



ኢትዮጵያን ሶሳይቲ ኦፍ ኦርቶፔዲክስ ኤንድ ትራውማቶሎጂ  
ETHIOPIAN SOCIETY OF ORTHOPEDICS & TRAUMATOLOGY



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15<sup>th</sup> ANNUAL GENERAL MEETING

Scientific Conference  
and Medical Exhibition

HYATT REGENCY  
Addis Ababa





## ዝግጅት ክፍል

### አሳታሚ

ኢትዮጵያን ሶሳይቲ ኦፍ ኦርቶፔዲክስ  
ኤንድ ትራውማቶሎጂ (ኢ.ሶት)

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## EDITORIAL MESSAGE



Dear Colleagues;

My humble greetings!

Whatever challenging years we had, we persisted in writing and produced TWO volumes! The dream of having an Ethiopian Orthopaedic Journal (EOJ) or Ethiopian Journal of Orthopaedics & Traumatology (EJOT) is closer than ever! As initiation exercise, last year, we fully sponsored a complete Volume of Ethiopian Medical Journal (emj) and published 10 Orthopaedic Articles. This year we published our own magazine, 9th Volume.

The editorial team, nominated by this assembly, has been trying to address several issues around our beloved specialty and practice. I can't say we did our best but here is something. I believe there is power in starting! Definitely the newer generation advances this initiative forward and realizes our own journal very soon.

In this issue and the emj Special issue, both at your hands, we tried to cover wide areas addressed by ESOT members, residents and the Orthopaedic industry.

As ESOT is now getting bigger and greater every year (over 380 members, whose names are listed in this volume), it is timely to have a dedicated editorial office with a secretariat staff working regularly and executing the daily activities of the society. The work load is getting tougher, needs to be shared and done every day by full-fledged ESOT office.

With numerous brilliant young G.Ps craving to Join Orthopaedic residency more ortho departments

opening, Sub-Specialty Programs in Orthopaedics emerging and huge number of patients needing our hands, we must excel in quality research, good practice exchange and harmony. These are better conversated when we have our reputable journal as a platform.

Moreover, I encourage every member to submit articles, reports, news and share any good practice with the wider Orthopaedic community. ESOT is our society and provided this forum to share our knowledge and exchange our research findings.

I thank all contributors to this edition, I thank current ESOT EC and I thank the sponsors who are always supporting us as we head to fulfil our dream. Last, not least, I thank the office in the Mother Department at AAU-TASH for being patient with us when we prepare this edition. I also thank my family for tolerating me once more in working late.

As always I appreciate the contributing and participating residents.

This Volume will be uploaded on our web- site. we encourage everyone to write and share something. please communicate any of us, anytime, anywhere and by any means.

Enjoy Reading.

Peace & Blessings!

Biruk L.



## Presidential Welcoming Address

Guest of honor H.E. Dr. Lia Tadesse, Minister of Health, FDRE,

Dear ESOT member surgeons, conference speakers, Residents, Med students, Sponsors and invited guests;

### Presidential speech

Distinguished guests, Dear members and invited society representatives

I am very pleased to welcome you to this year annual General meeting. This is the 15th Annual General meeting, Scientific conference and medical exhibitions of Ethiopian society of Orthopedics and Traumatology (ESOT).

As the President of ESOT, I am delighted to stand in front of you and give respect to all the giant orthopedic surgeons who founded and maintained ESOT.

We have all worked hard to make this 15th AGM influential.

This year's theme is: Orthopedic management of injuries from conflict and complex upper extremity trauma; it is selected because we need to discuss and be part of the management of these complex injuries.

As we all know we met after 2 years because of 2 difficult problems for all of us. The last two years were very difficult for all surgeons because of COVID 19 pandemic and conflicts in different parts of ETHIOPIA. ALL the time our surgeons were dedicated to help our citizens and I want to say thank you for your help in the name of our society. Managing patients in near-by conflict zones was very difficult.. of lack of appropriate orthopedic materials and patient over load are main challenges. Most of our surgeons were working day and night handling and treating the injured. Covid 19 pandemic was also challenging to our surgeon as an individual and as a physician to treat covid patients. Despite of all these difficult times we were

helping selflessly all the time. Under all this stress our hero surgeons were doing heroic activity for the last 2 years and they continue up to today.

As we all know we orthopedic surgeons are wanted in peace as well as in war times. As the society we were happy to involve in the casualties which happened in our country. I want to pass my respect and gratitude for those members who participated in those times.

Dear colleagues, partners and distinguished guests due to our helpful partners and organizers, we have made this event to be true at this 5-star new international hotel.

In these two days annual scientific conference we have renowned international speakers who will share their knowledge skills and attitude. We also have presentations of several articles and case discussion that would produce an impact on our day-to-day activities. Finally, we will have audit report and will conduct next term ESOT executive committee election.

Lunch and drinks will be served, at the end of this conference we will hand over gift to each one of you. I wish you a pleasant stay!

I thank you all for coming and participating at this conference.

I hereby invite Her Excellency Dr. Lia Tadesse, Minister of Health, to address the surgeons' and invited guests and officially open our scientific conference.

Geletaw T. Bekele, MD

Arthroplasty and orthopedic trauma sub specialist  
President, ESOT



## የኢትዮጵያ የአጥንት ህክምና እስፔሻሊስቶች ብሄራዊ ማህበር 15ኛ ዓመታዊና ወቅታዊ ሳይንሳዊ ጉባዔ የመክፈቻ ንግግር

የተከበራችሁ እንግዶች፤ የኢትዮጵያ ኦርቶፔዲክስና ትራውማቶሎጂ ብሄራዊ የሙያ ማህበር አባላት በመጀመሪያ እንኳን



ለማህበሩ 15ኛ ሳይንሳዊ ጉባዔ በሰላም አደረሳችሁ። በዚህ ዓለምም ሀገራችንም በከባድ ፈተና ባለብት ወቅት ከመላ የሀገራችን ክፍሎች ተሰባስባችሁ ወቅታዊና እጅግ አስፈላጊ ጉባዔ ለማድረግ ችላችኋል። የዚህ አመት ጉባዔ ዋናው መሪ ሀሳብ(Theme) “በግጭቶች/በጦርነት ጊዜ የሚጠፈሩ ጉዳዮችን ማከም” የሚል መሆኑ ወቅታዊና ልዩ ያደርገዋል።

በክብር-19 ወረርሽኝ ወቅትም በሙያችሁ ታካሚዎችን እየረዳችሁ እንዳለ የታወቀ ሲሆን አሁን ደግሞ በተጨማሪ በተለያዩ አካባቢዎች እየተደረጉ ባሉ ግጭቶችና(ጦርነቶች) መፈናቀሎች ወሳኝ የሆነውን የስብራትና የአጥንት ህክምና አገልግሎት በየግንባሩና ማገገሚያ ማዕከላት እየሰጣችሁ ስለሆነ በሚ/ር መስሪያ ቤቱ ስም አመሠግናለሁ። ዛሬ የተሰባሰባችሁት ለሁለት ዋና ዋና ዓላማዎች እንደሆነ እገነዘባለሁ። አንድም መላው የማህበሩ አባላት በቀጣይ በተቀናጀ መልኩ ከመንግስት ጋር በመሆን በግጭቶች የተጎዱትን ቁስለኞች እንዴት በተሻለ ማከም እንደምንችል መወያየትና ለሚ/ር መስሪያ ቤታችን ግብዑ መስጠት ። በሌላ በኩል ደግሞ ሞያዊ ብቃታችሁን በሚቀርቡት የተለያዩ ምርምሮችና የጥናት ዕሁፎች አገልብታችሁ ከፍተኛ የህክምና ስነምግባር ተላብሳችሁ ህዝባችንን የበለጠ ለማገልገል ዳግም ቃል የምትገቡበት በመሆኑ ነው። የአገራችን የጤናው ዘርፍ ሶስት ዋና ዋና የጤና ችግሮች ተጋርጠውበታል። እነሱም ተላላፊ የሆኑ በሽታዎች፣ ተላላፊ ያልሆኑ በሽታዎችና በተለያዩ ምክንያቶች የሚፈጠሩ የአደጋ ጉዳዮች ናቸው። ፡ በተለይም ደግሞ ከትራፊክ አደጋ፣ የግንባታ ስራዎች፣ የማሽነሪ ስራዎች፣ የተለያዩ ግጭቶችና ሌሎች ምክንያቶች የሚፈጠሩ ጉዳዮች ቁጥራቸው እየጨመረ ይገኛል። በዚህ ላይ ሰው ሰራሽ ግጭቶችና የተፈጥሮ አደጋዎች ሲጨመሩ

በባህርያቸው ውድ የሆኑ የአጥንት ህክምና ዕቃዎች በከፍተኛ እጥረት ባለብት ታዳጊ ሀገር ደረጃውን የጠበቀ አገልግሎት መስጠት ፈተና ይሆናል። ስለዚህ ይህ ማህበር ይህንን በየጊዜው እየጨመረ የመጣው ጉዳት ለማከም ብቻ ሳይሆን የመከላከል ስራውም ለማጠናከር ከፍተኛ አስተዋፅኦ እንዳለው ይገመታል። ይህንን የኦርቶፔዲክስና ትራውማቶሎጂ ለማጠናከር መንግስት ከፍተኛ ትኩረት ሰጥቶ የሚሰራ ሲሆን በአሁኑ ሰዓት በጥቁር አንበሳ ሆ/ል ለብዙ ጊዜ (ለ32 አመት)ለብቻው ከነበረው እስፔሻሊቲ ማሰልጠኛ ዲፓርትመንት በተጨማሪ ባለፉት ጥቂት አመታት ሌላ አምስት ተጨማሪ ዲፓርትመንቶች ( በቅ.ጳውሎስ አቤት ሆ/ል፣ በመቐለ ዩኒቨርሲቲ አይደር ሆ/ል፣በባህርዳር ዩኒቨርሲቲ፣በጎንደር ዩኒቨርሲቲ፣በሀዋሳ ዩኒቨርሲቲ በመክፈት ስልጠና እየተሰጠ ይገኛል። በዚህ ምክንያት አሁን በኢ/ት ውስጥ ወደ 400 የአጥንት ቀዶ ህክምና እስፔሻሊስት ሀኪሞችና ራዲዮሎጂስቶች ይገኛሉ።ቁጥራችሁም አገልግሎቱም ቀጥሎ የሚከፈቱትም አዳዲስ ዲፓርትመንቶች ይጨምራሉ። ይህ ትልቅ የሰው ሀይል ነው። ተመሳሳይ ዲፓርትመንቶችን በተለያዩ ክልሎች ለማስፋፋትም ጥረት ይደረጋል። ከዚህ በተጨማሪ በሀገራችን ለመጀመርያ ጊዜ የኦርቶፔዲክስ ትራውማ ሰብ-እስፔሻሊቲ ስልጠና በጥቁር አንበሳው ዲፓርትመንት ተጀምሮ የመጀመርያው ሰልጣኞች የሀገር ውስጥም የውጭ ሀገርም ስልጠናቸውን ጨርሰው ያጠናቀቁ ሲሆን በሚቀጥለው ወር እንደሚመረቁ ይታወቃል። ይህ ወደውጭ ሀገር የሚደረጉ አሳስፈላጊ ሪፈራሎችንና እንግልቶችን አስቀርቶ ዶላራችንን ይቆጥባል።ሌሎችም ወሳኝና አስፈላጊ ሰብ-ስፔሻሊቲዎች በጥናት ተመርኩዘን እንዲከፈቱ አቅጣጫ አስቀምጠናል።

