

Centro per lo studio e la cura delle malattie tropicali

Descrizione

Responsabile Prof. Alessandro Bartoloni

Equipe

Valentina Petrini (assistente sanitario)

Costanza Fiorelli (medico)

Antonia Mantella (biologa)

Michele Spinicci (medico)

Lorenzo Zammarchi (medico)

Medici in formazione specialistica della Scuola di Specializzazione Malattie Infettive e Tropicali Dell'Università degli Studi di Firenze.

Il sempre più intenso movimento di persone che, per turismo o per motivi professionali, si recano in Paesi stranieri e i flussi migratori in costante aumento hanno determinato nell'ultimo ventennio la comparsa di patologie estranee alle nostre latitudini e la riscoperta di malattie ormai dimenticate.

Il Centro di Riferimento Regionale della Toscana per lo Studio e la Cura delle Malattie Tropicali nasce dall'esigenza di fornire un servizio a coloro che viaggiano all'estero e rientrano con sospetta patologia d'importazione e alle persone provenienti dalle aree più povere del pianeta, affetti da patologie la cui diagnosi e terapia richiedono mezzi e competenze mirate.

Il Centro è stato istituito con delibera della Giunta Regionale n. 216 del 2002 ed afferisce alla Struttura Organizzativa Dipartimentale [Malattie Infettive e Tropicali](#) dell'Azienda Ospedaliero-Universitaria Careggi.

Il Centro è costituito da un complesso integrato di laboratorio di ricerca, ambulatorio specializzato, Day Hospital e degenza ordinaria.

Il personale del Centro, afferente all'Azienda Ospedaliero-Universitaria Careggi e all'Università degli Studi di Firenze, mette a disposizione dei cittadini l'esperienza clinica e diagnostica, maturata in molti anni di attività clinica e di ricerca realizzate in Paesi Tropicali.

Attività

Attività assistenziale

- Consulenza clinica-diagnostica ai medici di base e colleghi specialisti per l'approccio diagnostico, clinico e terapeutico al paziente con sospetta patologia tropicale
- Assistenza diretta a persone con presunta patologia tropicale
- Attività nell'ambito della Medicina dei Viaggi e delle Migrazioni, in particolare, assistenza ai viaggiatori di ritorno da paesi tropicali e agli immigrati regolari e irregolari
- Attuazione di programmi di sorveglianza epidemiologica di malattie tropicali e di importazione in collaborazione con la Regione Toscana e con le strutture sanitarie locali
- Partecipazione a [TropNet](#), rete europea di sorveglianza delle patologie tropicali e d'importazione

Attività didattica

- Informazione, formazione e aggiornamento di studenti e del personale sanitario sui temi della Medicina Tropicale
- Organizzazione di seminari e congressi relativi all'approfondimento di temi specifici
- Organizzazione del Corso di perfezionamento in Medicina Tropicale e Cooperazione Sanitaria
- Organizzazione del Corso di perfezionamento in Ecografia e Malattie Infettive nei Paesi a Risorse Limitate
- Organizzazione del Master interuniversitario di I livello Medicina Tropicale e Salute Globale

Attività scientifica

- Attività di ricerca scientifica e cooperazione sanitaria da oltre venticinque anni in Paesi dell'America Latina su temi nel campo batteriologico, virale e parassitario
- Coordinamento di progetti di ricerca internazionali realizzati con il contributo dell'Unione Europea, ONG italiane (MLAL, UCODEP, CMSR), Ministero Affari Esteri, Regione Toscana, Cassa di Risparmio di Firenze, 8x1000 Chiesa Valdese etc.
- Pubblicazione dei risultati ottenuti sulle principali riviste scientifiche del settore

Sede di attività

Padiglione 15 (Piastra dei Servizi)

Azienda Ospedaliero-Universitaria Careggi – Largo Brambilla n. 3, 50134 Firenze

Contatti

Per prenotare visite ambulatoriali:

- Richiesta del medico curante per visita infettivologica
- Prenotazione telefonica dal lunedì al venerdì ore 10:00 – 14:00 tel. 055 794 94 25

Per contattare i medici del Centro:

- tel 055 794 94 31
- fax 055 794 77 10
- E-mail: maltrop@aou-careggi.toscana.it

Collaborazioni

All'interno dell'AOU Careggi con le SOD:

