

PERSONAL INFORMATION

Francesco Multinu, MD



📍 Via Giuseppe Ripamonti, 435, 20141 Milano MI (Italy)

✉ francesco.multinu@ieo.it – multinu.francesco@mayo.edu

Nationality Italian

Last updated February 28, 2019

WORK EXPERIENCE

February 2018 – Present

Clinical Fellow in Gynecologic Oncology

Division of Gynecologic Surgery
European institute of Oncology (IEO) - Milan

February 2018 – Present

Research Collaborator

Division of Gynecology Surgery, Department of Obstetrics and Gynecologic, Mayo Clinic, Rochester, Minnesota

September 2014 - January
2018 (3 years & 5 months)

Research Fellowship

Division of Gynecology Surgery, Department of Obstetrics and Gynecologic, Mayo Clinic, Rochester, Minnesota
Mentor: Dr A. Mariani

EDUCATION AND TRAINING

January 2015 – October
2017

Master in Clinical and Translation Research

Mayo Clinic Graduate School of Biomedical Research, Rochester, MN

Master Director: Prasad Iyer, M.D.

Thesis Title: " The Morcellation Controversy: using the Rochester Epidemiology Project and the NSQIP database to determine the incidence of sarcoma among women undergoing hysterectomy and the effect on surgical complications".

Mentors: Drs S. Laughlin-Tommaso and A. Mariani

July 5, 2012–July 10, 2017

Residency in Obstetrics and Gynecology (5-year program)

Division of Obstetrics and Gynecology, Department of Surgical Sciences, University of Cagliari (Italy). Director: Prof GB Melis

Vote 50 / 50 (GPA 4.0), cum laude

2005-2011

Medical School (6-year program)

University of Sassari, Sassari (Italy)

Vote 110 / 110 (GPA 4.0)

2010-2011

1-year Internship

Division of Obstetrics and Gynecology, University of Sassari

Director: Prof S. Dessole

2008-2009

1-year Internship

Division of Plastic Surgery, University of Sassari

Director: Prof GV Campus

December 2006

Internship

IFMSA (International Federation of Medical Student)

Department of General Surgery, Hospital Emilio Carlos, Catanduva SP, Brasil

Director: Dr Raul Jose de Andrade Vianna Jr

1999–2004

High School

Liceo Scientifico "Giovanni Spano", Sassari (Italy)

PERSONAL SKILLS

Mother tongue(s) Italian

Other language(s)

	UNDERSTANDING		SPEAKING		WRITING
	Listening	Reading	Spoken interaction	Spoken production	
English	C2	C2	B2	B2	B2
Portuguese	B1	B1	B1	B1	B1

Levels: A1/A2: Basic user - B1/B2: Independent user - C1/C2: Proficient user

[Common European Framework of Reference for Languages](#)

Computer skills Good command of Microsoft ® Windows and Office package (Word, Excel, PowerPoint, OneNote, EndNote, Visio and Outlook).

Proficiency with statistical software (e.g. JMP, R)

ADDITIONAL INFORMATION

Memberships

Member of ESGO – European Society Gynecology Oncology
Member of ASCO - American Society of Clinical Oncology
Member of SGO – Society of Gynecologic Oncology

