

# TAAAC TAAPP

Toronto Addis Ababa Academic Collaboration

Toronto Addis Ababa Psychiatry Project



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## Panel Discussions "Snapshot" 2

Discussant: Dr. Ahmed Reja



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## Medical Imaging

Korosh Khalili, MD

Associate Professor,

Department of Medical Imaging

University of Toronto



Medical Imaging  
UNIVERSITY OF TORONTO



UNIVERSITY OF  
TORONTO

# Background: TAAAC-Medical Imaging

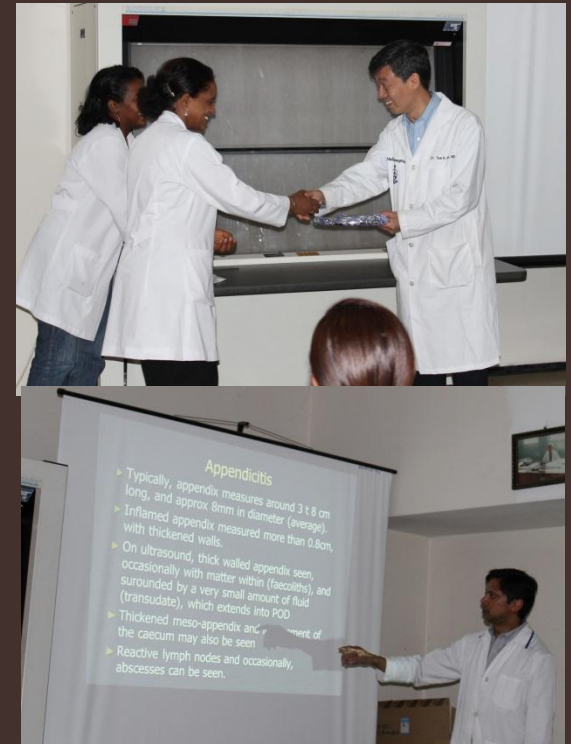
- ❖ Faculty require fellowship-level training to become subspecialists.
  - “Teach the teachers”
    - Better clinical care
    - Better residency training
    - Better recruitment/retainment
- ❖ 3 fellowships were identified for training
  - Abdominal Imaging
  - Cardiovascular/Thoracic Imaging
  - Musculoskeletal imaging
- ❖ Abdominal Imaging Fellowship Started on January 2012



# TAAAC-Medical Imaging to date

## ❖ Abdominal fellowship

- Coming to an end!
- 5 months of visits by U of T Faculty
  - Atri, Jang, Kim, Khalili, Sarrazin
- 4 months of hands-on training by experienced sonographers
  - Leduc, Maloney, Rattansingh
- 3 months of observerships at U of T
  - UHN, MSH, SBHC
- Remote Training
  - 20 review articles with CME questions
  - Hundreds of CT scans from Toronto



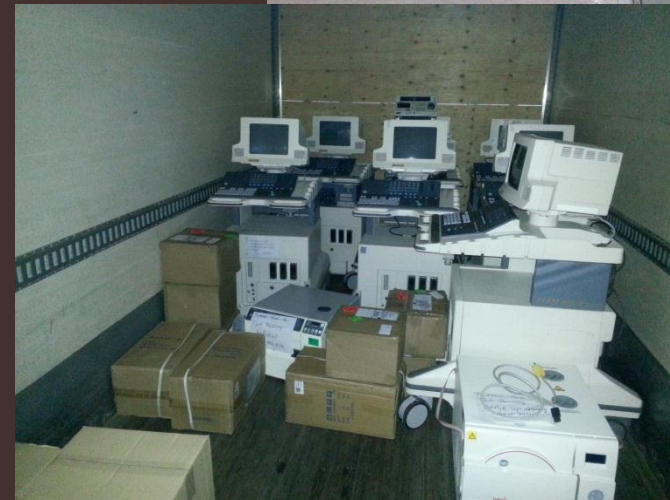
# TAAAC-Medical Imaging: Accomplishments

- ❖ U of T departmental commitment
  - 5 years
  - Annual Budget to cover travel and Toronto observerships
- ❖ Optimization of sonography & CT techniques
- ❖ Initiation of NEW U/S techniques
  - Bowel /Intracavitary/ Advanced obstetrical U/S
  - Intracavitary probes obtained for Radiology & Obstetrics
- ❖ Initiation of Image-Guided biopsy procedures
  - U/S & CT guided
  - Medical firsts in Ethiopia
- ❖ Evaluation of educational value of observerships in Canada
  - Standardized test provided to fellows pre and post observership
  - Mean 40% rise in test scores at end of observership.



