Project ECHO: Viral Hepatitis in sub-Saharan Africa

Extension for Community Health Outcomes



Moving Knowledge Instead of Patients

Tele-mentoring Programme



Agenda



WELCOME TO LAUNCH

- Introduce South African spokes
 - Livingstone Hospital, Port Elizabeth
 - George Hospital, George
 - Frere Hospital, East London
 - Donald Gordon Medical Centre, Johannesburg
- ECHO presentation for benefit of new ECHO members
- 2 Clinical presentations
 - Ghana: Hepatitis B
 - South Africa: Livingstone Hospital: Hepatitis C (Dr Horak)

ECHO vs. Telemedicine

TeleECHO™ Clinic

ECHO supports community based primary care teams

Patients reached with specialty knowledge and expertise







Learners at spoke site

Traditional
Telemedicine



Specialist manages patient remotely









ZOOM PLATFORM



- Cloud based software
 - Internet based video & audio conferencing software
- Best in class security
 - Fully encrypted data transfer
- Can be accessed by cell phone and tablet on the go
- Can host a maximum of 200 participants



ZOOM PLATFORM



- Cost effective
 - Zoom is free for our partners and their participants
 - Free Professional account for our partners who are actively running ECHO programs.
- Works well in low bandwidth area
- Can be integrated with third party solutions, eg Polycom.
- Compatible with Android, iOS, Linux, Blackberry, etc.



















Arora S, Kalishman S, Thornton K, Dion D et al: Hepatology. 2010 Sept;52(3):1124-33



Video-Conferencing Etiquette



- Before the clinic: Test equipment
- When starting an ECHO clinic always introduce yourself

Web Camera

- Eye contact
- Position
- Questions:
 - Raise your hand
 - Use the chat function
 - Use the raise hand function in Zoom



Video-Conferencing Etiquette



- Respectful and polite with each other
- Respond rather than react, if we disagree
- Everybody's responsibility to keep ECHO a safe place where we are all able to learn
- Body signals can be distracting, try to avoid them
- When not speaking, mute microphone
- Avoid making noise (i.e.; potato chips, shuffling papers, whispering, cell phones, loud bags etc.)



iECHO Data Usage



Project ECHO collects and utilizes administrative data related to ECHO programs

- Project ECHO® collects participation data for each teleECHO™ program
 - All participants in ECHO Clinic need to be registered
- Allows Project ECHO to measure, analyze, and report on the movement's reach
- Used in reports, on maps and visualizations, for research, for communications and surveys, for data quality assurance activities, and for decision-making related to new initiatives.



iECHO Data



Research Opportunities

- Pre/post surveys on provider satisfaction, confidence in treating viral hepatitis, and perceived knowledge
- Baseline demographic information on the spoke sites
 - What setting are providers practicing in (rural, urban, academic, community)
 - Where do their patients come from, what diagnostic testing and treatment options available at the spoke site
- Assessment of patient outcomes



iECHO



iECHO data usage by Project ECHO

- Patients will be de-identified
- Echo number assigned
- Initials only used

ETHIOPIA

ET1 AT, ET2 TM

NIGERIA

NI1 RH, NI2 HJ

GHANA

GH1 KB, GH2 YF

SOUTH AFRICA

- PE1 ...
- GH1 ..



ECHO Clinic



1. Introduction

- Video participants
- Telephone participants
- HUB participants

2. Announcements

3. Patient case presentations

- HUB facilitator introduces case presenter
- Spoke Case presenter presents case
- HUB Facilitator invites other team members at spoke to comment on case
- HUB Facilitator summarizes presentation
- HUB Facilitator ensures with presenter that summary is correct



ECHO Clinic



3. HUB asks audience for questions

- No recommendations for diagnosis or treatment at this stage
- Video participants
- Telephone participants
- HUB/ECHO core group Spoke Case presenter presents case
- Hub Facilitator draws out comments from participants who are not medical

4. HUB asks audience for audience for recommendations/impressions

- Diagnosis or further workup
- Non-pharmacological recommendations
- Pharmacological recommendations
- Interventional recommendations



ECHO Clinic



5. HUB summarises recommendations and consensus on diagnosis and treatment plan

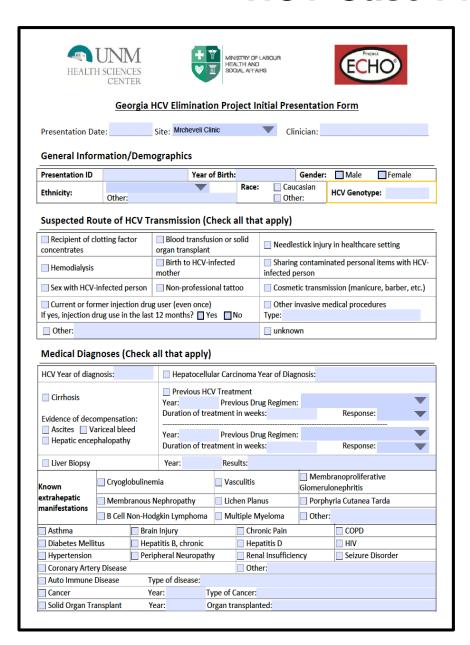
- Asks presenter if questions have been adequately answered
- Invites presenter to present again in future ECHO clinics

