

**GENEVA FOUNDATION
FOR MEDICAL EDUCATION AND RESEARCH**



ANNUAL REPORT 2018

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Preface by the director

The Geneva Foundation for Medical Education and Research (GFMER) is a non-profit organization established in 2002. It is supported by the Department of Social Affairs of the City of Geneva and other Swiss and international institutions and works in close collaboration with the World Health Organization (WHO).

In 2018 the foundation and its partners launched for the ninth consecutive year, a series of distance training/online courses on sexual and reproductive health research: a total of 219 health professionals from 59 countries attended the training programme.

GFMER continues its active partnership with the UNFPA/WHO 'Campaign to end fistula'. The aim has been to create a 'Centre of Excellence for the prevention and treatment of obstetric fistula' in Northern Benin, which would serve other countries in the region under the name of "Tanguieta Model". During 2018, several missions were conducted in Benin, where Professor Charles-Henry Rochat (who has the overall responsibility for GFMER's fistula project) and his team of specialists, operated on a total of 315 obstetric fistula cases in different countries. Moreover, local doctors were trained on the management of obstetric fistula.

In 2018, the Geneva Foundation for Medical Education and Research (GFMER) in collaboration with the Oxford Maternal and Perinatal Health Institute (OMPHI) translated the computer-based training module on preterm infant feeding and growth monitoring into Portuguese version.

GFMER has built a strong partnership with governmental and non-governmental organizations and universities for the exchange of information and expertise at international level. The website of the foundation had 1624675 page views and visitors from all over the world.

We believe our efforts to assist in many countries and the programmes we deliver contribute to improving the reproductive and sexual health status of the populations in need.

Finally, I would like to thank the City of Geneva, the World Health Organization and other institutions, for their financial and technical support, which have ensured the successful implementation of our projects and programmes.



Prof. Aldo Campana
The Director

Mission

The overall objectives of the Foundation are to promote and develop health education and research programs.

GFMER has a mandate to address challenges, such as:

- The organization of training programmes in Geneva, covering research methodology, epidemiology, reproductive and sexual health, and other medical areas.
- The dissemination of the Geneva training courses in other countries.
- The initiation and provision of support for researchers to plan, conduct and publish their scientific work.
- The dissemination of medical information on Internet.
- The dissemination of clinical guidelines for use in clinical training programmes.
- The collaboration with the UNFPA/WHO programme to end obstetric fistula.

Foundation Council

- Prof. José Villar (President)
- Dr. Blaise Bourrit (Secretary)
- Alain Gris (Treasurer)
- Prof. Giuseppe Benagiano
- Prof. Ana Maria Langer Glas

Executive Committee

- Prof. Aldo Campana (Director)
- Prof. Charles-Henry Rochat (Co-director)
- Dr. Karim Abawi
- Dr. Heli Bathija
- Dr. Hongguang Dong
- PD Dr. Pierre Vassilakos

GFMER main fields of activities

1. Training course in sexual and reproductive health research 2018

<https://www.gfmer.ch/SRH-Course-2018/index.htm>

Since 2003 GFMER, in partnership with the WHO and other partner institutions, has organized a training course on sexual and reproductive health research. The course focuses on research methodology and attracts the participation of health professionals from different countries, particularly from developing countries. Through the pool of participants, GFMER has managed to disseminate the course in different countries including Afghanistan, Argentina, Cameroon, China, Indonesia, Laos and Romania.

In order to reach more health professionals, in 2010 GFMER in collaboration with WHO and other partners launched the online course on sexual and reproductive health research "From Research to Practice: Training Course in Sexual and Reproductive Health Research" that offers a training package specially developed for those health professionals involved in research, whose access to learning is limited by time, financial resources or other constraints and for whom access to quality education and learning is limited. The programme is designed to meet a wide range of contemporary issues in sexual and reproductive health, especially in developing countries. It helps students to better identify the problems related to reproductive and sexual health, it helps to improve the skills of caregivers, and it promotes good practices.

In 2018, GFMER successfully implemented the ninth edition of its online training course, bringing to bear the experience gained from the previous editions.

This course is part of the WHO policy for increasing human resources in the field of sexual and reproductive health, particularly in developing countries. GFMER is mandated to organize the course. In order to better tailor the course to specific needs of our participants, in 2018, it was offered as 4 separate courses each lasting for 8 weeks. They were:

- Adolescent sexual and reproductive health
- Research methodology and research protocol development
- Sexually transmitted infections, HIV/AIDS
- Family planning

Objectives

The objectives of the courses were as follows:

1. Provide appropriate training adapted to the needs of health professionals in different countries, notably developing countries.
2. Help reduce morbidity and mortality in women of reproductive age and newborns through the development of human resources capacity.
3. Contribute to a better sharing of expertise between health professionals and local and international institutions, especially in developing countries.
4. Organize a continuing learning project in the field of sexual and reproductive health intended for developing countries and economies in transition.
5. Provide training and quality learning for health professionals.
6. Create a network between health professionals from different backgrounds, institutions, and research, for the exchange of knowledge and information.

7. Engage students in research work in an area related to health programmes in their home country.

Course participants

The majority of students in our courses were healthcare providers from developing countries involved in the area of reproductive and sexual health and whose access to healthcare training is limited by time and/or financial resources. The courses were not only offered to doctors, but also to midwives, nurses, health educators, social workers, and reproductive and sexual health programme managers. Most of the participants were in the age group from 30 to 49 years of age. The care providers in this age group have professional or familial obligations and, for them, our courses are likely to have the most impact. Thanks to the flexibility of the courses, which offers a good opportunity to access continuing training in the field of care. Women were well-represented as they made up approximately half of the participants in each course.

Adolescent sexual and reproductive health

<https://www.gfmer.ch/SRH-Course-2018/adolescent-health/Adolescent-health-participants.htm>

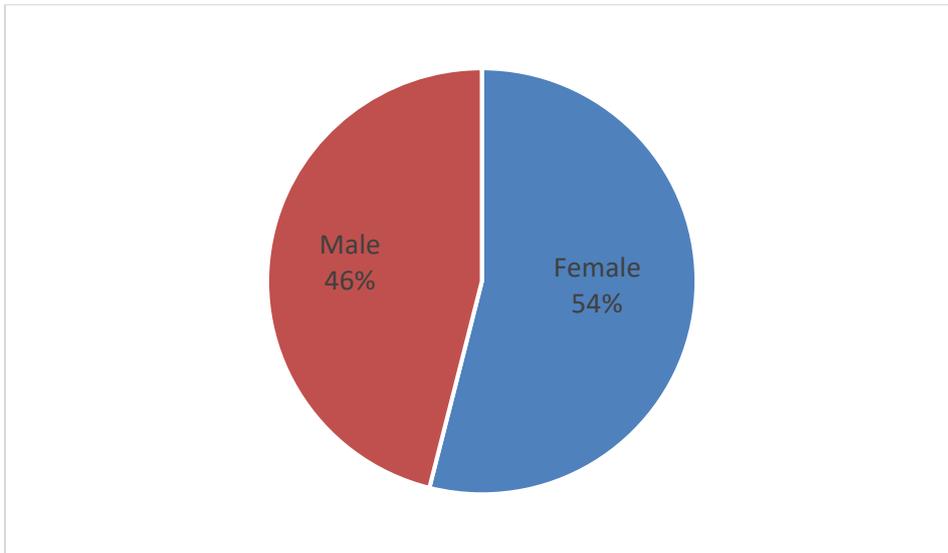
A total of 178 health professionals from 46 countries were registered in the online training course in adolescent sexual and reproductive health in 2018.