በተያዘው ፕሮግራም መሠረት በምታደርጉት የፓኔል ወይይት ላይም በተለይ አስቸኳይ አደጋዎችን ለማከም ሁላችንም እንዴት መቀናጀት እንዳለብንና የአጥንት ህክምና ግብአቶችን ገዝተንም ይሁን አገር ውስጥ አምርተን እንዴት ማሟላት እንዳለብን መክራችሁ የምታቀርቡትን ሀሳብ ለመቀበል እንጠብቃለን። በፓኔል ወይይታችሁም ወቅት በግጭት/በጦርነት አካባቢዎች በዘመቻ በመሳተፍ ያሉና የተሳተፉ አባላቶቻችሁ የሚያቀርቡት ተሞክሮ ትልቅ የልምድ ልውውጥ እንደሚፈጥር ሌሎች ዘምተው በሙያቸው የሚያገለግሉ ወጣት እስፔሻሊስት ባለሙያዎችንም እንደሚፈጥር ይታመናል።

በመጨረሻም የኢትዮጵያ ኦርቶፔዲክስና ትራውማቶሎጂ ማህበር አባላትና ለሁሉም የጤና ባለሙያዎች ጥሪ የማቀርበው ርህራሄ፣ተገልጋይን አከባሪ፣ተንከባካቢና ሙያዊ ሥነ-ምግባር የተላበሱ የጤና አገልግሎት ሰጪዎች በመሆንና በማፍራት ጥራት ያለው የጤና አገልግሎትን ለህዝባችን ተደራሽ እናድርግ በማለት ነው። በድጋሚ እንኳን ለማህበሩ 15ኛ ሳይንሳዊ ጉባዔ በሰላም አደረሳችሁ እያልኩኝ ኮንፈረንሱና ኤግዚቢሽኑ በይፋ መክፈቱን አበስራለሁ። መልካም ጉባዔ። አመሰግናለሁ።

ዶ/ር ልዩ ታደሰ

የኢ.ፌ.ዴ.ሪ ሪ ጤና ሚኒስቴር ሚኒስትር /አ.አ- ነሃሴ 19 2013 ዓ. ም/





## Establishment of The Ethiopian Society of Orthopedics And Traumatology (ESOT)

**Tezera Chaka MD, FCS(ECSA)**  
Associate Professor of Orthopedic Surgery  
School of Medicine  
Addis Ababa University



With the beginning of 1995 G.C. the consensus that was made among all Orthopedic Surgeons was to be organized under the Surgical Society of Ethiopia (SSE) which was believed as it should be serve as umbrella organization for all surgical specialties until such time that each surgical specialty associations established. Thereafter SSE would be transformed to "College of Surgeons" and will mainly focus on accreditation, certification, standardization etc of the profession. (Now it is high time to establish the "College of Surgeons" of the country due to the current flourishing of Surgical Trainings at the different Universities in order to assess, standardize, accredit, etc of their activities.)

Subsequently as the department of orthopedic surgery started to produce graduates and also with arrival of specialists graduated abroad the number of orthopedic surgeons started to grow up. In 2003 an interested group met in the Tikur Anbessa hospital surgical department conference hall for a brain storming discussion on how to establish a society. At the end of the meeting a steering committee was formed with the main task to draft the constitution and to accomplish the legalization process.

In May, 2003 the first meeting was conducted at Semien Hotel. The drafted constitution, the name- Ethiopian Society of Orthopedics and Traumatology (ESOT) –and the Emblem of the society were approved and executive members were elected.

On the 2nd of January 2004 the society has been officially registered by the Ministry of Justice and following in 2004 in the presence of officials from the Ministry of Health, delegates from sister societies and associations and other invited guests from inside and out side of the country an inaugural ceremony was held at the Ghion Hotel. There has been also a guest lecture as well as scientific paper presentations. After the second annual meeting and scientific conference which was held at Global Hotel Thursday 30th March 2006 with a pre-conference workshop on Club feet organized by the Society, Cure International and World Orthopedics Concern, during the subsequent years due to unforeseen circumstances (internal and external) the activity has tremendously declined.

In 2008 extra-ordinary meeting was called and new executive committee was elected which led the society to the resurgence of its activity. There after to date there were regular annual meetings and scientific conferences with panel discussions on important and timely issues and Workshops. Starting 2010 the society has gone further to start publishing a Scientific Journal of its own and has created its web-site.

The 2012 AGM and Scientific Conference have been colorfully celebrated at Hilton Hotel in the presence of His Excellency Ato Amin Abdulkadir Minister of Culture and Tourism with the theme "Medical Tourism & Sport Injuries". At this conference members has been honored with a recognition awards for their contribution to the profession at different categories. The first Operative AO course for all Orthopedic Surgeons in Ethiopia & their Nurses was successfully conducted in Dec. 2012 in Churchill Hotel. Both surgeons and residents benefited a lot. ESOT is growing tremendously. Therefore to uphold this noble endeavor, it is the duty of every member to actively engage our self to the fulfillment of the vision, mission and goals of the society.

### List of Ethiopian, Graduate ESOT Founding Members

1991	Dr. Ahmed Taha Makki ( Yemani Citizen ) Dr. Eskinder Afework Dr. Lakew W/ Amanual	2002	Dr. Birhanu Beyer Dr. Wondaferaw Wondimu
1993	Dr. Tawfik Abdulahi Dr. Temesgen Fitru Dr. Tezera Chaka Dr. Worku Mekonnen Dr. Wondimu Wolde	2003	Dr. Biruk Zewdie Dr. Genanew Admasu Dr. Hailu Legesse
1994	Dr. Teshome Worku Dr. Woubalem Zewdie	2004	- Dr .Manyazewi Dessie
1996	Dr. Legesse Yigzaw Dr. Solomon E/ Yonas	2005	- Dr. Kinfe Araya Dr. Zelalem Tamirat
1997	Dr. Dereje Tekalign Dr. Mesfin H/ Mariam Dr. Tadesse Alemayehu	2006	- Dr. Biruk Lambisso Dr. Elias Ahmed Dr. Daniel Ayalkibet Dr. Kagne Wubishet
1998	Dr. Asfaw Ayele Dr. Dagne Feleke	2007	- Dr. Birhanu Ayana Dr. Tesfaye Lema
2000	Dr. Hailu Shewa-amare	2008	- Dr. Abebaw F/ Sillasie Dr. Dereje Negash Dr. Fekadu Teshome Dr. Fisseha Bekele Dr. Yiheyis Feleke
2001-	Dr. Gizachew Nigussie	2009	Dr. Andargachew Workineh Dr. Demissie W/ Kidan Dr. Mekonnen Wordofa



## Graduates, continued

### 2010

1. Dr. Neguissie Seifu
2. Dr. Selamu Dessalegn
3. Dr. Solomon Awoke

### 2011

1. Dr. Tilahun Desta

### 2012

1. Dr. Daniel Teferi

### 2013

1. Dr. Alemayew Silassie
2. Dr. Bezu Chemed
3. Dr. Mohammed Adem

### 2014

1. Dr. Nesredin Yusuf
2. Dr. Nigussie Hailu
3. Dr. Samuel Hailu
4. Dr. Tadesse Shimelis
5. Dr. Teshome Mosissa
6. Dr. Wondwossen Tekola
7. Dr. Sisay Birhanu

### 2015

1. Dr. Ebrahim Ahmed
2. Dr. Geletaw Tessema
3. Dr. Tekalign Tsegaye
4. Dr. Sham Abraham
5. Dr. Worku Belay
6. Dr. Solomon Goshu

### 2016

1. Dr. Ephrem G/Hana
2. Dr. Esubalew Abebe
3. Dr. Habtamu Bayissa
4. Dr. Mamo Dikessa
5. Dr. Tewodros Daba
6. Dr. Tinsae H/Michael
7. Dr. Yoseph Zekarias
8. Dr. Zerihun Tamirat

### 2017

1. Dr. Adisu Chala
2. Dr. Biruh Wubishet
3. Dr. Leul Merid
4. Dr. Yared Solomon
5. Dr. Milkeys Tsehay
6. Dr. Getnet Asnake

### 2018

1. Dr. Abduhrehman Ahmed
2. Dr. Abiy Worku Haile
3. Dr. Ananya Kassahun Admassu
4. Dr. Ermias Gizaw H/Meskel
5. Dr. Eskinder Kebede Tadesse
6. Dr. Getayie Temesgen Kebede
7. Dr. Zeynu Zuber
8. Dr. Mahder Eshete Yilma
9. Dr. Melesse Gardie Belete
10. Dr. Misgana Temesgen Workneh
11. Dr. Mnewer Yirga Ahmed
12. Dr. Mohammed Issa Dawod
13. Dr. Nardos Worku Ketema
14. Dr. Samson Tule Sadiko
15. Dr. Seid Mohammed Yasin
16. Dr. Sintayehu Bussa Teresa
17. Dr. Sisay Belete Berga
18. Dr. Tadesse Esayas Wae
19. Dr. Yebchaye Wondafrash Gameda