Bibliography

Peer-reviewed Articles

1. Litta, P., Leggieri, C., Conte, L., Dalla Toffola, A., **Multinu, F.**, Angioni, S. *Monopolar versus bipolar device: safety, feasibility, limits and perioperative complications in performing hysteroscopic myomectomy*. Clinical and experimental obstetrics & gynecology 2014; vol: 41(3):335-8.
2. Bogani G, Dowdy SC, Cliby WA, Gostout BS, Kumar S, Ghezzi F, **Multinu F**, Mariani A. Incisional Recurrences After Endometrial Cancer Surgery. Anticancer Res. 2015 Nov; 35: (11)6097-104. PMID: 26504035
3. Angioni, S., Cofelice, V., Sedda, F., Loi, E.S., **Multinu, F.**, Pontis, A., Melis, G.B. *Progestins for symptomatic endometriosis: Results of clinical studies*. Current Drug Therapy, Volume 10, 2015, Pages 91-104
4. Pontis, A., Nappi, L., Sedda, F., **Multinu, F.**, Litta, P., Angioni, S; Management of bladder endometriosis with combined transurethral and laparoscopic approach. Follow-up of pain control, quality of life, and sexual function at 12 months after surgery (2016) Clinical and Experimental Obstetrics and Gynecology, 43 (6), pp. 836-839.
5. Bogani G, **Multinu F**, Dowdy SC, Cliby WA, Wilson TO, Gostout BS, Weaver AL, Borah BJ, Killian JM, Bijlani A, Angioni S, Mariani A. Incorporating robotic-assisted surgery for endometrial cancer staging: Analysis of morbidity and costs. Gynecol Oncol. 2016 May; 141 (2):218-224 Epub 2016 Feb 16 PMID: 26896826 DOI: 10.1016/j.ygyno.2016.02.016
6. Uccella S, Morris JM, **Multinu F**, Cliby WA, Podratz KC, Gostout BS, Dowdy SC, Ghezzi F, Makdisi PB, Keeney GL, Link MJ, Mariani A. Primary brain metastases of endometrial cancer: A report of 18 cases and review of the literature. Gynecol Oncol. 2016 Jul; 142: (1)70-75. PMID: 27095189 DOI: 10.1016/j.ygyno.2016.04.013
7. Zanfagnin V, Ferrero A, Biglia N, Aletti G, Gill SE, Makdisi PB, **Multinu F**, Mariani A. The role of surgery in recurrent endometrial cancer. Expert Rev Anticancer Ther. 2016 Jul; 16: (7)741-50. PMID: 27269480 DOI: 10.1080/14737140.2016.1190650
8. Harris FR, Kovtun IV, Smadbeck J, **Multinu F**, Jatoi A, Kosari F, Kalli KR, Murphy SJ, Halling GC, Johnson SH, Liu MC, Mariani A, Vasmatzis G. Quantification of Somatic Chromosomal Rearrangements in Circulating Cell-Free DNA from Ovarian Cancers. Sci Rep. 2016 Jul 20; 6:29831 Epub 2016 July 20 PMID: 27436510 PMCID: 4951715 DOI: 10.1038/srep29831
9. Kumar A, Moynagh MR, **Multinu F**, Cliby WA, McGree ME, Weaver AL, Young PM, Bakkum-Gamez JN, Langstraat CL, Dowdy SC, Jatoi A, Mariani A. Muscle composition measured by CT scan is a measurable predictor of overall survival in advanced ovarian cancer. Gynecol Oncol. 2016 Aug; 142 (2):311-6 Epub 2016 June 02 PMID: 27235857 DOI: 10.1016/j.ygyno.2016.05.027
10. Walther-Antonio MR, Chen J, **Multinu F**, Hokenstad A, Distad TJ, Cheek EH, Keeney GL, Creedon DJ, Nelson H, Mariani A, Chia N. Potential contribution of the uterine microbiome in the development of endometrial cancer. Genome Med. 2016 Nov 25; 8 (1):122 PMID: 27884207 PMCID: 5123330 DOI: 10.1186/s13073-016-0368-y
11. **Multinu F**, Casarin J, Mariani A. POINT: Is lymphadenectomy required in endometrial cancer for adequate surgical staging? Oncology (08909091). 2017; 31: (5)390-401.
12. Nitschmann CC, **Multinu F**, Bakkum-Gamez JN, Langstraat CL, Occhino JA, Weaver AL, Cliby WA, Mariani A, Dowdy SC. Vaginal vs. robotic hysterectomy for patients with endometrial cancer: A comparison of outcomes and cost of care. Gynecol Oncol. 2017 Jun; 145 (3):555-561 Epub 2017 Apr 06 PMID: 28392125 DOI: 10.1016/j.ygyno.2017.03.002
13. Kumar A, Torres ML, Cliby WA, Kalli KR, Bogani G, Aletti G, Nitschmann CC, **Multinu F**, Weaver AL, Block MS, Mariani A. Inflammatory and Nutritional Serum Markers as Predictors of Peri-operative Morbidity and Survival in Ovarian Cancer. Anticancer Res. 2017 Jul; 37 (7):3673-3677 PMID: 28668859 DOI: 10.21873/anticancer.11738
14. Bogani G, Gostout BS, Dowdy SC, **Multinu F**, Casarin J, Cliby WA, Frigerio L, Kim B, Weaver AL, Glaser GE, Mariani

