

***Baher Elgohari, M.D., M.Sc., M.B.B.Ch.***

[elgohariba@upmc.edu](mailto:elgohariba@upmc.edu)

***EDUCATION***

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***2021- Current***

***Radiation Oncology Resident***

*UPMC University of Pittsburgh, Department of Radiation Oncology, Pittsburgh, PA, USA*

***2020 - 2021***

***General surgery Resident (PGY-I Preliminary)***

*Columbia University Medical Center, Harlem Hospital Center, Harlem, New York, USA*

***2019- 2020:***

***Radiation Oncology Clinical Fellowship***

*MD Anderson Cancer Center The University of Texas, Department of Radiation Oncology, Houston, TX, USA.*

***2017- 2019:***

***Radiation Oncology Research Fellowship***

*MD Anderson Cancer Center The University of Texas, Department of Radiation Oncology, Houston, TX, USA.*

***2019- 2020:***

***Certificate program in Biomedical Informatics***

*The University of Texas, Health Science Center at Houston, School of Biomedical informatics, Houston, TX, USA.*

***2017-Current:***

***Doctor of Philosophy in Clinical Oncology (Ph.D.), Joint supervision scholarship program for Ph.D. research.***

*Faculty of Medicine, Mansoura University, Mansoura, Egypt.*

***2009-2013***

***Master of Science in Clinical oncology (M.Sc.).***

*Faculty of Medicine, Mansoura University, Department of Clinical Oncology & Nuclear Medicine Mansoura, Egypt.*

**2001-2007**

***Bachelor of Medicine & Surgery (M.B.B.Ch.).***

*Faculty of Medicine, Mansoura University, Mansoura, Egypt.*

## ***PROFESSIONAL EXPERIENCE***

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**7/2020 - 6/2021**

***General Surgery Resident (PGY-I) Preliminary year, General Surgery Department, Harlem Hospital Center, Harlem, New York, USA***

I am currently a general surgery resident intern for a preliminary year before starting my radiation oncology residency training next year for four years. I am currently involved in the management of surgical patients during their pre-operative phase and post-operative settings during their recovery phase, also managing their postoperative complications. Also, I am involved in the management of trauma cases that is presented to our trauma center.

**7/2019 – 6/2020**

***Clinical Fellow, Radiation Oncology Department, MD Anderson Cancer Center, Houston, TX, USA***

Supervisor: Prajnan Das, M.D., M.S., MPH, FACR

During my current rotation, I rotated across my services in the radiation oncology started with GI, followed by thorax, lymphoma, CNS/Pediatrics and Head/Neck. I am involved in patient clinical care regarding preparing cases of the clinic, physical examination, attending simulations, contouring, review the contours with the attending and radiotherapy plans when ready for review. Also, I take care of the weekly see cases to assess the treatment toxicity and prescribe any needed medication. I also attended the different tumor board meetings and present cases when needed. I attended the planning clinic conference and educational seminars.

**2/2017- 6/2019**

***Research Fellow (Visiting Scientist), Radiation Oncology Department, MD Anderson Cancer Center, Houston, TX***

Supervisor: Clifton David Fuller, M.D., Ph.D.

During my period in Dr. David Fuller's lab, I focused on the use of multimodality imaging to aid radiation treatment delivery and study treatment-related toxicities especially the use of functional (multi-parametric) magnetic resonance imaging (MRI) as a biomarker to predict

tumor and normal tissue responses to radiation therapy in head and neck cancer patients. This effort is coherent with my Ph.D. research thesis that I am doing as a part of joint supervision program between The University of Texas MD Anderson Cancer Center and Mansoura University Faculty of Medicine and expected to graduate from the Ph.D. program by summer 2019.

I am also a co-investigator in studying the correlation of liquid biopsy and circulating tumor cells and functional MRI as a surrogate for tumor and surrounding normal tissues biology, treatment response, and radiation-related toxicities.

I am also spearheading a project involving the use of big data application in radiation oncology to integrate imaging and non-imaging data, including spatial and non-spatial information extracted from daily images through radiomics, and apply this to develop decision-making tools to aid clinical decision making and provide more personalized and adaptive therapy. I was responsible for generating a large head and neck database including demographics, treatment outcomes and toxicity data as well as extracting radiomics features from baseline diagnostic images to be included with clinical data in machine learning model. I was also responsible for maintaining the databases integrity, updating the database periodically, and maintaining a standardized nomenclature for data collection. I am also a co-investigator in other projects involving the development of auto-segmentation tools, image registration, and dose-response modeling to study radiation therapy toxicity.

***1/2014-1/2017***

***Clinical (Radiation) Oncology fellowship (Assistant Lecturer), Mansoura University Cancer Center, Egypt.***

During my fellowship, I was trained extensively in the treatment of many types of cancer. I was exposed to a wide variety of cases in the outpatient/inpatients settings and attended many multidisciplinary tumor boards. I participated in the creation of the database for breast and head and neck cancers. I worked in collaboration with surgical, medical and radiation oncologist, nurse staffs, residents, fellows, and study sponsor to prepare new clinical trials. I assisted in the preparation of study protocols, submission process to IRB, and screening and consenting eligible patients to clinical trials.