### 2019

1. Dr. Abdirashid Ismael
2. Dr. Ahmed Seid
3. Dr. Ayele G/Selassie
4. Dr. Bahru Atnafu
5. Dr. Baru Legesse
6. Dr. Berhane Kassa
7. Dr. Biniyam Teshome
8. Dr. Birhanu Ayinetaw
9. Dr. Bruh Keflae
10. Dr. Chernet Leka
11. Dr. Chol William
12. Dr. Fasil Nigusse
13. Dr. Habtamu Tamrat
14. Dr. Helawi Tewabe
15. Dr. Hiwot Hailu
16. Dr. Mahamed Areis
17. Dr. Mengistu G/Yohanes
18. Dr. Michael Habtu
19. Dr. Moa Chali
20. Dr. Mohammed Shikur
21. Dr. Mulusew Tibebu
22. Dr. Oumer Seid
23. Dr. Tewodros Asegie
24. Dr. Thomas Melese
25. Dr. Tofik Kedir
26. Dr. Tsega Yilma

### 2020

1. Dr. Admasu Tibelt
2. Dr. Ahmed Abdusemed
3. Dr. Eyuael Ambaye
4. Dr. Fikir Tesfaw
5. Dr. Fitsum Lakew
6. Dr. Fre Alemseged
7. Dr. Getachew Berhe
8. Dr. Getahun G/Egziabher
9. Dr. Gulilat Zerihun
10. Dr. Khalid Zeki
11. Dr. Mariamawit Baye
12. Dr. Seyoum Berihun
13. Dr. Silamlak Sisay
14. Dr. Tegenu Dinku
15. Dr. Teshale Ayana
16. Dr. Tewodros Taye
17. Dr. Tsegaye Mamo
18. Dr. Yonas Amiga
19. Dr. Yazachew Yimenu
20. Dr. Zenaye Wude
21. Dr. Teshome Tena
22. Dr. Dejene Feyisa

## Graduates 2021

1. Dr. Moges Tessema
2. Dr. Habtamu Akalu
3. Dr. Melkamu Alemu
4. Dr. Kaleab Tesfaye
5. Dr. Yemane G/Yohannes
6. Dr. Abiy Birhanu
7. Dr. Naol Worku
8. Dr. Samuel Tesfaye
9. Dr. Robel Sirak
10. Dr. Tezera Tadesse
11. Dr. Aelaf Aseged
12. Dr. Belete Hubena
13. Dr. Jiregna Fayera
14. Dr. Henok Dagnachew
15. Dr. Daniel Banksira
16. Dr. Gemechis Amano
17. Dr. Matiyas Seid
18. Dr. Senay Mekonen
19. Dr. Fantahun Solomon
20. Dr. Abdo Dames



#### R4,AAU

1. Dr. Abdulwasi Jemal
2. Dr. Abel Jemberu
3. Dr. Addisu Deribe
4. Dr. Amanuel leulseged
5. Dr. Asna Bersisa
6. Dr. Barnabas Wondimu
7. Dr. Beakl Bogale
8. Dr. Elleni Atnafu
9. Dr. Elsa Daniel
10. Dr. Eyob fisseha
11. Dr. Hailegebriel Degefu
12. Dr. Mehari Temsigen
13. Dr. Melkamu Tafesse
14. Dr. Mohammedamin Kelil
15. Dr. Samrawit Esayas
16. Dr. Shikuria Lema
17. Dr. Tadesse Debrya
18. Dr. Tadesse Dugasa
19. Dr. Tesahun Tekle
20. Dr. Tesfahun Tekle
21. Dr. Tewodros Fikadu
22. Dr. Yalew Tsegaye
23. Dr. Said Osman

#### R3,AAU

- 1 Dr. Abebaw Muhabaw Zegey
- 2 Dr. Alpha Seifu Ail
- 3 Dr. Belay Tsega Ayenew
- 4 Dr. Biruk Fekadu Tebebie
- 5 Dr. Daniel Demie Abiebie
- 6 Dr. endrias Habte Belay
- 7 Dr. Getaneh workneh Kass
- 8 Dr. milkiyas Tsegaye Haile
- 9 Dr. Shikure Esmale Mossa
- 10 Dr. Tamirat Hanoko Hadello

#### R2-BLH

1. Dr. G/Mariam Atalay
2. Dr. Getasew Alehegn
3. Dr. Bethel Zeleke
4. Dr. Bezwit Teferi
5. Dr. Demelash Besha
6. Dr. Tewolde Birhane
7. Dr. Dagim Matebie
8. Dr. Anteneh Bekele
9. Dr. Natnael Shewatatek
10. Dr. Kidanu Chala

#### R1-BLH

1. Dr. Abas Abubeker
2. Dr. Abay Birhan
3. Dr. Alazar Member
4. Dr. Ayenew Mulualem
5. Dr. Binyam Dagnaw
6. Dr. Dawit Getachew
7. Dr. Bisrat Tilaye
8. Dr. Haileyesus Abdisa
9. Dr. Kassahun Anteneh
10. Dr. Lopiso H/Mariam
11. Dr. Mehariw Zena
12. Dr. Muhammed Fentaw
13. Dr. Surafel Esmelealem
14. Dr. Teklegiworgis G/Medin
15. Dr. Yisak Destalem

#### 2020 St. Pauls' Hospital Millennium Medical college (Sphmmc) Graduates

- 1 Dr. Getasew Tessaew
- 2 Dr. Bereket tsegaye
- 3 Dr. Teshale Lodamo
- 4 Dr. Netsanet Abebe
- 5 Dr. Aytegeb Ayehu
- 6 Dr. Samuel kebede

#### 2021 St. Pauls' Hospital Millennium Medical college (Sphmmc) Graduates

- 1 Dr. Ashenafi Ayalew Mihret
- 2 Dr. Ashenafi Udessa Biftu
- 3 Dr. Beza Gireff Tadesse
- 4 Dr. Habtewold Mulat Ayele
- 5 Dr. Idris Hassen Mussa
- 6 Dr. Kalkidan Ayalew Mulat
- 7 Dr. Meron Kelil Mohamed
- 8 Dr. Mulugeta Bekele Geneti
- 9 Dr. Sintayehu Tekle mamo
- 10 Dr. Soaleh Ebrahim Molla
- 11 Dr. Omer Mohamed Farah



## Sphmmc -R4

- 1 Dr. Alebachew Misgan
- 2 Dr. Anteneh Damena
- 3 Dr. Bekele Chimdesa
- 4 Dr. Berhanu Andarge
- 5 Dr. Bezayit Tesfaye
- 6 Dr. Cheru Beyene
- 7 Dr. Daniel Teklu
- 8 Dr. Dawit Alemayehu
- 9 Dr. Desta Girma
- 10 Dr. Endalamaw Fentie
- 11 Dr. Giday Zeru
- 12 Dr. Kirubel Girma
- 13 Dr. Leake Tirfe
- 14 Dr. Lelisa Merga
- 15 Dr. Sahle Tsegabrhan
- 16 Dr. Tolasa Dibisa
- 17 Dr. Tsegaw Tamene

## Sphmmc -R3

1. Dr. Abberu Eyasu
2. Dr. Samuel Workineh
3. Dr. Mateyas Bizualem
4. Dr. Sirage Abrew
5. Dr. Eyob Ketema
6. Dr. Yohannes Shugie
7. Dr. Ararso Gonfa
8. Dr. Sani Hussien
9. Dr. Fuad Elias
10. Dr. Gemechis Ragasa
11. Dr. Biniyam Tadesse
12. Dr. Teyib Ababiya
13. Dr. Lemessa Gonfa

## Sphmmc -R2

1. Dr. Amir Wodaje
2. Dr. Aragaw Kibret
3. Dr. Daniel Endale
4. Dr. Kajela Abu
5. Dr. Moti Mulatu
6. Dr. Senayad Benti
7. Dr. Tariku Beriso
8. Dr. Tesfatsion H/Michael
9. Dr. Teshome Eshetu
10. Dr. Tilahun Mulu
11. Dr. Tuji Mohammed

## Sphmmc -R2

1. Dr. Abubeker Shikur
2. Dr. Abdella Abdirahman
3. Dr. Bereket Argaw
4. Dr. Cherenet Fikadu
5. Dr. Eyoel Tesfaye
6. Dr. Nathan Wondwossen
7. Dr. Nessredin Ahmed
8. Dr. Salih Adem
9. Dr. Solomon Almar
10. Dr. Tsadiku Tsegaye
11. Dr. Yeabtsega Degu

## Bahir Dar University Residents

### (BDU)- R4

1. Dr. Aderaw Getie Mewahegn
2. Dr. Almar Bitew Asres
3. Dr. Bekalu Wubshet Zewudie
4. Dr. Binyam Biresaw Netsere
5. Dr. Birhanu Beza Tegegne
6. Dr. Daniel Adane Derso
7. Dr. Solomon Kassaye Enigida
8. Dr. Tafere Wasie Fentie

### BDU -R3

1. Dr. Mulate Abie |Mesele
2. Dr. Yeab Mulat Mesfin
3. Dr. Biniam Zemedu Assefa
4. Dr. Biruk Ferede Zewdu
5. Dr. Misganaw Alemu
6. Dr. Wubshet Aderaw Workneh
7. Dr. Gashaye tagele ayele
8. Dr. Getachew Wuhib Shumye

### BDU - R2

1. Dr. Solomone Melkamu
2. Dr. Birlew Tesome
3. Dr. Nagaasaa Habetamu
4. Dr. Abiy Misganaw
5. Dr. Diress Yeshaneh
6. Dr. Zerfu Bala
7. Dr. Dawit Asmamaw
8. Dr. Milkessa Hunde
9. Dr. Workineh Mengsha
10. Dr. Abrham Amare
11. Dr. Melkamu Adamu



## BDU - R1

1. Dr. Tsegalem Birlie Tesfaye
2. Dr. Mikias Hailu Sahl
3. Dr. Sabboona Idea Daba
4. Dr. Alemneh Zemene Kassa
5. Dr. Ephrem Bekele Kebede
6. Dr. Adugnaw Bogale Worku
7. Dr. Nuredin Hamid Mohammed