Table 1: Age of participants

Age Group	Number	%
20-29	20	11.2%
30-39	94	52.8%
40-49	51	28.7%
50-59	13	7.3%
Total	178	100%

The majority of participants (81.5%) were in the age group 30 to 49 years.

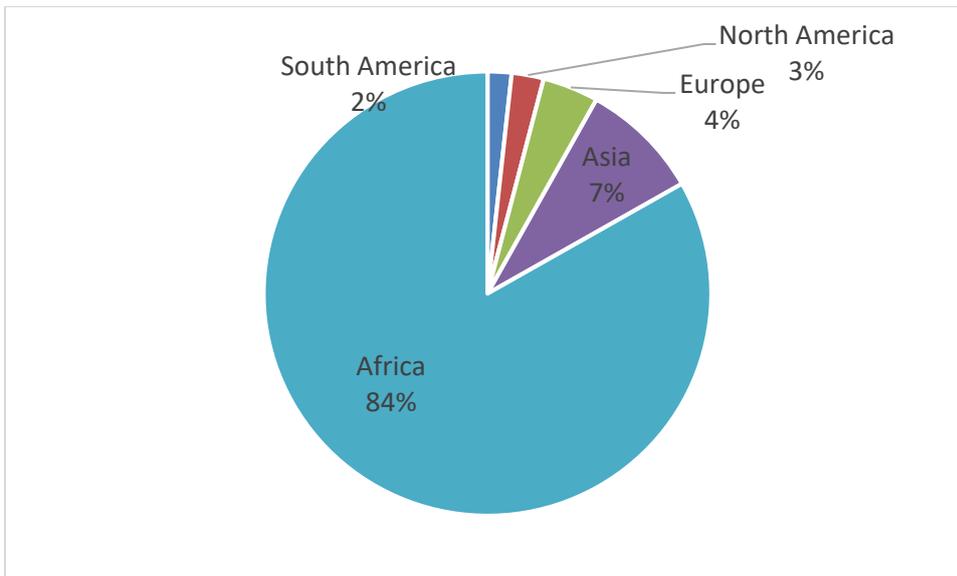
Graph 1: Gender of students



As indicated by the graph above, women made up 54% of participants.

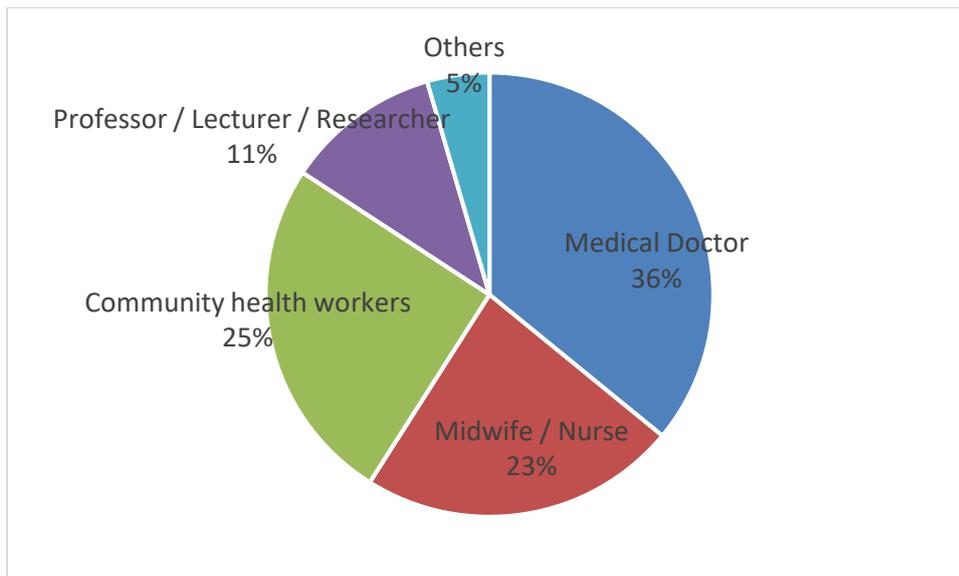
This course addressed mainly healthcare professionals in developing countries with the following distribution: Africa (84%), Asia (7%), Europe (4%), North America (3%) and South America (2%).

Graph 2: Geographic distribution of students



The following graph shows the proportions between the different professions.

Graph 3: Students' professions



Research methodology and research protocol development

<https://www.gfmer.ch/SRH-Course-2018/research-methodology/Research-methodology-participants.htm>

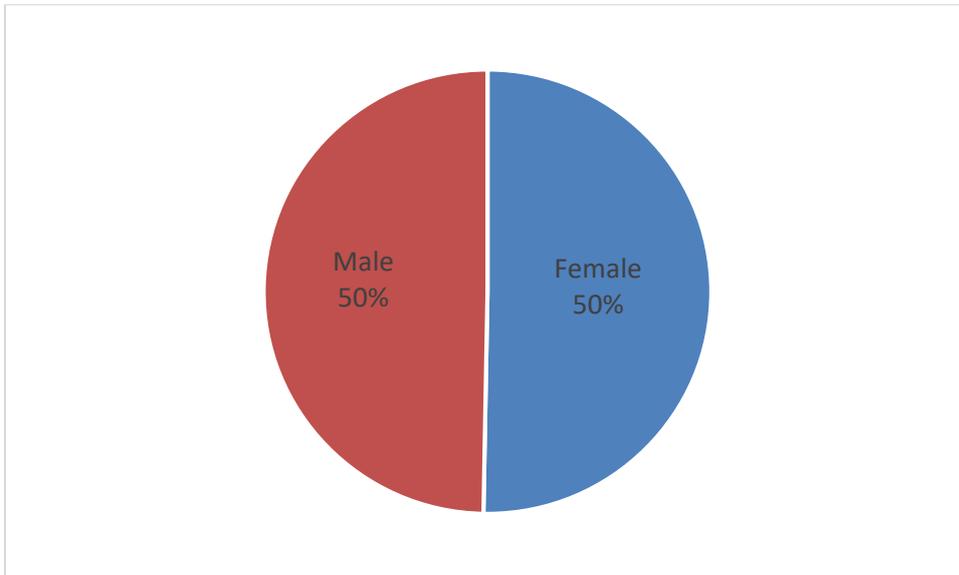
A total of 173 health professionals from 42 countries were registered in the online training course in Research methodology and research protocol development in 2018.