I was involved in the education and mentoring junior resident/undergraduate training by providing scientific talks, presentations, journal clubs and also providing hands-on training courses.

***POSTGRADUATE TRAINING***

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***7/2019-6/2020***

***Clinical Fellow Radiation Oncology***

*The University of Texas, MD Anderson Cancer Center, Houston, TX, USA.*

***Supervisor: Prajnan Das, M.D., M.S., MPH, FACR***

***2/2017-6/2019***

***Research Fellow Radiation Oncology***

*The University of Texas, MD Anderson Cancer Center, Houston, TX, USA.*

***Supervisor: Clifton D Fuller, M.D., Ph.D.***

***1/2014-1/2017***

***Clinical (Radiation) Oncology Fellowship***

*Mansoura University Cancer Center, Mansoura, Egypt.*

***Supervisor: Mohammed Elawadi, M.D., Ph.D.***

***10/2016-11/2016***

***VMAT Treatment Planning hands-on course***

*Inholland University of Applied Science, Haarlem, Netherlands.*

***Supervisor: Jelle Scheurleer, M.Sc.***

***7/2014-8/2014***

***Molecular Biology Training Course***

*Smith College, Northampton, Massachusetts, USA.*

***Supervisor: Steven A. Williams, M.S., Ph.D.***

***9/2009-12/2013***

***Clinical Oncology & Nuclear Medicine Residency***

*Mansoura University Cancer Center, Mansoura, Egypt.*

***Supervisor: Ahmed Elshahat, M.D., Ph.D.***

***1/2010-3/2011***

***Mandatory Military service***

*Training Facility Physician, Egypt.*

***3/2009-9/2009***

***Primary care Physician***

*Ministry of Health and population, Mansoura, Egypt.*

***3/2008-2/2009***

***Internship rotation***

*Mansoura University, Mansoura, Egypt.*

## ***RESEARCH EXPERIENCE***

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***I have been involved in many clinical trials design, patients' screening for eligibility and approaching to explain and consent to participate in them.***

- Co-investigator, a project entitled "Using Magnetic Resonance Imaging (MRI) to Assess Normal Tissue and Tumor Response to Radiation Therapy". University of Texas MD Anderson Cancer Center, Protocol PA16-0302.
- Co-investigator, a project entitled "Bayesian Phase II Trial of Magnetic Resonance Imaging-Guided Radiotherapy Dose Adaptation in Human Papilloma Virus Positive Oropharyngeal Cancer". University of Texas MD Anderson Cancer Center, Protocol 2015-0851.
- Co-investigator, a project entitled, entitled "Gastrostomy Tube Placement and Use in Head and Neck Cancer Patients Treated with Non-Surgical Modalities". University of Texas MD Anderson Cancer Center, Protocol DR09-0348.
- Co-investigator, a project entitled "Further Optimization of MR Workflow Sequences for Image-registration, Bulk Density Assignment, Target Delineation, and Dose Calculation for Head and Neck Cancers". University of Texas MD Anderson Cancer Center, Protocol PA15-0418.
- Co-investigator, a project entitled "Molecular and microbial drivers of cervical cancer progression and response to therapy". University of Texas MD Anderson Cancer Center, Protocol 2014-0543.
- Co-investigator, a project entitled "Serial magnetic resonance imaging of longitudinal radiotherapy-attributable normal tissue injury". University of Texas MD Anderson Cancer Center, Protocol PA14-0807.
- Co-investigator, a project entitled "Comparative Effectiveness Outcomes of Head and Neck Malignancies, National Cancer Database". University of Texas MD Anderson Cancer Center, Protocol PA18-0428.
- Co-investigator, a project entitled "Prospective Data Collection of Symptom Burden in Patients Previously Treated for Head and Neck Cancer". University of Texas MD Anderson Cancer Center, Protocol DR09-0891.
- Co-investigator, a project entitled "Quantification of tumor imaging kinetics and blood biomarkers in non-HPV associated head and neck cancer patients". University of Texas MD Anderson Cancer Center protocol PA16-1041.