# Future Plans and Challenges

- ❖ Interventional radiology program
  - 20 K Grant funding from PMH foundation
  - core procedures & nursing support at Tikur Anbessa Hospital
  - Dr. Ashish Mahajan to lead the planning
- ❖ Fundraising for supplies & equipment
  - Over 50 K raised at TGH/TWH foundation
  - 8 U/S units , 32probes
  - 2 table top sterilizers, 6 voltage regulators, 6 voltage transformers
  - Interventional supplies
- ❖ Cardiovascular/Thoracic Fellowship
  - To commence in 2014, Dr. Jimenez Juan
  - CT & MR Scan installation
  - Echocardiography
  - MSK fellowship in 2015



# Questions & Comments



## ❖ Challenges:

- Small healthcare resource pie
- Integration of radiology with clinical services
- Complimentary not competitive
- Expansion of radiology through allied imaging services:
  - Radiographers, sonographers, technologist

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## TAAAC – Library Sciences



Sandra Kendall

Mount Sinai Hospital





Anaesthesia

Dentistry

Emergency Medicine

Engineering

Family Medicine

Gynaecology/Obstetrics

Internal Medicine

Library Science

Medical Imaging

Nursing

Paediatrics

Peritoneal Dialysis

Pharmacy

Psychiatry

Rehabilitation Medicine/OT

Surgery

emic programs

# TAAAC co-teaches in Ethiopia with Ethiopians for Ethiopians



laboration (TAAAC) is to assist Addis Ababa University (AAU) Ethiopia, build and strengthen capacity and and non-health professional programs. TAAAC is the umbrella organization housing all the new educational Faculties at the University of Toronto (UofT) in Canada and AAU. TAAAC facilitates each of the partnerships understand the educational needs and objectives and sends small, well organized groups of volunteer faculty U for a month to teach, co-teach, mentor and collaborate. The programs build on the work of each group of arm from our collective experience and expertise, and stay current with an ever progressing educational ce and expand medical residencies and subspecialty training in medicine, and to strengthen Masters and PhD s

OSIUM AND GALA here for details.

ITS AS BLOOMBERG LECTURER RETURNS TO ETHIOPIA laboration between Bloomberg Nursing and Addis Ababa University's Department of Nursing.

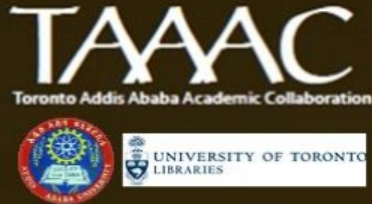
ING GRAND CHALLENGE CANADA RECIPIENTS FEATURING DR CLARE PAIN ed 'Mental health programs in developing countries get boost from Canada'

ADA GRANT a receipt of the Grand Challenge Canada Grant 2012. Check back shortly for more information on this

FESSIONAL LECTURE professional lecture entitled 'My Professional Journey and Mental Health Research in Ethiopia' give on Tuesday

# TAAAC Library Science Program

A collaboration between the Addis Ababa University and University of Toronto Libraries


[About](#)
[The LSP Team](#)
[Training](#)
[Pictures](#)
[Training Materials](#)
[Contact](#)
[Team Documents](#)

## About

About the TAAAC Library Program

In the Spring of 2008 Sandra Kendall, library director at Mount Sinai Hospital, was invited to travel to Ethiopia, East Africa as part of the **Toronto Addis Ababa Psychiatry Project (TAAPP)**. Sandra had the opportunity to meet with the chief medical librarian at the Black Lion Hospital in Addis Ababa, Ethiopia and saw first hand the limitations to accessing print and digital resources in the Black Lion medical library.

A partnership was established with the medical librarian with the goal to improve access to e-resources, to improve the print collection and to provide training in clinical librarianship. Shortly thereafter the program was expanded to include medical disciplines of Emergency Medicine, Paediatrics, Pharmacy and several others. This new program, the Toronto Addis Ababa Academic Collaboration (TAAAC), is a collaboration between the University of Toronto and Addis Ababa University and was established to assist the Ethiopian faculty enhance residency training programs.

