

The impact of ICT in health promotion: a randomized experiment with Diabetes patients

Research Proposal
Universidad ORT Uruguay

February 2009

1. Aims and Significance

Internet access offers a number of potential benefits to individuals afflicted with chronic diseases. Through the internet, patients can increase their knowledge of their disease and medical treatments available, they can access information about preventive health practices, they can compare costs and quality of treatments, and can improve their emotional support by interacting with other individuals in their same situation. Moreover, individuals can access these support and information tools whenever they need them and are ready to take them. Internet-based informative and support interventions provide chronically ill patients with the possibility of improving control over their disease management and making better decisions related to their health. On the other hand, there are studies suggesting that some physicians may react negatively to the demands of patients that use internet as a source of information and education (Broom 2005). Other have pointed out to the mixed quality of information available in the world wide web.

The goal of this research project is to study the impact of a specific ICT application in the health promotion and disease management of diabetic chronic patients treated in healthcare centers in Montevideo. Our main hypothesis is that internet-based interventions can empower chronically-ill patients by providing them with informative and support tools that can help them improve their health-related decision-making, and ultimately increase their quality of life and well-being. Better disease management by the patient can also result in lower health care costs for the health care system. To test these hypothesis, we propose to conduct a randomized experiment with one control group and two intervention groups.

2. Target population

For the purposes of this project, it is convenient to consider patients that suffer from a widespread chronic disease in Uruguay. Such is the case of Type II Diabetes, which requires: a) constant follow-up from the head physician, and b) self control on the part of the patient. Also, it is one of the most expensive diseases for the health care system. The cost effectiveness analysis of ICT as a tool for reduction of diabetes associated complications is potentially very important from a policy perspective.

Therefore, the target population is defined as adult patients suffering from Type II Diabetes that have access to internet (a PC and internet connection at home) and are currently being treated in the HMO sector in Montevideo. Due to the specificities of pregnancy, expecting women would not be included in the study.

3. The intervention

In order to recruit the participants we have contacted the two largest HMOs in the country. The initial size of the sample will be of 600 individuals. As always in this type of studies we need to take into account possible attrition of initially recruited individuals, both during the baseline workshops and during the *online* phase (see below). Our goal is to end up with a sample of at least 450 individuals (150 for the control group, 150 for the basic intervention, 150 for the advanced intervention).

3.1 The treatment groups

a) Basic intervention: information through a web platform

The basic intervention consists in the dissemination through the internet, of information and materials related to Type II Diabetes. The information and materials for the patients will be published in a web site specially designed for this study that will be updated weekly. The intervention group will have unlimited access to the site. Besides, patients in this group will receive a weekly reminder through email. They will be able to download freely all available material. This will include articles or brief presentations, videos and images, schedules, news and links to other related web sites. See the appendix for examples.

b) Advanced intervention: web platform + social network

Besides information, one of the main advantages of the internet in the empowerment of individuals is its anonymity. The internet allows individuals to ask questions they may be ashamed to ask in face to face encounters. For instance, sexual dysfunction may be associated with the evolution of diabetes. Also the anonymity of internet allows patients to share their personal experiences and learn from each other.

The group subject to the advanced intervention will have exactly the same treatment as the basic intervention group plus an additional component consistent in the involvement of the subject in an internet based social network. The social network complementary intervention seeks to evaluate another possible use of technology aimed at facilitating the exchange of personal experiences, questions, and knowledge between patients that share the same condition. The network will take place on an electronic platform, where patients will meet in forums, chats, and wikis to discuss ideas or ask about the materials or other aspects of their life as chronic patients. With the purpose of stimulation and ordering network participation, there will be an “animator” (non-medical). Periodically, a physician specialized in Diabetes will participate in the network by commenting, clarifying and answering some questions (after reading the patients’ comments).

3.2 Implementing the intervention

Before the *online* phase, Groups a) and b) will participate in a short workshop on “Searching Information on the Internet”. In the case of group b), the workshop will include navigation aspects and use of the “Social Network platform” (wikis, chat,

forums). An expert in search and documentation will coordinate each of these workshops - which will have a duration of 3 hours -. The workshops will include an organized set of practical activities using a PC (two participants per PC) and will take into account the knowledge of participants regarding their “computer skills”. The workshop's objective is to guide patients into the effective search of information on the web related to their illness. For those in Group b) some examples will also be presented regarding other related social networks. The workshops will take place at the facilities of the Universidad ORT.