***PUBLICATIONS***

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***Accepted:***

- **B. Elgohari**, T. Luciani, H. Elhalawani, A. S. Mohamed, G. Canahuate, D. Vock, C. D. Fuller, and G. E. Marai. Correlating Toxicity Outcomes with Spatial Patterns of Lymph Node Metastasis for Oropharyngeal Cancer Patients. Accepted to American Society of Radiation Oncology (ASTRO) annual meeting 2019.
- **B. Elgohari**, A. Wentzel, P. Hanula, T. Luciani, H. Elhalawani, C. E. Cardenas, B. Edwards, A. S. Mohamed, G. Canahuate, D. Vock, C. D. Fuller, and G. E. Marai. Cohort-Based Spatial Similarity Can Predict Radiotherapy Dose Distribution. Accepted to American Society of Radiation Oncology (ASTRO) annual meeting 2019.
- S. Stieb, A. S. Mohamed, **B. Elgohari**, H. Elhalawani, G. M. Engeseth, T. S. Deshpande, J. P. Reddy, J. Phan<sup>1</sup>, W. H. Morrison, D. I. Rosenthal<sup>1</sup>, A. S. Garden, S. J. Frank, G. B. Gunn, and C. D. Fuller. Implementation of a Delineation Guideline for Dorsal Tongue Mucosa and ROI-specific Analysis of Dose-related Dysgeusia. Accepted to American Society of Radiation Oncology (ASTRO) annual meeting 2019.
- Sonja Stieb, **Baher Elgohari**, Clifton David Fuller Repetitive MRI of organs at risk in head and neck cancer patients undergoing radiotherapy. Clinical and Translational Radiation Oncology 2019, doi.org/10.1016/j.ctro.2019.04.014.
- S. P. Ng, H. Bahig, A. Jethanandani, C. Pollard III, E. M. Sturgis, F. M. Johnson, **B. Elgohari**, J. P. Reddy, G. B. Gunn, J. Phan, D. I. Rosenthal, W. H. Morrison, S. J. Frank, C. D. Fuller, and A. S. Garden. Prognostic Significance Of Pre-Treatment Neutrophil-To-Lymphocyte Ratio In Patients With Oropharyngeal Cancer Treated With Radiotherapy. Accepted to American Society of Radiation Oncology (ASTRO) annual meeting 2019.
- H. Bahig, L. E. Colbert, A. Mitra, T. Solley, A. Y. Delgado Medrano, S. P. Ng, I. Abu-Gheida, D. I. Rosenthal, **B. Elgohari**, C. D. Fuller, and A. H. Klopp. Characterization of the Oropharyngeal Microbiome during Radiotherapy in HPV-associated Oropharynx Cancer. Accepted to American Society of Radiation Oncology (ASTRO) annual meeting 2019.
- H. Elhalawani, A. S. Mohamed, **B. Elgohari**, T. Lin, A. Sikora, S. Lai, J. Phan, W. H. Morrison, G. B. Gunn, D. I. Rosenthal, A. S. Garden, C. D. Fuller, and V. C. Sandulache. Tobacco exposure as a major modifier of oncologic outcomes in Human

- papillomavirus mediated oropharyngeal squamous cell carcinoma. Accepted to American Society of Radiation Oncology (ASTRO) annual meeting 2019.
- H. Elhalawani, D. Mackin, **B. Elgohari**, A. S. Mohamed, S. Volpe, P. Yang, S. Stieb, A. Sikora, V. C. Sandulache, S. Lai, J. Phan, W. H. Morrison, G. B. Gunn, D. I. Rosenthal, A. S. Garden, L. E. Court, and C. D. Fuller. Impact of Human Papillomavirus Infection And Tobacco Exposure On Oropharyngeal Squamous Cell Carcinoma Biology From A Radiomics Perspective. Accepted to American Society of Radiation Oncology (ASTRO) annual meeting 2019.
  - Hesham Elhalawani , **Baher Elgohari** , Timothy A. Lin, Abdallah S.R. Mohamed, Thomas J. Fitzgerald , Fran Laurie , Kenneth Ulin , Jayashree Kalpathy-Cramer , Thomas Guerrero , Emma B. Holliday , Gregory Russo , Abhilasha Patel , William Jones , Gary Walker , Musaddiq Awan , Mehee Choi , Roi Dagan , Omar Mahmoud, Anna Shapiro , Feng-Ming (Spring) Kong , Daniel Gomez , Jing Zeng , Femke Spoelstra , Laurie Gaspar , Lisa Kachnic , , Charles R. Thomas Jr., Paul Okunieff , Clifton D. Fuller. An In-Silico Quality Assurance Study of Contouring Target Volumes in Thoracic Tumors within a Cooperative Group Setting. *Clinical and Translational Radiation Oncology* 2019, 15, 83-92.
  - Sahil K. Kapur, **Baher A. Elgohari**, Jun Liu, Katherine A. Hutcheson, Clifton D. Fuller, Peirong Yu. Effect of Reconstructed Oropharyngeal Conduit Volume on Functional Outcomes. Accepted to AAPS annual meeting 2019.
  - Sweet Ping Ng, Carolyn S Hall, Salyna Meas, Vanessa Sarli, Houda Bahig, **Baher Elgohari**, Amy Moreno, Heath Skinner, Adam Garden, David Rosenthal, William Morrison, Jack Phan, G Brandon Gunn, Steven Frank, Clifton Fuller, Anthony Lucci. Circulating tumor cells and cfDNA changes during radiotherapy in patients with head and neck cancer. Accepted to AACR annual meeting 2019.
  - Mona Kamal; David Rosenthal; Aakash Batra; Stefania Volpe; **Baher Elgohari**; Ryan Goepfert; Adam Garden; Jack Phan; Salman Eraj; Amy Dursteler; Bowman Williams; Joshua Smith; Jeremy Aymard; Joel Berends; Aubrey White; Amit Jethanandani; Carlos Cardenas; Steven Frank; William Morrison; Erich Sturgis; Charles Cleeland; Tito Mendoza; Abdallah Mohamed; Clifton Fuller; G.Branbon Gunn. Fatigue following radiation therapy in nasopharyngeal cancer survivors: a dosimetric analysis incorporating patient report and observer rating. *Radiotherapy and Oncology* 2019, 133, 35-42.
  - Timothy A. Lin, BA; Adam S. Garden, MD; Hesham Elhalawani, MD; **Baher Elgohari,MD**; Amit Jethanandani, BS, MPH; Sweet P. Ng, MBBS; Abdallah S. Mohamed, MD; Steven J. Frank, MD; Bonnie S. Glisson, MD; J. Matthew Debnam, MD; Erich M. Sturgis, MD, MPH; Jack Phan, MD, PhD; Jay P. Reddy, MD, PhD; Clifton D. Fuller, MD, PhD; William H. Morrison, MD; Heath D. Skinner, MD,

