




PERSONAL INFORMATION

Fabrizio Emiliano Maria Di Benedetto

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Sex M | Date of birth 10/01/1971 | Nationality Italian

Current Position: Full Professor of General Surgery (MED/18); Program Director of the Residency Program in General Surgery

PhD awarded less than 10 Years ago: No

Scientific Profile: Born and raised in Catania, Fabrizio Di Benedetto had his surgical education in Milan, and started his academical career in Modena. In 2007 he joined the Master in Hepatic Pancreatic and Biliary Cancers (“Diplome d’Université”) Onco-surgical Strategies at Hopital Paul Brousse, Villejuif – France. Currently he is full professor of surgery at University of Modena and Reggio Emilia, where he directs the hepato-pancreato-biliary surgery and liver transplantation unit, being in charge of the kidney transplant program, and he is also Program Director of the General Surgery Residency Program at University of Modena. He started a prolific HPB robotic program in 2014, reaching important milestones like the first full robotic ALPPS for hepatocellular carcinoma and cholangiocarcinoma and counting nowadays over 300 HPB robotic procedures. The program was further enriched in 2019 with the introduction of kidney procurement for LDKT and also robotic kidney transplant, and in 2022 with the first two cases of robotic donor hepatectomy for living donor liver transplantation. He is Fellow of the American College of Surgeons, leader of the Pancreas Study Group of ISLS, participate in the Special Interest Group of ILTS “Advanced Techniques in Hepatobiliary Surgery”, he is member of the board of the Italian registry of minimally invasive liver surgery (IgoMILS) and faculty of the School of Robotic Surgery in Grosseto and of the School of Liver Surgery of the Italian Society of Surgery (SIC), member of the European Surgical Association (ESA). He performed live robotic surgery during national and international Congresses (“Palazzini” Congress of Digestive Surgery in 2019, Italian Society of Surgery School of minimally invasive surgery in 2023 and 2024, International Society of Liver Surgeons in 2023). Robotic liver and pancreatic surgery, robotic liver transplantation, living donor liver transplant and transplant oncology are currently the field of research of Prof. Di Benedetto.

Bibliometric Indicator):

Publications: 328; # Citations 5771;

H index 40 (Scopus);

H Index (5 y): 47; i10Index 195 (Google Scholar)

GOLDEN PARAGRAPH

WORK EXPERIENCE

2004-2008

Clinical Fellow at the Liver and Multivisceral Transplant Centre of the University of Modena and Reggio Emilia, where I carried out the teaching activity in the class of General Surgery and Anatomy in the Medicine Course of the University of Modena and Surgical Techniques for the Residents in General Surgery.

2009-2013

Director of the Liver Surgery and Transplantation Unit in the Policlinico Hospital in Modena. This Unit has lately been confirmed as “Oncological HPB Surgery and Liver Transplantation Unit” since April 2012.

2013-2018

Head of the Surgical Oncology, HPB Surgery and Liver Transplantation Unit at Policlinico University Hospital of Modena.

- Since July 13th 2015 I'm member of the Research Board of the “Policlinico” University Hospital of Modena, MO, Italy.
- Since April 1st 2015 I'm member of the National Transplant Center Committee on the activity and results of transplant in HIV patients

2008-2018

Associate Professor in General Surgery at the University of Modena and Reggio Emilia.

2018-current

Full Professor of General Surgery at the University of Modena and Reggio Emilia and became Director of the Department of Surgical Oncology, HPB Surgery and Liver Transplantation Unit at Policlinico University Hospital of Modena.

2020-current

expert advisor of HPB Surgery at Santa Maria Nuova Hospital in Reggio Emilia - Institute for Treatment and Research.

EDUCATION AND TRAINING

1989-1995

Degree in Medicine and Surgery at the University of Catania Faculty of Medicine and Surgery, mark 110/110 with honors, with the thesis entitled "The function of the anal sphincter in ultra-low colo-rectal anastomosis".

1996-2001

Residency in General Surgery at the University of Catania, finished on November discussing the thesis: "Isolated small-bowel transplantation: indications, surgical procedures and outcomes" (final mark 70/70 and honors).

From February 1997 to November 2000, as part of the residency program in General Surgery, I attended the General Surgery and Abdominal Transplantation Department at the "Niguarda" Hospital, Milan, Italy; where I assisted in all the phases of organ procurement and transplantation (liver, pancreas and kidney); I also assisted in all kind of procedures in general surgery, regarding HPB surgery and alimentary tract.