- A. Clinical Utility of Preoperative Computed Tomography in Patients With Endometrial Cancer. *Int J Gynecol Cancer*. 2017 Oct; 27 (8):1685-1693 PMID: 28704325 DOI: 10.1097/IGC.0000000000001076
15. Chien J, Neums L, Powell AFLA, Torres M, Kalli KR, **Multinu** F, Shridhar V, Mariani A. Genetic Evidence for Early Peritoneal Spreading in Pelvic High-Grade Serous Cancer. *Front Oncol*. 2018; 8:58 Epub 2018 Mar 07 PMID: 29594039 PMCID: 5858520 DOI: 10.3389/fonc.2018.00058
 16. Casarin J, **Multinu** F, Ubl DS, Dowdy SC, Cliby WA, Glaser GE, Butler KA, Ghezzi F, Habermann EB, Mariani A. Adoption of Minimally Invasive Surgery and Decrease in Surgical Morbidity for Endometrial Cancer Treatment in the United States. *Obstet Gynecol*. 2018 Feb; 131 (2):304-311 PMID: 29324598 DOI: 10.1097/AOG.0000000000002428
 17. **Multinu** F, Harrington SC, Chen J, Jeraldo PR, Johnson S, Chia N, Walther-Antonio MR. Systematic Bias Introduced by Genomic DNA Template Dilution in 16S rRNA Gene-Targeted Microbiota Profiling in Human Stool Homogenates. *mSphere*. 2018 Mar-Apr; 3 (2) Epub 2018 Mar 14 PMID: 29564398 PMCID: 5853488 DOI: 10.1128/mSphere.00560-17
 18. **Multinu** F, Casarin J, Hanson KT, Angioni S, Mariani A, Habermann EB, Laughlin-Tommaso SK. Practice Patterns and Complications of Benign Hysterectomy Following the FDA Statement Warning Against the Use of Power Morcellation. *JAMA Surg*. 2018 Jun 20; 153 (6):e180141 Epub 2018 June 20 PMID: 29641835 PMCID: 6145653 DOI: 10.1001/jamasurg.2018.0141
 19. **Multinu** F, Mariani A, Laughlin-Tommaso SK. Reducing the Rate of Minimally Invasive Hysterectomy for Fibroids in Favor of Abdominal Surgery-There Is Always Something Evil in Good Intentions-Reply. *JAMA Surg*. 2018 Aug 22 [Epub ahead of print] PMID: 30140898 DOI: 10.1001/jamasurg.2018.2733
 20. Casarin J, **Multinu** F, Pasupathy K, Weaver A, McGree M, Tortorella L, Torres D, Kumar A, Langstraat C, Huang Y, Ghezzi F, Mariani A, Glaser G. Frozen Section for Detection of Lymph Nodes After Cervical Injection with Indocyanine Green (ICG) for Sentinel Lymph Node Technique in Endometrial Cancer Staging. *Ann Surg Oncol*. 2018 Nov; 25 (12):3692-3698 Epub 2018 Aug 16 PMID: 30116949 DOI: 10.1245/s10434-018-6698-9
 21. Casarin, J., **Multinu, F.**, Abu-Rustum, N., Cibula, D., Cliby, W.A., Ghezzi, F., Leitao, M., Konishi, I., Nam, J.-H., Querleu, D., Soliman, P.T., Yost, K.J., Weaver, A.L., Mariani, A., Glaser, G.E. Factors influencing the adoption of the sentinel lymph node technique for endometrial cancer staging: an international survey of gynecologic oncologists (2019) *International journal of gynecological cancer : official journal of the International Gynecological Cancer Society*, 29 (1), pp. 60-67.
 22. Tortorella L, Casarin J, Mara KC, Weaver AL, **Multinu** F, Glaser GE, Cliby WA, Scambia G, Mariani A, Kumar A. Prediction of short-term surgical complications in women undergoing pelvic exenteration for gynecological malignancies. *Gynecol Oncol*. 2018 Nov 8 Epub 2018 Nov 08 PMID: 30414740 DOI: 10.1016/j.ygyno.2018.10.036
 23. **Multinu** F, Casarin J, Tortorella L, Yajue H, Weaver A, Angioni S, Melis GB, Mariani A, Stewart EA, Laughlin-Tommaso SK. Incidence of Sarcoma in Patients Undergoing Hysterectomy for Benign Indications: A Population-Based Study. *Am J Obstet Gynecol*. 2018 Nov 14 [Epub ahead of print] PMID: 30447212 DOI: 10.1016/j.ajog.2018.11.1086