- [Microbiologia e Virologia](#)
- [Medicina interna interdisciplinare](#)
- [Immunologia e Terapie Cellulari](#)
- [Centro cardiomiopatie ipertrofiche e dilatative](#)
- [Centro malattie infettive in gravidanza](#)

Esterne:

- [Istituto Superiore di Sanità](#)

- [TropNet \(European Network for Tropical Medicine and Travel Health\)](#)
- [Ambulatorio per il bambino adottato all'estero e immigrato, Malattie Infettive, AOU Meyer, Firenze](#)
- [Bernhard Nocht Institute for Tropical Medicine](#)
- [Cooperativa sociale il Girasole](#)
- [Dipartimento di Sanità Pubblica e Malattie Infettive, Sapienza, Università di Roma, Roma](#)
- [Malattie Infettive e Tropicali e Microbiologia, Sacro Cuore Don Calabria IRCCS, Negrar](#)

Pubblicazioni

1: Palterer B, Salvati L, Capone M, Mecheri V, Maggi L, Mazzoni A, Cosmi L, Volpi N, Tiberi L, Provenzano A, Giglio S, Parronchi P, Maggiore G, Gallo O, Bartoloni A, Annunziato F, Zammarchi L, Liotta F. Variants Disrupting CD40L Transmembrane Domain and Atypical X-Linked Hyper-IgM Syndrome: A Case Report

With Leishmaniasis and Review of the Literature. *Front Immunol.* 2022 Apr 28;13:840767. doi: 10.3389/fimmu.2022.840767. PMID: 35572607; PMCID: PMC9096836

2: Botta A, Comelli A, Vellere I, Chechi F, Bianchi L, Giulia G, Tomasoni LR, Spinicci M, Galli L, Castelli F, Bartoloni A, Zammarchi L. Artesunate monotherapy versus artesunate plus quinine combination therapy for treatment of imported severe malaria: a TropNet retrospective cohort study. *Infection.* 2022 Feb 27. doi: 10.1007/s15010-022-01771-5. Epub ahead of print. PMID: 35220555

3: Barbarisi G, Piccica M, Zavagli M, Bandini G, Di Lauria N, Antonelli A, Spinicci M, Rossolini GM, Bartoloni A, Moggi Pignone A, Zammarchi L. Hookworm infection presenting as recurrent severe anaemia requiring blood transfusion in a Pakistani migrant to Italy. *J Travel Med.* 2022 Jan 17;29(1):taab184. doi: 10.1093/jtm/taab184. PMID: 34865110

4: Chechi F, Corsi P, Bartolozzi D, Gaiera G, Bartoloni A, Zammarchi L. Case Report: Intravenous Pentamidine Rescue Treatment for Active Chronic Visceral Leishmaniasis in an HIV-1 Infected Patient. *Am J Trop Med Hyg.* 2021 Nov 15;106(2):639-642. doi: 10.4269/ajtmh.21-0600. PMID: 34781255; PMCID: PMC8832899

5: Venturini E, Fusani L, Mantella A, Bianchi L, Antonelli A, Montagnani C, Chiappini E, Spinicci M, Bartoloni A, Rossolini GM, Zammarchi L, Galli L. Strongyloidiasis in Children Outside the Tropics: Do We Need to Increase Awareness? *Microorganisms.* 2021 Sep 8;9(9):1905. doi: 10.3390/microorganisms9091905. PMID: 34576800; PMCID: PMC8465658

6: Buonfrate D, Zammarchi L, Bisoffi Z, Montresor A, Boccalini S. Control programs for strongyloidiasis in areas of high endemicity: an economic analysis of different approaches. *Infect Dis Poverty.* 2021 May 25;10(1):76. doi: 10.1186/s40249-021-00858-9. PMID: 34030741; PMCID: PMC8147038

7: Vellere I, Graziani L, Tilli M, Mantella A, Campolmi I, Mencarini J, Borchini B, Spinicci M, Antonelli A, Rossolini GM, Bartoloni A, Zammarchi L. Strongyloidiasis in the COVID era: a warning for an implementation of the screening protocol. *Infection.* 2021 Oct;49(5):1065-1067. doi: 10.1007/s15010-021-01621-w. Epub 2021 May 10. PMID: 33970429; PMCID: PMC8107200.