## 2021-Mekele University -Graduating Class

- 1 Dr. Aguer Ayul Warabek
- 2 Dr. G/Her Mahtsun
- 3 Dr. G/Michael Aregawi
- 4 Dr. Ketema H/mariam
- 5 Dr. Kout Mabior Leek Dang
- 6 Dr. Million Tareke
- 7 Dr. Solomon Ayele
- 8 Dr. Tewelde Nuguse

## Mekele University- R4

- 1 Dr. Kahsay G/aregawi Weldemihret
- 2 Dr. Goitom Brhane Gebreedziabher
- 3 Dr. Beyene Abebe Nrea
- 4 Dr. Kidanemariam Abrha Teka
- 5 Dr. Yohannes Gebremedhin Berhe

## Mekele University- R3

- 1 Dr. Berhe Birhane G/silassie
- 2 Dr. Biniam Assefa Alamer
- 3 Dr. Kibrom Hadush Syum
- 4 Dr. Solomon Tikur Gelaye
- 5 Dr. Tsegay Birhane Bisrat
- 6 Dr. Yasin Awil Elmi
- 7 Dr. Mohamed Mohamud Farah

## Members Trained in Orthopaedics Abroad

- |                            |                            |
|----------------------------|----------------------------|
| 1. Dr. Bahiru Bezabih      | 8. Dr. Tewodros Tilahun    |
| 2. Dr. Berhe Gebreselassie | 9. Dr. Tim Nun             |
| 3. Dr. Duane Anderson      | 10. Dr. Zegene Taye        |
| 4. Dr. Geoffery Walker     | 11. Dr. Amare Tessma       |
| 5. Dr. Lishan Assefa       | 12. Dr. Guetahoun Yetbarek |
| 6. Dr. Mesfin Etsub        | 13. Dr. Mengistu           |
| 7. Dr. Laurence wicks      | 14. Russian surgeons       |
|                            | 15. Korean surgeons        |

## Mekele University- R2

1. Dr. G/Yohannes Mezgebe
2. Dr. Teklebrhan G/Chirkos
3. Dr. Ridwan Mohammed
4. Dr. Ayalew Komandie
5. Dr. Mohammed Ahmed
6. Dr. Adamu Belete

## Mekele University- R1

1. Dr. Addis Abebe
2. Dr. Amana Bedasa
3. Dr. Biniyam Marie
4. Dr. Mengistu Gebeyehu
5. Dr. Mesay Tamirat
6. Dr. Tolosa Dinsa
7. Dr. Wondifrew Kebede

## University of Gondar (UOG) Residents

### R2-UOG

1. Dr. Desalegn Talu
2. Dr. Wodaje Mesele

### R1-UOG

1. Dr. Hailemariam Wuetu
2. Dr. Koyachew Abate
3. Dr. Demis Hailu

## Hawassa University -Residents

### R1-

1. Dr. Afework Mabrie
2. Dr. Biruk Dubale
3. Dr. Chanyalew Dires
4. Dr. Feysel Mifta
5. Dr. Hizkyas Kassaye
6. Dr. Peter Garang

## PAACS - SCH Residents-Soddo

1. Dr. Temesgen Zelalem (Final/5<sup>th</sup> year)
2. Dr. Abenezzer Eyasu (3<sup>rd</sup> year)
3. Dr. Yohannes Nigusu (2<sup>nd</sup> year)
4. Dr. Ebsa Bekako (R-1)

List of 400<sup>+</sup> Compiled by Dr. Tezera & Dr. Abebaw.M  
Thankyou !!!



## List of Full Research Articles accepted for oral presentation at the 15th ESOT AGM

1. Management of chronic Achilles Tendon rupture in resource limited settings using surgical technique of turndown flap
2. Prevalence of femur fracture at Black-lion Hospital (TASH)
2. Cerebral Palsy (CP) at TASH Pediatrics
3. DDD at Ortho-spine clinic in TASH
4. Development of mechanical NPWT in Ethiopia: Phase- II initiative
5. Outcome of Tibial # treated with FIN SIGN nail at AaBET Hospital
6. Mask utilization & physical distancing practices as Covid-19 Preventive measures at dlf Departments in TASH
7. BMD measurement using DEXA for OP in Ethiopian adults
8. Bone Setting Associated Disability (BOSAD) national multicenter study: A pilot phase preliminary report
9. Delayed presentation of open long bone fracture patients at two Ethiopian Tertiary hospitals
10. FRAX- Model for Ethiopia





## SUB-SPECIALITY Fellowships, the Way Forward at the “Mother” Department in AAU, TASH.

The “Mother” Orthopaedic Department at Black-Lion Hospital ( TASH) was established in September 1987 (34 Years young). Now we have FIVE more Departments running formal Orthopaedic Residency /Specialty Trainings in ETHIOPIA: AaBET in St. Paul’s , Mekele, BahirDar, Gondar and Hawassa University Hospitals. THREE More have applied and are awaiting approval.

Most, if not all teaching seniors /consultants at these Departments are proudly trained at Blacklion. Very few are now emerging to graduate with high scores from their own programs and are joining the staff pool.

Formal Residency matching in Ethiopia is run by MOH by assigning candidates who pass National Residency Matching Exam (NRME).

As a direction and policy, the Mother Department continues to have 40-50 Specializing brilliant Residents. But also makes sure to have strong Sub-Specialty Units. We have to train trainers of trainees. It is our belief that more Sub-specialists are needed for a better training and patient care. With this in mind the Mother Department has new FIVE slowly but strongly emerging units: Orthopaedic Trauma, Pediatric Orthopaedics, Ortho Spine, Ortho Oncology and Sport Medicine. All are run with a collaborating university abroad for a sandwich attachment of at least 6-9 months. It is our vision to have these 5-7 units of sub-specialization.

The First batch of Orthopaedic Trauma have completed their Subspecialty training. They stayed a little over two years because Covid-19 disrupted their attachment in Canada. Dr. Mnewer Yirga and Dr. Misgana Temesgen have now completed their sandwiched program in Toronto and are back here for their graduation. Welcome! Our Orthopaedic Trauma unit has also examined and interviewed candidates for third batch.

Pediatric Orthopaedics is awaiting for curriculum approval. Dr. Berhanu Ayana is back after completing his fellowship in CMC Vellore. Be ready to join.

Our Ortho-Spine unit has done many major Spine Surgeries this year. Our staff, Dr. Fre has just started his Spine fellowship in Nottingham UK, Congratulations. Dr. Eskindir, the unit head will join a fellowship in Canada in few months. This for sure will be a strong and timely unit.

Dr. Ermias Yigzaw, leader of our Ortho-Onco/reconstruction Unit, will complete his three years fantastic fellowship in Glasgow UK and will join us end of this year. What an asset!

Concerning Sport’s Medicine unit, the leader Dr. Melesse is waiting for resuming of his fellowship, amidst Covid-19. Other more units ( we have 13 Sub-Specialties) will follow later.

The lesson we learned is that with a serious commitment and international collaborator, it is possible to train 1-2 staff members abroad and design a curriculum adopted to our context and start a Sub-specialty to train 1-2 per year. This helps to have sup specialist faculty who move forward the local program. Government has to provide necessary equipment and implants so that the subspecialist saves unnecessary patient referrals for surgery abroad. Besides saving the scarce hard currency, standard treatment at home has numerous listed advantages!





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## TIKUR ANBESSA

SPECIALIZED HOSPITAL · SINCE 1972



Many donot know that the trauma unit morning session at Black lion starts of 7a.m. Fantastic unit!



These two years ,six Masters and two Ph.D. researches are completed in the Mother Department.



Orthopaedic Trauma & Arthroplasty Surgeons. Mnewer & Misgana Welcome Back from Canada!

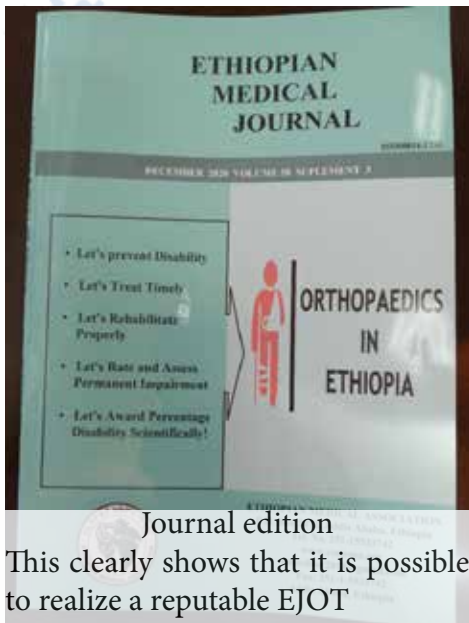




### Kampala, UGANDA :

COSECSA-2019 graduation went Very well. Proud of all Our residents!

2020 & 21 were a challenge (covid)



Journal edition

This clearly shows that it is possible to realize a reputable EJOT



Last week

The Orthospine units of Black lion and st.pauls Hospitals have undergone scoliosis screening campaign in DebreBirhan & performed scoliosis correction surgeries at AaBET Hospital.

Thank you JDC



## Nursing Care is Crucial Part of Orthopaedic Service



The Renowned  
Dr. Shawn O'Driscoll



*We miss you Dr. Rick*





The Mother Department at Blacklion renovated its own building & Anatomy Department. Thank you Berhan Bank ,ADFA & AOA.



External & Internal Examiners



## St Paul millennium medical college AaBET Hospital

The orthopedics and Traumatology department of Saint Paul's Hospital Millennium Medical College at Addis Abeba Burn, Emergency and Trauma (AaBET) Hospital was established in 2015 and started its postgraduate program same year.

The Department head stated that In the past 2 years the following happened:

1. Two of the orthopedic surgeons have been trained as arthroplasty and trauma surgery abroad. We have started pelvic and acetabular surgery.
2. Two of orthopedic surgeons have been trained in sport and arthroscopic surgery. We have been treating patients with sport injuries. It is now one of the emerging strong unit we have.
3. We have graduated two batches of orthopedic surgery residents. The first batch had 6 candidates among which one is female. The second batch was composed of 12 candidates again with only one female graduate.
4. From the last batch, all 4 Ethiopian Examinees have passed the COSECSA Exam in Rwanda.
5. Recently, One staff Orthopaedic surgeon got trained in Physical Medicine and Rehabilitation.

