



CO-ORDINATION ACTION on Indoor Air Quality and health effects



EnVIE

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EPAPIFC-CNR UNIT



- **EPAPIFC-CNR is an interdisciplinary unit of the largest Italian Medical Institute of the National Research Council. It is scientifically active at international (European Respiratory Society, European Federation of Asthma and Allergies Associations) and national (Italian Society of Respiratory Medicine, National Institute of Health, National Environmental Protection Agency) levels.**
- **It is composed of 15 researchers including, staff, and “ad-hoc” contract personnel (Pulmonary Doctors, Epidemiologists, Informatics, Programmers and Interviewers).**
- **It is active in the field of environmental epidemiology and pulmonary medicine.**



Involved Persons in EnVie Project



- **Dr. Giovanni Viegi, M.D., specialist in Pulmonary Medicine and Occupational Medicine, Unit Coordinator, senior researcher with the CNR Institute of Clinical Physiology. He has extensive training and experience in designing, conducting and analysing epidemiologic studies, as well as in coordinating international initiatives.**
- **Dr. Marzia Simoni, CIBM contract biologist, has special expertise in epidemiology, bio-medical informatics/telematics, medical statistics. Her main research interests are the health effects of outdoor and indoor air pollution.**
- **Dr. Antonio Scognamiglio, M.D., contract pulmonary specialist.**
- **Dr. Sandra Baldacci, CNR researcher, biologist and epidemiologist.**
- **Mr. Francesco Di Pede, hospital technician, data manager.**
- **Mrs. Patrizia Silvi, CNR secretary.**



Main activities in the field of indoor air quality



- Two Italian indoor studies (in Po Delta and Pisa areas), to evaluate the influence of some common home pollutants (PM_{2.5}, NO₂, Environmental Tobacco Smoke, moulds, cleaning products...) on respiratory health in sub-samples of the general population (1991-1994).
- SEASD Study (*Studio Epidemiologico sulla Salute delle Donne*), to evaluate the health effects of Environmental Tobacco Smoke on women of four Italian areas (Ferrara, Pisa, Viterbo, Rome) (1997-1998).
- THADE Projects (Towards Healthy Air in Dwellings in Europe), to provide an overview of European statistical and epidemiological data about air pollution in dwellings and related health effects (2001-2003).
- SIDRIA Studies (*Studi Italiani sui Disordini Respiratori Infantili e l'Ambiente*), i.e. the Italian phase of ISAAC, to evaluate the health effects of environment (including indoor pollutants) on respiratory health in Italian children and adolescents (2002-2003).
- Participation in a special Committee appointed by the Italian Ministry of Health to write a national report on indoor pollution effects (1998-2001).
- Invited writing of State of Art on indoor pollution and its health effects in developed and developing countries, to be published in the International Journal of Tuberculosis and Lung Disease



More recent publications



Simoni M, Biavati P, Carrozzi L, Viegi G, Paoletti P, Matteucci G, Ziliani GL, Ioannilli E, Sapigni T. *The Po river Delta (North Italy) Indoor Epidemiological Study: home characteristics, indoor pollutants, and subjects' daily activity pattern.* **Indoor Air** 1998; 8: 70-79

Simoni M, Carrozzi L, Baldacci S, Pedreschi M, Di Pede F, Angino A, Pistelli F, Viegi G. *The Po river Delta epidemiological Study: characteristics of women exposed and unexposed to environmental tobacco smoke (ETS) in a general Population sample of North Italy.* **Eur J Epidemiol** 2001; 17(4):363-368.

Simoni M, Carrozzi L, Baldacci S, Scognamiglio A, Di Pede F, Sapigni T, Viegi G. *The Po river Delta (North Italy) indoor epidemiological study: effects of pollutant exposure on acute respiratory symptoms and respiratory function in adults.* **Archives of Environ Health** 2002; 57(2):130-6.

Simoni M, Jaakkola MS, Carrozzi L, Baldacci S, Di pede F, Viegi G. *Indoor air pollution and respiratory health in the elderly.* **Eur Respir J Suppl** 2003;40 :15s-20s.

Simoni M, Scognamiglio A, Viegi G. *Overview of European data on indoor air pollution in dwellings and related health effects.* Proceedings of 8th EFA Conference 2003, pp. 5-9.

Viegi G, Baldacci S, Scognamiglio A, Simoni M. *Outdoor and indoor pollution.* Proceedings of 17th World Asthma Congress, 2003. Monduzzi Editore, Bologna, 2003;149-154.

Simoni M, Scognamiglio A, Carrozzi L, Baldacci S, Angino A, Pistelli F, Di Pede F, Viegi G. *Indoor exposures and acute respiratory effects in two general population samples from a rural and an urban area in Italy.* **J Expo Anal Env Epid** 2004 (special number regarding Indoor Air 2002) (in press).



Contribution to EnVIE Project



The EPAPIFC-CNR Unit is allocated to the WP2: Health effects.

EPAPIFC-CNR Unit would:

- **contribute in the collection, review and critical evaluation of the findings and developments of research results on the health effects of indoor air relevant contaminants (Task 1).**
- **evaluate the significance of indoor exposure on the onset of asthma and allergy symptoms (Task 3).**