- From February to April 2000 I attended as visiting resident at the Jackson Memorial Hospital at the University of Miami in the Liver and Multivisceral Transplant Unit, Dir. Dr. A. G. Tzakis, being involved in HPB surgery, multi-organ retrieval and liver transplantation from cadaveric and living donors, small-bowel and multivisceral transplantation. I was also involved in the enrolment of new candidates for the Multivisceral and small-bowel program and after transplantation, in the follow-up phases of the recipients. I was instructed in the performance of Zoom Ileoscopy for early diagnosis of acute rejection. Finally, I was involved in the enrolment of patients in novel immunosuppressive protocols.

2001-2004,

PhD in the Oncology program, University of Catania, with the Thesis: "Treatment of HCC on cirrhosis."

2007

Master in Hepatic Pancreatic and Biliary Cancers ("Diplome d'Universit "): Onco-surgical Strategies at the Faculty of Medicine, Universit Paris XI, Hopital Paul Brousse, Centre H pato-Biliaire Henri Bismuth, Villejuif – France.

2011

- "Advanced Course of Laparoscopic Surgery", in Tuttlingen (Germany).
- "Advanced Course of Laparoscopic Liver Surgery", in Ghent (Belgium).

November 2013:

Advanced Robotic HPB Surgery Course, Scuola Speciale ACOI di Chirurgia Mininvasiva Robotica, Ospedale Misericordia di Grosseto.

January 2014:

Use of da Vinci Platform Course, Lainate.

May 2014:

Basic skills course in robotic surgery course, Scuola Speciale ACOI di Chirurgia Mininvasiva Robotica, Ospedale Misericordia di Grosseto.

November 2015

Advanced Course of robotic donor nephrectomy, Live Surgery – Clinical Practice – Dry Lab. Milano, Ospedale Niguarda Ca' Granda.

May 2018:

Healthcare Management Course, University of Modena and Reggio Emilia.

January 2019:

Visiting Professor at Cleveland Clinic Abu Dhabi, HPB Surgery and Transplantation (Abu Dhabi, UAE).

March 2023:

Visiting Professor at King Faisal Hospital, Riyadh, Living Donor Liver Transplantation and Donor Hepatectomy Program (Saudi Arabia)

PERSONAL SKILLS

Organisational / managerial skills

- leadership (currently responsible for a team of 9 people)
- organizing research teams

