTDs
 - PZQ MDA + biannual / expanded access



Summary from TES meeting

To expand general access to praziguantel treatment supplemental to current school based preventive chemotherapy campaigns by extending to pre-school-aged children & adults and increasing the availability of medicines in health centres and treatment stations throughout the year. This is to ensure that all those who seek treatment can receive it. Specific mention is made to management of female genital schistosomiasis, encouraging gender equity.

To complete precision mapping to provide high resolution information, at the local level (i.e. by individual school), to better focus and tailor preventive chemotherapy. This is to all demographic groups (pr aged children, school-aged children and minimum of annual treatment W/L

treatment as int-

Agriculture, etc.).

FGS hits a blind-spot: reveals many weaknesses in the health system at all levels ... roster ______ rieed to be adapted and ensure both acceptability and feasibility.

To encourage community ownership of the programme with appropriate communication and health education tools that nurture a closer partnership between local and national stakeholders engaged in cross-sectoral actions disease (Ministries of Education, Water & Energy,



Connecting HIV/HPV/sub-fertility (www.fgsworkshop.org)





Systematic review: FGS widespread but under-reported





Invited Review

Female genital schistosomiasis (FGS): from case reports to a call for concerted action against this neglected gynaecological disease

Vanessa Christinet*, Janis K. Lazdins-Heldsb, J. Russell Stothardf, Jutta Reinhard-Ruppf

*Centre International de Recherches, d'Enseignements et de Soins en Milieu Tropical (CIRES), Akanolinga, Cameroon

⁶ Geneva, Switzerland
*Department of Parasitulagy, Liverpool School of Trapical Medicine, Liverpool L3 SQA, UK

Senegal

Niger

Niger

Nigeria

Sudan

Rep. of the Congo

Dem. Rep. of the Congo

1

Sierra Leone
1

Angola
1

Zambia

A



January 19, 2015 Leave a comment Sally Theobald, COUNTDOWN Consortium & Research in Gender and Ethics: Building stronger health systems (RinGs)

I spent many of my teenage years living in Malawi, enjoying swimming in beautiful Lake Malawi. Wind on to age 30, and I was struggling to get pregnant. Eventually, following illness, I was diagnosed with schistosomiasis by a consultant and colleague at the Liverpool School of Tropical Medicine. I was told that I had probably been infected for a while and that it might be affecting my fertility. So I took praziquantel, the only available drug against the parasite, and soon after I was pregnant. Today my first born daughter is 10 years old. Whilst the links between urogenital schistosomiasis, sub-fertility and HIV have become increasingly well-established over my first born daughter's life time, a combined and robust health systems action that brings together neglected tropical disease, sexual and reproductive health and HIV communities to address and scale up treatment for urogenital schistosomiasis is sadly lacking.

Also MGS in Malawi





In Ghana

- 1. Gendered experiences of living in affected communities have often been ignored in policies and interventions for schistosomiasis
- 2. Health workers lacked the capacity to effectively diagnosis and treat female genital schistosomiasis (*lack of awareness*)
- 3. Qualitative studies have given voice to women and explored their broader environment to assess ways to reduce transmission (*revealed stigma*)
- 4. New strategies and interventions are needed that reflect women and girls lived experiences with this disease (*encourage cross-sector dialogue*)
- Key intervention areas include:
 bespoke training and educational interventions
 gender sensitive WASH interventions
 integration into gynaecological screening (HPV/cancers)

Female genital schistosomiasis (FGS) in Ogun State, Nigeria: A pilot survey on genital symptoms and clinical findings

U.F. Ekpo¹, M. Odeyemi¹, S.O. Sam-Wobo¹, O.B. Onunkwor¹, H.O. Mogaji^{1,2}, A.S. Oluwole¹, H.O. Abdussalam³ and J.R. Stothard⁴

