



ESGCP

ESCMID STUDY GROUP FOR
CLINICAL PARASITOLOGY

European Society of Clinical Microbiology and Infectious Diseases

Annual Report 2010/2011

1. COMPLETED ACTIVITIES

1.1. Publications, guidelines and consensus documents:

The study group published a **newsletter in November 2010**. It was send together with a general newsletter from ESCMID to all ESCMID members and additional non-ESCMID members of the study group and put on the website.

Publications by members of the board on clinical parasitological topics:

Wallon M, Franck J, Thulliez P, Huissoud C, Peyron F, Garcia-Meric P, Kieffer F
Accuracy of real-time polymerase chain reaction for *Toxoplasma gondii* in amniotic fluid. *Obstet Gynecol.* 2010 Apr;115(4):727-33.

Rabilloud M, Wallon M, Peyron F. In utero and at birth diagnosis of congenital toxoplasmosis. Use of likelihood ratios for clinical management. *Pediatr Infect Dis J.* 2010 May;29(5):421-5.

Chapey E, Wallon M, Debize G, Rabilloud M, Peyron F. Diagnosis of Congenital Toxoplasmosis by Using a Whole-Blood Gamma Interferon Release Assay *J Clin Microbiol.* 2010, 48 :41-5.

Cortina-Borja M, Tan HK, Wallon M, Paul M, Prusa A, Buffolano W, Malm G, Salt A, Freeman K, Petersen E, Gilbert RE; European Multicentre Study on Congenital Toxoplasmosis (EMSCOT). Prenatal treatment for serious neurological sequelae of congenital toxoplasmosis: an observational prospective cohort study. *PLoS Med.* 2010 Oct 12;7(10). pii: e1000351.

van Thiel PP, Leenstra T, Kager PA, de Vries HJ, van Vugt M, van der Meide WF, Bart A, Zeegelaar JE, van der Sluis A, Schallig HD, van Gool T, Faber WR, de Vries PJ. Miltefosine treatment of *Leishmania major* infection: an observational study involving Dutch military personnel returning from northern Afghanistan. *Clin Infect Dis.* 2010 Jan 1;50(1):80-3.

Roelfsema JH, Nozari N, Herremans T, Kortbeek LM, Pinelli E.
Evaluation and improvement of two PCR targets in molecular typing of clinical samples of *Leishmania* patients. *Exp Parasitol.* 2011 Jan;127(1):36-41. Epub 2010 Jun 22.

Hofhuis A, VAN Pelt W, VAN Duynhoven YT, Nijhuis CD, Mollema L, VAN DER Klis FR, Havelaar AH, Kortbeek LM Decreased prevalence and age-specific risk factors for *Toxoplasma gondii* IgG antibodies in The Netherlands between 1995/1996 and 2006/2007. *Epidemiol Infect.* 2011 Apr;139(4):530-8. Epub 2010 May 24.

Mescam L., Lebeau B., Minet C., Pelloux H., Brambilla E. & Sturm N. Thyroiditis in an immunocompromised woman. *Ann. Pathol.*, 2010, 30 : 44-47. IF : 0,5

Brenier-Pinchart M.P., Bertini R.L., Maubon D. & Pelloux H. In vitro differential phenotypic characteristics among genotype II *Toxoplasma gondii* strains from congenital toxoplasmosis in humans. *J. Parasitol.* 2010, 96 : 798-799. IF : 1,2

Chumpitazi B.F.F., Bouillet L., Fricker-Hidalgo H., Lacharme T., Romanet J.P., Massot C., Chiquet C. & Pelloux H. Contribution of anti-Hsp70.1IgG antibody levels to the diagnostic of clinically suspected ocular toxoplasmosis. *Invest. Ophthalm. Vis. Sci.*, 2010, 11 : 5530-5536. IF : 3,6

Fricker-Hidalgo H., Coltey B., Llerena C., Renversez J.C., Grillot R., Pin I., Pelloux H. & Pinel C. Recombinant allergens combined with biological markers in the diagnosis of allergic bronchopulmonary aspergillosis in cystic fibrosis patients. *Clin. Vaccine Immunol.*, 2010, 17 : 1330-1336. IF : 2,4

