

MANUELA SPADEA, MD

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PRESENT POSITION

University of Turin, Regina Margherita Children's Hospital, Turin (Italy) 07/2022 - ongoing

Position : Assistant Professor of Pediatrics

Department: *Department of Pediatric and Public Health Sciences- Pediatric Onco-hematology, Stem Cell Transplant Service and Cell Therapy Division*

Co-investigator in several phase I-II-III Clinical Trials 07/2019 - ongoing

Co-PI of NCT05523336 Trial 08/2022 - ongoing

PREVIOUS PROFESSIONAL POSITIONS

Regina Margherita Children's Hospital, Turin (Italy) 12/2021 - 06/2022

Division: *Pediatric Onco-hematology, Stem Cell Transplant Service and Cell Therapy Division*

Position : Pediatric Oncologist Consultant

Study Coordinator in Turin Metropolitan Transplant Center 05/2021 - 05/2023

Private Practice (general pediatrics) 01/2018 - 11/2021

CLINICAL AND RESEARCH EXPERIENCE ABROAD

Boston Children's Hospital/Dana Farber Cancer Institute, Harvard Medical School, Boston (MA,USA) 03/2019 - 04/2019

Division: *Pediatric Onco-hematology, Stem Cell Transplant Service and Cell Therapy Division*

Position : Clinical observer

Tutor : Prof. Leslie Lehmann, MD.

Boston Children's Hospital/Dana Farber Cancer Institute, Harvard Medical School, Boston (MA,USA) 04/2019 - 06/2019

Division: Gene Therapy Program, Dana Farber/ Boston Children's Cancer and Blood Disorders Center

Position: Visiting Scientist

Tutor: Prof. Christian Brendel, PhD.

EDUCATION

Societa' italiana Medicina di Emergenza Urgenza pediatrica (SIMEUP) 05/2023
Pediatric Advanced Life Support- PALS

University of Milan (Italy) 11/2021 - 01/2022
Post-Graduate Course in Clinical Research- Corso di Perfezionamento in Ricerca clinica:
come disegnare studi randomizzati e osservazionali. Metodi per la valutazione dell'efficacia
e sicurezza degli interventi sanitari
Main Field: Clinical Research, Randomized Controlled Trials, Observational Studies

Regina Margherita Children's Hospital, University of Turin (Italy) 11/2016 - 11/2021
Residency in Pediatrics
Final mark: 70/70 *cum laude*
Thesis Title: *Multivariate Analysis of Immune Reconstitution and Relapse Risk Scoring in Children
Receiving Allogeneic Stem Cell Transplantation for Acute Leukemias*
Tutors: Prof. U. Ramenghi, Prof. F. Fagioli

National Professional Qualification as Physician - Albo TO 23859 02/2016

University of Pisa (Italy) 09/2009 - 10/2015
Master's Degree in Medicine and Surgery
Final Mark: 110/110 *cum laude*
Thesis Title: *Haploidentical stem cell transplantation: an analysis of innovative strategies and im-
mune reconstitution in patients of the pediatric hemato-oncology department of Pisa University Hospital.*
Tutors: MC Menconi, MD; Claudio Favre, MD

Scientific High School E. Majorana, Girifalco (CZ), Italy 09/2004 - 06/2009
Scientific High School Diploma
Final Mark: 100/100 *cum laude*

Music Conservatory F.Torrefranca, Vibo Valentia (VV), Italy 2007 - 2008
Solfeggio and lower level lyric vocal Diploma
Final Mark: 9/10

PUBLICATIONS

Peer-Reviewed Journal Publications

1. Saglio F, Berger M, **Spadea M**, Pessolano R, Carraro F, Barone M, and Fagioli F(2020). *Hap-
loidentical HSCT with post transplantation cyclophosphamide versus unrelated donor HSCT in
pediatric patients affected by acute leukemia*. Bone Marrow Transplant. 2021 Mar;56(3):586-595.
2. **Spadea M**, Carraro F., Saglio F., Pessolano R., Berger M., Vassallo E. and Fagioli F. *Successfully
treated severe COVID-19 and invasive aspergillosis in early hematopoietic cell transplantation
setting*. Transplant Infectious Disease (2020): e13470.
3. Del Borrello G, Giraudo I, Bondone C, Denina M, Garazzino S, Linari C, Mignone F, Pruccoli
G, Scolfaro C, **Spadea M**, Pollio B, Saracco P. *SARS-CoV-2 associated coagulopathy and throm-
boembolism prophylaxis in hospitalised children: a single center observational study*, J Thromb
Haemost. 2021 Feb;19(2):522-530.
4. **Spadea M**, Ciantelli M, Fossati N, Cuttano A. *Enhancing the future of simulation-based education
in pediatrics*. Ital J Pediatr. 2021 Feb 17;47(1):36.