To achieve the goals set out in the **Library partnership letter** of 2008, the TAAAC Library Program established an **Action Plan** which is continually updated. An important part of this Action Plan is to develop a training program in clinical librarianship at the university level. Clinical librarians who wish to participate in this program are asked to view the **global health outreach opportunities** and decide which phase of the program, whether in Canada or Ethiopia, best matches their skills and experience. Candidates may also wish to view the **selection criteria** established for participants in the Library Program.

For further information on the TAAAC initiative please contact

Sandra Kendall  
 Global Health Scholar, Peter A. Silverman Centre for International Health  
 General Member Wilson Centre, University of Toronto  
 Director Library Services, Mount Sinai Hospital  
 Joseph and Wolf Lebovic Health Complex  
 600 University Avenue, Suite 18-234  
 Toronto, ON M5G 1X5  
 t 416-586-4800 ext.5903  
 f 416-586-4998  
 skendall@mtsinai.on.ca

SEARCH SITE



## WHAT'S TWEETING?

- Did you read the great piece about Jane Philpott our lead for TAAAC-FM? <http://t.co/OMnp0Cy1>  
1 week ago
- Please donate to TAAAC for the holidays <http://t.co/0Akkhclg>. You are giving the gift of education accessibility to Ethiopians incountry.  
1 month ago
- Please donate to TAAAC for the holidays <http://t.co/gKUOKSiL>. You are giving the gift of education accessibility to Ethiopians incountry.  
1 month ago
- Our work in Ethiopia mentioned in the Globe&Mail <http://www.thehttp://t.co/hJ5dHpVd>  
2 months ago
- Brain drain of African doctors has saved Canada \$400-million <http://t.co/pNPAEexm> via @globeandmail  
2 months ago

Follow

# TAAAC – Library Science Program The Beginnings – June 2008

- ❖ Partnership letter between the libraries of Mount Sinai Hospital and the Black Lion Hospital:
  - (1) request for current medical print textbooks
  - (2) access to e-books and e-journals
  - (3) remote and in-country training



The man is standing in a library or bookstore, surrounded by shelves of medical books. He is wearing a white lab coat and pointing towards a shelf of books. The books on the shelves include titles such as:

- HEAD AND NECK SURGERY
- COMPREHENSIVE TEXTBOOK OF PSYCHIATRY
- ENDOCRINOLOGY
- Occupational Therapy
- CLINICAL DRUG THERAPY
- FRANCHISES IN ADULTS
- Miller's Anesthesia
- Evolution
- CLINICAL CHEMISTRY
- In the Clinic
- Williams Hematology
- CLINICAL NURSING SKILLS TECHNIQUES
- CLINICAL NURSING SKILLS TECHNIQUES
- CANADIAN FUNDAMENTALS OF NURSING
- HISTOLOGY
- HISTOLOGY
- HISTOLOGY
- Neurosurgery

The books on the shelves are organized by subject. The top shelf contains books on 'CLINICALLY ORIENTED ANATOMY' and 'DIAGNOSTIC SURGICAL PATHOLOGY'. The middle shelf contains books on 'CLINICALLY ORIENTED ANATOMY', 'Essentials of Pathophysiology', 'Fundamentals of Nursing', 'DENTAL HYGIENIST', 'MATERNAL & CHILD HEALTH NURSING', 'Anatomy', and 'Neurosurgery'. The bottom shelves contain books on 'CLINICALLY ORIENTED ANATOMY', 'CLINICAL NURSING SKILLS TECHNIQUES', 'CLINICAL NURSING SKILLS TECHNIQUES', 'CLINICAL CHEMISTRY', 'In the Clinic', 'Williams Hematology', 'CLINICAL NURSING SKILLS TECHNIQUES', 'CLINICAL NURSING SKILLS TECHNIQUES', 'CANADIAN FUNDAMENTALS OF NURSING', 'HISTOLOGY', 'HISTOLOGY', and 'HISTOLOGY'.





Questions about the library?  
Search our FAQ!