## Sport and arthroscopy unit at AaBET Hospital, St. Paul.

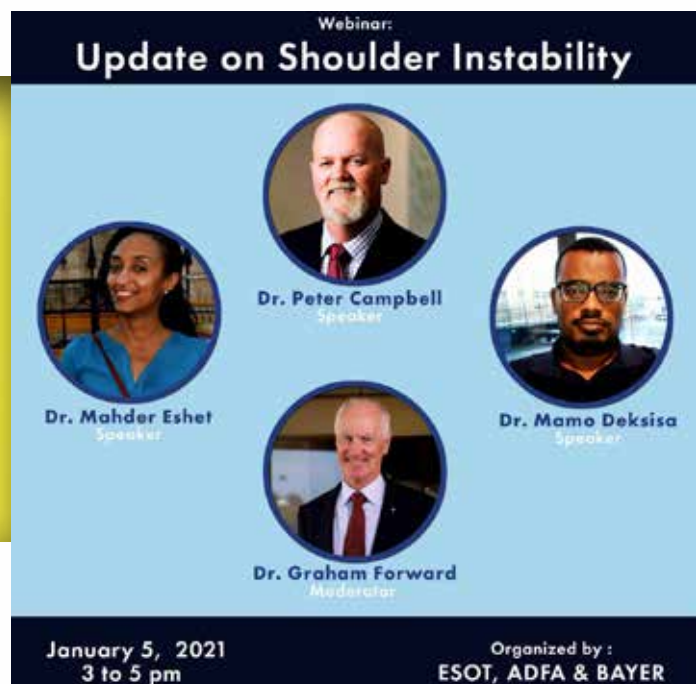
AaBET hospital has officially started sport and arthroscopy services on may 2020 ,mainly addressing sport and sport related injury by two fellowship trained sport surgeon Dr. Mamo Deksis and Dr. Mahder Eshete. Since establishment, the unit is addressing the following sport injuries:

- 1,Knee Injuries (knee ligament reconstruction, mensicetomy mensical repair,OCD Rx,MPFL reconstruction, osteotomy)
- 2,Shoulder Problems(LaterJet Procedure, AC reconstruction, cuff repair)
- 3,Ankle injuries (ankle ligament injuries)



ESOT suggests that Ortho Sports Unit strongly emerges& Nationally/ Internationally represent us by caring for our Athletes.FORWARD!

Webinar:  
**Update on Shoulder Instability**



Dr. Peter Campbell  
Speaker

Dr. Mamo Deksis  
Speaker

Dr. Mahder Eshet  
Speaker

Dr. Graham Forward  
Moderator

January 5, 2021  
3 to 5 pm

Organized by :  
ESOT, ADFA & BAYER

## Primary Trauma Care course delivered in Bahirdar, Tibebeghion Specialized Referral Hospital



**Photo 1: Demonstration in teams**



**Photo 2: Demonstration in teams**

The Primary Trauma Care Foundation is an organization set up by clinicians to train Doctors and other Health Care Professionals in the management of the severely injured patients in low and middle income countries. It was founded by a small group of doctors led by Oxford-based consultant anaesthetist Dr Douglas Wilkinson 24 years back.

The PTC course is a two-day trauma training course, to train health professionals in a systematic approach to the clinical needs of a severely injured patient. A one-day instructor course is held on day three, whereby those successful students and those wishing to become instructors learn how to teach through interactive, modern skill sets.

The PTC course in bahirdar came about after visit of a team of orthopedic surgeons from severn deanery bristol led by a senior orthopedic surgeon called Mr David woods on january and February 2019. As part of the third visit, a formal PTC course was requested.

The course was delivered by a team of physicians from severn deanery postgraduate school of medicine based in bristol city, south west of England in collaboration with the department of orthopedics and traumatology in Tibebeghion referral hospital. It was planned in the UK by Dr Ruth Spencer (anaesthetics) and Mr James Berwin (orthopaedics registrar).

The course was a four days training held from september 30-october 4 2019 in two rounds delivered for 47 health professionals comprised of ortho-

pedic surgeons, general surgeons, orthopedic residents, general surgery residents, anesthetists and nurses working in Tibebeghion referral hospital. It was held in two teams and two rounds and trained 21 people on the first round, selected 6 instructors and then taught another 26 on the second round.

The first day was dedicated for scientific presentations with projector on different cases of severe trauma management and the second for demonstrations after the team was divided in groups of five, each containing surgeons, anaesthetists, nurses and a senior member of both the UK team and the Ethiopian team.

This was a highly successful course and has come at the perfect time for the hospital. After teaching on days 4/5 the new trainers had already selected the next 6 people to do the instructors course and had set a date the



following week to teach them.

The trainees were very happy and satisfied about the training as they were optimistic that it will have a great impact in improving their skill of managing severely injured trauma patients in their future carrier.

## First Batch Orthopedics Surgery Graduates of Bahirdar University, Orthopedics & Traumatology Department



**Photo I: Graduates with their Examiners**

Department of Orthopedics Surgery graduated its First Batch of Orthopedics Residents on December 2019 after its official establishment in 2014. About 8 residents graduated from the department after successful completion of their 4 years training and final qualification exam by external examiners H.E Dr Biruk Lambisso and Dr Samuel Hailu from Blacklion Teaching Specialized Hospital and Dr Richard Gardner From Cure International Hospital. The department is currently enrolling 31 orthopedics residents under the supervision of 8 general orthopedics surgeons and 1 pediatric orthopedic surgeon.



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**Pioneer Diagnostic Center**

**HELPING DOCTORS HELP PATIENTS**

## BOSAD National kick off Meeting held at Hawassa, July 10/2021

Traditional bone setting is an ancient practice in Africa and many developing countries with a very high level of patronage although this practice is often associated with several complications. Ethiopia, like many of the low income countries has a long history with the practice of Bone setting though the prevalence of the practice and possible complications have not been studied at a national level.

It is to be recalled that a national study on the Bone Setting Associated Disability, “BOSAD” have been designed to answer the long awaited gaps in the prevalence of complications of Bone setters’ practice.

The study is the first of its kind in the way it is designed.



The study is a prospective cohort with mixed Quantitative and Qualitative study design system and involvement of eight tertiary medical centers for data collection and it will run for a course of three years. The pilot phase of the study has been completed over six months’ period and a verified website, BOSAD study.com, has been prepared for the complex data collection.

A national study kick-off meeting was arranged by the host center of the study, Department of Orthopedics and Traumatology, Hawassa university at Hawassa in July 10/2021. All the eight participant centers of the study, namely University Hospitals of Jimma, Wachamo, Haromiya, Jigjiga, Assela, Gondar and Bahirdar were represented by the Principal investigators and Data collectors along with sole financial supporter, AO-Alliance national coordinator, Mss Tigist Gelaglie.

It was a one-day meeting which brought all participants to be familiar with the Database Data collection tool and all the variables of the study. Besides, Different Digital Data collection materials were handed over to all study partners and Memorandum of Understanding was signed by all stakeholders of the study.





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E-mail: [info@infinity-et.com](mailto:info@infinity-et.com)  
<http://www.infinity-et.com>

DAY 1 ( 25 AUG 2021)

No.	Activity/ Topic	Presenter	Time	Moderator
1.	Introduction	Dr. Nardos	8:00 am	Dr. Nardos
2.	Presidential speech	Dr. Geletaw	8:05	
3.	Welcome and opening speech	H.E.Dr. Lia T.	8:10	Dr. Geletaw
4.	Principles of management of ballistic limb injurie: Part I	Dr. Richard Gosselin	8:30	Dr. Samuel H
5.	discussion		9:00	
6.	Principles of management of ballistic limb injurie: Part II	Dr. Richard Gosselin	9:15	
7.	Experience/report from Gondar & Dessie	Dr. Kaleab / Semir	9:45	Dr. Biruk L
8.	Army Hospitals	Dr. Samuel T	10:10	Dr. Kidanu
9.	<b>Tea Break</b>		<b>10:30</b>	
10.	Panel discussion: ESOT (Geletaw), Emergency directorate (Alegnta), Clinical Service directorate, Rehabilitation team director (Abas), Advisor (Dr Sisay), DMAT(Woldesenbet), Gondar (Kaleab), Dessie(Semir), EPA (Jemila), POC(Ashebir), ICRC (Endalkachew), Emergency Society ( )	5-10 minutes for each	11:00	Dr. Biruk L.
	<b>LUNCH</b>		<b>12:30</b>	
11.	Wrist instability	Dr Paul Jarrett	13.30	Graham/Mamo
12.	Carpal bone fracture	Dr Paul Jarrett	13.55	
13.	Terrible triad elbow	Prof Andrew Mattin	14.30	
14.	Radial head and neck fracture	Prof Andrew Mattin	14.50	
15.	Monteggia fracture dislocation	Dr Aaron Tay	15.15	
16.	Distal humerus fracture	Dr Travis Falconer	15.40	
17.	<b>Tea Break</b>		<b>16:00</b>	





DAY 2 (26 AUG 2021)

No.	Topics	Presenter	time	moderator
1)	Prevalence of femur fracture	Samuel Derba	8:00 am	Ebrahim
2)	Management of chronic Achilles Tendon rupture in resource limited settings using surgical technique of turn-down flap	Dr.Mengistu	8:10	
3)	Outcome of Tibial fracture treated with FIN SIGN nail at AaBET	Dr.Cheru	8:20	
	Discussion		8:30	
4)	Development of Mechanical NPWT in Ethiopia: phase II initiative	Dr.Bezawit	8:45	Milkias
5)	Bone Setting Associated Disability (BOSAD) national multicenter study: A pilot phase preliminary report	Dr.Mengistu	8:55	
6)	Delayed presentation of open long bone fracture patients at two Ethiopian Tertiary hospitals	Dr.Mengistu	9:05	
	Discussion		9:15	
7)	DEXA for Osteoporosis in Ethiopia	Dr.Alpha	9:30	Biruk L
8)	A Surrogate FRAX Model in Ethiopia	Dr.Sami H.	9:40	
	Discussion		9:50	
	<b>Tea Break</b>		<b>10:00</b>	
9)	CP at TASH Pediatrics	Fikerselam		Dr.Leul/ Eskinder
10)	DDD at Ortho spine clinic in TASH	Dureti	10:30	
11)	Mask Utilization & Physical distancing at d/t departments in TASH	Dr.Natan	10:40	
	Discussion		10:50	
	Case discussions	Laurence/ Beza	11:00	Nardos / Tewodros T
	<b>Lunch</b>		<b>12:30</b>	
	<b>AGM</b>	<b>Auditor ESOT EC</b>	<b>1 PM</b>	Dr. Geletaw





# DROGA GROUP

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- **7** Regional representatives
- **15 Million** USD Annual Turn Over





## Orthopedics in Gondar: New Beginnings

### The History

University of Gondar is one of the oldest higher education institutions in Ethiopia, since its establishment in 1954. Even though it started out as Public Health College and Training Center (PHC & TC) in joint effort between the Imperial Ethiopian government, WHO, United States Operation Mission to Ethiopia, and UNICE. It has now grown to have 11 colleges/schools/institutes under it.