SUMMARY

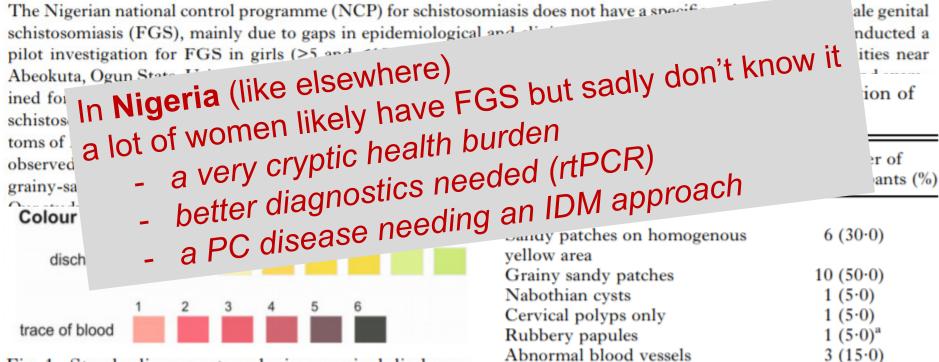


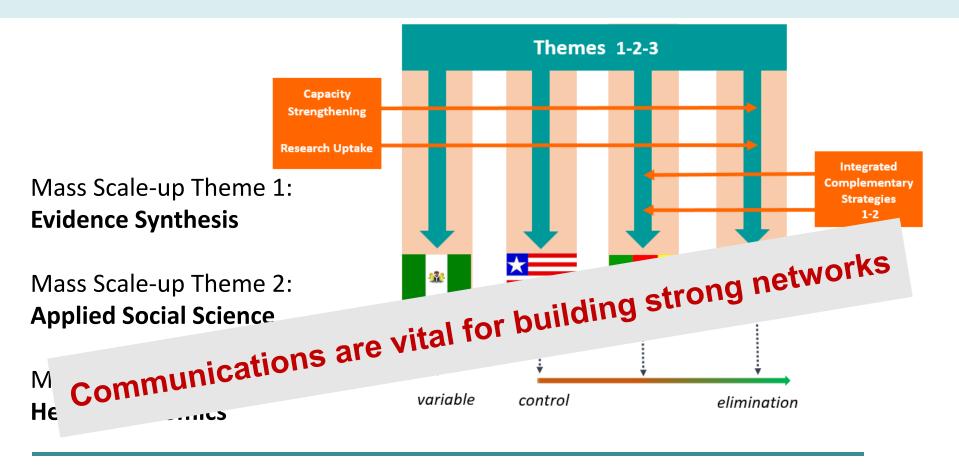
Fig. 1. Standardize symptomologies a vaginal discharge colour chart (Hegertun *et al.* 2013).

1(5.0)

Suspected cancerous growth

^a This is the first time this condition has been reported outside of Madagascar (Randrianasolo *et al.* 2015).

COUNTDOWN activities set across five major themes



Integrated Complementary Strategy Theme 1:

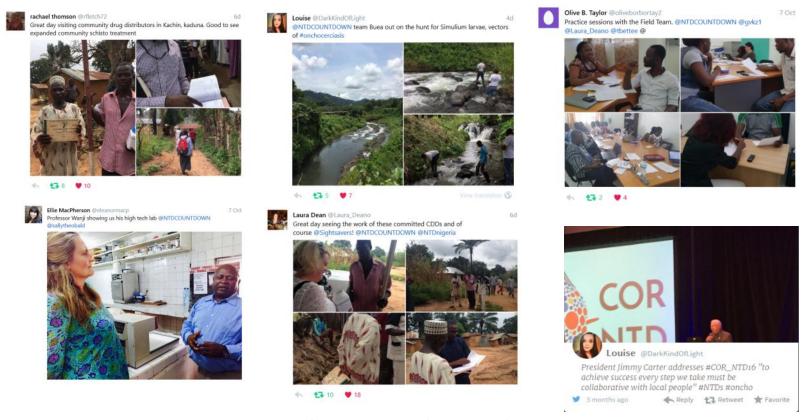
Macrofilaricides & Vector Control

Integrated Complementary Strategy 2:

Schistosomiasis/STH & Diagnostics



At the very least you need a solid e-footprint to be visible



www.countdownonntds.wordpress.com

www.countdownonntds.org

@NTDCOUNTDOWN

Encourage networking and fresh interest across topics

2017 British Society for Parasitology Autumn Symposium Thursday, 28th September at the Linnean Society, Burlington House, London

The multidisciplinarity of parasitology: host-parasite evolution and control in an ever changing world

