

## Sunday 20 September

### 16.30-17.00 Registration and welcome

**17.00-17.30 Introduction** to the course. (C. Gluud - D. Conte)

**17.30-18.15** The architecture of diagnostic studies. (C. Gluud - D. Conte)

**18.15-19.00** Title of Cochrane systematic review of diagnostic test accuracy (DTA). (G. Casazza - D. Nikolova)

**19.00-19.45 Small group work:** Title of Cochrane systematic review of DTA. (G. Casazza - D. Nikolova)

### 20.00 Dinner

## Monday 21 September

**9.00-9.30** Validity, reliability, and reproducibility of the index test. Definitions and their assessment (PG. Duca)

**9.30-10.00** The range of results of the index test in healthy people and associated factors (D. Prati)

**10.00-10.45 Small group work:** Analysis of diagnostic studies: defining the question, study phases, and designs (M. Fraquelli - D. Prati)

### 10.45-11.00 Coffee break

### 11.00-11.40 Feedback from the small groups.

Interactive discussion (M. Fraquelli - D. Prati)

**11.40-12.00** Diagnostic test accuracy: terminology, patients selection, and reporting the results: the 2-by-2 table (G. Casazza)

**12.00-12.30** The reference standard (G. Costantino)

**12.30-13.15 Small group work:** Analysis of diagnostic studies: patients selection, definitions of index test and reference standard.(G. Duca - G. Costantino)

### 13.15-14.30 Lunch

### 14.30-15.15 Feedback from the small groups.

Interactive discussion (G. Duca - G. Costantino)

**15.15-15.45** Sensitivity, specificity, and likelihood ratios (G.Filippini)

**15.45-17.10 Small groups work:** Analysis of diagnostic studies: estimates of sensitivity, specificity, and likelihood ratios (G.Casazza - A.Colli)

### 17.10-17.30 Coffee break

### 17.30-18.30 Feedback from the small groups.

Interactive discussion. (G.Casazza - A.Colli)

**18.30-18.45** Lessons learned (M. Fraquelli)

**18.45-19.30 Small groups work:** Steps in writing the protocol for a DTA systematic review (1) (Participants)

### 20.00 Dinner

## Tuesday 22 September

**9.00-9.30** Continuous index test results: positivity and negativity criteria. The cut-off value (G. D'Amico).

**9.30-10.00** The receiver operating characteristic curve (G. Casazza)

**10.00-10.45 Small group work.** Analysis of diagnostic studies: the cut-off (G. Filippini - G. D'Amico)

### 10.45-11.00 Coffee break

### 11.00-12.00 Feedback from the small groups.

Interactive discussion. (G. Filippini - G. D'Amico)

**12.00-12.45** Diagnostic accuracy and statistical significance ((PG. Duca)

### 13.00-14.30 Lunch

**14.30-15.15** Pre-test and post-test probability. When

is the post probability sufficient for decision-making? (A Colli)

**15.15-16.00** Diagnostic accuracy study designs: case-control studies, cross-sectional studies, cohort studies, and randomised clinical trials (M. Fraquelli)

**16.00-17.00 Small group work.** Analysis of diagnostic studies: the study design (D. Conte - C. Gluud)

### 17.00-17.20 Coffee break

### 17.20-18.15 Feedback from the small groups.

Interactive discussion (D. Conte - C. Gluud)

**18.15-18.30** Lessons learned. (A. Colli)

**18.30-19.30 Small group work:** Steps in writing the protocol for a DTA systematic review (2) (Participants)

### 20.30 Farewell dinner

## Wednesday 23 September

**9.00-9.20** Transient elastography for diagnosis of stages of hepatic fibrosis and cirrhosis in people with alcoholic liver disease (C.S. Pavlov)

**9.20-10.40 Interactive session:** Systematic reviews and meta-analyses of diagnostic studies (D. Nikolova - G. Casazza - A. Colli)

### 10.40-11.00 Coffee break

**11.00-11.45** Search strategies for DTA systematic reviews. (V. Pistotti)

**11.45-13.30** Examination of the participants. Presentation of a title formulation for a DTA systematic review (All the Faculty)