ADDITIONAL INFORMATION

Most relevant publications in the last 10 Years

1. Sucandy I, Marques HP, Lippert T, Magistri P, Coelho JS, Ross SB, Chumbinho B, Di Sandro S, DiBenedetto F. Clinical Outcomes of Robotic Resection for Perihilar Cholangiocarcinoma: A First, Multicenter, Trans-Atlantic, Expert-Center, Collaborative Study. *Ann Surg Oncol.* 2023 Sep 18. doi: 10.1245/s10434-023-14307-4. Epub ahead of print. PMID: 37718337.
2. Magistri P, Pang NQ, Guidetti C, Caracciolo D, Odorizzi R, Catellani B, Guerrini GP, Di Sandro S, Di Benedetto F. Robotic approach for perihilar cholangiocarcinoma: from Bismuth 1 to vascular resection. *Eur J Surg Oncol.* 2023 Aug 1:107002. doi: 10.1016/j.ejso.2023.107002. Epub ahead of print. PMID: 37599146.
3. Lauterio A, Cillo U, Spada M, Trapani S, De Carlis R, Bottino G, Bernasconi D, Scalamogna C, Pinelli D, Cintonaro D, D'Amico FE, Spagnoletti G, Miggino M, Romagnoli R, Centonze L, Caccamo L, Baccarani U, Carraro A, Cescon M, Vivarelli M, Mazaferro V, Ettore GM, Rossi M, Vennarecci G, De Simone P, Angelico R, Agnes S, Di Benedetto F, Lupo LG, Zamboni F, Zefelippo A, Patrono D, Diviaco P, Larghi Laureiro Z, Gringeri E, Di Francesco F, Lucianetti A, Valsecchi MG, Gruttadauria S, De Feo T, Cardillo M, De Carlis L, Colledan M, Andorno E. Improving outcomes of in situ split liver transplantation in Italy over the last 25 years. *J Hepatol.* 2023 Jul 27:S0168-8278(23)04988-7. doi: 10.1016/j.jhep.2023.07.009. Epub ahead of print. PMID: 37516203.
4. Krenzien F, Schmelzle M, Pratschke J, Feldbrügge L, Liu R, Liu Q, Zhang W, Zhao JJ, Tan HL, Cipriani F, Hoogteijling TJ, Aghayan DL, Fretland ÅA, Siow TF, Lim C, Scatton O, Herman P, Coelho FF, Marino MV, Mazzaferro V, Chiow AKH, Sucandy I, Ivanecz A, Choi SH, Lee JH, Gastaca M, Vivarelli M, Giuliante F, Valle BD, Ruzzenente A, Yong CC, Chen Z, Yin M, Fondevila C, Efanov M, Morise Z, Di Benedetto F, Brustia R, Valle RD, Boggi U, Geller D, Belli A, Memeo R, Gruttadauria S, Mejia A, Park JO, Rotellar F, Choi GH, Robles-Campos R, Wang X, Sutcliffe RP, Hasegawa K, Tang CN, Chong CCN, Lee KF, Meurs J, D'Hondt M, Monden K, Lopez-Ben S, Kingham TP, Ferrero A, Ettore GM, Pascual F, Cherqui D, Zheng J, Liang X, Soubrane O, Wakabayashi G, Troisi RI, Cheung TT, Kato Y, Sugioka A, Dokmak S, D'Silva M, Han HS, Nghia PP, Long TCD, Hilal MA, Chen KH, Fuks D, Aldrighetti L, Edwin B, Goh BKP; International robotic and laparoscopic liver resection study group investigators. Propensity Score-Matching Analysis Comparing Robotic Versus Laparoscopic Limited Liver Resections of the Posterosuperior Segments: An International Multi-Center Study. *Ann Surg.* 2023 Jul 24. doi: 10.1097/SLA.0000000000006027. Epub ahead of print. PMID: 37485989.
5. Fundora Y, Hessheimer AJ, Del Prete L, Maroni L, Lanari J, Barrios O, Clarysse M, Gastaca M, Barrera Gómez M, Bonadona A, Janek J, Boscà A, Álamo Martínez JM, Zozaya G, López Garnica D, Magistri P, León F, Magini G, Patrono D,