Villena I., Ancelle T., Delmas C., Garcia P., Brézin A., Thulliez P., Wallon M., King L. & Goulet V. Toxosurv network and National Reference Centre for Toxoplasmosis: Totet A., Cimon B., Scherrer E., Couprie B., Nevez G., Quinio D., Duhamel C., Carne B., Bonnin A., Cuisenier B., Dalle F., Brenier-Pinchart M.P., Fricker-Hidalgo H., Pelloux H., Azia S., Delhaes L., Ajzenberg D., Dardé M.L., Franck J., Piarroux R., Desbois N., Bastien P., Pratlong F., Machouart M., Gay-Andrieu F., Ferret N., Marty P., Houze S., Yera H., Derouin F., Garin J.F., Menotti J., Brun S., Paris L., Godineau N., Roux P., Rodier M.H., Aubert D., Chemla C., Gangneux J.P., Favennec L., Flori P., Candolfi E., Filisetti D., Villard O., Bessières M.H., Cassaing S., Duong T.H., Costa J.M., Denoyel G. Congenital toxoplasmosis in France in 2007: first results from a national surveillance system. *Euro Surveill.*, 2010, 15 : 1-6.

Sterkers Y., Varlet-Marie E., Cassaing S., Brenier-Pinchart M.P., Brun S., Dalle F., Delhaes L., Filisetti D., Pelloux H., Yera H. & Bastien P. Multicentric comparative analytical performance study for molecular detection of low amounts of *Toxoplasma gondii* from simulated specimen. *J. Clin. Microbiol.*, 2010, 48 : 3216-3222 IF : 3,9

Maubon D., Hamidfar-Roy R., Courby S., Vesin A., Brun S., Maurin M., Pavese P., Ravanel N., Bulabois C.E., Brion J.P., Pelloux H. & Timsit J.F. Therapeutic impact and diagnostic performance and of multiplex PCR in patients with malignancies and suspected sepsis. *J. Infect.*, 2010, 61 : 335-342 IF : 3

Maubon D., Bougdour A., Wong Y.S., Brenier-Pinchart M.P., Curt A., Hakimi M.A. & Pelloux H. Activity of the histone deacetylase inhibitor FR235222 on *Toxoplasma gondii*: inhibition of stage conversion of the parasite cyst form and study of new

derivatives compounds. *Antimicrob. Agents. Chemother.*, 2010, 54 : 4843-4850 IF : 4,7

Elyasi H., Babaie J., Bal G., Fricker-Hidalgo H., Brenier-Pinchart M.P., Zare M., Sadeghiani G., Pelloux H. & Golkar M. Use of dense granule antigen GRA6 in immunoglobulin G avidity test to exclude acute *Toxoplasma* infection during pregnancy. *Clin. Vaccine. Immunol.*, 2010, 17 : 1349-1355. IF : 2,4

Bruneel F., Tubach F., Corne P., Megarbane B., Mira J.P., Peytel E., Camus C., Schortgen F., Azoulay E., Cohen Y., Georges H., Meybeck A., Hyvernât H., Trouillet J.L., Frenouy E., Nicolet L., Roy C., Durand R., Le Bras J. & Wolff M. The Severe Imported Malaria in Adults (SIMA) study Group. Severe imported falciparum malaria: a cohort study in 400 critically ill adults. *PLoS ONE* : 2010, 10 : e13236

Cortina-Borja M., Kuan Tan H., Wallon M., Paul M., Prusa A., Buffolano W., Malm G., Salt A., Freeman K., Petersen E., & Gilbert R.E. For The European Multicentre Study on Congenital Toxoplasmosis (Emscot). Prenatal treatment for serious neurological sequelae of congenital toxoplasmosis: an observational prospective cohort study. *PLoS Medicine* : 2010, 10 : e1000351

Argelich R, Pujol MT, Alvarez-Martínez MJ. [Relapsing meningitis in a 69-year-old male.] *Med Clin (Barc)*. 2011 Feb 19;136(4):167-174. Epub 2010 Dec 13. Spanish. No abstract available.

Alvarez-Martínez MJ, Miró JM, Valls ME, Mas J, de la Bellacasa JP, Sued O, Solé M, Rivas PV, de Lazzari E, Benito N, García F, Agustí C, Wilson PE, Gatell JM, Jiménez de Anta MT, Meshnick SR, Moreno A. Prevalence of dihydropteroate synthase genotypes before and after the introduction of combined antiretroviral therapy and their influence on the outcome of *Pneumocystis pneumonia* in HIV-1-infected patients. *Diagn Microbiol Infect Dis*. 2010 Sep;68(1):60-5.

López M, Sáenz Y, Alvarez-Martínez MJ, Marco F, Robredo B, Rojo-Bezares B, Ruiz-Larrea F, Zarazaga M, Torres C. Tn1546 structures and multilocus sequence typing of vanA-containing enterococci of animal, human and food origin. *J Antimicrob Chemother*. 2010 Aug;65(8):1570-5. Epub 2010 Jun 2.