**13.30-14.00 Conclusions and perspectives.** Course evaluation. (D. Conte - C. Gluud)

### 14.00-14.45 Lunch

## Organizing secretary and course information:

*Sara Comparetti*,

Centro “Thomas C. Chalmers and Alessandro Liberati”, Dipartimento di Fisiopatologia Medico-Chirurgica e dei Trapianti, Università degli Studi di Milano, Fondazione IRCCS Ca’ Granda Ospedale Maggiore Policlinico, via F. Sforza, 35 20122 Milano, Italy E-mail [chalmers@unimi.it](mailto:chalmers@unimi.it)

**Early application date:** until 20 June 2015

**Late application date:** from 21 June 2015

All sessions will be run in English. Course participants will be selected based on their CV which must be sent together with the application to *Sara Comparetti*. We encourage you to apply by **June 20, 2015**, as at least 20 people are needed in order to make this course possible. All applicants will be duly informed about the course.

### Payment (by bank transfer)

Early registration fee: **750,00 € (until 20 June 2015)**

Late registration fee: **850,00 € (21 June until 10 September 2015)**

**Please indicate “Centro Chalmers -- EBM Course” as the reason for the transfer.**

Make drafts payable to:

Università degli Studi di Milano, Banca Intesa BCI, Via Verdi, 8 Milan, Italy C/C 4639/71, ABI 03069, CAB 09400, Codice CIN G,

IBAN IT97 G030 6909 4000 0000 0463 971,

Swift Code BCITIT33100 If payment is made for more than one person, or by a company, or institution, the names of the applicants must be indicated. The course fee covers tuition, refreshments, meals, and accommodation (shared double rooms).

Copy of the bank transfer must be received no later than **10 September 2015** to ensure participation.

## Faculty

*Giovanni Casazza*, Università di Milano, Italy

*Agostino Colli*, Ospedale A. Manzoni, Lecco, Italy

*Dario Conte*, Università di Milano, Fond. IRCCS “Ca’ Granda Ospedale Maggiore Policlinico”

Milano, Italy

*Giorgio Costantino*, Fond. IRCCS “Ca’ Granda Ospedale Maggiore Policlinico”, Milano, Italy

*Gennaro D’Amico*, Ospedale Cervello, Palermo, Italy

*Piergiorgio Duca*, Università di Milano, Italy

*Graziella Filippini*, The Multiple Sclerosis and Rare Diseases of the CNS Group, Fondazione IRCCS

Istituto Neurologico C. Besta, Milano, Italy

*Mirella Fraquelli*, Fond. IRCCS “Ca’ Granda Ospedale Maggiore Policlinico”, Milano, Università di Milano, Italy

*Christian Gluud*, The Cochrane Hepato-Biliary Group, Rigshospitalet, Copenhagen University Hospital, Denmark

*Dimitrinka Nikolova*, The Cochrane Hepato-Biliary Group, Rigshospitalet, Copenhagen University Hospital, Denmark

*Chavdar Pavlov*, Clinic of Internal Diseases Propedeutics, I.M. Sechenov First Moscow State Medical University, Moscow, Russian Federation.

*Vanna Pistotti*, IRCCS Istituto Mario Negri, Milano, The Italian Cochrane Centre, Modena, Italy

*Daniele Prati*, Ospedale A. Manzoni, Lecco, Italy



## DIAGNOSIS: the pathway of a diagnostic test from bench to bedside

### Basic residential course

September 20 to 23, 2015 - Palazzo Feltrinelli  
Gargnano, Lago di Garda, Italy

Centro Interuniversitario

**“THOMAS C. CHALMERS and ALESSANDRO LIBERATI”** - Italy

**Università degli Studi di Milano**

Facoltà di Medicina e Chirurgia

Cattedra di Gastroenterologia

**Fondazione IRCCS Ca’ Granda Ospedale Maggiore Policlinico**

U.O.C. di Gastroenterologia ed Endoscopia  
Milano – Italy

**The Multiple Sclerosis and Rare Diseases of the CNS Group**

Fondazione IRCCS Istituto Neurologico  
C. Besta - Milano - Italy

**The Copenhagen Trial Unit (CTU)**,  
Centre for Clinical Intervention Research,  
**The Cochrane Hepato-Biliary Group**,  
Rigshospitalet, Copenhagen, Denmark