The journey to setting up a comprehensive gynecologic cancer service in Upper Egypt

Ahmed Abdelbadee, Assiut, Egypt and Hisham Abou-Taleb, Assiut, Egypt

Egypt is a lower-middle income country located in North Africa with a population of more than 100 million. Assiut University and its affiliated hospitals (Figure 1) are the largest academic tertiary care complex in Upper (southern) Egypt, serving more than 20 million people. Our setting is the Women’s Health Hospital, Assiut University OBGYN specialized hospital with a capacity of 400 beds, 32 intermediate and 16 ICU beds. Numerous barriers face patients with gynecologic cancer in our region including soaring poverty levels, high cancer rates, and limited resources. There are no gynecologic oncology training programs in Egypt, so the care of patients with gynecologic cancer has overlapped between general gynecologists and surgical oncologists.

A journey of 1000 miles begins with a single step. Our journey started 10 years ago to develop a dedicated service for patients with gynecologic cancers. We developed the UTOPIA model (Uncover Travel Observe Plan Implement Aid). The goal of the model was that a fellow would travel to a specialized cancer center around the world, gain clinical and research knowledge, then return with a plan to implement that gained experience and disseminate it. In 2010 Dr Hisham Abou-Taleb traveled to Kyoto University, Japan. The following year Dr Ali Hamed traveled to Indiana University, USA. In 2013 Dr Ahmed Abdelbadee Hefnawy traveled to the Christie Cancer Center in the UK and then to Case Western Reserve University, USA. Following their return, they invited young aspiring clinicians from the gynecology, pathology, clinical oncology, radiology, and other specialties who shared the vision to make a difference in the lives of patients with gynecologic cancer through a multidisciplinary approach. The novel model at our setting even attracted physicians from the neighboring South Egypt Cancer Institute to join our team. This was the first regular gynecologic oncology multidisciplinary tumor board in Upper Egypt (Figure 2).

Our team combined the American, European, and Japanese experiences and guidelines and adapted them to create protocols guiding gynecologic cancer diagnosis and management at our institution. Our model employed better organization of our limited resources. We created fast-track pathways for suspected gynecologic cancer
diagnoses. Surgical care was optimized to minimize complications. Challenging surgeries were discussed pre-operatively with our anesthesia team, thus performing radical surgeries and lymphadenectomies safely. Our general surgery team assisted in colorectal resection and hepatobiliary dissection procedures. Our vascular and reconstruction teams were consulted in complex surgery planning whenever vascular injuries were anticipated or flaps needed for reconstruction. Cases involving the urinary tract were discussed jointly with the urologic oncology team. While we lacked brachytherapy at our university, external beam radiation and conventional chemotherapeutic drugs were available.

Once our main service was well established, we explored further obstacles facing us such as the lack of funds, absence of palliative care, and insufficient access to minimally invasive surgery. Our team's vision to improve our services employed the UTOPIA model (Figure 3). In 2018, the expertise of the University of Cape Town, South Africa in palliative care helped extend our multidisciplinary team to include pain management, physical therapy, psychiatry, and clinical nursing staff. The following year we observed the skills of the surgeons in the gynecologic oncology division, University of Sacred Heart, Italy to introduce sentinel lymph node mapping in our surgeries. In 2020, with the support of the Union of International Cancer Control (UICC), we benefited from the expertise of the King Hussein Cancer Center, Jordan in providing comprehensive cancer care at an affordable cost. Our future vision is to develop the next generation of gynecologic oncologists through creation of a sub-specialized fellowship. We hope this generation will continue our journey to travel to corners of the world, collaborate internationally, and bring innovative experiences to strengthen our healthcare system and provide quality services to our patients.

Correspondence to Dr Ahmed Abdelbadee, Obstetrics & Gynecology, Assiut University Faculty of Medicine, Assiut 71515, Egypt; ahmedhefna2015@gmail.com

Twitter Ahmed Abdelbadee @AhmedAHefnawy and Hisham Abou-Taleb @AbouTalebHisham

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ORCID iD Ahmed Abdelbadee http://orcid.org/0000-0003-4414-5247

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