8: Vellere I, Di Lauria N, Mantella A, Cavallo A, Bresci S, Bartoloni A, Zammarchi L. Atypical imported severe primary dengue presenting with neutrophilic leukocytosis and cardiac tamponade in a young

- female traveler. *J Travel Med.* 2021 Jul 7;28(5):taab074. doi: 10.1093/jtm/taab074. PMID: 33987662
- 9: Piccica M, Lagi F, Bartoloni A, Zammarchi L. Efficacy and safety of pentamidine isethionate for tegumentary and visceral human leishmaniasis: a systematic review. *J Travel Med.* 2021 Aug 27;28(6):taab065. doi: 10.1093/jtm/taab065. PMID: 33890115
- 10: Basile G, Piccica M, Vellere I, Meli M, Mazzetti M, Massi D, Maio V, Cecconi D, Rossolini GM, Bartoloni A, Zammarchi L. Disseminated *Talaromyces* infection in an AIDS patient. *Clin Microbiol Infect.* 2022 Jan;28(1):64-65. doi: 10.1016/j.cmi.2021.03.017. Epub 2021 Apr 2. PMID: 33813123
- 11: Sforza S, Tuccio A, Zammarchi L, Verrienti P, Rinaldi F, Tilli M, Di Maida F, Mari A, Masieri L, Carini M, Bartoloni A, Minervini A. Urological management and surgical procedures in migrants from Sub-Saharan Africa with urogenital schistosomiasis. *Actas Urol Esp (Engl Ed).* 2021 May;45(4):309-319. English, Spanish. doi: 10.1016/j.acuro.2020.03.016. Epub 2021 Mar 5. PMID: 33685664
- 12: Tilli M, Botta A, Mantella A, Nuti B, Bartoloni A, Boccalini S, Zammarchi L. Community-based seroprevalence survey of schistosomiasis and strongyloidiasis by means of Dried Blood Spot testing on Sub-Saharan migrants resettled in Italy. *New Microbiol.* 2021 Jan;44(1):62-65. Epub 2020 Dec 16. PMID: 33453705
- 13: Modi G, Borchì B, Giaché S, Campolmi I, Trotta M, Di Tommaso M, Strambi N, Bartoloni A, Zammarchi L. Emerging Infectious Diseases in Pregnant Women in a Non-Endemic Area: Almost One Out of Four Is at Risk. *Pathogens.* 2021 Jan 10;10(1):56. doi: 10.3390/pathogens10010056. PMID: 33435140; PMCID: PMC7827164
- 14: Giaché S, Modi G, Borchì B, Campolmi I, Trotta M, Di Tommaso M, Seravalli V, Bartoloni A, Zammarchi L. Should obstetricians working in non-endemic countries care about emerging tropical diseases? *Eur J Obstet Gynecol Reprod Biol.* 2021 Feb;257:25-34. doi: 10.1016/j.ejogrb.2020.11.066. Epub 2020 Dec 9. PMID: 33359921
- 15: Zammarchi L, Viligiardi R, Modi G, Spinicci M, Bartoloni A. A calcified intestinal worm or Salgari's syndrome? *J Travel Med.* 2021 Jan 6;28(1):taaa208. doi: 10.1093/jtm/taaa208. PMID: 33244608
- 16: Vellere I, Lagi F, Spinicci M, Mantella A, Mantengoli E, Corti G, Colao MG, Gobbi F, Rossolini GM, Bartoloni A, Zammarchi L. Arbo-Score: A Rapid Score for Early Identification of Patients with Imported Arbovirolosis Caused by Dengue, Chikungunya and Zika Virus. *Microorganisms.* 2020 Nov 4;8(11):1731. doi: 10.3390/microorganisms8111731. PMID: 33158274; PMCID: PMC7716211
- 17: Zammarchi L, Angheben A, Galli L, Dani C, Di Tommaso M, Petraglia F, Aliani FB, Trotta M, Spinicci M, Albajar Viñas P, Bartoloni A. Ongoing mother-to-child transmission of Chagas disease in Italy: 2014-18 estimates. *J Travel Med.* 2021 Jan 6;28(1):taaa201. doi: 10.1093/jtm/taaa201. PMID: 33094338
- 18: Tilli M, Olliaro P, Gobbi F, Bisoffi Z, Bartoloni A, Zammarchi L. Neglected tropical diseases in non-endemic countries in the era of COVID-19 pandemic: the great forgotten. *J Travel Med.* 2021 Jan 6;28(1):taaa179. doi: 10.1093/jtm/taaa179. PMID: 32970143; PMCID: PMC7543559