5. Quarello P, Perotti D, Carli D, Giorgio E, Sirchia F, Brusco A, Ferrero GB, Mussa A, **Spadea M**, Ciceri S, Spreafico F, Fagioli F. *Wilms tumour occurring in a patient with osteopathia striata with cranial sclerosis: A still unsolved biological question*. *Pediatr Blood Cancer*. 2021;e29132.
6. Zucchetti G, Ciappina S, Bellini S, Dionisi Vici M, **Spadea M**, Biasin E, Fagioli F. *The Creation of a Transition Protocol Survey for Childhood, Adolescent, and Young Adult Cancer Survivors in Transition from Pediatric to Adult Health Care in Italy*. *J Adolesc Young Adult Oncol*. 2022 Apr;11(2):202-210.
7. Ceolin V, Cenna R, Resente F, **Spadea M**, Fagioli F, Bertorello N. *Guillain-Barre' syndrome after bortezomib therapy in a child with relapsed acute lymphoblastic leukemia*. *Pediatr Hematol Oncol*. 2021;1-6.
8. **Spadea M**, Saglio F, Tripodi SI, Menconi M, Zecca M, Fagioli F. *Multivariate analysis of immune reconstitution and relapse risk scoring in children receiving allogeneic stem cell transplantation for acute leukemias*. *Transplant Direct*. 2021;7(11):e774. Published 2021 Oct 6.
9. **Spadea M**, Saglio F, Pessolano R, Opramolla A, Calvo PL, Fagioli F. *Diagnosing acute intestinal graft-versus-host disease by a non-invasive method: transabdominal ultrasonography and colour doppler imaging*. *Lancet*. 2021;398(10306):1170.
10. **Spadea M**, Quarello P, Saglio F, Pedace L, Fagioli F. *GATA2-related myeloid neoplasms in pediatrics: where do we stand?*. *Pediatr Hematol Oncol*. 2021;1-5.
11. Berger M, Barone M, **Spadea M**, Saglio F, Pessolano R, Fagioli F. *HSCT with mismatched unrelated donors: Bone marrow versus peripheral blood stem cells sources in pediatric patients*. *Pediatr Transplant*. 2022 Jun;26(4):e14233.
12. Berger, M.; Barone, M.; Carnevale-Schianca, F.; De Gobbi, M.; Nicoli, P.; Caravelli, D.; Cilloni, D.; Paruzzo, L.; **Spadea M.**; Mareschi, K.; et al. *HSCT with Mismatched Unrelated Donors (MMUD): A Comparison of Different Platforms for GuHD Prophylaxis*. *Transplantation* 2022, 3, 51-67.
13. Mareschi K, Marini E, Niclot AGSB, Barone M, Pinnetta G, Adamini A, **Spadea M.**, Labanca L, Lucania G, Ferrero I, Fagioli F. *A New Human Platelet Lysate for Mesenchymal Stem Cell Production Compliant with Good Manufacturing Practice Conditions*. *Int J Mol Sci*. 2022 Mar 17;23(6):3234.
14. **Spadea M.**, Saglio F, Opramolla A, Rigazio C, Cisaro F, Berger M, Quarello P, Calvo PL, Fagioli F. *Non-Invasive Diagnosis of Pediatric Intestinal Graft-Versus-Host Disease: A Case Series*. *Transplantation*. 2022; 3(2):115-123.
15. Quarello, P.; Carli, D.; BIASONI, D.; Gerocarni Nappo, S.; Morosi, C.; Cotti, R.; Garelli, E.; Zucchetti, G.; **Spadea M.**; Tirtei, E.; et al. *Implications of an Underlying Beckwith–Wiedemann Syndrome for Wilms Tumor Treatment Strategies*. *Cancers* 2023, 15, 1292.
16. **Spadea M.**, Saglio F, Ceolin V, Barone M, Zucchetti G, Quarello P, Fagioli F. *Immune-mediated cytopenias (IMCs) after HSCT for pediatric non-malignant disorders: epidemiology, risk factors, pathogenesis, and treatment*. *Eur J Pediatr*. 2023 Jun;182(6):2471-2483.
17. Gurnari C, **Spadea M.**, Muratori R, Jimenez V, Radici V, Torrado S, Desai N, Roperio J, Muh-sen IN, Ibrahimova A, Du Toit J, Hendricks CL, Gagelmann N, Horgan C. *Inequalities in the career pathway for paediatric HSCT and cellular therapy physicians*. *Lancet Haematol*. 2023 Jul;10(7):e492-e494.
18. Zucchetti, G., Cagnazzo, C., Ciappina, S., Bertorello, N., Resente, F., **Spadea M.**, Ceolin, V., Fagioli, F. (2023). *How to manage symptoms in pediatric cancer patients enrolled in clinical trials?*