Table 1: Age of participants

Age Group	Number	%
20-29	20	11.6%
30-39	85	49.1%
40-49	50	28.9%
50-59	18	10.4%
Total	173	100%

The majority of participants (78%) were in the age group 30 to 49 years.

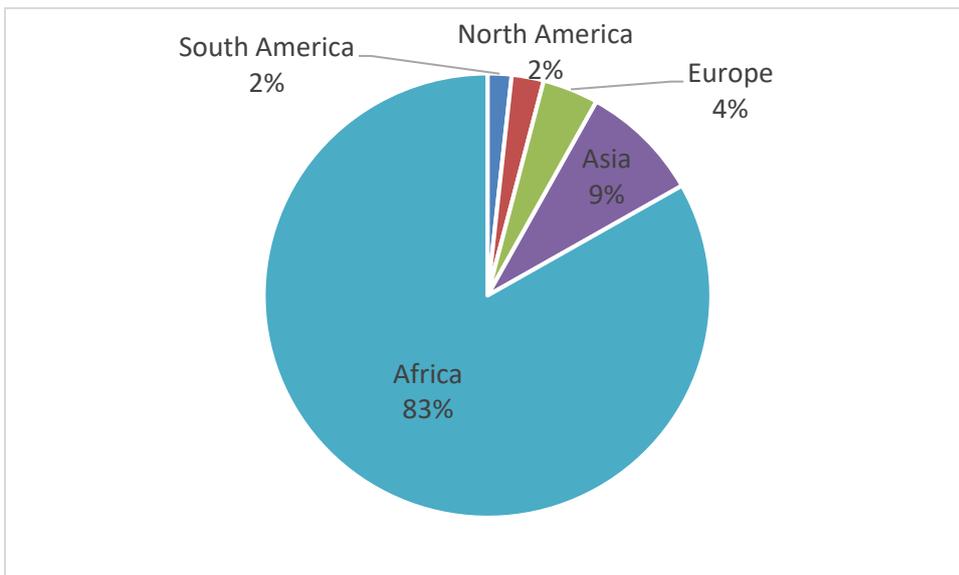
Graph 1: Gender of students



As shown in the graph above, 50% of participants were women.

The healthcare professionals who took the course were mainly from developing countries as follows: Africa (83%), Asia (9%), Europe (4%), South America (2%) and North America (2%).

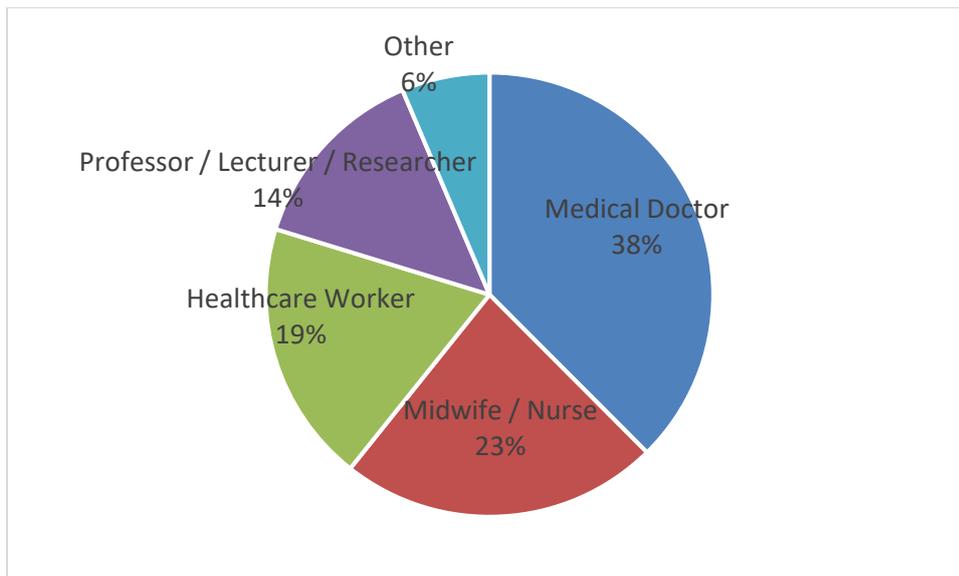
Graph 2: Geographic distribution of students



The course was offered to medical doctors, midwives, nurses, community health workers, teachers and researchers.

The following graph shows the proportions between these professions.

Graph 3: Students' professions



Sexually transmitted infections, HIV/AIDS

<https://www.gfmer.ch/SRH-Course-2018/sti/sti-participants.htm>

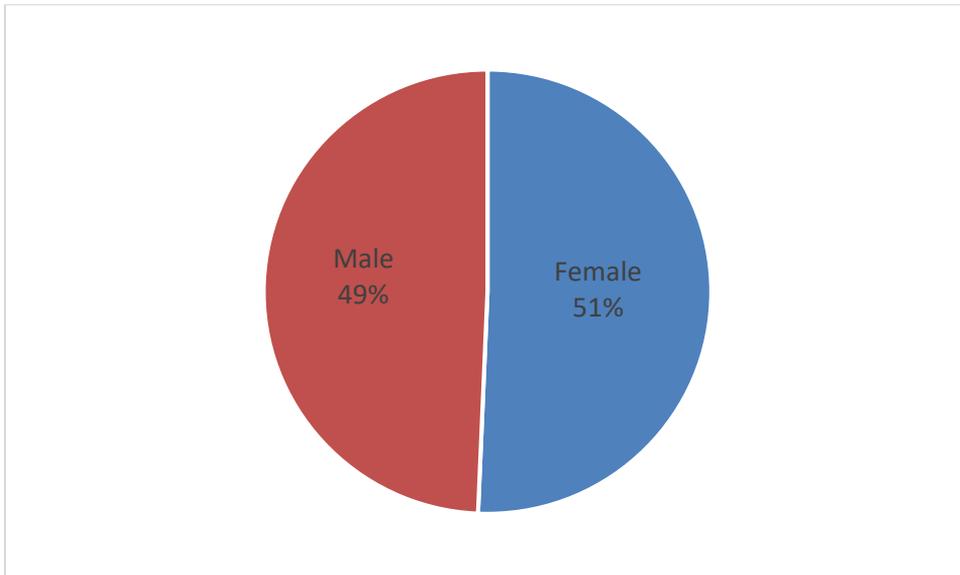
A total of 148 health professionals from 37 countries were registered in the online training course in Sexually transmitted infections, HIV/AIDS in 2018.

Table 1: Age of participants

Age Group	Number	%
20-29	15	10%
30-39	77	52%
40-49	43	29%
50-59	13	9%
Total	148	100%

Most of the participants (81%) were in the age group 30 to 49 years.