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- 20: Spinicci M, Bartoloni A, Mantella A, Zammarchi L, Rossolini GM, Antonelli A. Low risk of serological cross-reactivity between dengue and COVID-19. *Mem Inst Oswaldo Cruz.* 2020;115:e200225. doi: 10.1590/0074-02760200225. Epub 2020 Aug 14. PMID: 32813814; PMCID: PMC7427313
- 21: Venturini E, Zammarchi L, Bianchi L, Montagnani C, Tersigni C, Bortone B, Chiappini E, Galli L. Efficacy and Safety of Intravenous Artesunate in Children With Severe Imported Malaria. *Pediatr Infect Dis J.* 2020 Aug;39(8):e220. doi: 10.1097/INF.0000000000002694. PMID: 32677815
- 22: Ursini T, Di Giacomo R, Caldrea S, Angheben A, Zammarchi L, Filipponi S, Pizio NR, Bisoffi Z, Buonfrate D. Neurocysticercosis-related seizures in the post-partum period: two cases and a review of the literature. *Lancet Infect Dis.* 2020 Aug;20(8):e204-e214. doi: 10.1016/S1473-3099(20)30240-1. Epub 2020 Jun 19. PMID: 32569624
- 23: Campolmi I, Angheben A, Aliani FB, Spinicci M, Bartoloni A, Zammarchi L. Chagas disease in Italy: updated estimates. *Intern Emerg Med.* 2020 Oct;15(7):1339-1343. doi: 10.1007/s11739-020-02387-z. Epub 2020 Jun 9. PMID: 32519135
- 24: Basile G, Cristofaro G, Locatello LG, Vellere I, Piccica M, Bresci S, Maggiore G, Gallo O, Novelli A, Di Muccio T, Gramiccia M, Gradoni L, Gaiera G, Bartoloni A, Zammarchi L. Refractory mucocutaneous leishmaniasis resolved with combination treatment based on intravenous pentamidine, oral azole, aerosolized liposomal amphotericin B, and intralesional meglumine antimoniate. *Int J Infect Dis.* 2020 Aug;97:204-207. doi: 10.1016/j.ijid.2020.06.003. Epub 2020 Jun 4. PMID: 32505874
- 25: Ottino L, Buonfrate D, Paradies P, Bisoffi Z, Antonelli A, Rossolini GM, Gabrielli S, Bartoloni A, Zammarchi L. Autochthonous Human and Canine *Strongyloides stercoralis* Infection in Europe: Report of a Human Case in An Italian Teen and Systematic Review of the Literature. *Pathogens.* 2020 Jun 3;9(6):439. doi: 10.3390/pathogens9060439. PMID: 32503315; PMCID: PMC7350350
- 26: Tilli M, Botta A, Bartoloni A, Corti G, Zammarchi L. Hospitalization for Chagas disease, dengue, filariasis, leishmaniasis, schistosomiasis, strongyloidiasis, and *Taenia solium* taeniasis/cysticercosis, Italy, 2011-2016. *Infection.* 2020 Oct;48(5):695-713. doi: 10.1007/s15010-020-01443-2. Epub 2020 May 16. PMID: 32418191
- 27: Rossi P, Tamarozzi F, Galati F, Akhan O, Cretu CM, Vutova K, Siles-Lucas M, Brunetti E, Casulli A; ERCE network. The European Register of Cystic Echinococcosis, ERCE: state-of-the-art five years after its launch. *Parasit Vectors.* 2020 May 7;13(1):236. doi: 10.1186/s13071-020-04101-6. PMID: 32381109; PMCID: PMC7206799
- 28: Abraham A, Schmidt V, Kaminski M, Stelzle D, De Meijere R, Bustos J, Sahu PS, Garcia HH, Bobi? B, Cretu C, Chiodini P, Deksné G, Dermauw V, Devleeschauwer B, Dorny P, Fonseca A, Gabriél S, Gómez-Morales MA, Kucsera I, Laranjo-González M, Trevisan C, Vilhena M, Walker NF, Zammarchi L, Winkler AS. Epidemiology and surveillance of human (neuro)cysticercosis in Europe: is enhanced surveillance required? *Trop Med Int Health.* 2020 May;25(5):566-578. doi: 10.1111/tmi.13384. Epub

2020 Mar 20. PMID: 32083787

29: Zammarchi L, Tilli M, Botta A, Buonfrate D, Bartoloni A, Boccalini S. Strategies for management of strongyloidiasis in migrants from Sub-Saharan Africa recently arrived in Italy: A cost-effectiveness analysis. *Travel Med Infect Dis.* 2020 Jul-Aug;36:101561. doi: 10.1016/j.tmaid.2020.101561. Epub 2020 Jan 23. PMID: 31982632