Catalogue Research U of T Research Services Students Faculty About Us Help



Major resources

MEDLINE	Cochrane	Web of Science
PubMed @ UofT	CINAHL	BIOSIS
EMBASE	PsycInfo	Scopus
UpToDate	MedlinePlus	Journal Citation Reports

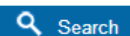
Starting points

Anatomy	Nursing	Public Health
Biology	Peer review	Rehabilitation
Clinical EBM	Pharmacy	Science
Medicine	Physical Education	All subjects a-z

Catalogue

Search all Catalogue Articles eJournals Site search

Find books, articles, journals, more



Research help	Find articles	Systematic reviews	Request items RACER
Research guides	RefWorks	Find a Computer	Group study rooms

New titles



News

- Sept 16: International Day for Preservation of Ozone Layer
- Get Published: Tips from an Editor (Sept 25)
- New look for library catalogue
- Micromedex on campus access only

UTL news...

Gerstein news...

Workshops

- Thu, Sep 26 Core Library Skills: Organizing and Citing Your Work (CCR eligible)
- Fri, Sep 27 Core Library Skills: Finding and Choosing Scholarly Resources (CCR eligible)
- Mon, Sep 30 Getting started at U of T Libraries
- Mon, Sep 30 MSE498 Design and Research Project Literature Search Class



more workshops...

Spotlight



Follow us on YouTube

peer review, how to save to RefWorks, search strategies in MEDLINE, and much more! [youtube.com/user/gersteinlibrary](http://youtube.com/user/gersteinlibrary)

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# TAAAC – Library Science Program Evaluation

## 2011

- ❖ Over 140 library professionals, physicians, nurses and allied health workers received training.
- ❖ 3 months later – 16 librarians had trained over 140 additional hospital/university staff.
- ❖ “Pen-pals” providing email reference services support and document delivery services.

## 2012

- ❖ Over 250 learners of which over 200 were clinicians
- ❖ Currently a waiting list for Medical Library Literacy training



# TAAAC – LSP Our Next Steps

- 2012 – 2016 Letter of Agreement University of Toronto Libraries and Addis Ababa University Libraries.
- Assessing our program and outcomes use of University of Toronto Libraries, registered Ptolemy Library Users.

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## Pharmacy Collaborations

Heather Boon BscPhm, PhD

Interim Dean

Leslie Dan Faculty of Pharmacy, U of T



UNIVERSITY OF  
TORONTO

# Our Collaboration

- ❖ **When:** 2008- present
- ❖ **Who:** School of Pharmacy, Addis Ababa University & Leslie Dan Faculty of Pharmacy, University of Toronto
- ❖ **What:** Collaboration on a Doctor of Philosophy (PhD) degree program in Social Pharmacy at AAU

# Activities

## ❖ Teaching Trips

- U of T faculty teach required PhD level courses at AAU

## ❖ Graduate Student Supervision

- U of T faculty members co-supervise AAU PhD students
- Provide guidance throughout the completion of the research project

## ❖ 4 PhD students currently enrolled in the program

# Challenges and Opportunities

- ❖ Challenge: Funding for PhD students wanting to enroll in the program
- ❖ Opportunities: Hoping to expand to PhD programs in wet lab sciences



# Questions?

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# Engineering

## Professor Anthony Sinclair

Mechanical and Industrial Engineering, University of Toronto



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# TAAAC – Engineering

- ❖ First contact with AAiT 2008
- ❖ Memorandum of Understanding 2011
- ❖ First courses taught in Ethiopia by U of T 2011
- ❖ Co-supervision of graduate students 2012
- ❖ First trips to Canada 2012

Y.L. Cheng  
J. Rose  
A.N. Sinclair





# Activities:

## Graduate Courses

Graduate instruction requested in the following areas:

- ❖ Manufacture of composite materials
- ❖ Food engineering (storage, packaging)
- ❖ Water purification
- ❖ Railway engineering
- ❖ Bioengineering
- ❖ **Solid mechanics\***
- ❖ Bioremediation
- ❖ Infrastructure (roads, bridges, buildings)
- ❖ Information technology
- ❖ **Experiments & signal processing\***
- ❖ Power distribution
- ❖ Automotive engineering
- ❖ **FPGA hardware design and architecture\***
- ❖ **Programming for mobile devices\***
- ❖ Computer Aided Design for digital circuits



# Activities:

## Graduate Student Co-Supervision

Co-supervision of research students includes:

- ❖ Topic identification, in collaboration with Ethiopian industry
- ❖ Equipment and research materials sent from Toronto to AAiT
- ❖ Assistance developing graduate research labs at AAiT
- ❖ Short-term placements of Ethiopian graduate students at U of T
- ❖ Co-authorship of research grant proposals, journal articles