- PhD; David I. Rosenthal, MD; G. Brandon Gunn, MD. Radiographic Retropharyngeal Lymph Node Involvement in Human Papillomavirus-Associated Oropharyngeal Carcinoma: Patterns of Involvement and Impact on Patient Outcomes. *Cancer* 2019, DOI: 10.1002/cncr.31944.
- Diffusion-Weighted MRI As an Early Biomarker of Xerostomia in Oropharyngeal Cancer Patients Treated with Radiation Therapy. **B. Elgohari**, A. S. Mohamed, S. P. Ng, H. Elhalawani, A. K. Elsayes, R. He, Y. Ding, J. Wang, M. Elawadi, I. Awad, K. A. Hutcheson, G. B. Gunn, S. J. Frank, A. S. Garden, D. I. Rosenthal, S. Lai, and C. D. Fuller. *International Journal of Radiation Oncology•Biology•Physics* 2018, 102 (3) E214-E215.
  - Fatigue following radiation therapy in nasopharyngeal cancer survivors: a dosimetric analysis incorporating patient report and observer rating. Mona Kamal; David Rosenthal; Aakash Batra; Stefania Volpe; **Baher Elgohari**; Ryan Goepfert; Adam Garden; Jack Phan; Salman Eraj; Amy Dursteler; Bowman Williams; Joshua Smith; Jeremy Aymard; Joel Berends; Aubrey White; Amit Jethanandani; Carlos Cardenas; Steven Frank; William Morrison; Erich Sturgis; Charles Cleeland; Tito Mendoza; Abdallah Mohamed; Clifton Fuller; G. Brandon Gunn. *International Journal of Radiation Oncology•Biology•Physics* 2018, 102 (3) E749-E750.
  - Retropharyngeal Lymph Node Involvement in Human Papillomavirus (HPV)-associated Oropharyngeal Cancer (OPC). Timothy Lin, Hesham Elhalawani, **Baher Elgohari**, Matthew Debnam, Amit Jethanandani, Sweet Ping Ng, Abdallah Mohamed, Steven Frank, Erich Sturgis, Jack Phan, Jay Reddy, Clifton Fuller, William Morrison, Heath Skinner, David Rosenthal, Adam Garden, G. Gunn. *International Journal of Radiation Oncology•Biology•Physics* 2018, 102 (3) S198-S199.
  - Development of Temporal Dose-weighted Positron Emission Tomography Metabolic Imaging Biomarkers (PET MIBs) of Radiation-related Parotid Glands Injury in Oropharyngeal Cancer Patients. Hesham Elhalawani, Stefania Volpe, Carlos Cardenas, Souptik Barua, Calvin Rock, Timothy Lin, Pei Yang, Haijun Wu, Jhankruti Zaveri, **Baher Elgohari**, Lamiaa Abdallah, Amit Jethanandani, Abdallah Mohamed, Katherine Hutcheson, G. Gunn, David Rosenthal, Steven Frank, Adam Garden, Arvind Rao, Clifton Fuller. *International Journal of Radiation Oncology•Biology•Physics* 2018, 102 (3) E240-E241.
  - Lymphopenia During Radiotherapy In Patients With Oropharyngeal Cancer: Does It Affect Survival Outcomes?. Sweet Ping Ng, Houda Bahig, Amit Jethanandani, Courtney Pollard, Joel Berends, Erich Sturgis, Faye Johnson, **Baher Elgohari**, Hesham Elhalawani, Abdallah Mohamed, David Rosenthal, Heath Skinner, G. Gunn, Jack Phan, Steven Frank, Clifton Fuller, Adam Garden. *International Journal of Radiation Oncology•Biology•Physics* 2018, 102 (3) E309.