One of the schools, School of Medicine and Health Sciences has 38 postgraduate programs. And it has been a teaching hub for multiple undergraduate and postgraduate students with a sparkling track record in the medical and health science fields. Despite its enormous size it only has one University Hospital under it for the whole of Gondar, with a catchment population of 5-7mill.

As old as the University is and as much older the practice of Orthopedics is, over the years there hasn't been a much progress in the specialty at the university. This is mainly attributed to lack of a residing trained manpower I.e an orthopedic surgeon and sever limitation of resources along with a general lack of awareness about proper orthopedic care by the previous administrations.

Patients requiring orthopedic and orthopedic emergency treatments were treated by mainly general surgeons and a general surgeon with some training in orthopedic emergency management.



## The Now

In the past three years immense progress has been witnessed in the specialty. The newly formed orthopedic department now has 6 staff consultants. It also has a blooming residency program that just accepted its second batch of residents in 2021. It has its own orthopedic ward a dedicated elective and emergency table in an excellent standard theater along with many basic and some advanced orthopedic instruments.

The burden of Orthopedic patients has been getting higher by the day due to unrest and ongoing conflict that has been worsening over the past 4 years in the area .



In the year 2020 from the month of January to December about 1010 patients visited our emergency with orthopedic emergency problems. Compared to 2020, in 2021 from January till end of July 4500 emergency orthopedic patients were seen. This alarming increase in patient number goes to show how important it is to invest in the development of orthopedic practices at the university. Despite this burden, the newly established department has shown an impeccable performance

towards patient care. This effort was recognized by the university along with the Ministry of Defense and was given a certificate of recognition and an award.

## The Future

Although, there's a long way to go for the department and our Country as a whole towards an improved orthopedic patient care, the future seems to be quiet promising. Along with young enthusiastic surgeons and a promising support by the university administration and multiple local and international partners, there is a lot of hope for growth in the future.

Last but not least

The department would like to acknowledge its esteemed department members for their limitless dedication and professionalism. And would like to recognize our partners: LGOP, SIGN Fracture Care International, CURE Ethiopia Children's Hospital, AO Alliance and ADFA for all their contributions to its current success.



By Dr. Ananya K



Orthoplasty initiative in Ethiopia. This Article gives an insight.

## Education and Training in Orthopaedic Oncology in Ethiopia; CURE & Black Lion Hospital COSECSA Courses

Mr CLMH Gibbons MA FRCS, Mr D Whitwell FRCS (Orth) Prof D Woods FRACS, FEM Gibbons BSc, Dr Biruk L Wamisho FCS(Ortho)  
Dr Geletaw Tessema MD, Dr Rick Gardner FRCS (Orth).

### **Introduction**

The first Orthopaedic Oncology Course was in 2015 at CURE Ethiopia Children's Hospital and Tikur Anbessa Specialised Hospital (TASH), followed by further courses in 2017, 2018 with the fourth course planned for 2021.

In 2012 the College of Surgeons of East Central and Southern Africa (COSECSA) with Oxford University established the first Paediatric Trauma and Orthopaedic Surgery Course. The Programme was proposed to improve trauma management in sub-Saharan Africa through Education, Training and Research.

The link is supported by United Kingdom Department for International Development and is based on British Orthopaedic Association (BOA) and Royal College of Surgeons (FRCS) surgical training programmes. The success of the initial course was expanded to provide training courses in paediatric orthopaedics, deformity correction and in hip and knee arthroplasty, all with practical sessions.

Orthopaedic surgical training in Ethiopia is developing to meet the increasing demand and surgical needs of a young population of 100+million (19yr = median) needing specialist care in paediatric trauma, chronic bone infection, deformity correction as well as in the management of musculoskeletal tumours.

With an established oncology service at Tikur Anbessa Specialised Hospital, there is a desire to train the next generation of orthopaedic surgeons to specialise in the management of musculoskeletal tumours. Due to advanced disease at initial presentation, the need for specialist expertise and lack of availability of implants and bone substitutes, the surgical management of malignant primary bone tumours in Ethiopia is primarily amputation.

In response to a request from local surgeons at Tikur Anbessa Specialised Hospital and CURE hospital for a training course targeting orthopaedic residents that would focus on musculoskeletal tumour management, flaps and surgical techniques in limb sparing surgery, a practical course in orthopaedic oncology was proposed.

### **Faculty & Delegates**

The Faculty comprises of surgeons from Addis Ababa University Hospital and CURE Ethiopia Children's Hospital with visiting specialist orthopaedic and plastic surgeons from the University of Oxford and Perth WA.

Delegates are limited to 35-40 senior orthopaedic residents. All participants complete a pre-and post-course MCQ comprising of 20 questions based on the course content and surgical anatomy. The course is based on the FRCS Orthopaedic Examination Teaching Programme and is open to orthopaedic residents, recently appointed consultants and those with an in-



Fig. 1 Delegates and faculty at Tikur Anbessa Specialised Hospital in 2017



terest in orthopaedic oncology and reconstructive surgery.

## Programme

The mandatory pre-course MCQ scores range between 30-75% with the post scores range 65-95%. Certificates are awarded on successful completion of the module.

Lectures are undertaken in the morning sessions, followed by afternoon cadaveric dissection to highlight relevant surgical anatomy and approaches; providing a comprehensive 3-day overview in the diagnostic principles and management of musculoskeletal pathology.

The importance of the multidisciplinary team in the diagnosis and management of musculoskeletal tumours is emphasised with illustrated lectures on the pathology, musculoskeletal imaging and oncological/surgical management.

Fig. 3 Primary Bone Tumour Case Discussion



The interactive sessions include small-group case review discussions (figure 3), surgical approaches and techniques highlighting the key concepts, tips and tricks in orthopaedic surgical oncology.

Faculty present FRCS examination cases for discussion, while local surgeons present current cases and those previously managed for discussion on optimal management.

## Cadaveric dissection

The practical sessions are supervised by the faculty. Surgical approaches are performed by delegates on prepared cadavers in the Department of Anatomy at the Tikur Anbessa Specialised Hospital (figure 4). The afternoon sessions are divided over 3 days into upper and lower limb approaches, joint replacement surgery, pelvic exposure and amputation. This allows unique experience in safe surgical

exposure as well as more complex techniques in the performing forequarter and hindquarter amputation in the Hunterian tradition.



Fig. 4 Anatomy and Approaches

The final practical session focussed on raising common flaps, with all trainees expected to perform a clean medial gastrocnemius flap technique scored by the examiners (Fig 5). Feedback confirmed the value of the practical sessions where flap techniques were demonstrated. These techniques were later successfully used by delegates to treat a patient with upper limb bone/soft tissue loss from a crocodile bite, as well as a patient need-



ing a hindquarter amputation for pelvic osteosarcoma.

The surgical management of malignant bone tumours in Ethiopia, as it was historically in the UK, often requires amputation due to advanced presentation and the limited ability to offer limb sparing surgery utilising endoprosthetic replacement. These courses are aimed to highlight alternative biological and orthoplastic techniques, as well as developing the delegates ability to manage challenging cases.

## Developments

The established course has, by request of COSECSA, been expanded to other affiliated training centres, including the Cancer Diseases Hospital Lusaka in 2019

The Sarcoma Surgical Experience in Ethiopia was presented by Dr. Ermias ( Ready to join the Orthopaedic Oncology & Reconstruction Fellowship in UK, Glasgow), showing the application and development of new reconstructive techniques (Fig. 6) in limb salvage and the extended use of soft tissue reconstruction for soft tissue tumours, burns and trauma surgery (Fig. 7).

Fig 6. A case from Tikur Anbessa Specialised Hospital: Sarcoma resection with limb-sparing reconstruction, (left)

Fig 7 Biological fibula graft used for shoulder reconstruction (right)

### Course Feedback

Delegate Feedback is key in improvement of course and content and is also used to appreciate local surgical developments in tumour management.

Updates and presentations on surgical pathology and medical oncology at Tikur Anbessa Specialised Hospital emphasised the importance of an integrated and dedicated MDT and how the application of new surgical techniques of biological reconstruction (with fibula graft) and the use of bone cement in segmental defects and joint reconstruction is being used to avoid amputation.

In addition to surgical approaches, regional anaesthesia techniques with practical cadaver demonstrations are performed by delegates and Faculty. The first endoprosthetic replacement in an 18-year-old male with an advanced giant cell tumour (Fig. 9 &10) affecting the distal femur was undertaken at CURE Hospital after the 2016 Course. Two further endoprosthetic replacements have since been performed.

This has led to a Global Surgery Initiative with Perth (Australia), Oxford University and industry suppliers (Stanmore/Stryker and Signature Orthopaedics) to design and provide an



affordable implant system available in Africa for bone tumour and arthroplasty surgery. This remains work in progress and we anticipate the production of an affordable distal femoral replacement in the future. A RCS National Diploma in Orthopaedic Oncology was approved in June 2020 and will be available to surgeons in

training through the COSECSA Oxford University Link 6.

## Conclusion:

The collaboration of Oxford University, Tikur Anbessa Specialised Hospital and industry continues to bear fruit. We look forward to developing these partnerships further to improve both training and patient care.

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Fig. 9 Giant Cell Tumour of Bone and endoprosthetic replacement in an 18-year-old male.