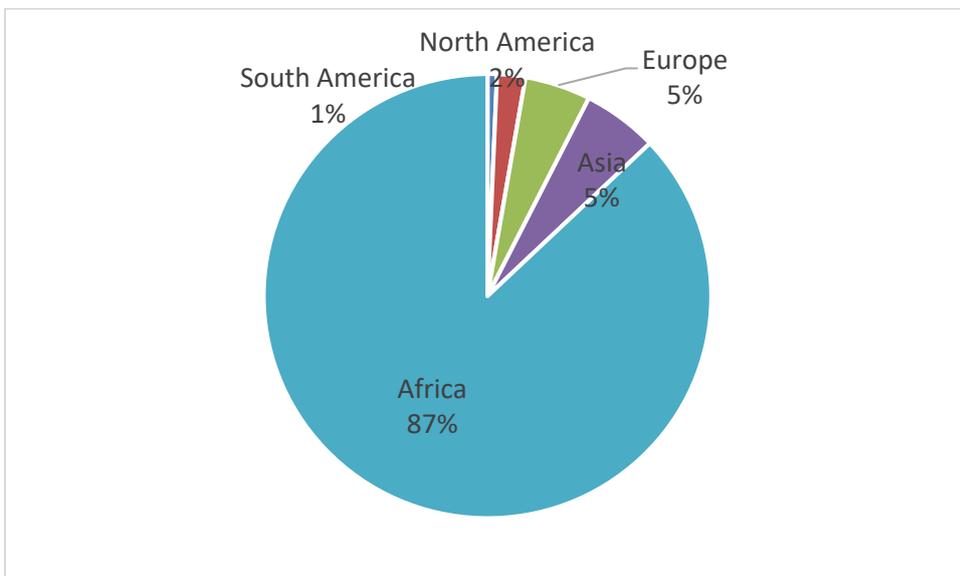
Graph 1: Gender of students



As indicated by the graph above, 51% of participants were women.

The healthcare professionals who took the course were mostly from developing countries with the following distribution: Africa (87%), Asia (5%), Europe (5%), North America (2%) and South America (1%).

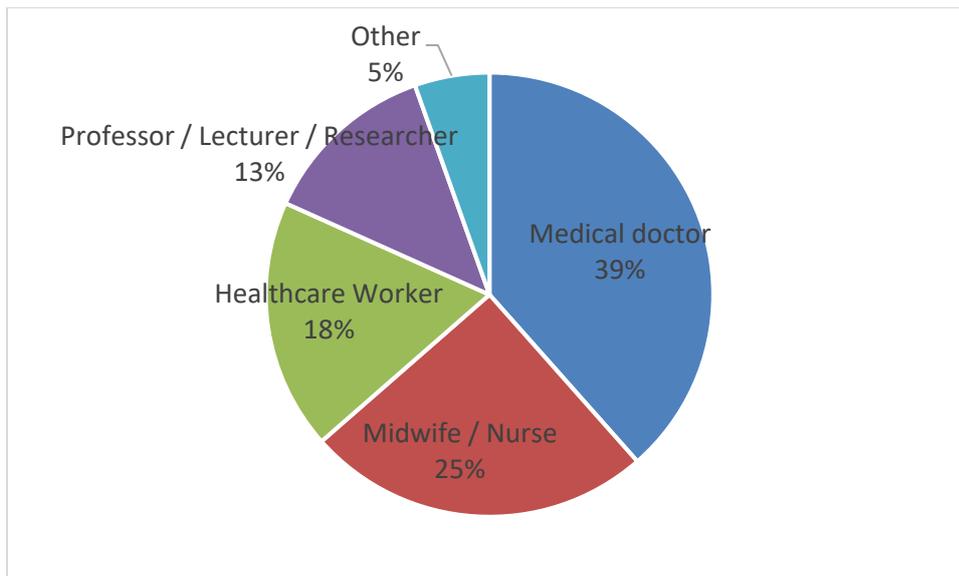
Graph 2: Geographic distribution of students



The course participants included medical doctors, midwives, nurses, community health workers, teachers and researchers.

The following graph shows the proportions between these professions.

Graph 3: Students' professions



Family planning

<https://www.gfmer.ch/SRH-Course-2018/family-planning/Family-planning-participants.htm>

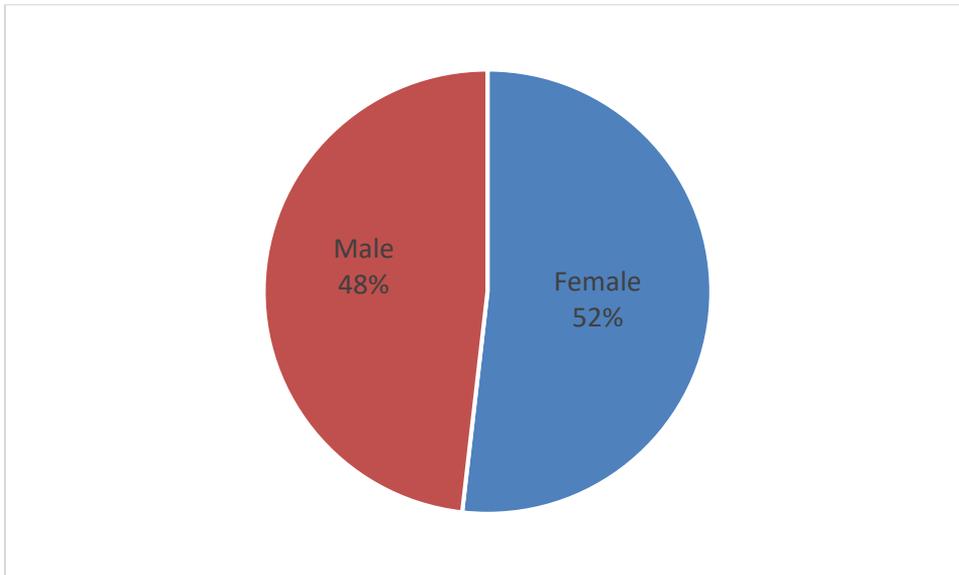
A total of 166 health professionals from 40 countries were registered in the online training course in Family planning in 2018.

Table 1: Age of participants

Age Group	Number	%
20-29	19	11.4%
30-39	88	53%
40-49	45	27.2%
50-59	14	8.4%
Total	166	100%

The majority of participants (80.2%) were in the age group 30 to 49 years.