- Investigation of radiomic signatures for local recurrence using primary tumor texture analysis in oropharyngeal head and neck cancer patients. Elhalawani H, Kanwar A, Mohamed ASR, White A, Zafereo J, Wong A, Berends J, Abohashem S, Williams B, Aymard JM, Perni S, Messer J, Warren B, Youssef B, Yang P, Meheissen MAM, Kamal M, **Elgohari B**, Ger RB, Cardenas CE, Fave X, Zhang L, Mackin D, Marai GE, Vock DM, Canahuate GM, Lai SY, Gunn GB, Garden AS, Rosenthal DI, Court L, Fuller CD. Scientific reports 2018, 8 (1), 1524.
- Predicting treatment Response based on Dual assessment of magnetic resonance Imaging kinetics and Circulating Tumor cells in patients with Head and Neck cancer (PREDICT-HN): Matching 'liquid biopsy' and quantitative tumor modeling. Sweet Ping Ng; Houda Bahig; JiHong Wang; Carlos E Cardenas; Anthony Lucci; Carolyn S Hall; Salyna Meas; Vanessa N Sarli; Ying Yuan; Diana L Urbauer; Yao Ding; Shane Ikner; Vi Dinh; **Baher A Elgohari**; Jason M Johnson; Heath D Skinner; G Brandon Gunn; Adam S Garden; Jack Phan; David I Rosenthal; William H Morrison; Steven J Frank; Katherine A Hutcheson; Abdallah SR Mohamed; Stephen Y Lai; Renata Ferrarotto; Michael P MacManus; Clifton D Fuller. BMC cancer 2018, 18 (1), 903.
- Deep Learning for Head and Neck Segmentation in MR: A Tool for the MR-Guided Radiotherapy. B Anderson, **B Elgohari**, C Cardenas, A Mohamed, P Yang, C Fuller, C Chung, K Brock. Medical Physics, 2018, 45 (6), E634-E634.
- Evaluating the effect of right-censored endpoint transformation for radiomic feature selection of oropharyngeal cancer patient data. Luka Zdilar; David Vock; G. Elisabeta Marai; Clifton D. Fuller; Abdallah Mohamed; Hesham Elhalawani; **Baher Elgohari**; Carly Tiras; Austin Miller; Guadalupe Canahuate. JCO clinical cancer informatics 2018, 2, 1-19.
- Deep Learning Algorithm for Auto-Delineation of High-Risk Oropharyngeal Clinical Target Volumes with Built-in Dice Similarity Coefficient Parameter Optimization Function. Cardenas CE, McCarroll RE, Court LE, **Elgohari BA**, Elhalawani H, Fuller CD, Kamal MJ, Meheissen MAM, Mohamed ASR, Rao A, Williams B, Wong A, Yang J, Aristophanous M. International Journal of Radiation Oncology\*Biology\*Physics, 2018, 101(2), 468-478.
- Improve IVIM & DCE Map Using Convex Optimization with Higher-Order Total-Variation Regularizations. R He, Y Ding, A Mohamed, H Elhalawani, R Ger, **B Elgohari**, J Wang, K Brock, C Chung, K Hutcheson, S Frank, S Lai, C Fuller. Medical Physics 2018, 45(6), E215-E215.
- Radiotherapeutic Advances in non-small cell lung cancer. **Elgohari Baher**; Elshahat Ahmed; Elhendawy Elsaid; Tosson Eman: Mansoura University Press, 2013.

**Submitted:**

- Sonja Stieb, **Baher Elgohari**, Abdallah S.R. Mohamed, Renjie He, Tanaya S. Deshpande, Adam S. Garden, David I. Rosenthal, William Morrison, Jack Phan, Jay P. Reddy, G. Brandon Gunn, Mark S. Chambers, Steven J. Frank, Katherine A.