30: Zammarchi L, Tilli M, Mantella A, Botta A, Nicoletti A, García HH, Castillo Y, Aquilini D, Boccalini S, Bartoloni A. No Confirmed Cases of *Taenia solium* Taeniasis in a Group of Recently Arrived Sub-Saharan Migrants to Italy. *Pathogens.* 2019 Dec 14;8(4):296. doi: 10.3390/pathogens8040296. PMID: 31847324; PMCID: PMC6963956

31: Zanelli G, Rossetti B, Gagliardini R, Paglicci L, Tordini G, Miracco C, Aversa S, Zammarchi L, Di Muccio T, Gramiccia M, Montagnani F. Use of miltefosine in a patient with mucosal leishmaniasis and HIV-coinfection: a challenge in long-term management. *Infez Med.* 2019 Dec 1;27(4):452-455. PMID: 31846999

32: Zammarchi L, Gobbi F, Angheben A, Spinicci M, Buonfrate D, Calleri G, De Paola M, Bevilacqua N, Carrara S, Attard L, Vanino E, Gulletta M, Festa E, Iacovazzi T, Grimaldi A, Sepe A, Salomone Megna A, Gaiera G, Castagna A, Parodi P, Albonico M, Bisoffi Z, Castelli F, Oliaro P, Bartoloni A. Schistosomiasis, strongyloidiasis and Chagas disease: the leading imported neglected tropical diseases in Italy. *J Travel Med.* 2020 Feb 3;27(1):taz100. doi: 10.1093/jtm/taz100. PMID: 31840757

33: Piccica M, Gramiccia M, Di Muccio T, Meli M, Gradoni L, Bartoloni A, Zammarchi L. Cutaneous leishmaniasis caused by *Leishmania* (*Viannia*) *guyanensis* complex in a traveller returning from Bolivia. *Travel Med Infect Dis.* 2019 Nov 21:101524. doi: 10.1016/j.tmaid.2019.101524. Epub ahead of print. PMID: 31760127

34: Comelli A, Riccardi N, Canetti D, Spinicci M, Cenderello G, Magro P, Nicolini LA, Marchese V, Zammarchi L, Castelli F, Bartoloni A, Di Biagio A, Caligaris S, Gaiera G. Delay in schistosomiasis diagnosis and treatment: a multicenter cohort study in Italy. *J Travel Med.* 2020 Feb 3;27(1):taz075. doi: 10.1093/jtm/taz075. PMID: 31616948

35: Vellere I, Mangano VD, Cagno MC, Gobbi F, Ragusa A, Bartoloni A, Biancofiore G, De Simone P, Campani D, Bruschi F, Zammarchi L. Imported human *Schistosoma japonicum*: A report on two cases in Filipino migrants present in Italy and a systematic review of literature. *Travel Med Infect Dis.* 2020 Jul-Aug;36:101496. doi: 10.1016/j.tmaid.2019.101496. Epub 2019 Sep 24. PMID: 31561021

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37: Cozzi D, Bertelli E, Savi E, Verna S, Zammarchi L, Tilli M, Rinaldi F, Pradella S, Agostini S, Miele V. Ultrasound findings in urogenital schistosomiasis: a pictorial essay. *J Ultrasound.* 2020 Jun;23(2):195-

205. doi: 10.1007/s40477-019-00405-1. Epub 2019 Sep 7. PMID: 31494862; PMCID: PMC7242546

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Med Microbiol Immunol. 2019 Dec;208(6):727-730. doi: 10.1007/s00430-019-00611-y. Epub 2019 Apr 11. PMID: 30976912

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41: Cattaneo L, Manciuilli T, Cretu CM, Giordani MT, Angheben A, Bartoloni A, Zammarchi L, Bartalesi F, Richter J, Chiodini P, Godbole G, Junghanss T, Stojkovic M, Sammarchi L, Dore R, Vercelli A, Benazzo F, Cuzzocrea F, Tamarozzi F, Brunetti E. Cystic Echinococcosis of the Bone: A European Multicenter Study.

Am J Trop Med Hyg. 2019 Mar;100(3):617-621. doi: 10.4269/ajtmh.18-0758. PMID: 30693857; PMCID: PMC6402919

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Data

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