**AAU/TASH Ortho Trauma Unit,**  
A formidable sub-specialists front,  
for complex fracture Treatment!



## New Residency program launched at Hawassa in 2021

It is now six solid years since Orthopedics & Traumatology service at Hawassa University is being delivered under an independent unit. The service has been expanded over the years and a new academic program in the form of Orthopedics and Traumatology has been launched this year. The first batch of six residents including one South Sudanese are already on the track of their dream of this prestigious field. The program has gone through all the steps curriculum revision over two years' period in the university and finally the University senate has approved the modified nationally Harmonized curriculum and on the process the Unit has by default climbed to a status of Department being staffed by five full time Faculty members and few more already on the pipeline.

The department of Orthopedics and Traumatology of Hawassa university would like to extend its appreciation to the mother Department of Addis Ababa University, our society ESOT, Department of Surgery of Hawassa university and the different foreign partners for their big share of this success. It is Our big hope to produce high caliber Orthopedics surgeons.



By: Ephrem G



## Short Story of Wachemo University Nigist Elleni Mohammed Memorial Comprehensive Specialized Hospital Orthopaedic Surgery.

Nigist Elleni Mohammed Memorial Comprehensive Specialized Hospital was built in 1976 E.C by the contribution of the society of Hadiya and Kambata. It was named after President Mengistu Hailemariam and initially called Mengistu Hailemariam General Hospital. The hospital was among few hospitals during Dergue Reign. Throughout 34 years there was no Orthopaedic Surgery Service in the hospital and within 100 kilometer radius. The hospital was built to serve around 3.5 million population. Over the years there has been a lot of improvements and expansion of services. The Orthopaedic Surgery Service started by the initiative of Dr Habtamu Tamrat who was Final Year Resident from Addis Ababa University. He took an initiative to establish Orthopaedic Service in his month off on September, 2018 G.C. The first Orthopaedic Surgery in Nigist Elleni Mohammed Memorial Comprehensive Specialized Hospital was done in September 15, 2018. Dr Habtamu Tamrat took half of the wards from General Surgery and started to practice. Then for the next few months other Orthopaedic Surgery Residents were having rotations on their month off till Dr Habtamu Tamrat finished his Residency. On December, 2018 Dr Habtamu Tamrat moved to Hossana and started to strengthen an infant Orthopaedic Surgery Practice. Since there was no dedicated Orthopaedic ward, sometimes patients load will increase and our patients will occupy the whole general surgery wards where most arguments and dialogue starts. We were able to negotiate with our university management to purchase some of orthopaedic surgery equipment's and implants explaining the rapidly increasing Road Traffic Accident Rate in the region through which we started our practice. After two months of practice, we were able to meet ADFA and AO Alliance in Addis Ababa and they agreed to establish the newly started Orthopaedic Surgery Center. Sr Eyerusalem Amenu joined our hospital for one month together with other ADFA team to train our staffs were our ORPs and Ward Nurses got hands on experience. There was also group of expert's from ADFA and they have had consultations and have operated more than 20 patients during their stay. Our University President gave special attention to establish and strengthen Orthopaedic and Trauma Center. The management decided to build a separate building dedicated for Orthopaedic Surgery and Traumatology service. Initially we were given one orthopaedic dedicated Operating Theatre and ward with 20 beds for orthopaedic Surgery service. After one and half year service were able to have dedicated two Orthopaedic Surgery Operating Theatres and Separate ward with 45 Beds and Minor OR. ADFA have donated a 40 feet Medical equipment's and supplies to strengthen our centre and AO Alliance have also donated long list of Orthopaedic Implants and Equipment's through ESOT. During the era of COVID 19 Pandemic both ADFA and AO Alliance have shown us strong partnership, donating Personal Protective Equipment's for our centre so that the service delivery and professionals will not be affected. Our Service was also further strengthened by having Dr Matiyas Seid who is an Orthopaedic Surgeon graduated from Addis Ababa University in November, 2020 and he is currently head of the department of Orthopaedic Surgery and Traumatology. We are also having Addis Ababa University third and fourth Year Orthopaedic Surgery Residents attachment which has monthly rotation. Orthopaedic Surgery and Traumatology Unit is radically changed giving quality of most of Orthopaedic Surgery Services including Hemiarthroplasties. Previously our unit was under department of General Surgery, but it has been three months since it is named as Department of Orthopaedic Surgery and Traumatology. We have high trauma burden and we have done need



assessment and we are on preparation to start residency on 2015. SIGN Fracture Care International have also started to donate SIGN Nails and implants since few months back by the help of ESOT (Dr Biruk L., Dr Samuel H., Dr Geletaw T., Dr Ephrem G., and Dr Duane A.) I would like to appreciate Dr Loch Trimmingham, Dr Lewis Zerkile, Naton, AO Alliance, ADFA and ESOT on behalf of my department and my institution.

Best Regards,

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**bilim**  
PHARMACEUTICALS



## The AO Alliance Ethiopia Country Initiative

Trauma and orthopedic (T&O) surgery and training continue to make great strides in Ethiopia with newly qualified consultants driving things forward. There are now two large training centres in Addis Ababa – based out of the Tikur Anbessa Specialized Hospital (Addis Ababa University) and AaBET Hospital in Addis Ababa. There are also training programs established in Bahir Dar, Mekele, Hawassa and Gondar. The need to support these training programs, and their many trainees, continues.

Development of pelvic and acetabular (P&A) surgery



Since 2015, the AO Alliance and its partners have been supporting young T&O surgeons to develop a high-performance trauma team in Hawassa and building local capacity in fracture care management, as part of the government's efforts to decentralize the public trauma system. This team, led by Dr Ephrem Gebrehana, is now carrying out about 1,500 surgical fracture fixation cases per year. In addition, the Hawassa University Specialized Comprehensive Hospital has a new dedicated operating theatre for trauma and orthopedics, with two dedicated T&O wards—one for adults and one for children.

Dr Gebrehana returned to Hawassa this year, after doing a year-long pelvic and acetabulum (P&A) fellowship in Assiut, Egypt in 2020. To execute P&A surgery, and many other surgical fracture fixation procedures properly, an equipment upgrade at the hospital is essential. In May of 2021, the AO Alliance and partners, Australian Doctors for Africa, and the Northwest Orthopaedics Trauma Alliance for Africa, launched campaigns to raise funds to purchase a new c-arm, image intensifying machine, for Hawassa University Comprehensive Specialized Hospital. The cooperative effort of the three organizations has led to a comprehensive P&A service in Hawassa being established.

In addition to supporting the surgical education of trainees in principles of fracture management, the AO Alliance has also supported the development of P&A surgery in Addis Ababa. Drs Geletaw Tessema and Samuel Hailu each completed a one-year fellowship in Toronto, Canada in P&A surgery, and hip arthroplasty, following their residency at the Tikur Anbessa Specialized Hospital (Addis Ababa University). Using their training as a springboard, Tikur Anbessa Specialized Hospital launched a P&A surgery trauma fellowship. The first two fellows were enrolled in 2019 and two additional ones in 2020. The AO Alliance directly supports the P&A fellowships set up and accredited by the Federal Ministry of Health.

Bonesetter Associated Disability (BOSAD) program: The AO Alliance systems change initiative to integrate traditional bonesetters into the Ethiopian healthcare system





Traditional bonesetters (TBS) play a significant role in caring for the injured, particularly for pediatric patients, and especially in rural areas. Sadly, however, they often end up doing more harm than good.

The BOSAD program is the first country-wide prospective cohort clinical study to collect cases on complications from TBS practice, and analyze the care-seeking behavior of patients who turn to TBS. The study's findings will inform the feasibility of formally training TBS, with the aim of subsequently integrating them into the national healthcare system. By training and integrating TBS, the overarching goal is to prevent catastrophic complications causing significant disabilities and amputations among the country's most vulnerable populations.

The study involves data collection from seven tertiary research centers and will run for three years. The pilot phase of the study has been completed, and a verified website has been set up for complex data collection.

On July 10, 2021, the Department of Orthopedics and Traumatology at Hawassa University Comprehensive Specialized Hospital hosted the study kick-off meeting, where participants from the eight hospitals gathered to discuss the database, data collection tools and all the variables of the study. To learn more about the program, visit <https://bosadstudy.com>.



## Mekle Uiversity-Ayder Hospital Department of Orthopadics

For months, the mother Department is having difficult connection by e-mail & phones. Physically we sent Masks, implannts and fracture equipment few weeks back from ADFA, SIGN & the mother Departments in Black lion. Last week Black lion's Orthopaedic Department has received six(6) Orthopedic residents trans ferred from Mekele.





## The AO Alliance book

To mark the first six years of existence, AO Alliance of Rolf M Jeker, and former members Jaime document the history and evolution the contribution of the AO Society to advancing fracture care economic burden of countries. The authors describe the process leading to the creation of the AO Alliance, its governance, funding, and its progress, and its future.

The book is available to read here: <https://bit.ly/3xYrUR1>. See page 192 for information about the Ethiopia Country Initiative.

ance board members, under the leadership of Rolf M Jeker, and former members Jaime Quintero and Joachim Prein, elected to the AO Alliance. The book explores the socio-economic burden of injury and disability in LMICs, analyzing the human and economic burden of injury and disability in these countries. The authors describe the process leading to the creation of the AO Alliance, its governance, funding, and its progress, and its future.



freely available at: <https://bit.ly/3xYrUR1>. See page 192 for information about the Ethiopia Country Initiative.



Even during Covid peak months, our four main partners kept their support & collaboration . Million Thanks!