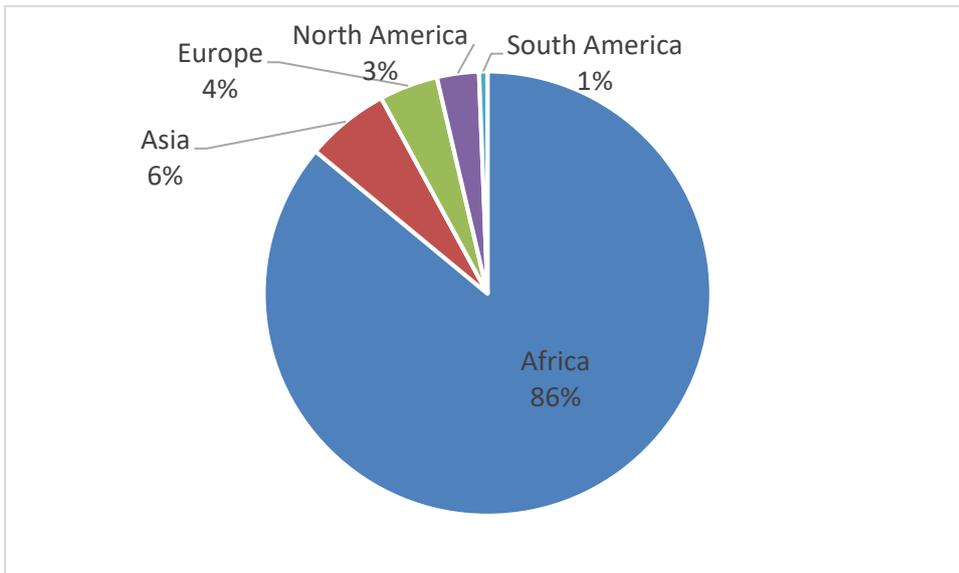
Graph 1: Gender of students



As shown in the graph above, women made up 54% of participants.

The geographical distribution of the healthcare professionals who participated in the course is as follows: Africa (86%), Asia (6%), Europe (4%), North America (3%) and South America (1%).

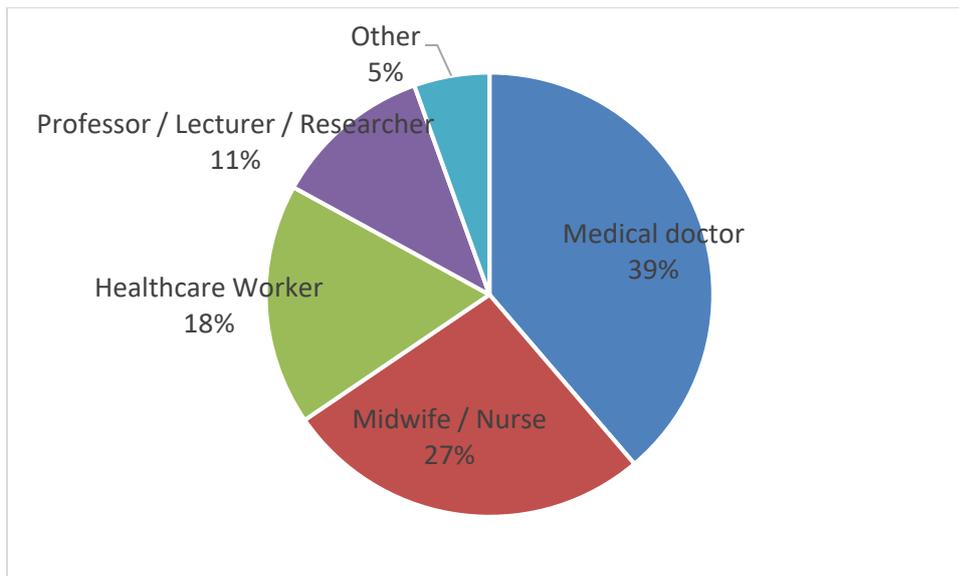
Graph 2: Geographic distribution of students



This course was offered to medical doctors, midwives, nurses and other health professionals.

The graph below shows the proportions between these professions.

Graph 3: Students' professions



Recruitment of students

The students became aware of the course through the following means:

- Publicity for the course and local contact coordinators in the countries and regions.
- Publicity for the course on the GFMER website and partner sites.
- Mobilization of the GFMER and WHO networks. These include local and international NGOs, WHO collaborating centres at the country level, health ministries, and universities.

Selection of students

This course is a post-graduate/continued learning course for health professionals with a diploma involved in the field of sexual and reproductive health. The criteria for selection are as follows:

- A degree in a relevant discipline of health sciences, natural sciences, or social and economic sciences.
- Involved in the domain of sexual and reproductive health.
- Preference is given to healthcare providers who work for health establishments at the district level, an NGO, or a ministry of health.
- The foundation favours the participation of woman.

It is noted that the foundation has established partnerships with NGOs, health ministries, and universities in different countries. Certain entities include this course in their human resource development programmes. Moreover, each year, a number of participants find the information on their own when consulting the foundation site or on partner sites.

The application must contain the following elements:

- A CV.
- A certified copy of the diploma in medicine and any additional diplomas.
- A letter of motivation indicating clearly their interests and goals for the course.

Based on the application form and documents provided by the candidates, we make our pre-selection. We communicate the list of candidates to the country coordinators who we ask to contact

the candidates by phone, email, or skype. When possible, we try – via our coordinators - to meet on site. For countries where we do not have local coordinators, we ask other coordinators in nearby regions to assume contact. For example, for South Sudan, we call our coordinator in Sudan. If necessary our Geneva team contacts the candidates or their employers.

Course contents

The content of this course is based on recommendations by WHO, so that other global institutions can recognize it. It is also enhanced by field experience from our teachers with a wide range of experience in the field of sexual and reproductive health. It is based on groundwork, especially in developing countries, and proposes pragmatic solutions. We provide reference materials for our students and encourage them to use it in their professional practice (prevention, treatment, training).

There are four modules offered as separate courses:

- Adolescent sexual and reproductive health
<https://www.gfmer.ch/SRH-Course-2018/adolescent-health/index.htm>
- Research methodology and research protocol development
<https://www.gfmer.ch/SRH-Course-2018/research-methodology/index.htm>
- Sexually transmitted infections, HIV/AIDS
<https://www.gfmer.ch/SRH-Course-2018/sti/index.htm>
- Family planning
<https://www.gfmer.ch/SRH-Course-2018/family-planning/index.htm>

Each course is run by a module coordinator. The coordinator decides the content and schedule of the module and designates its contributors. The module coordinators are experts or scientists from WHO and/or various universities who possess important professional networks at the international level.

Teachers, partner institutions

The speakers, lecturers, and course facilitators are highly trained professionals from WHO, universities, and specialized institutions. They have a wide range of knowledge and experience in the field of sexual and reproductive health, especially in developing countries.

In 2018, a total of 38 teachers from WHO, GFMER as well as other national and international institutions were involved in teaching and tutorship for the online training course.