A review of principal patient-reported outcome screening tools. *AboutOpen*, 10(1), 110–118. <https://doi.org/10.33393/ao.2023.2630>

19. Pellegrino F, Coppo P, Barisone E, Bertorello N, **Spadea M.** and Franca Fagioli. A single scalp nodule as the first presentation of acute lymphoblastic leukemia (KMT2A::MLLT3) in a healthy-appearing infant: a case report. *Front Pediatr*. 2023;11:1254274. Published 2023 Dec 8. doi:10.3389/fped.2023.1254274
20. Zama D, Zanaroli A, Corbelli A, Lo Vecchio A, Del Bene M, Colombini A, Compagno F, Barone A, Fontanili I, D'Amico MR, Papa MR, Petris MG, Calore E, Montalto S, Meneghello L, Brescia L, Mura R, La Spina M, Muggeo P, Rinieri S, Meazza C, Perruccio K, Cellini M, **Spadea M.**, Micolini F, Petroni V, De Santis R, Soncini E, Provenzi M, Giurici N, Ziino O, Tridello G, Cesaro S. The SARS-CoV-2 infection in the pediatric oncology population: the definitive comprehensive report of Infectious Diseases Working Group (IDWG) of AIEOP. *J Infect Dis*. 2023 Nov 14;jiad496. doi: 10.1093/infdis/jiad496. Epub ahead of print. PMID: 37962869.
21. Ceolin, V, **Spadea M.**, Apolito, V, Saglio, F, Fagioli, F. Emerging CART Therapies for Pediatric Acute Myeloid Leukemia. *Journal of Pediatric Hematology/Oncology* 46(8):p 393-403, November 2024
22. V. Apolito, V. Ceolin, **Spadea M.**, R. Vitale, M. Barone, A. Tomatis, P. Quarello, F. Saglio, F. Fagioli. Cyclosporine plus methotrexate versus cyclosporine alone for graft-versus-host disease prophylaxis in pediatric patients undergoing hematopoietic stem cell transplantation from hla-identical siblings. *Journal of Cancer Research and Clinical Oncology*, 2025
23. Hendricks CL*, **Spadea M.***, Du Toit JR, Gurnari C, Muratori R, Jimenez V, Radici V, Torrado S, Desai N, Ibrahimova A, Muhsen IN, Roperio J, Gagelmann N, Horgan C. Global paediatric haematopoietic stem-cell transplantation training and access: providing strategies to overcome challenges. *Lancet Haematol*. 2025 Mar;12(3):e178-e179.
24. Pagano L, Maschmeyer G, Lamoth F, Blennow O, Xhaard A, **Spadea M.**, Busca A, Cordonnier C, Maertens J. ECIL-10 guidelines update on primary antifungal prophylaxis in hematological malignancies. *Leukemia*. 2025 accepted, in press