- Ničovský J, Hakeem AR, Nadalin S, McCormack L, Palacios P, Zieniewicz K, Blanco G, Nuño J, Pérez Saborido B, Echeverri J, Bynon JS, Martins PN, López López V, Dayangac M, Lodge JPA, Romagnoli R, Toso C, Santoyo J, Di Benedetto F, Gómez-Gavara C, Rotellar F, Gómez-Bravo MÁ, López Andújar R, Girard E, Valdivieso A, Pirenne J, Lladó L, Germani G, Cescon M, Hashimoto K, Quintini C, Cillo U, Polak WG, Fondevila C. Alternative forms of portal vein revascularization in liver transplant recipients with complex portal vein thrombosis. *J Hepatol.* 2023 Jan 21:S0168-8278(23)00018-1. doi: 10.1016/j.jhep.2023.01.007. Epub ahead of print. PMID: 36690281.
6. Di Benedetto F, Magistri P, Di Sandro S, Sposito C, Oberkofler C, Brandon E, Samstein B, Guidetti C, Papageorgiou A, Frassoni S, Bagnardi V, Clavien PA, Citterio D, Kato T, Petrowsky H, Halazun KJ, Mazzaferro V; Robotic HPB Study Group. Safety and Efficacy of Robotic vs Open Liver Resection for Hepatocellular Carcinoma. *JAMA Surg.* 2023 Jan 1;158(1):46-54. doi: 10.1001/jamasurg.2022.5697. PMID: 36416833; PMCID: PMC9685546.
 7. Degroote, Helena, Piñero, Federico, Costentin, Charlotte, Notarpaolo, Andrea, Boin, Ilka F, Boudjema, Karim, Baccaro, Cinzia, Chagas, Aline Lopes, Bachelier, Philippe, Ettore, Giuseppe Maria...(2021). International study on the outcome of locoregional therapy for liver transplant in hepatocellular carcinoma beyond Milan criteria. *JHEP REPORTS*, vol. 3, p. 100331, ISSN: 2589-5559, doi: 10.1016/j.jhepr.2021.100331
 8. Chong CC, Fuks D, Lee KF, Zhao JJ, Choi GH, Sucandy I, Chiow AKH, Marino MV, Gastaca M, Wang X, Lee JH, Efanov M, Kingham TP, D'Hondt M, Troisi RI, Choi SH, Sutcliffe RP, Chan CY, Lai ECH, Park JO, Di Benedetto F, Rotellar F, Sugioka A, Coelho FF, Ferrero A, Long TCD, Lim C, Scatton O, Liu Q, Schmelzle M, Pratschke J, Cheung TT, Liu R, Han HS, Tang CN, Goh BKP; International Robotic and Laparoscopic Liver Resection study group investigators. Propensity Score-Matched Analysis Comparing Robotic and Laparoscopic Right and Extended Right Hepatectomy. *JAMA Surg.* 2022 Mar 9:e220161. doi: 10.1001/jamasurg.2022.0161. Epub ahead of print. PMID: 35262660; PMCID: PMC8908223.
 9. Avolio A. W., Franco A., Schlegel A., Lai Q., Meli S., Burra P., Patrono D., Ravaioli M., Bassi D., Ferla F., Pagano D., Violi P., Camagni S., Dondossola D., Montalti R., Alrawashdeh W., Vitale A., Teofili L., Spoletini G., Magistri P...(2020). Development and Validation of a Comprehensive Model to Estimate Early Allograft Failure among Patients Requiring Early Liver Retransplant. *JAMA SURGERY*, p. e204095-e204107, ISSN: 2168-6254, doi: 10.1001/jamasurg.2020.4095 -
 10. Cipriani F, Fiorentini G, Magistri P, Fontani A, Menonna F, Annecchiarico M, Lauterio A, De Carlis L, Coratti A, Boggi U, Ceccarelli G, Di Benedetto F, Aldrighetti L. Pure laparoscopic versus robotic liver resections: Multicentric propensity score-based analysis with stratification according to difficulty scores. *J Hepatobiliary Pancreat Sci.* 2021 Jul 22. doi: 10.1002/jhbp.1022. Epub ahead of print. PMID: 34291591.
 11. Magistri P, Boggi U, Esposito A, Carrano FM, Pesi B, Ballarin R, De Pastena M, Menonna F, Moraldi L, Melis M, Coratti A, Newman E, Napoli N, Ramera M, Di Benedetto F. Robotic vs open distal pancreatectomy: A multi-institutional matched comparison analysis. *J Hepatobiliary Pancreat Sci.* 2021 Dec;28(12):1098-1106. doi: 10.1002/jhbp.881. Epub 2021 Feb 3. PMID: 33314791.
 12. Di Benedetto F, Petrowsky H, Magistri P, Halazun KJ. Robotic liver resection: Hurdles and beyond. *Int J Surg.* 2020 Oct;82S:155-162. doi: 10.1016/j.ijsu.2020.05.070. Epub 2020 Jun 3. PMID: 32504813.
 13. De Pietri, Lesley, BIANCHINI, Marcello, Montalti, Roberto, De Maria, Nicola, DI MAIRA, Tommaso, BEGLIOMINI, Bruno, GERUNDA, Giorgio Enrico, DI BENEDETTO, Fabrizio, GARCIA TSAO, GUADALUPE, VILLA, Erica (2016). Thrombelastography-guided blood product use before invasive procedures in cirrhosis with severe coagulopathy: A randomized, controlled trial. *HEPATOLOGY*, vol. 63, p. 566-573, ISSN: 0270-9139, doi: 10.1002/hep.28148 -
 14. POTENZA, Leonardo, LUPPI, Mario, BAROZZI, Patrizia, ROSSI, Giulio,

COCCHI, Stefania, Codeluppi, Mauro, Pecorari, Monica, MASETTI, Michele, DI BENEDETTO, Fabrizio, Gennari, William...(2008). HHV-6A in syncytial giant-cell hepatitis. NEW ENGLAND JOURNAL OF MEDICINE, vol. 359, p. 593-602, ISSN: 0028-4793, doi: 10.1056/NEJMoa074479

Projects/Grants

Principal Investigator (P.I.) of the following research programs at “Azienda Ospedaliero-Universitaria Policlinico di Modena” (“Policlinico” University Hospital, Modena, Italy):