- Hutcheson, Stephen Y. Lai, Clifton D. Fuller. Prospective assessment of diffusion-weighted magnetic resonance imaging as a biomarker of radiation-induced dysgeusia in head and neck cancer. Submitted to RSNA 2019.
- Molly M. McCulloch, Guillaume Cazoulat, Alex C. Ford, Daniel F. Polan, **Baher A. Elgohari**, Hesham M. Elhalawani, Abdallah S. Mohamed, Christine B. Peterson, Jason B. King, Andrew D. Kim, Andrea N. Ohrt, Clifton D. Fuller, Stephan Lai, Kristy K. Brock. Biomechanical Modeling of Dose-Induced Volumetric Changes of the Parotid Glands for Deformable Image Registration. Submitted to AAPM 2019.
  - Brigid A. McDonald, Andrea N. Ohrt, Sastry Vedam, **Baher Elgohari**, Jinzhong Yang, Jihong Wang, Clifton D. Fuller, Kristy K. Brock. Independent Validation of Deformable Image Registration for MR-Guided Adaptive Radiotherapy for Head and Neck Cancers. Submitted to AAPM 2019.
  - Guillaume Cazoulat, Molly M McCulloch, **Baher A. Elgohari**, Hesham M. Elhalawani, Abdallah S. Mohamed, Clifton D Fuller, Kristy K Brock. Composition of deformation vector fields for dose mapping during head and neck adaptive radiotherapy. Submitted to 2019.
  - Rachel Ger, Shouhao Zhou, Dennis Mackin, Hesham Elhalawani, **Baher Elgohari**, Joseph Meier, Clifton Fuller, Rebecca Howell, Rick Layman, Heng Li, Osama Mawlawi, Jason Stafford, Laurence Court. Harmonizing Imaging Protocols: Impact on Radiomics Survival Prediction in Large Patient Cohorts. Submitted to AAPM 2019.
  - Christopher MKL. Yao, **Baher E. Elgohari**, Carla Warneke, Jhankruti Zaveri, Ryan Goepfert, Stephen Y. Lai, C. David Fuller, Adam S. Garden, Jan S. Lewin, Neil D. Gross, Katherine A. Hutcheson. Tumor volume as a predictor of post-treatment dysphagia for HPV-related oropharyngeal cancer. Submitted to IAOO 2019.
  - Katherine A. Hutcheson, Carla Warneke, Christopher Yao, Jhankruti Zaveri, **Baher Elgohari**, Ryan Goepfert, Amy C. Hessel, Michael E. Kupferman, Stephen Y. Lai, C. David Fuller, G. Brandon Gunn, Adam Garden, Faye Johnson, Renata Ferrarotto, Jan S. Lewin, Neil Gross. Evolution of postsurgical dysphagia after TORS for oropharyngeal cancer and recovery compared to non-surgical therapy: A prospective registry analysis. Submitted to JAMA otolaryngology 2019.
  - Timothy Luciani, **Baher Elgohari**, Hesham Elhalawani, Guadalupe Canahuate, David Vock, Clifton D Fuller, Georgeta Marai. A Spatial Neighborhood Methodology for Computing and Analyzing Lymph Node Carcinoma Similarity in Precision Medicine. Submitted to Journal of Biomedical Informatics 2019.

*POSTER PRESENTATION*

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- **B. Elgohari**, A. S. Mohamed, S. P. Ng, H. Elhalawani, A. K. Elsayes, R. He, Y. Ding, J. Wang, M. Elawadi, I. Awad, K. A. Hutcheson, G. B. Gunn, S. J. Frank, A. S. Garden, D. I. Rosenthal, S. Lai, and C. D. Fuller. Diffusion-Weighted MRI As an Early Biomarker of Xerostomia in Oropharyngeal Cancer Patients Treated with Radiation Therapy. Accepted at: American Society for Radiation Oncology (ASTRO), October 2018, San Antonio, TX.
- Mona Kamal; David Rosenthal; Aakash Batra; Stefania Volpe; **Baher Elgohari**; Ryan Goepfert; Adam Garden; Jack Phan; Salman Eraj; Amy Dursteler; Bowman Williams; Joshua Smith; Jeremy Aymard; Joel Berends; Aubrey White; Amit Jethanandani; Carlos Cardenas; Steven Frank; William Morrison; Erich Sturgis; Charles Cleeland; Tito Mendoza; Abdallah Mohamed; Clifton Fuller; G. Branbon Gunn. Fatigue following radiation therapy in nasopharyngeal cancer survivors: a dosimetric analysis incorporating patient report and observer rating. Accepted at: American Society for Radiation Oncology (ASTRO), October 2018, San Antonio, TX.
- B Anderson, **B Elgohari**, C Cardenas, A Mohamed, P Yang, C Fuller, C Chung, K Brock. Deep Learning for Head and Neck Segmentation in MR: A Tool for the MR-Guided Radiotherapy. Accepted at: AAPM meeting, July 2018, Nashville, Tennessee.
- R He, Y Ding, A Mohamed, H Elhalawani, R Ger, **B Elgohari**, J Wang, K Brock, C Chung, K Hutcheson, S Frank, S Lai, C Fuller. Improve IVIM & DCE Map Using Convex Optimization with Higher-Order Total-Variation Regularizations. Accepted at: AAPM meeting, July 2018, Nashville, Tennessee.
- Hesham Elhalawani, Stefania Volpe, Carlos Cardenas, Souptik Barua, Calvin Rock, Timothy Lin, Pei Yang, Haijun Wu, Jhankruti Zaveri, **Baher Elgohari**, Lamiaa Abdallah, Amit Jethanandani, Abdallah Mohamed, Katherine Hutcheson, G. Gunn, David Rosenthal, Steven Frank, Adam Garden, Arvind Rao, Clifton Fuller. Development of Temporal Dose-weighted Positron Emission Tomography Metabolic Imaging Biomarkers (PET MIBs) of Radiation-related Parotid Glands Injury in Oropharyngeal Cancer Patients. Accepted at: American Society for Radiation Oncology (ASTRO), October 2018, San Antonio, TX.
- Timothy Lin, Hesham Elhalawani, **Baher Elgohari**, Matthew Debnam, Amit Jethanandani, Sweet Ping Ng, Abdallah Mohamed, Steven Frank, Erich Sturgis, Jack Phan, Jay Reddy, Clifton Fuller, William Morrison, Heath Skinner, David Rosenthal, Adam Garden, G. Gunn. Retropharyngeal Lymph Node Involvement in Human Papillomavirus (HPV)-associated Oropharyngeal Cancer (OPC). Accepted at: American Society for Radiation Oncology (ASTRO), October 2018, San Antonio, TX.