Course coordinators at country level

<https://www.gfmer.ch/country-coordinators/GFMER-country-coordinators.htm>

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GFMER Country Coordinators Map

GFMER Country Coordinators

 <small>Afghanistan</small>	 <small>Bangladesh</small>	 <small>Bhutan</small>
 <small>Bolivia</small>	 <small>Brazil</small>	 <small>Burkina Faso</small>
 <small>Cameroon</small>	 <small>Ecuador</small>	 <small>Egypt</small>
 <small>Ethiopia</small>	 <small>Georgia</small>	 <small>Gulf Cooperation Council</small>
 <small>India</small>	 <small>Iran</small>	 <small>Kenya</small>
 <small>Lebanon</small>	 <small>Malawi</small>	 <small>MENA Region</small>
 <small>Mexico</small>	 <small>Mongolia</small>	 <small>Mozambique</small>
 <small>Nepal</small>	 <small>Nigeria</small>	 <small>Peru</small>
 <small>Sudan</small>	 <small>Turkey</small>	 <small>Uganda</small>
 <small>Zambia</small>		

Terms of Reference for GFMER Country Coordinators

- Student's coaching at local level, i.e., help the students to access the teaching material, learning methods. As the majority of student's paper works (assignments and research protocol) are based on the analysis of local situation in regards to sexual and reproductive health problems, the country coordinators can offer the appropriate assistance to the students.
- Ensure communication with the course organizers and students.
- Advertise course to various local training and research institutions.
- Recruit eligible candidates for the course.
- Create a network within the students from the same country.
- Organize if possible some meetings with students from the same country.

GFMER has appointed a total of 28 coordinators in Afghanistan, Bangladesh, Bhutan, Bolivia, Brazil, Burkina Faso, Cameroon, Ecuador, Egypt, Ethiopia, Georgia, Gulf Cooperation Council, India, Iran, Kenya, Lebanon, Malawi, MENA Region, Mexico, Mongolia, Mozambique, Nepal, Nigeria, Peru, Sudan, Turkey, Uganda, and Zambia.

The main tasks of country coordinators consist of:

- Student coaching at local level, i.e., helping the students to access the teaching material and learning methods. As the majority of student's work (assignments and research protocol) is based on the analysis of local situations in regard to sexual and reproductive health problems, the local coordinators can offer the appropriate assistance to the students.
- Ensure communication with the course organizers and students.
- Advertise the course to various local training and research institutions.
- Recruit eligible candidates for the course.
- Create a network between students from the same country.
- Organize if possible some meetings with students from the same country.
- Identify potential sponsors to provide scholarships for students. It is worth mentioning that the majority of institutions allocate funds for their human resource capacity building programmes. This online course is advantageous for health professionals especially those from developing countries, where access to a quality education is limited by time, financial resources or both.

Teaching methods

<https://www.gfmer.ch/SRH-Course-2018/pdf/Course-guide-2018.pdf>

Teaching methods consist of on-line lectures (recorded, didactic presentations), key readings, reading materials, additional references and referrals to related websites. Compared to other courses, the Training Course in Sexual and Reproductive Health Research is extremely rich in terms of documentation and published teaching resources.

For each of the courses, participants receive assignments. At the end of each course, they must respond to a series of multiple-choice questions. For their assignments, the students receive very precise instructions. We have created a module for assignments. Before writing the assignment, the student is asked to follow the course, read the reference documents that we put at their disposal, and write their text according to the given instruction. We have also created an evaluation grid of personal work. Tutors and coordinators revise the assignments. The goal is to help students deal with problems of sexual and reproductive health in their respective countries, using what they learn in our courses and preparing their work with respect to academic and scientific standards.

In terms of documentation and published educational resources, our courses are among the richest in the world. They contain the most reference documents (guidelines), continuously updated in the field of sexual and reproductive health. These help participants to become more familiar with scientific reading and writing and use the knowledge acquired in the training course in their day-to-day professional practice. A personal coach is assigned to each participant. Coaches are GFMER country coordinators and former participants, who facilitate the learning process with the participants. As the majority of students' work (assignments and research protocol) is based on the analysis of local situations in regard to sexual and reproductive health problems, the assistance of country coordinators is very important.

The participation of a student is measured by the submission of assignments in the time given and their response to the multiple-choice questions. Once their work is completed, reviewed, and

accepted for a given module, the student is credited with a number of hours (6 to 8 hours per week), regardless of the actual time it took to complete the work.

To support the participants, different mechanisms of communication and interaction (Facebook, Google Group, Skype, Twitter) are used. These tools favour interaction between participants and teachers, and allow for the creation of a rich network of exchange between health professionals. The diversity within the community of students and the establishment of communication tools has furnished an excellent means of learning and of sharing experiences between students from different countries.

GFMER provides free access to the course contents, which are an important source of information for professionals who are involved in the domain of sexual and reproductive health (only registered students benefit from a regular monitoring and obtaining a certificate).

GFMER has created an online community for the training course in order to improve communication with and between participants and provide access to academic and administrative support. The diversity among participants and the network facilitated by GFMER provide an opportunity to learn from and share experiences with peers from around the world.

Final evaluation

At the end of each course, participants of the Training Courses in Sexual and Reproductive Health Research receive a certificate if they meet the following conditions:

- Participants are required to submit multiple-choice questions of each course module.
- Participants are required to have completed the assignments of each course module.

Throughout each training course, participants are supervised by country coordinators, coordinators of the modules, teachers and tutors.

Following students after the course

Each participant of our courses becomes a member of our Foundation and continues contact with them. Monitoring and maintaining contact with them and between them proves to be very useful. Today GFMER has available an international network of healthcare providers on the ground in direct contact with their community. It is thanks to this network that we have established collaborations with Harvard University and Oxford, and the Service of Gynaecology at the University Hospital of Geneva. These institutions collaborate with GFMER to develop training tools for healthcare providers at the community level. The network that the foundation runs facilitates the dissemination of these tools. This allows us also to establish contacts with NGOs, ministries of health or other institutions in a number of countries.

Picture of the week

<https://www.gfmer.ch/gfmervoices/index.htm>

We have created a section on our website entitled “Picture of the week”. Each week, we publish the photo of a student showing their professional activities in a treatment facility, in a refugee camp, on site, in class, etc. This initiative has proved to be very gratifying for our students. It emphasizes the importance of distance training for health professionals where access to training is sometimes limited. It also shows the application of knowledge acquired by our students in their professional practice.

The picture of the week
Geneva Foundation for Medical Education and Research

Home 2013 2014 2015 2016 2017 2018 2019 GFMER

GFMER picture of the week - Images 2018

Clickable thumbnails linking to the corresponding picture of the week



2. Sexual and reproductive rights

<https://www.gfmer.ch/srr/index.htm>

In order to achieve sexual and reproductive health, people need to know their sexual and reproductive rights. The Geneva Foundation for Medical Education and Research (GFMER) therefore sees a close relationship between sexual and reproductive health on the one hand and the legal and political system on the other. For these reasons, the Foundation created a dedicated website on Sexual and Reproductive Rights. Since its establishment in 2002, GFMER has exchanged sexual and reproductive health expertise with governmental and non-governmental organizations all over the world. GFMER has become a resource centre for training and research in human sexuality and reproduction, creating a vast network of health professionals in developing and developed countries.