- Efficacia e sicurezza di Niuliva nella prevenzione delle reinfezioni da HBV in pazienti sottoposti per la prima volta a trapianto di fegato ortotopico (Efficacy and safety of Niuliva to prevent HBV recurrence in patients underwent liver transplant), num. Pratica 199, sigla studio “IG0907”, sponsor “Istituto Grifols S.A.”
- Compliance, tollerabilità e “efficacia – nella - pratica” di protocollo di profilassi con immunoglobulina iperimmune pasteurizzata (Igantibe) autorizzata all'impiego clinico nella prevenzione della recidiva di epatite B dopo trapianto di fegato (Compliance, tolerability and efficacy of a prophylaxis protocol of pasteurized hyper-immune immunoglobulins (Igantibe) to prevent HBV recurrence after liver transplantation), num. pratica 275, sigla studio GRITA-HLT-001-I4, sponsor “Grifols Italia S.p.A.”
- Studio in aperto, prospettico, a braccio singolo che indaga l'efficacia e la sicurezza dell'immunoglobulina umana anti-epatite B Zutectra in pazienti con trapianto di fegato (Single arm open prospective trial to study safety and efficacy of human immunoglobulin 5 anti-HBV (Zutectra) in patients underwent liver transplantation), num. pratica 145, sigla studio 987 – ZEUS, sponsor “Biotest AG”
- Escissione locale nei pazienti con risposta clinica maggiore o completa dopo radiochemioterapia preoperatoria per carcinoma del retto localmente avanzato (Local excision in patients with complete or major pathologic response after neoadjuvant radiochemotherapy for locally advanced adenocarcinoma of the rectum), num. pratica 305, sigla studio FIORICA –LARC, sponsor “Programma di ricerca Regione - Università 2010-2012 -Area 1 - Bando Giovani Ricercatori”
- Studio multicentrico, prospettico, randomizzato, controllato, in aperto, a gruppi paralleli per valutare la funzionalità renale di pazienti adulti trapiantati di fegato trattati con due regimi immunosoppressivi a base di everolimus (sospensione di tacrolimus vs. minimizzazione) fino a 12 mesi post-trapianto, con un follow-up di 6 mesi. Studio REFLECT (Multicentric prospective, controlled, randomized study with parallel groups to evaluate renal function in adult patients underwent liver transplantation and treated with two everolimus-based immunosuppressive regimens, REFLECT study), num. pratica 43, sigla studio REFLECT - CRAD001HIT34, sponsor “Novartis Farma S.p.A.”
- Registro italiano di resezioni epatiche mini-invasive nell'ambito dell'Associazione IGoMILS (Italian registry of minimally invasive liver resections of the IGoMILS Society), num. pratica 187, sigla studio IGoMILS, sponsor “Associazione IGoMILS – Olympus Italia S.r.l.”
- Participant in the COLT Trial, liver transplantation for non resectable liver metastasis from colorectal adenocarcinoma.
- P.I. of the LIVERMORE Trial - Living Donor Liver Transplantation for non resectable liver metastasis from colorectal adenocarcinoma.

Honours and awards

2010 Career Award by the National Association of Liver Transplantation “G. Gozzetti”, 15th Edition

2012 “Travel Award” at the ILTS (International Liver Transplant Society), San Francisco, CA, with the oral presentation: “Multicenter North-Italian Experience in Liver Transplantation for Hepatocellular Carcinoma in HIV co-infected patients”.

2015 Best podium presentation, at the 117 Congresso della Società Italiana di Chirurgia (SIC, Italian Society of Surgery), October 2015, Milan, Italy, with the oral presentation: “Trattamento chirurgico miniminvasivo dell'epatocarcinoma. Resezioni robotiche e laparoscopiche a confronto” (Minimally invasive surgical treatment of HCC. Comparing robotic and laparoscopic resections).

2017 Fellow of the American College of Surgeons

2022 Award “SITO - Società Italiana Trapianti d'Organo” (Italian Society for Organ

Transplantation): for the activation of the robotic donor hepatectomy program for living donor liver transplantation

According to law 679/2016 of the Regulation of the European Parliament of 27th April 2016, I hereby express my consent to process and use my data provided in this CV

Modena, 26-05-2024
Signature