Miró JM, Alvarez-Martínez MJ. Parasitic Infections in HIV-Infected Patients. *Clinical Care Options (CCO)*, Updated- October, 2010. Available at <http://www.clinicaloptions.com/inPractice/HIV/Management>

Sullivan PF, Allander T, Lysholm F, Goh S, Persson B, Jacks A, Evengård B, Pedersen NL, Andersson B An unbiased metagenomic search for infectious agents using monozygotic twins discordant for chronic fatigue. *BMC Microbiol*. 2011 Jan 2;11:2.

Preet R, Nilsson M, Schumann B, Evengård B. The gender perspective in climate change and global health. *Glob Health Action*. 2010 Dec 9;3. doi: 10.3402/gha.v3i0.5720.

Westling K, Jorup-Rönström C, Evengård B. Toxoplasmosis not transmitted by cat bite, but high prevalence of antibodies to *Toxoplasma gondii* in patients bitten by their own cat. *Scand J Infect Dis*. 2010 Sep;42(9):687-90.

Garbash M, Round J, Whitty CJ, Chiodini PL, Riordan FA, Shingadia D, Ladhani S. Intensive care admissions for children with imported malaria in the United Kingdom. *Pediatr Infect Dis J*. 2010 Dec;29(12):1140-2.

Beshir KB, Hallett RL, Eziefula AC, Bailey R, Watson J, Wright SG, Chiodini PL, Polley SD, Sutherland CJ. Measuring the efficacy of anti-malarial drugs in vivo: quantitative PCR measurement of parasite clearance. *Malar J*. 2010 Nov 5;9:312.

Manser MM, Chatterton J, Francis J, Guy E, Holliman R, Ho-Yen D, Johnson J, Chiodini PL. The United Kingdom National External Quality Assessment Service for parasitology: toxoplasma serology scheme. *J Clin Pathol*. 2010 Dec;63(12):1112-5. Epub 2010 Oct 29.

Bligh J, Schramm G, Chiodini PL, Doenhoff MJ. Serological analysis of the outcome of treatment of *Schistosoma mansoni* infections with praziquantel. *Ann Trop Med Parasitol*. 2010 Sep;104(6):511-20.

Polley SD, Mori Y, Watson J, Perkins MD, González IJ, Notomi T, Chiodini PL, Sutherland CJ. Mitochondrial DNA targets increase sensitivity of malaria detection using loop-mediated isothermal amplification. *J Clin Microbiol*. 2010 Aug;48(8):2866-71. Epub 2010 Jun 16.

Ladhani S, Garbash M, Whitty CJ, Chiodini PL, Aibara RJ, Riordan FA, Shingadia D. Prospective, national clinical and epidemiologic study on imported childhood malaria in the United Kingdom and the Republic of Ireland. *Pediatr Infect Dis J*. 2010 May;29(5):434-8.

Collier S, Manser M, Chiodini PL. External quality assessment scheme for parasite serology; a review of the scheme design and performance. *J Clin Pathol*. 2010 May;63(5):441-4.

Sutherland CJ, Tanomsing N, Nolder D, Oguike M, Jennison C, Pukrittayakamee S, Dolecek C, Hien TT, do Rosário VE, Arez AP, Pinto J, Michon P, Escalante AA, Nosten F, Burke M, Lee R, Blaze M, Otto TD, Barnwell JW, Pain A, Williams J, White NJ, Day NP, Snounou G, Lockhart PJ, Chiodini PL, Imwong M, Polley SD. Two nonrecombining sympatric forms of the human malaria parasite *Plasmodium ovale* occur globally. *J Infect Dis*. 2010 May 15;201(10):1544-50.

Gamboa D, Ho MF, Bendezu J, Torres K, Chiodini PL, Barnwell JW, Incardona S, Perkins M, Bell D, McCarthy J, Cheng Q..A large proportion of *P. falciparum* isolates in the Amazon region of Peru lack pfrp2 and pfrp3: implications for malaria rapid diagnostic tests. *PLoS One*. 2010 Jan 25;5(1):e8091.

Chand MA, Chiodini PL, Doenhoff MJ.Development of a new assay for the diagnosis of schistosomiasis, using cercarial antigens.*Trans R Soc Trop Med Hyg*. 2010 Apr;104(4):255-8. Epub 2010 Jan 22.

Cortina-Borja M, Tan HK, Wallon M, Paul M, Prusa A, Buffolano W, Malm G, Salt A, Freeman K, Petersen E, Gilbert RE; European Multicentre Study on Congenital Toxoplasmosis (EMSCOT). Prenatal treatment for serious neurological sequelae of congenital toxoplasmosis: an observational prospective cohort study. *PLoS Med*. 2010 Oct 12;7(10). pii: e1000351.