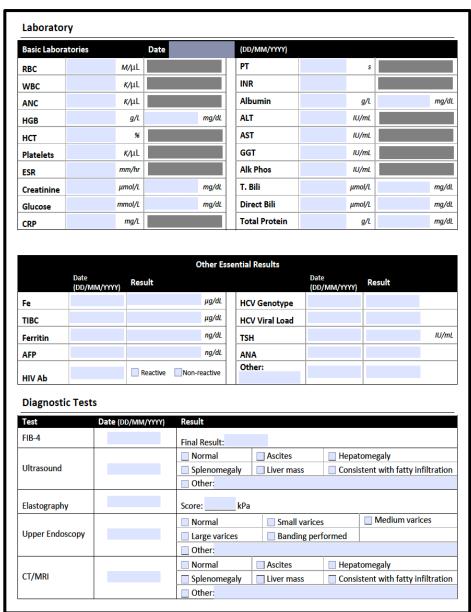
4. Brief Didactic lecture (15 minutes)

4. Close and Debrief

- All Facilitators to reflect on flow and facilitation of clinic where we can improve
- All cases for presentation to be emailed to Cheryl Valentine 1 week before the ECHO clinic – by the Friday afternoon
 - Fill in as much detail as possible on the forms incl dates

HCV Case Presentation Form







ECHO PROGRAM: SSA



HUBS

South Africa

Liver clinic, Groote Schuur Hospital and Johannesburg

SPOKES

Liver Clinic, GSH: Start with centres already part of our referral base

Worcester, George, Port Elizabeth, East London

4 Internationally linked spoke centres – Evolving into HUBS

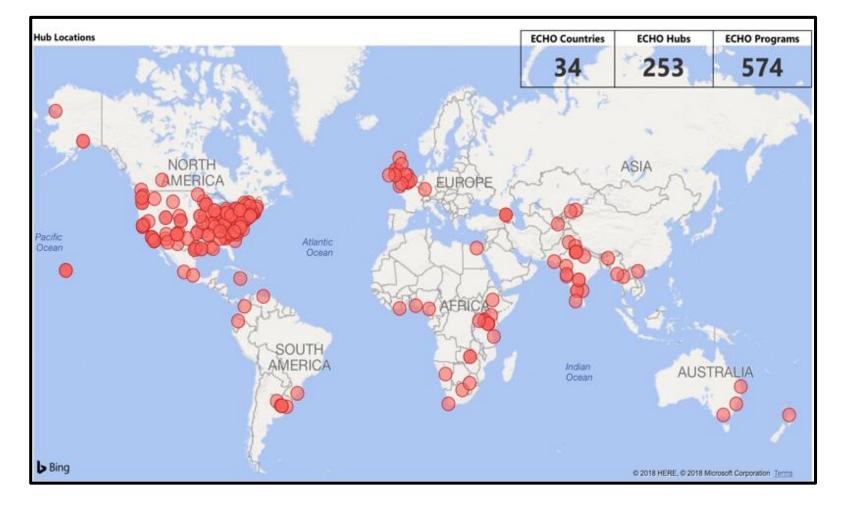
- Nigeria: The University of Lagos, Lagos (Prof Funmi Lesi)
- Ghana: Kwame Nkrumah University of Science and Technology, Kumasi (Prof Mary Afihene)
- Ethiopia: Adis Ababa University Medical School, (Prof Abate Shewaye)
- London: UCL Institute of Liver and Digestive Disease and Kings College Hospital (Prof G Dusheiko); support and guidance



Implementation : ECHO SSA



- Expanded to treat other chronic conditions using the same infrastructure
 - Diabetes Mellitus and hypertension
 - Rheumatology
 - Palliative care and Oncology
 - Substance abuse and addiction
- Already HIV ECHO programs in Namibia and Kenya
- Planned Oncology program: Kimberley Hospital, SA



Global impact of Project ECHO

- 34 countries including Georgia, Pakistan and India
- 1 200 clinical sites in underserved communities
- Management of >50 different diseases

Project ECHO, Lancet Gastro Hepatol Feb 2019

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