Organisers: Prof. R. Stothard (LSTM) & Dr B. Webster (NHM)

| Session A | Chair: Prof. R. Stothard | Theme - an ever changing world | | | | | | | | | |
|------------|--|---|--|--|--|--|--|--|--|--|--|
| 10.30 am - | Welcome Prof. Sir R. Anderson | Progress in the control of human helminth infections by mass drug administration | | | | | | | | | |
| 11.05 - | IFTM Medal (see http://www.iftm-hp.org/) | Award of International Federation for Tropical Medicine (IFTM) Medal to Prof. D Rollinson, citation read by Dr Southgate and IFTI President Prof. Mas-Coma. | | | | | | | | | |
| 11.15 - | Prof. S. Mas-Coma | Human fascioliasis spread: impact of crucial mankind's history events | | | | | | | | | |
| 11.35 - | Prof. L. Tchuem-Tchuente | From basic parasitology to applied public health: challenges for the control of helminthiasis in Cameroon | | | | | | | | | |
| 11.55 - | Prof. D. Molyneux | Addressing Neglected Parasitic Diseases: moving towards the development agenda amidst change-partnerships, networks and global health policies | | | | | | | | | |
| 12.15 - | | | | | | | | | | | |
| 12.45 pm | Buffet lunch in the Linnean Library with poster viewing | | | | | | | | | | |
| Session B | Chair: Prof. D Molyneux | Theme - the multidisciplinarity of parasitology | | | | | | | | | |
| 1.45 pm - | Prof. R. Gasser | Harnessing genomic and bioinformatic tools to explore socioeconomically important parasites | | | | | | | | | |
| 2.15 - | Prof. J. Utzinger | Schistosomiasis, snails and prawns: the interplay of parasitology and ecology | | | | | | | | | |
| 2.35 - | Dr B. Webster | New molecular tools to provide insights into schistosome diversity in Africa and beyond | | | | | | | | | |
| 2.55 - | Prof. T. Anderson | The genetic basis of transmission-related traits in schistosomes | | | | | | | | | |
| 3.15 - | Panel discussion & poster s | peed talks (<i>odd</i> numbers) | | | | | | | | | |
| 3.40 pm | Afternoon tea in the Linnean Library | | | | | | | | | | |
| Session C | Chair: Dr D. Rollinson | Theme - host-parasite evolution and control | | | | | | | | | |
| 4.10 pm - | Prof. J. Webster | A OneHealth approach to schistosomiasis control in our changing world | | | | | | | | | |
| 4.40 - | Dr L. Reimer | The evolving needs of vector-borne disease surveillance across tworld | | | | | | | | | |
| 5.00 - | Prof. J. Vercruysse | Control of helminth ruminant infections by 2030 | | | | | | | | | |
| 5.20 - | Dr T. Littlewood | Palaeontology meets parasitology: the changing perspective of fossil parasites to parasite futures | | | | | | | | | |
| 5.40 - | Panel discussion | | | | | | | | | | |
| | Closing remarks Prof. M. Taylor (BSP President) | | | | | | | | | | |
| 5.55 pm | Evening drinks in the Linnean Library sponsored by the LCNTD with poster viewing | | | | | | | | | | |

7.30 -11.30 pm Symposium dinner with live music (by ticket) at the Kings Head, Mayfair, WIS 4RX

2018 special issue in Parasitology



2014 "Advances in diagnostics for parasitic diseases"

2017 various blog outlets



2016
"Scottish encounter with parasitic diseases"

All ▽

What are you looking for?

Conclusions (in three Cs)

Seminars



Seminar Organisers

EPH: Konstantina Boutsika MPI: Till Voss

- Upcoming Seminars
- University of Basel Events

Swiss TPH organises regular
Seminar series on Advances in Infection Biology, Epidemiology and

Cross-talk (break down silos)

Symposia





Global Public Health. All interested

people are welcome.

Connecting WASH with Neglect cross-sector imperative



mation Systems

Calling time on Neglected Tropical Diseases



The COUNTDOWN Programme has partnered with the Institute of Development S sanitation and hygiene's interactive role for a sustainable solution towards neglecting the country of the count

COUNTDOWN convened a meeting on 27th July 2017, with our partners at the Ins discussion with expert parasitologists, nutritionists, policy researchers and social s intervention. Discussions also considered the gender angle such as women, men, their reality of living with or caring for those with NTDs.

The outcome of the discussions was the brief titled: "Connecting WASH with NTD! recommendations:

- Promote intersectoral working
- · Embed NTD action in local realities
- · Recognise women's labour as finite
- · Develop strong, robust information systems and
- Retain flexibility in policies and interventions.

Collaborate (teams reach targets)

CouNTDown Cameroon @CountdownNTDCam · 19 h

The challenges bad roads pose in the fight against

#neglectedtropicaldiseases especially during the rainy season can not be stressed enough.

A l'origine en anglais



Acknowledgements

Thank you Swiss TPH



Supporting the COUNTDOWN consortium























Key COUNTDOWN ICST-2 UK staff

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Grace Macklin

Lisa O'Halloran

Zikmund Bartoníček

James LaCourse

Martyn Stewart

Emily Adams

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