Röser D, Nielsen HV, Petersen E, Saugmann-Jensen P, Nørgaard-Pedersen B.Congenital toxoplasmosis--a report on the Danish neonatal screening programme 1999-2007.*J Inher Metab Dis*. 2010 Oct;33(Suppl 2):S241-7. Epub 2010 Jun 29. Erratum in: *J Inher Metab Dis*. 2010 Dec;33(6):815. Nørgaard-Pedersen, Peter Bent [corrected to Nørgaard-Pedersen, Bent].

Møller LN, Koch A, Petersen E, Hjuler T, Kapel CM, Andersen A, Melbye M.*Trichinella* infection in a hunting community in East Greenland. *Epidemiol Infect*. 2010 Sep;138(9):1252-6. Epub 2010 Feb 10.

van Thiel PP, Leenstra T, de Vries HJ, van der Sluis A, van Gool T, Krull AC, van Vugt M, de Vries PJ, Zeegelaar JE, Bart A, van der Meide WF, Schallig HD, Faber WR, Kager PA. Cutaneous leishmaniasis (*Leishmania major* infection) in Dutch troops deployed in northern Afghanistan: epidemiology, clinical aspects, and treatment. *Am J Trop Med Hyg*. 2010 Dec;83(6):1295-300.

van Dijk K, Starink MV, Bart A, Nijhuis EW, van der Wal AC, van Thiel PP, de Vries HJ, van Gool T. The potential of molecular diagnosis of cutaneous ectopic schistosomiasis. *Am J Trop Med Hyg*. 2010 Oct;83(4):958-9.

Talabani H, Sarfati C, Pillebout E, van Gool T, Derouin F, Menotti J.Disseminated infection with a new genovar of *Encephalitozoon cuniculi* in a renal transplant recipient. *J Clin Microbiol*. 2010 Jul;48(7):2651-3. Epub 2010 May 12.

van Thiel PP, Leenstra T, Kager PA, de Vries HJ, van Vugt M, van der Meide WF,

Bart A, Zeegelaar JE, van der Sluis A, Schallig HD, van Gool T, Faber WR, de Vries PJ. Miltefosine treatment of *Leishmania major* infection: an observational study involving Dutch military personnel returning from northern Afghanistan. *Clin Infect Dis*. 2010 Jan 1;50(1):80-3.

1.2. Presentations on behalf of the Study Group at scientific meetings:

1.3. Organisation of scientific sessions at ECCMID:

Official symposium **Climate change and parasitic infections in Europe**

- i. Malaria in Europe – is it possible?
- ii. Expansion of Leishmania and other parasitic diseases in Europe

1.4. Organisation of educational workshops at ECCMID:

New insights in frequently observed intestinal parasites (2h workshop) arranged with the ESCMID Study Group for Clinical Parasitology (ESGCP)

- Dientamoeba, an underrecognized intestinal pathogen
- Blastocystis, new insights in a frequently observed intestinal parasite
- Cryptosporidium, Isospora and Cyclospora: clinical importance and outbreak management Treatment failure of intestinal protozoal infections

1.5. Organisation of scientific meetings and workshops outside ECCMID:

- **Postgraduate Course in Clinical Parasitology**, Amsterdam, 7-11 June 2010.
- IV International Congress on Congenital Toxoplasmosis: Marseille (France) October 28th to October 30th 2010.

1.6. Organisation of educational activities outside ECCMID:

The ESGCP is active in the field of e-learning. The studygroup has joint a group in France and applied for a financial support from ESCMID for submitting a proposal within the frame of a Leonardo da Vinci European programme.

1.7. Funded research projects (especially collaborative projects):

Aim: Provide comparisons of diagnostic performances of different assays including quality control

Birgitta Evengård (Sweden), Peter Chiodini (UK) and Eskild Petersen (DK) undertook a project to compare the sensitivity of laboratory diagnostic methods currently in use in Europe for the detection of Giardia and Cryptosporidium. 10 reference labs and 10 diagnostic labs in different countries received 2 batches of negative and positive faecal specimens containing serial dilutions of Giardia cysts and Cryptosporidium oocysts. The results are being analysed and are due to be discussed at the ESGCP Committee meeting at ECCMID Milan prior to submission for publication.

2. PLANNED ACTIVITIES (please include one sentence stating the main topic/objective/aim of the coming year)

Aim: Organization of educational activities outside ECCMID to increase the level of knowledge in clinical parasitology in different parts of Europe and increase the level of knowledge on parasitic infections in immunocompromised patients.