After the workshop has take place both groups will enter the “distance phase” of the project, which will last for 5 months. Participants will have access to the web site and to the social network platform through email. Subjects in the basic intervention group will be able to navigate freely and download any material they wish, and access every related site's link. For those in the advanced intervention group, the social network will work through an electronic platform in which the users will find some topics to start participating¹ in the different activities (forums, chats, wikis) set up by the “animator”, who will coordinate his interventions with the specialists. These will participate sporadically in the forums with the objective of informing and correcting misperceptions that participants may have about their disease and its treatment and management. These interventions will be handled with care in order not to generate false expectations on the patients (they are not meant to be online consultation).

The site <http://www.evimed.net:8044/wiki/index.php/Portada> shows a recent EviMed's experience in a Distance learning Course for physicians in which a wiki platform – cooperative tool for the construction of collective knowledge - was successfully used and generated a full article from the expert's topic ant the simple interaction between the students

The messages and educational materials will be elaborated and/or chosen by the specialist physicians and edited by EviMed's interdisciplinary team (documentalist, internists, communicators). The contents of the messages and materials for groups a) and b) will be the same. The sources will be sites such as *Medline Plus*, *eviDoctor*, etc.²

4. Baseline and Follow-up Interviews and Study Outcomes

Participants will be recruited in the waiting rooms of general and internal physicians' offices in two health care organizations in Montevideo. Those satisfying the study inclusion criteria (type II diabetes, use of internet at home, not pregnant) will be administered a baseline survey (*pretest*) that will gather information about: a) use of Internet, b) overall health status and severity of the disease c) disease management, use of health care, and compliance with treatment, and d) sociodemographic characteristics. When finished, each respondent will receive hard copies of materials elaborated by

¹ For example, forum topic: “What physical workout do we usually do?” or a Wiki topic: “Healthy recipies with spinach”.

² In the Appendix we include other graphic materials used by EviMed and the Sociedad de Diabetología y Nutrición del Uruguay in educational activities. Attached to this proposal we include a file with an example of the Audiovisual material to be used and the wiki article previously mentioned.

experts in diabetes, aimed at explaining the fundamental aspects of Type II Diabetes treatment.

Subjects completing the baseline interview will be randomly assigned to the control group, the basic intervention group and the advanced intervention group and will answer a more detailed questionnaire.

A follow up interview will take place five months after the initiation of the distance phase of the intervention.

The study will analyze the effect of the ICT intervention in a variety of outcomes:

- Patient overall well being (self-reported and quality of life adjusted years)
- Treatment adherence
- Use of health care
- Satisfaction with treatment
- Information about the disease and its treatment.
- Patient-physician relationship
- Technology related skills

To measure these outcomes, both the baseline and follow-up questionnaires will inquire about clinical markers of diabetes, comorbidity, self-reported health status. health status as measured by the SF12 instrument (which will be used to construct quality of life adjusted years), health related behaviors (such as nutrition, exercise, and use of alcohol, drugs and tobacco), health care utilization (visits to the physician, hospitalizations, exams, medication), markers of treatment adherence, satisfaction with treatment, patient's perceptions of trust on the physician, physician's interpersonal and technical competence, and time spent by the patient in the internet as well as the modalities of internet use.

In addition, a cost component will capture the opportunity costs of implementing the intervention. These will include personnel and other costs required to design, put into function, and maintain the web platforms (educational costs, costs of clinicians and moderators, biomedical documentation costs, information technology costs, costs of coordination and administration, as well as other infrastructure and equipment costs). A second cost component will focus on estimating the time costs spent by the patient in the web getting information about the disease and intervening in the support group.

5. Schedule

	2009											2010		
	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar
<i>Preparation</i>														
<i>Pretest-Initial survey</i>														
<i>Workshops</i>														
<i>Online Phase</i>														

<i>Report on web use</i>														
<i>Posttest-Final survey</i>														
<i>Writing</i>														
<i>First draft report</i>														

6. Estimation strategy

In general, it is difficult to evaluate the effects of ICT programs due to selection problems. Those individuals or groups that decide to participate in the program may have subtle differences with those that do not participate. These differences (e.g. laziness) may have an impact on the evolution of the disease, the satisfaction of the patient with treatment, and other dimensions we would like to pursue.

The randomized controlled trial framework proposed minimizes this endogeneity problem but does not completely eliminate it. In this scenario there is still one concern that needs to be addressed: non-compliance. Although each individual invited to participate in the intervention (groups a or b) could have benefitted from the workshop and the online phase of the study, some of them may choose not to participate. This non-participation may also be associated with personal or family characteristics that may impact on the variables under study.

In order to avoid this situation it is important to instrument the treatment with an intention to treat variable that should be defined as all those that were invited to participate in the intervention whether they took part of it or not.