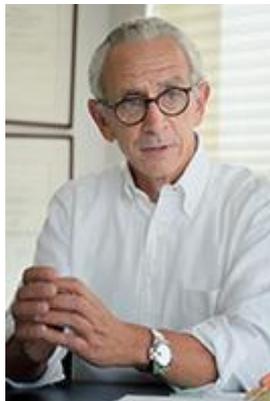
With this website GFMER seeks to contribute to a meaningful inclusion of human rights in sexual and reproductive health issues.

Content of the sexual and reproductive rights website:

- Introductions to major sexual and reproductive rights topics.
- Regularly updated summaries of national legislations for the major areas of sexual and reproductive health.
- Selected publications on legislation and ethical issues in sexual and reproductive health.

3. Clinical training, prevention and treatment of obstetric fistula

<http://www.gfmer.ch/fistula/index.htm>



GFMER is a partner in the UNFPA/WHO campaign to end fistula. The aim of GFMER participation in this campaign is to create a “Centre of Excellence for the prevention and treatment of obstetric fistula” in Tanguieta (Northern Benin), which would serve as a model to other countries in the region.

Objectives

- To train local specialists in fistula repair.
- To raise awareness about prevention and treatment of obstetric fistula.
- To develop research on obstetric fistula.

In 2018 Professor Charles-Henry Rochat, responsible for the fistula project, together with a group of specialists and local medical doctors conducted missions in several African countries to operate on fistula cases. In addition, Professor Rochat and his team (composed of specialists from Switzerland, France, USA, Cameroun and Burkina Faso) organized conferences and workshops on diagnosis,

treatment and follow-up of fistula cases and advocated for a multidisciplinary approach for care of women suffering from obstetric fistula. In 2018 a total of 315 obstetric fistula cases were operated.

Supporting institutions for obstetric fistula project

The GFMER obstetric fistula programme is supported by the City of Geneva, the communes of Chêne-Bougeries and Chêne-Bourg, Amber Foundation, Rumsey & Cartier Foundation, Global Foundation for Life Sciences, Pictet Group Charitable Foundation, Pharos Trust, Firmenich family philanthropic foundation, and private donors.

Ongoing activities for obstetric fistula project

- Collaboration with WILDAF-Togo association.
- Collaboration with the Fondation Claudine Talon (first lady of Benin).
- Collaboration with the DDC in Cotonou.
- Collaboration with Women and Health Alliance International – WAHA.
- Collaboration with Synergies africaines in Cameroon, Congo, Central Africa, and Chad.
- Dissemination of the "Tanguieta model".
- Dissemination of the fistula database and fistula group website.
- Organization of local events to provide the training module on fistula to health professionals.
- Ciespac partnership.
- Collaboration with the SDC in Cotonou.
- Contribute to the awareness and prevention of "obstetric fistula".
- Participate in the hospitalization costs of the patients.
- In charge of the travel expenses of the African and expatriated teams on the various sites.
- Contribute to the purchase of equipment for surgical missions.
- Scholarships for the specialization of 5 physicians of the hospital Saint John of God of Tanguiéta.
- Financing for the continuity of the programme Guinea-Conakry, Burkina Faso, Cameroon and Benin.
- Participation in theses and publications.

4. Institutional partnerships

GFMER collaborative activities with Oxford Maternal and Perinatal Health Institute and Harvard Maternal Health Taskforce

<https://www.gfmer.ch/omphi/index.htm>

The evidence-based management of Pre-eclampsia and Eclampsia

<https://www.gfmer.ch/SRH-Course-2010/pre-eclampsia-University-of-Oxford/index.htm>

OMPHI and GFMER developed the first online training course on the evidence-based management of Pre-eclampsia and Eclampsia in 2010.

The dissemination of this module continued during 2018 and, since its launch, a total of 3585 health professionals from 119 countries have successfully completed the training and knowledge assessment and been awarded certificates.

The evidence-based management of postpartum haemorrhage

<https://www.gfmer.ch/omphi/pph/index.htm>

After the success of the evidence-based pre-eclampsia and eclampsia training course, OMPHI and GFMER also developed another online training course on the evidence-based management of postpartum haemorrhage (PPH) in 2012.

The dissemination of this module continued during 2018 and, since its launch on June 2013, a total of 3872 health professionals from 126 countries have successfully completed the training and knowledge assessment and been awarded certificates.

Maternal infections

<https://www.gfmer.ch/omphi/maternal-infections/index.htm>

Following the success in disseminating evidence-based knowledge and the high demand for similar courses, in 2014 GFMER in partnership with the Maternal Health Taskforce of the Harvard School of Public Health, the Oxford Maternal and Perinatal Health and the Global Health Network developed a third e-learning module on Maternal infections, that is one of the six major causes of maternal death worldwide.

The dissemination of the module continued during 2018. Since the launch of the module in June 2015, a total of 1037 health professionals from 92 countries took this module, completed the knowledge assessment, and were awarded certificates.

Obstetric fistula

<https://www.gfmer.ch/fistula/Obstetric-fistula-2015.htm>

A fourth training module was developed on obstetric fistula. Its dissemination continued in the current year. Since its launch in July 2015, the fistula module has been disseminated to a total of 1038 health professionals from 97 countries who have completed the knowledge assessment and been awarded certificates.

A French version is also available (<https://www.gfmer.ch/fistule/Fistules-obstetricales-2017.htm>).

It is worth mentioning that the above-mentioned modules can also be accessed by Smartphone and tablet. Moreover, a PDF version is also made available for each module to allow their offline use.

INTERGROWTH-21st

<https://www.gfmer.ch/omphi/intergrowth-course/index.htm>

The International Fetal and Newborn Growth Consortium for the 21st Century is a global multidisciplinary network of more than 300 researchers and clinicians from 27 institutions in 18 countries worldwide. They are dedicated to improving perinatal health globally and committed to reducing the millions of preventable newborn deaths that occur as a result of preterm birth or poor intrauterine growth.

In order to meet this goal, there is need for the international growth standards to measure and improve maternal and newborn clinical care and compare outcomes across populations. Such standards exist to monitor the growth of infants and children. These are the WHO Child Growth Standards and their release in 2006 was a landmark achievement. These scientifically based standards are now used worldwide.

However, the fetal and newborn counterpart has been missing, which led the Consortium to implement the INTERGROWTH-21st Project. Their aim was to extend the WHO Child Growth

Standards into the fetal and neonatal period, providing tools for continuity of care from conception to 5 years of age.

The INTERGROWTH-21st Consortium implemented three population-based studies using standardized methods and clinical and research protocols. They gathered a rich body of data on health, growth, and nutrition from pregnancy to early infancy from close to 60,000 women and newborns across five continents, making the INTERGROWTH-21st Project the largest collaborative venture in the field of perinatal health research to date.