Advance course in clinical Parasitology in Barcelona, Spain 2011 organized by Míriam Alvarez, ESCMID Study Group for Clinical Parasitology (ESGCP), the Hospital Clinic, Barcelona, ES in collaboration with the Microbiology Unit, Dept. of Pathology, Pharmacology & Microbiology, School of Medicine, University of Barcelona, ES. The course will take place in 6-9 September 2011 and will include Toxoplasma, Pneumocystis, Trypanosoma cruzi and Leishmania.

Basic course in clinical Parasitology in april 2011 in Ankara organized by Titia Kortbeek and Eskild Petersen (ESGCP) and Aysegül Taylan Özkan, Refik Saydam National Public Health Agency .

Birgitta Evengard, Eskild Petersen and Carmen Cretu (ESGCP) will organize together with the Romanian society of Microbiology and the Romanian Association of Hydatidology an **Echinococcus symposium in Romenia in November 2011**.

Dr. Brunetti from the University of Pavia and the Centre for Clinical Management of Cystic WHO Collaborating Echinococcosis and together with ESCMID Study Group for Clinical Parasitology (ESGCP) has organized an **ESCMID Postgraduate Education Course on Cystic Echinococcosis: Burden of Disease in EU and Clinical Management in Pavia, Italy, 23 - 25 September 2011**

Organization of educational activities during ECCMID

Saturday morning May 7 8.45 :

EW09: Emerging diagnostic methods in parasitology

arranged with the ESCMID Study Group for Clinical Parasitology (ESGCP)

- Intestinal parasites: microscopy, antigen detection or PCR
- Leishmania: culture vs. PCR and differences in typing systems (PCR-zymodemes)
- Malaria: rapid testing, Giemsa staining and molecular diagnostics
- Evaluation of diagnostic tools for T. cruzi

The ESGCP organizes an Official symposium: Monday 16:00-18:00 hr

Under your skin: skin manifestations of parasitic diseases

arranged with the ESCMID Study Group for Clinical Parasitology (ESGCP)

- Skin manifestations of parasitic diseases: what you should know, how to diagnose
- Photodynamic therapy in cutaneous leishmaniasis
- Toxocariasis in patients with skin disorders
- Maggot debridement therapy

Aim: Provide information about the prevalence of parasitic infections in different parts of Europe and provide information on clinical policies and practices within Europe.

The ESGCP has conducted an questionnaire and is currently forming subgroups in order to create networks within the ESGCP to enable members to communicate about prevalence of parasitic infections in different parts of Europe and provide information on clinical policies and practices within Europe and exchange information about diagnostic performances of different assays including quality control.

3. ADMINISTRATION

3.1. Number of current members:

December 31th (data from febr. 2011) the member list counted 900 members from 102 different countries, which is almost a doubling compared to 2010 (febr. 2010: 536 members).

3.2. Agenda for General Assembly/Business Meeting:

The business meeting of the ESGCP in Vienna took place on April 12th 2010 at 18.15 hours. Due to the fact that it was late during a Monday only a limited number of ESGCP members were present.

Agenda for the General Assembly / Business Meeting in Milan is scheduled on Monday 9th 2011, 18.15-19.15 in Yellow 3.

The agenda will be:

1. Welcome
2. Announcements by the chairperson Birgitta Evengard
3. Studygroup : growth and participating countries 2007-2010 (Titia Kortbeek)
4. Evaluation course in Amsterdam: Tom van Gool.
5. Network in progress (Herve Pelloux, Titia Kortbeek)
6. ongoing Research projects: Peter Chiodini
7. e-learning project in parasitology in GP : Francois Peyron
8. Collaborations : COST pre-proposal Echinococcus
9. Proposals Educational workshop and symposia ECCMID 2012

b. Boardmeetings:

- There was a board meeting during the Vienna ECCMID on Sunday April 11th 2010 and present were : Board members: Birgitta Evengård, Eskild Peterson, Herve Pelloux, Monica Junie, Francis Derouin, Francois Peyron, Titia Kortbeek. Tom van Gool, Peter Chiodini, Miriam-Jose Alvarez , Joakim Forsell, Monica Manser (invited non-member).
- One other board meeting was a telephone conference: 4th of Jan 2010

There will be a board meeting during ECCMID Milan on May 9th 2011 at 09:15-11:15h

4. FINANCES

4.1. Revenues and expenses

See: report ESGCP 2010.XLS

4.2. Balance on the date of the written annual report

20 March 2011

Titia Kortbeek

Secretary ESGCP