- SIGN (USA)
- AO (Switzerland)
- ADFA (Australia)
- WOC (UK)
- SAO/RHO (USA)



**AO  
ALLIANCE**



**SIGN**  
FRACTURE CARE  
INTERNATIONAL





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የአጥንት ህክምና በአለም ላይ ጥንት ይሰራበት ከነበረው በየጊዜው እየሻሻለ ሄዷል፡፡ አሁን አሁን የአጥንት ህክምና ዘመናዊ ቴክኖሎጂ ተለያይተው አይሄዱም፡፡ በሀገራችን የአጥንት ህክምና የዚህ ዘመናዊ ቴክኖሎጂ ተቋማት ለመሆን የሚደረገው ጥረት እስካሁን በጅምር ደረጃ ላይ ነው፡፡ የሀገራችን የአጥንት ህክምናም ይህንን ቴክኖሎጂ በብቃት ለመጠቀም አልቻሉም፡፡ በሌሎች ሀገራት ያለውን ስንቃኝ ከእኛ ሀገር የተሻለ የቴክኖሎጂ አቅርቦት አላቸው፡፡

የሀገራችን የአጥንት ህክምና በወጭ ሀገራት በመስራት የሚያገኙት የእውቀትና ክህሎት ደረጃ ምን ይመስላል ለሚለው የአጥንት ህክምና ሀገራት በተለያዩ ሀገራት የሚሰሩ የሌሎች አባላት አንዳሉ ቢታወቅም ለዚህ አትም ከዶ/ር መኮንን ወርዶፋና ዶ/ር ፍስሃ በቀለ ጋር ቆይታ አድርገው፡፡

ዶ/ር መኮንን ወርዶፋ የተወለደው በአሰላ ከተማ ነው፡፡ የመጀመሪያና ሁለተኛ ትምህርቱን በዛው ትውልድ ከተማው ካጠናቀቀ በኋላ በአፍላ አድሚው ውትድርና ገባ፡፡ የልጅነት ህልሙ አብራራ (ፓይለት)፤ ህክምና መምህር፤ አግር ኳስ ተጫዋችና ወታደር መሆን ነበር፡፡ ከሁለት አመት የውትድርና ዓለም ልዩ ኮማንዶ ስልጠና በኋላ የስራው ፀሐይ ከተማ ስለሆነለት በማታው የትምህርት ጊዜ ተከታትሎ 12ተኛ ክፍልን በ197 ዓ.ም አጠናቀቀ፡፡ የከፍተኛ ትምህርቱንም በጎንደር ጤና ሳይንስ ኮሌጅ በሳኒቴሪ ሳይንስ ለዲፕሎማ ከተማረ በኋላ ለባችለር ዲግሪ ተምህርት ወደ ህንድ ሀገር ተላከ፡፡ የዶ/ር መኮንን የወጭ ሀገራት ልምድ ከዚህ ጊዜ ይጀምራል፡፡ የሳኒቴሪ ሳይንስ ትምህርቱን እንዳጠናቀቀ አዛው ህንድ ሀገር በመቆየት የህክምና ትምህርቱን ተከታትሎ፡፡ በህክምና እንደተመረቀም በአንዳንድ የአሰያ ሀገራት ተዘዋውሮ በህክምና ካገለገለ በኋላ እውቀቱና ልምድ አካብቶ ወደ ሀገሩ ተመለሰ፡፡

በ1990 ዓ.ም ወደ ሀገሩ ከተመለሰ በኋላ አዲስ አበባ ውስጥ በተለያዩ ሆስፒታሎች በመዘዋወር ለአንድ ዓመት ያህል ሲሰራ ቆየ፡፡ በኢትዮ-ኤርትራ ጦርነት ወቅትም ሰራዊቱን በመቀላቀል በግዳጅ ላይ ተሰማርቶ ቆየ፡፡

### ከኢሶት መጽሔት 2004/2005 የተወሰደ from Esot Magazin 2012/2013

ከ1993 ዓ.ም ጀምሮ የጦር ሃይሎች ሆስፒታል ሀኪም ሆኖ እስከ 1996 ዓ.ም አገልግሎ በዛው ዓመት የአጥንት ህክምና ትምህርት ለመከታተል እ.አ.አ የንሸርስቲ አርቶፔዲክስ ዲፓርትመንት ገባ፡፡

የአጥንት ህክምና ትምህርቱን እንዳጠናቀቀ ወደ ጦር ሃይሎች ሆስፒታል ተመልሶ በአጥንት ሀኪምነትና በመከላከያ ጤና ሳይንስ ኮሌጅ ውስጥ በመምህርነት እያገለገለ ሳለ በአዲሲቷ ደቡብ ሱዳንና በሱዳን መካከል በተቀሰቀሰው ግጭት ምክንያት የኢትዮጵያ ሰራዊትን በመወከል በተባበሩት መንግስታት ድርጅት የፀጥታውም ምክር ቤት አማካኝነት እቤይ ተብላ በምትጠራው ግዛት በተባበሩት መንግስታት ሆስፒታል ለአንድ ዓመት ያህል ሲሰራ ቆየ፡፡ ዶ/ር መኮንን ስለቆይታው ሲገልፅ “ከሀገራችን የሄደው የህክምና ቡድን አባላት 63 ነው፡፡ እቤይ ሚገኘው የተባበሩት መንግስታት ሆስፒታል በጣም የተደራጀ ነው፡፡ የአርቶፔዲክስ ህክምና ዕቃዎች ችግር በፍፁም የለም፡፡ የጠየቅነው በፍጥነትና በዓይነት ይቀርባል፡፡ እኔ የምሰራው በሰርጂካል ዲፓርትመንት ውስጥ ሲሆን ብቸኛው የአጥንት ሀኪም ነኝ፡፡ የሚያጋጥሙን ጉዳዮች ብዙ አይነት ናቸው፡፡ የምናከመውም በጦርነቱ ያሉትን ተዋጊዎች፤ ሰላማዊ ሀዘቡንና የእኛንም ሰራዊት አባላት ነው፡፡”

ዶ/ር መኮንን በእቤይ ግዛት ቆይታው ስለ ልምድ ማዳበር እድል ጨምሮ ሲገልፅ እንዲህ ይላል በዚህ ሆስፒታሉ ባሉት የተደራጀ የህክምና መሳሪያ በመጠቀም ስለራ ያለኝን የስራ ችሎታ ልምድ በከፊተኛ ደረጃ እንዲሻሻል አረድቶኛል፡፡ በተሽከርካሪ አደጋ ምክንያት የሚከሰቱ ጉዳዮች፤የፈንጂና ጥይት አደጋዎች ተጠቃሽ ጉዳዮች ናቸው፡፡ ለ24 ሰዓት ከፍት በሆነው ሆስፒታል በየዕለቱ ከ10-15 የሚደርሱ ታካሚዎችን እናስተናግድ ነበር፡፡ ሌላው ያገኘሁት ልምድ ደግሞ የህክምና ባለሙያዎችና ማሳሪያ መገኘት ብቻ ለስኬት አለማብቃቱን ነው፡፡ ጥሩ የተደራጀ አሰራርም አስፈላጊ ነው፡፡እቤይ ሁሉገዜ መቀት ነው፡፡ እንደዚሁም ሁልጊዜ ከፍተኛ ዝናብ ይዘገባል፡፡ እነዚህ ከባድ የአየር ሁኔታዎችና በዚህም ምክንያት የሚከሰተው የተለያዩ የነፍሳት ንክሻ በአስቸጋሪ አካባቢ መስራትን አስለምዶኛል፡፡ ይህ አካባቢ ለሚዳካል ኢትሞሎጂ ጥናት የሚመረጥ ቦታ መሆኑንም አይቻለሁ፡፡ ሌላው በቋንቋ ሳትግባባ የህክምና አገልግሎት መስተጠት መቻልም የተማርከት ችሎታ ነው፡፡ ሲል ልምዱን ተናግሯል፡፡

በኢሶትም ከማህበሩ መስራቾች አንዱና ንቁ ተሳታፊም ነው፡፡ ማህበሩ በየጊዜው እያደገና እየጎለበተ እየሄደ መሆኑን ይመስክራል፡፡ ለሀገሪቱ የአጥንት ህክምና አድገት ባለድርሻ የሆኑ አካላት ሁሉ ሊያስበብት የሚገባ ጉዳይ ቢኖር ካሉቴክኖሎጂ መሳሪያዎች አድገት አለመገኘቱን በማሰብ የሚሟላበትን መንገድ መፈለግ ያስፈልጋል፡፡ የወጣቶች መሳተፍም ድገቱን ያፋጥናል፡፡

ዶ/ር መኮንን በልጅነት ከነበሩት ህልሞች መካከል በውትድርና እስከ ሌ/ኮረኔል ማዕረግ ድረስ፤ በመምህርነት በመከላከያ ጤና ኮሌጅ በአስተማሪነት፤ በህክምና ዘርፍ እስከ አጥንት ስፔሻሊስት ሀኪምነት ድርሷል፡፡ አብራራ መሆን ባይቻልም ከእውጦጥን ብዙ ጊዜ ዘሏል፡፡ የኳስ ተጫዊነት ህልሙ ጎንደር የንሸርስቲ ላይ ቆሟል፡፡ በጥቅሉ ሲታይ የዶ/ር መኮንን ወርዶፋ ህይወት የተሳካ ነው፡፡ በመጨረሻም ስለወደፊት እቅዱ ሲገልፅ ጥሩ ሰውና የተሻለ ባለሙያ የመሆን ጥረት እንዳለው አጫውቶናል፡፡ በዚህ የሕይወት ጉዞ ላይ አያለ በድንገት ተለየ፡፡

**ክቡር ነፍሱ በሰላም ትረፍ!!!**



# Covid - 19

- The Challenges still continued, but will pass
- Our resilience is Crucial.
- Together, we Prevail
- Many Patients, students, residents and surgeons were infected while Caring & serving.
- ESOT thanks the government of Ethiopia and its Members.
- Thank you for recognizing our efforts & committment.
- We never abandoned caring for our positive patients with fracture !

Take Care ! ጥንቃቄ !











# Photo Gallery

ESOT 14<sup>th</sup> AGM was fantastic!







Read about this tree  
called Auracuria.







# DO NOT FORGET

physiotherapy, prosthesis and Orthosis are crucial pillars of rehabilitation





A photograph of five men standing in a row in an office. From left to right: the first man wears a light blue polo shirt and grey trousers; the second wears a brown and white checkered button-down shirt and dark trousers; the third wears a dark suit jacket, a light blue shirt, and a red and white striped tie; the fourth wears a grey suit jacket, a light blue shirt, and a dark tie; the fifth wears a white shirt, a patterned tie, and dark trousers. A South African flag is visible behind the third man. The background includes a wooden cabinet with framed certificates and a glass door.

# We thank

Berhan Bank for fully renovating the  
“Mother” Orthopaedic Department in Black  
lion Hospital





During treating the wounded from  
conflicts, we shared what we have.  
We call, pray & encourage.







**Amidst Covid, COSECSA 2020 was held in three Countries.  
Travel hassel & Lock down were challenging!**







ESOT Thanks

Minister of peace H.E W/o Muferiat kamil  
for permitting this AGM.



# AO ALLIANCE