- Sweet Ping Ng, Houda Bahig, Amit Jethanandani, Courtney Pollard, Joel Berends, Erich Sturgis, Faye Johnson, **Baher Elgohari**, Hesham Elhalawani, Abdallah Mohamed, David Rosenthal, Heath Skinner, G. Gunn, Jack Phan, Steven Frank, Clifton Fuller, Adam Garden. Lymphopenia During Radiotherapy In Patients With Oropharyngeal Cancer: Does It Affect Survival Outcomes? Accepted at: American Society for Radiation Oncology (ASTRO), October 2018, San Antonio, TX.
- Lin T, Mohamed ASR, Elhalawani H, Volpe S, Jethanandani A, Yang P, Rock CB, **Elgohari B**, Ger RB, Fuller CD. HPV Status in Oropharyngeal Cancer Patients: A Correlation between Tumor Biology and Metabolic Imaging Parameters. Accepted at: American College of Physicians Annual Meeting, April 2018, New Orleans.
- Elhalawani H, Volpe S, Jethanandani A, Ger RB, Rock CB, Lin T, Yang P, **Elgohari B**, Mohamed ASR, Fuller CD. FDG-PET Imaging Correlates of HPV status: Finding the missing jigsaw pieces in the OPC Biology/Metabolism Puzzle. Presented at: M.D. Anderson Cancer Metabolism (2017) Symposium, October 5-6, TX.
- Cardenas C, McCarroll R, Court L, **Elgohari B**, Elhalawani H, Fuller CD, Jomaa M, Meheissen M, Mohamed AS, Rao A, Williams B, Wong A, Yang J, Aristophanous M. Deep Learning On Clinically-Clustered Patients Improves Auto-Delineation of Oropharyngeal High-Risk Clinical Target Volumes. (2017) Scientific Abstracts and Sessions. Med. Phys., 44: 2721–3318.

### *ORAL PRESENTATION*

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- **B. Elgohari**, L. V. van Dijk, A. S. Mohamed, S. P. Ng, H. Bahig, R. He, Y. Ding, S. Dubey, J. Fahim, T. Williamson, M. Elawadi, I. Awad, J. Wang, K. A. Hutcheson, G. B. Gunn, D. I. Rosenthal, A. S. Garden, S. Lai, and C. D. Fuller. Mid-Treatment Apparent Diffusion Coefficient Predicts Late Xerostomia Following Head & Neck cancer radiotherapy. ASTRO annual meeting 2020, October 25-28, 2020.
- Cardenas C, McCarroll R, Court L, Elgohari B, Elhalawani H, Fuller CD, Jomaa M, Meheissen M, Mohamed AS, Rao A, Williams B, Wong A, Yang J, Aristophanous M. Deep Learning Algorithm for Auto-Delineation of High-Risk Oropharyngeal Clinical Target Volumes with Built-in Dice Similarity Coefficient Parameter Optimization Function. 59<sup>th</sup> AAPM 2017 Meeting, July 30- August 3, Denver, Colorado.
- Elgohari B. Management of locally advanced breast cancer. European School of Oncology (ESO), 5th Arab countries Masterclass in Clinical Oncology, 28-30 October 2016, Cairo, Egypt.
- Elgohari B. Cardiotoxicity of anticancer therapy, Clinical Oncology and nuclear medicine Scientific Day, Mansoura University, December 2015, Mansoura, Egypt.