Poster and Abstract Presentations at Professional Meetings, Conferences

1. Faye R. Harris, Irina Kovtun, James Smadbeck, **Francesco Multinu**, Aminah Jatoi, Kimberly R. Kalli, Stephen J. Murphy, Geoffrey C. Halling, Farhad Kosari, Sarah H. Johnson, Andrea Mariani, George Vasmatazis. *Quantification of somatic chromosomal rearrangements in circulating cell-free DNA from ovarian cancers*. [abstract]. In: Proceedings of the 107th Annual Meeting of the American Association for Cancer Research; 2016 Apr 16-20; New Orleans, LA. Philadelphia (PA): AACR; Cancer Res 2016;76(14 Suppl):Abstract nr 440.
2. **Multinu F**, Ducie JA, Eriksson AGZ, Schlappe B, Cliby WA, Dowdy SC, Abu-Rustum NR, Weaver AL, Leitao MM Jr., Mariani A. *Role of lymphadenectomy and adjuvant treatment in high-risk endometrial cancer with positive lymph nodes: Comparison of an historical series with comprehensive surgical staging and a contemporary series with sentinel lymph nodes*. SGO 2017 48th Annual Meeting on Women's Cancer in National Harbor, MD
3. **F. Multinu**, J. Chen, M. Torres, M. Walther-Antonio, D. Visscher, V. Shridhar, Jamie N. Bakkum-Gamez, Mark E. Sherman, Nicolas Wentzensen, A. Mariani. *DNA methylation as a predictor of future malignancies in benign or hyperplastic endometrial biopsies*. SGO 2017 48th Annual Meeting on Women's Cancer in National Harbor, MD
4. Casarin J, Habermann E, Ubl D, **Multinu F**, Dowdy SC, Cliby WA, Glaser G, Mariani A.
Reduction in morbidity and mortality after the implementation of minimally invasive surgery for the treatment of patients with endometrial cancer in the United States. SGO 2017 48th Annual Meeting on Women's Cancer in National Harbor, MD
5. Zanfagnin V, Casarin J, **Multinu F**, K.J. Schoolmeester K.J, Huang,Y, McGree,M, Cliby, B.A., Dowdy,S.C., Ferrero A, and Mariani A. *Macrometastases in the pelvic lymph nodes as predictors of multiple pelvic and para-aortic node involvement in endometrial cancer*. SGO 2017 48th Annual Meeting on Women's Cancer in National Harbor, MD
6. Casarin J, **Multinu F** , Weaver A, Tortorella L, Cliby W, Dowdy SC, Bakkum-Gamez J, Kumar A, Langstraat C, Ghezzi F, Glaser G, Mariani A. *Surgical morbidity of robotic-assisted sentinel lymph node biopsy vs. systematic pelvic lymphadenectomy for endometrial cancer staging: a propensity-matched analysis* International Journal Of Gynecological Cancer. 2017 Nov; 27:92-3
7. Casarin J, **Multinu F** , Abu-Rustum N, Cibula D, Cliby W, Ghezzi F, Leitao M, Konishi I, Nam JH, Querleu D, Soliman PT, Yost K, Weaver A, Mariani A, Glaser G. *Factors influencing the adoption of the sentinel lymph node technique for endometrial cancer staging: an international survey among gynecologic oncologists* International Journal Of Gynecological Cancer. 2017 Nov; 27:1925-6
8. Casarin J, **Multinu F** , Weaver A, McGree M, Tortorella L, Cliby W, Dowdy SC, Ghezzi F, Mariani A, Glaser G. *Frozen section revealing the absence of lymphatic tissue during sentinel lymph node biopsy in endometrial cancer staging* International Journal Of Gynecological Cancer. 2017 Nov; 27:185
9. Casarin J, Song C, **Multinu F** , Liu E, Butler K, Glaser G, Ghezzi F, Mariani A. *The implementation of robotic-assisted surgery for endometrial cancer in the united states lead to an improvement of overall 30 day surgical outcomes without increasing costs: is technology finally allowing the diffusion of minimally invasive surgery at a national level?* Value In Health. 2017 Oct-nov; 20(9):A472
10. Tortorella L, Casarin J, **Multinu F** , McGree M, Weaver A, Langstraat C, Keeney G, Kumar A, Scambia G, Mariani A, Glaser G. *Sentinel lymph node (sln) biopsy with cervical injection of indocyanine green (icg) in apparent early stage endometrial cancer (ec): predictors of unsuccessful mapping* International Journal Of Gynecological Cancer. 2017 Nov; 27:2033
11. Tortorella L, Casarin J, Mara K, Weaver A, **Multinu F** , Cliby W, Glaser G, Scambia G, Mariani A, Kumar A. *Prediction of short-term surgical complications in women undergoing pelvic exenteration for gynecological malignancies* International Journal Of Gynecological Cancer. 2017 Nov; 27:2032

Book chapters

1. **F. Multinu**, A. Mariani, - *Role of lymphadenectomy on Endometrial Cancer*. NSGO book on Endometrial cancer, Springer 2018 (in press)
2. Uccella S., Ghezzi F., Casarin J., **Multinu F.**, Bakkum-Gamez J., Mariani A. *Endometrial Cancers: Epidemiology and Treatment*. ESGO Gynecological Oncology Textbook (3rd Edition, 2016)

Research Grants Awarded

Co-Investigator

1. Ovarian Cancer Microbiome Signatures. Funded by Mayo Clinic Ovarian SPORE - Development Research Program. 11/2015 – 06/2016
2. Ovarian Cancer Microbiome Signatures. Funded by Minnesota Ovarian Cancer Alliance. 09/2016 – 09/2017
3. Ultrastaging of Negative Pelvic Lymph Node of Patients with Isolated Paraaortic Lymph Node Metastasis from Endometrial Cancer. Funded by SGP - Small Grants Program. 11/2015 – 10/2016
4. An Integrated Epigenetic and Microbiome Predictor for Endometrial Cancer. Funded by SGP - Small Grants Program. 1/2017 – 12/2017