**AUCC**  
Association of Universities and Colleges of Canada  
Association des universités et collèges du Canada

**CANADA-AFRICA RESEARCH EXCHANGE GRANTS  
(CAREG)**

**Application Form - 2013**

**Program funded by the International Development  
Research Centre (IDRC)**

**IDRC**  **CRDI**  
International Development Research Centre Centre de recherches pour le développement international

# Accomplishments to Date

This initiative is still new; first extended visits were in 2011:

- ❖ Three AAiT students are being co-supervised by U of T faculty
- ❖ Four graduate courses have been taught at AAiT (mechanical engineering, computer engineering) by U of T faculty.
- ❖ Areas for future collaboration and relevant faculty members identified.
- ❖ Discussions on biochemical and biomedical engineering programs: Collaboration between Chemical Engineering and Black Lion Hospital.



# Challenges Ahead... and Positive Signs...

## Challenges Ahead...

- ❖ Time, money, and materials
- ❖ Background preparation of AAiT students
- ❖ Difficulties of long-distance collaboration
- ❖ Stresses on our AAiT colleagues and students

## Positive Signs...

- ❖ Strong governmental commitment to education
- ❖ Strong support from AAiT administration
- ❖ Tremendous potential for engineering growth.

# Questions?

**TAAAC TAAPP**  
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# Department of Anesthesia Collaboration with TAAAC

Dr. Alison Macarthur  
Dr. Assefu Woldetsadik



# TAAAC – Anesthesiology

- ❖ Start date of the collaboration: 2011
- ❖ Why we need the collaboration:
  - Ethiopia has just 14 physician-anesthesiologists in the public system to care for the surgical and obstetric patients of a country of 85 million people.
  - To increase the number of physician-trained anesthesiologists who can provide the teaching and mentorship to other allied health anesthesia providers.
  - To share experience on the management of complex, high risk cases of Black Lion Hospital in Addis Ababa.
  - To fill the gap in areas where experience and exposure is limited
  - To enhance research activities

# Activities

## ❖ Teaching

- Three times a year 2 senior consultants and 1-2 fellows teach residents according the existing curriculum of the department
- ❖ The teaching model is: lectures, seminars, journal club, pre-anesthesia clinic, attending cases with residents in the MOR, obstetric unit and SICU.
- ❖ The intake of residents increased from 1-2 to 5 during the collaboration period.
- ❖ The role of anesthesiologists beyond the OR in the labor delivery pain management attracted many young physicians.



# Activities

- ❖ Research
  - Research methodology & epidemiology lectures
  - Topic selection
  - Proposal writing
- ❖ At the moment 5 research topics by residents and 1 topic by a senior are identified proposal finalized and actual research activity will be started
- ❖ Other assistance: reading materials including book made available for the students

# Challenges and Opportunities

## Challenges

- ❖ Number of applicants is not going as expected
- ❖ Shortage of supplies for the service and training
- ❖ Shortage of budget, accommodation

## Opportunities

- ❖ Residents practicing new skills that were not practiced before
- ❖ Is good opportunity for experience share moving forward.
- ❖ The collaboration has to be continued and strengthen
- ❖ It is good to give chance to seniors and residents to have actual exposure – bilateral exchange

# Questions

Thank you.

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# TAAAC - Rehabilitation

Dr Dawit Assafa, CEO, Amanuel Specialized Mental Hospital  
Ms. Marci Rose & Ms. Nancy Lin, OT Rehabilitation



# In the beginning...

- ❖ TAAAC Rehab began in March 2010
  - Focus on mental health rehabilitation at Amanuel



# Activities to date

- ❖ Needs assessment March 2010
  - 1 OT from South Africa working at ALERT primarily with burn victims
  - Amanuel rehab staff: OTechs, psychologist, psychiatric nurse, social worker
  
- ❖ 2 subsequent trips Sept 2012 and Sept 2013
  - General hospital wide staff in-service
  - Specialized rehab staff
    - Groups, activity analysis, individual rehab plans

# Next Steps...

- ❖ Masters level training program in rehabilitation
- ❖ Collaboration with other mental health facilities such as Gefersa
- ❖ Funding

# Questions





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5<sup>th</sup>

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