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***HONORS AND AWARDS***

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- **2019** R25 FRONTI2ER (Fellow and Resident Radiation Oncology iNtensive Training in Imaging and Informatics to Empower Research Careers) Fellow - NIBIB funded, MD Anderson Cancer Center, The University of Texas, Houston, TX, USA.
- **2019** Neusoft Certificate Scholarship UTHealth School of biomedical Informatics, Houston, TX, USA.
- **2016** Mansoura University travel grant to attend the VMAT Treatment Planning hands-on course, Inholland University of Applied Science, Haarlem, Netherlands.
- **2016** European School of Oncology (ESO), travel grant to attend and give an oral presentation in the 5th Arab countries Masterclass in Clinical Oncology, Cairo, Egypt.
- **2016** International Scholarship award from the Egyptian Ministry of Higher Education for a Joint Supervision Ph.D. program, Egypt.
- **2014** Travel grant to KASO-Oncology Academy GIT cancer course, Cairo, Egypt.
- **2013** Travel grant to Kasr Al Aini School of Oncology Breast Cancer Master Class.
- **2013** Travel grant to 10th Annual Meeting of Mansoura Clinical Oncology & Nuclear Medicine Department, Cairo, Egypt.
- **2009** Travel grant to 9th Annual Meeting of Mansoura Clinical Oncology & Nuclear Medicine Department, Cairo, Egypt.
- **2008** Diploma of Honors Mansoura University, Mansoura, Egypt.

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***COURSES***

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- **2018** Clinical statistics course, MD Anderson Cancer Center, Houston, TX.
- **2017** Writing Persuasive R01 Proposals: Faculty Workshop, MD Anderson Cancer Center, Houston, TX.
- **2016** Research Skills course, Urology Center, Mansoura University, Egypt
- **2015** Egyptian Society of Head Neck Oncology From 2D to 3D & IMRT in Head and neck cancer.
- **2015** The 6th International Training course in scientific writing and Publications.
- **2015** 9th MOA Training course in 3D conformal radiotherapy in pelvic malignancy.
- **2014** KASO – Oncology Academy GIT cancer educational interactive course.
- **2014** Research Methodology and Medical Statistics Course Mansoura University.
- **2013** Kasr Al Aini School of Oncology Breast Cancer Master Class.

- **2013** Presentation skills at faculty and Leadership Development Center at Mansoura University Development Center.
- **2013** International Publishing of scientific Research Course Faculty and Leadership Development Center, University Development Center, Mansoura University.
- **2013** Competing for Research Funds Course, Faculty and Leadership Development Center, University Development Center, Mansoura University.
- **2013** Communication Skills at faculty and Leadership Development Center at Mansoura University Development Center.
- **2013** Quality standards in the Education Process at faculty and Leadership Development Center at Mansoura University Development Center.
- **2013** Credit Hours System at faculty and Leadership Development Center at Mansoura University Development Center.
- **2009** Neonatal Resuscitation Training Course.
- **2009** Basic life support course.
- **2009** Management of common chest diseases.
- **2008** Intensive Medical Course by Eldakahlia Medical Syndicate.
- **2008** Basics of chest radiology.

***CONFERENCES***

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- **2018** American Society for Radiation Oncology (ASTRO) annual meeting, San Antonio.
- **2017** Radiology Society of North America (RSNA) annual meeting, Chicago.
- **2016** The 8th BGICC “Breast – Gynecological International Cancer Conference”
- **2015** Interactive Forums on Oncology (Metastatic Renal cell carcinoma)
- **2015** Ain Shams University Clinical Oncology Conference (Radiotherapy in Lung cancer)
- **2015** The 12th MOA Breast & GIT Pathology (Pathologist, Surgeon, and Oncologist: Hand in Hand).
- **2014** The 6th BGICC “Breast – Gynecological International Cancer Conference”
- **2013** The 10th Annual Meeting of Mansoura Clinical Oncology & Nuclear Medicine Department
- **2012** The 4th BGICC “Breast – Gynecological International Cancer Conference”
- **2009** The 9th Annual Meeting of Mansoura Clinical Oncology & Nuclear Medicine

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***MEMBERSHIP IN PROFESSIONAL SOCIETIES***

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- American Society of Therapeutic Radiology and Oncology (ASTRO): member.
- European School of Medical Oncology (ESMO): member.
- European Society of Therapeutic Radiology and Oncology (ESTRO): member.
- Radiological Society of North America (RSNA): member
- Egyptian Medical Syndicate: member.
- Egyptian Society of Cancer: member.
- Egyptian Association for American Training and Research (EAMTAR): member.

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***LICENSURE AND CERTIFICATION***

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- **2018** Educational Commission for Foreign Medical Graduates (ECFMG) certificate (0-787-480-3).
- **2009** Egyptian Ministry of Health and Population: Unrestricted medical license number (200727).

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***PERSONAL QUALIFICATIONS***

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- **Software:** JMP, SPSS, EndNote, various image registration and segmentation radiation oncology-based software, like Velocity, Eclipse, Monaco and RayStation among others & IBEX (Imaging Biomarker Explorer): for quantitative multi-modality bio-medical imaging analytics. Data visualization software Tableau.
- **Basic Molecular Biology Technique:** RNA and DNA purification, cDNA synthesis, polymerase chain reaction (PCR) and RT-qPCR.
- **Languages:**
  - Arabic (Mother tongue)
  - English (fluently written and spoken)

*References*

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