The resulting data provide unique insights into growth and development for the 21st century. The findings also provide new ways of classifying preterm and small for gestational age newborns. In addition, a new international equation for estimating gestational age through ultrasound early in pregnancy based on the first international crown-rump length standards was produced, and the resources necessary for enabling the adoption and scale-up of these tools at all levels of the health care system were developed.

By improving the ability of clinicians to monitor growth and development, standardizing research methods, and providing maternal and newborn health programme and policymakers with new, practical, international tools, the health of women and newborns worldwide can be improved.

GFMER has been designated as one of the principle partners for the dissemination and implementation of the INTERGROWTH-21st project at a global level through its international network of health professionals and partner institutions.

The INTERGROWTH-21st course on maternal, fetal and newborn growth monitoring was jointly developed by the [Geneva Foundation for Medical Education and Research \(GFMER\)](#), [The Global Health Network](#), [Maternal Health Task Force at the Harvard School of Public Health](#) and [Oxford Maternal & Perinatal Health Institute \(OMPHI\)](#). The course development was motivated by the commitment of the INTERGROWTH-21st Consortium to improving perinatal health globally. The course communicates the methodology of maternal, fetal and newborn growth monitoring and the application of the INTERGROWTH-21st international growth standards to make judgement about appropriateness of growth.

This open, online training course was officially launched in June 2016 with the publication of its first module “Assessing newborn size by anthropometry”. The module was published first in response to the need for guidance on the correct measurement technique for newborn head circumference and an international prescriptive standard for comparisons, following the outbreak of ZIKA virus infection in some part of the world. The module is available in three languages, English, Portuguese and Spanish and translation of the course to Italian is ongoing. GFMER disseminated the course through its vast network of health care professionals in three phases: 1) Provision of training to the current participants of the annual course ‘From Research to Practice: Training Course in Sexual and Reproductive Health Research 2016’ as well as the participants from the 2010 to 2015 editions of the course; 2) provision of the training module to a much larger number of health care providers worldwide and 3) dissemination of the course, through the Foundation network of country coordinators, collaborating institutions and former students in selected countries. The dissemination of the course continued during 2018 and local workshops were held in three countries: [Nigeria](#), [India](#) and [Pakistan](#) in September, October and November 2018 respectively. As at 31 December 2018, a total of 2259 health professionals from 86 countries took the first module “[Assessing newborn size by anthropometry](#)”.

A second module “Assessing maternal anthropometry and weight gain during pregnancy” was launched in January 2017. As at 31 December 2018, a total of 768 health professionals from 70 countries took the module.

INTERPRACTICE-21st

<https://www.gfmer.ch/omphi/interpractice/index.htm>

The INTERPRACTICE-21st Project promotes the optimal postnatal growth of preterm infants and standardises growth measurement in selected populations around the world. It is based on the implementation of the INTERGROWTH-21st international standards for preterm postnatal growth and evidence-based feeding recommendations based on human milk.

The “Preterm infant feeding and growth monitoring: Implementation of the INTERGROWTH-21st protocol, interactive e-Learning course” was launched in September 2017. Spanish (<https://www.gfmer.ch/omphi/interpractice/index-spanish.htm>) and Russian (<https://www.gfmer.ch/omphi/interpractice/index-russian.htm>) versions of the course are available. The Portuguese (<https://www.gfmer.ch/omphi/interpractice/index-portuguese.htm>) translation of the module was done in 2018 and the Italian translation is ongoing. The dissemination of the module continued during 2018 including local training three countries: [Nigeria](#), [India](#) and [Pakistan](#) in September, October and November 2018 respectively. As at 31 December 2018, a total of 789 health professionals from 66 countries took the course.

E-learning modules – Statistics

E-learning module	Duration	No. of unique participants who completed the test	No. of unique participants who passed the test	No. of countries
Pre-eclampsia and eclampsia	June 2011 - December 2018	3585	2769	119
Postpartum haemorrhage	June 2013 - December 2018	3872	2865	126
Maternal infections	May 2015 - December 2018	1037	828	92
Obstetric fistula	July 2015 - December 2018	1038	830	97
INTERGROWTH-21st/Assessing newborn size	June 2016 - December 2018	2259	2027	86

INTERGROWTH-21st/Assessing maternal anthropometry and weight gain during pregnancy	January 2017 - December 2018	768	723	70
INTERPRACTICE-21st/Assessing preterm infant feeding and growth monitoring	September 2017 - December 2018	789	739	66

Introduction to sexual health

In partnership with the World Health Organisation and UNESCO the GFMER completed the development of an Internet computer-based training module on sexual health. As for other modules, it will be offered to our online course students and it will globally be disseminated to health professionals, through the GFMER and partners' networks.

GFMER website (<https://www.gfmer.ch/>)



The GFMER website is extensive, regularly updated and provides easy access to useful information. The website contains information about the foundation, education programmes (courses), partners, international collaboration and information resources such as publications, presentations and databases. The GFMER website contains information in English, French, German, Italian and Spanish.

In 2018, the website of the foundation had 1624675 page views and visitors from all over the world. See the following link for the statistics of the website:

https://www.gfmer.ch/Usage_statistics/pdf/GFMER-visitors-2018.pdf

Activities planned for 2019

Courses on sexual and reproductive health and research 2019

The Geneva Foundation for Medical Education and Research in collaboration with the World Health Organization and other partners will continue to offer a series of online training courses in the field of sexual and reproductive health and research in 2019 as follows:

- Adolescent sexual and reproductive health
- Research methodology and research protocol development
- Sexually transmitted infections, HIV/AIDS
- Family planning

Sexual health course

This e-learning course on Sexual health developed by GFMER in partnership with the World Health Organisation and UNESCO will be offered to our online course students and it will be disseminated globally to health professionals, through the GFMER and partners' networks.

E-learning public health course on emergency surgical care

GFMER in collaboration with other partners is developing a public health e-learning course on emergency surgical care. The course is expected to be launched in the year 2019. Dr Meena Nathan Cherian, the director of GFMER Emergency and Surgical Care oversees this project.

GFMER collaborative activities with Oxford Maternal and Perinatal Health Institute and Harvard Maternal Health Taskforce

1. Dissemination of e-learning courses

GFMER will continue to disseminate all courses through its wide and expanding network of health professionals with ongoing monitoring. More country workshops on Newborn Anthropometry and Preterm infant feeding and growth monitoring courses are planned for the year 2019.

2. Update of e-learning courses

The online course "the evidence-based management of Pre-eclampsia and Eclampsia' will be updated. GFMER will propose the update of other existing e-learning courses to its partners as necessary.

Development of new e-learning modules

GFMER and partners will explore the possibility to develop new e-learning modules in sexual and reproductive health and related fields.