Selected conference papers

1. Menconi, M., **Spadea M.**, Giannelli, R., Bernasconi, S., Bulleri, M., Casazza, G., ... ,and Favre, C. (2016). Haploidentical Transplantation (haplo Hsct): high survival, low incidence of graft-versus- host-disease and fast immune reconstitution using Cd3 or Tcrab and Cd19 depletion in the experience of Pediatric Hematology Oncology Department of Pisa. *Bone Marrow Transplantation*, 51, S575-S574.
2. **Spadea M.**, Saglio F., Berger M., Carraro F., Pessolano R., Ricotti E., Vassallo E., Fagioli F. (2020). A new multivariate model to describe impact of immune reconstitution on the development of relapse in children undergoing allo-HSCT for hematologic malignancies at day +100. *BONE MARROW TRANSPLANTATION*. Vol. 55. No. SUPPL 1. CAMPUS, 4 CRINAN ST, LONDON, N1 9XW, ENGLAND: SPRINGER NATURE, 2020.
3. **Spadea M.**, Pruccoli G., Vitale R., Ceolin V., Apolito V., Saglio F., Fagioli (2023). No differences in epidemiology and impact of viral infections after allogeneic stem cell transplantation between children and young adults: a single center experience. *Bone Marrow Transplantation*, in press

Peer-Reviewed Chapters in Book

1. Fagioli F, Ceolin V, Saglio F, **Spadea M.** Il trapianto nel bambino e nell'età evolutiva. *Handbook. GITMO vol III I Ediz.* 2023 pagg 122-128

PRESENTATIONS

Invited Speaker- selected events

- 50th EBMT Annual Meeting. Title of the talk: *Survey to assess the global landscape of Pediatric BMT training and access*, Glasgow (UK), April 2024.
- 49th EBMT Annual Meeting. Title of the talk: *CMV infection after HSCT: challenges and hurdles*, Paris (France), April 2023.

Selected presentations

- Spadea M., Saglio F., Vassallo E., Ricci F., Fagioli F. (2019). Un unusual complication in the early post-transplant setting: immune polyneuropathy. 4th EBMT International Transplant Course, Barcelona, Spain.
- Spadea M. F. Saglio, V. Ceolin, G. Del Borrello and Franca Fagioli (2023). The endothelium involvement during CRS: first reported case of CAR-VOD. 5th EBMT-EHA CAR-T cell meeting, Rotterdam, The Netherlands

I have been invited as speaker or chair in several national and international conferences in Pediatrics and Pediatric Oncology and related fields.

AWARDS AND HONORS

- 2023: **Fred Hutch Cancer Center (Seattle, USA, WA) Travel Grant:** *4th Symposium on Infectious Diseases in the Immunocompromised Host*
- 2021: **Fondazione GIMBE (Bologna, Italy) Scholarship:** *Evidence Based Practice Core curriculum.*

SOCIETY MEMBERSHIP

EHA: European Hematology Association; **GITMO:** Gruppo Italiano per il Trapianto di Midollo Osseo, cellule staminali emopoietiche e terapie cellulari; **AIEOP:** Associazione Italiana Ematologia Oncologia Pediatrica; **EBMT:** European Society for Blood and Marrow Transplantation; **ECIL:** European Conference of Infections in Leukemia; **SEIFEM:** Epidemiological Surveillance of Infections in Hematological Diseases;

Infectious Disease and Supportive Therapy Working Group of AIEOP: Board Member.
Trainee Committee EBMT: Active Member.

Infectious Disease Working Party of the EBMT: member

ECIL10: working group member

LANGUAGES

- **Italiano**, Native Speaker
- **Inglese**, fluent, C1
- **Francese**, intermediate

MAIN SKILLS

Organization skills: Research projects scientific management. Group work. Adaptability in multicultural working environments. **Technical skills:** Windows e OS X. Text editor tools LATEX, BIBTEX, Microsoft Office, Open Office; Internet browsing Safari, Internet Explorer, Chrome, Opera; Search engines, PubMed and Google Scholar; familiarity with usage of statistical software R. **Laboratory skills:** restriction digest, bacterial transformation, preparation of plasmid DNA, sanger sequencing, transfection of cell lines for vector production, titration of the vector supernatants on indicator cell

lines, analyses of transduced cells by flow cytometry; design and cloning of gRNAs for CRISPR-Cas9 based tagging gene method.

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