Once the exogeneity of the treatment is established, the identification of the causal effects of ICT technologies follow from simple econometric techniques. Given a certain indicator that we would like to measure, Y , the effect of the intervention is given by a difference-in-difference procedure. The effect of the intervention is computed as the average pre and post difference in Y for the treatment minus the pre and post difference in Y for the control group.

The experiment presents a nested framework that allows comparison of:

- the effects of the web platform (the basic intervention vs the control group),
- the effects of the internet based social network (the advanced intervention vs the basic intervention)
- and the overall effect of ICT technology (the advance intervention vs the control group).

In addition to evaluating the effectiveness of the intervention for each of the outcomes described under section 4, we will conduct cost-effectiveness and cost-utility analyses of the intervention. Cost-effectiveness analysis (CEA) facilitates the comparison of incremental opportunity costs and incremental outcomes when a single clinical or non-clinical outcome is under evaluation (such as blood sugar level or health care utilization costs). Cost-utility analysis (CUA) compares incremental opportunity costs against

quality adjusted life years saved, which is a common measure used in competing projects (Drummond et al., 2005).

7. Research team

The Department of Economics of Universidad ORT Uruguay will be in charge of this research project in coordination with Evimed and the Sociedad de Diabetología y Nutrición del Uruguay.

Project director:	Nestor Gandelman
Researcher 1:	Ana Balsa
Consultant in survey design:	Giorgina Piani

The intervention:	
Materials and ICT	Evimed :
	Alvaro Margolis
	Elisa Martinez
	Thais Forster
	Sofía García
	Antonio Lopez
	Laura Llambí

Diabetes consultants:	Graciela Vitarella
	Susana Maggiolo

Néstor Gandelman is the Director of the Department of Economics of Universidad ORT. He holds a Ph.D. in Economics from the University of Rochester. He has been a grantee and project director of various IADB's Research Network projects. He has vast experience in quantitative data analysis and participated in research projects involving natural experiments and on the lab decisions experiments.

Ana Balsa is Research Faculty at the Health Economics Research Group, Department of Sociology, University of Miami. She holds a Ph.D. in Economics from Boston University and has specialized in the area of Health Economics. She has conducted research on discrimination and inequality in healthcare, the economics of substance use, and the social production of health,

Giorgina Piani will be involved in the project as a consultant in survey-related issues. She holds an M.S. in Survey Methodology from the Institute for Social Research (ISR) at the University of Michigan, Ann Arbor. She has extensive experience in applied research in Uruguay and has been a consultant for the World Bank and for research projects of the Research Department of the IADB.

EviMed is a Uruguayan company dedicated to the provision of services of continuing medical education, medical services consulting, and software development. EviMed's EviDoctor project aims at shortening the delay in the application of new scientific evidence in routine clinical practice. It is extended to cover the needs of individual doctors and health care institutions in Uruguay and Latin America.

The appendix includes a more extensive presentation of Evimed, together with the CV's of EviMed's staff, and those of members of the Sociedad de Diabetología y Nutrición del Uruguay that will be involved in this project.

8. References:

Rivero Illa M. Enhancing the livelihoods of the rural poor. The role of information and communication technologies. ICP-Universidad de la República. Junio 2007.

Bonina C, Rivero Illa M. Telefonía móvil y pobreza digital en América Latina. ¿Puede la expansión de los teléfonos celulares reducir la pobreza en América Latina? DIRSI, 2008 (Serie Concurso de Jóvenes Investigadores, 3) 38 p. il.

Broom A. 2005. Virtually Healthy: The Impact of Internet Use on Disease Experience and the Doctor Patient Relationship. *Qualitative Health Research* 15(3): 325-345.

Drummond, MF., Sculpher MJ, 2005, Torrance GW, O'Brien BJ, Stoddart, GL. *Methods for the Economic Evaluation of Health Care Programmes*. Oxford University Press.

Faridi Z, Liberti L, Shuval K, Northrup V, Ali A, Katz DL. Evaluating the impact of mobile telephone technology on type 2 diabetic patients' self-management: the NICHE pilot study. *J Eval Clin Pract*. 2008 Jun;14(3):465-9.

Blonde L, Parkin CG. Internet resources to improve health care for patients with diabetes. *Endocr Pract*. 2006 Jan-Feb;12 Suppl 1:131-7

Wangberg SC. An Internet-based diabetes self-care intervention tailored to self-efficacy. *Health Educ Res*. 2008 Feb;23(1):170-9.

Bull SS, Gaglio B, McKay HG, Glasgow RE. Harnessing the potential of the internet to promote chronic illness self-management: diabetes as an example of how well we are doing. *Chronic Illn*. 2005 Jun;1(2):143-55.

Liszka HA, Steyer TE, Hueston WJ. How to guide patients for online information: focus on chronic disease. *J S C Med Assoc*. 2005 Dec;101(11):378-80

¡Es muy difícil ser cuidadoso de aquello que no podemos sentir!

Un examen físico hecho por un doctor y algunas veces estudios especiales pueden hacer el diagnóstico.

Si la neuropatía es la pérdida de la sensibilidad, ¿por qué a veces tengo dolores intensos en mis pies?

La neuropatía puede provocar un "descontrol" de los nervios de piernas y pies y ellos entonces comienzan a transmitir sensaciones que usted percibe como dormidera, dolores, sensación de quemadura, de electricidad o como que le clavan agujas.



¿Todos los diabéticos tienen neuropatía?

No todos. La posibilidad de instalar neuropatía aumenta con la edad. Cuanto más tiempo haga que usted es diabético, mayores posibilidades tiene de desarrollar neuropatía.

¿Qué le puede pasar a mi pie si yo tengo una neuropatía?

Usted puede lastimarse sin darse cuenta. Por ejemplo, una persona con neuropatía puede cortarse o lastimarse el pie y seguir caminando y usando su zapato porque no siente dolor y no se da cuenta de ello.



¿De qué otras maneras puede la neuropatía herir mis pies?

Si usted usa un par de zapatos que se adaptan mal a sus pies, se pueden producir ampollas o heridas abiertas (úlceras) que pueden formarse en menos de una hora de usarlos.

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CIRCULACIÓN: una llave para la curación

¿Cómo afecta la diabetes a la circulación?

La diabetes puede contribuir a achicar el tamaño de las arterias y disminuir así la circulación de piernas y pies.

¿La mala circulación afecta la curación de heridas?

Si. La piel y otros tejidos dependen de la buena circulación dado que ella es la que provee oxígeno y nutrición a los tejidos. La mala circulación puede llevar a que las lesiones del pie curen mal. Prestar mucha atención a sus pies, principalmente inspeccionándolos 2 veces al día es la llave para prevenir problemas serios.

INFECCIONES: alerta roja

¿Por qué las infecciones causan problemas al pie?

Las infecciones pueden diseminarse rápidamente en el pie sin dar mucho aviso. Golpes mínimos pueden causar heridas abiertas, que rápidamente se transforman en abscesos (infecciones profundas). Una vez que una infección se hace profunda o llega al hueso, seguramente necesitará, además de antibióticos, cirugía.

¿Qué es lo que yo debería vigilar?

Varios "signos silenciosos" deberían llevarlo a usted a sospechar la infección. Un ascenso de temperatura Inexplicable o fiebre asociada con heridas abiertas o ampollas sobre su pie, pueden señalar una infección. Otros signos pueden incluir aumento de la glucemia o que requiera más dosis de insulina. Inspeccione sus pies regularmente para prevenir serios problemas.



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Curriculum Vitae, February 2009

Personal Information

Date of Birth:	12/27/1971	Address:	B. Blanco 616 ap. 102
Nationality:	Uruguayan		Montevideo 11.300, Uruguay
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Education

1996-2000	University of Rochester, <i>Doctor of Philosophy (Ph.D.)</i> <i>Master of Arts (M.A.)</i>	Rochester NY, USA June 2000 May 1999
1990-1995	Universidad de la República, <i>Licenciado en Economía</i>	Montevideo, Uruguay September 1995

Professional Experience

Current affiliation

2003-2008	Coordinador Académico de Economía (Director Department of Economics) Universidad ORT Uruguay	2000-2002	Coordinador Académico Adjunto de Economía (Associate Director of the Department of Economics) Universidad ORT Uruguay
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Consultant experience and research projects with various institutions

2008-2009 IADB- Understanding productivity levels
2008-2009 World Bank- Productivity in services
2008 IADB- Productive Development Policies
2007-2008 IADB- QoL in Urban Neighborhoods
2007 IADB- Titling in Latin America: Effects and Channels
2007 IADB- Construyendo confianza y capital social para reducir barreras de exclusión.
2007 World Bank- Assessing the Effects of TRIPS-plus Provisions on Uruguay's
Pharmaceutical Market
2007 World Bank- Export productivity premiums in Uruguay
2006 Ministry of Housing, Uruguay: Deficit habitacional y capacidad de acceso a la vivienda.
2006 Ministry of Housing, Uruguay: Ministry of Housing: Ejecuciones hipotecarias:
plazos y costos
2005-2006 IADB- Discrimination and Economic Outcomes
2005-2006 IADB- The Development of Latin-American Bond Markets
2005 World Bank- The Impact of Trade Liberalization and International Exposure on
Labor and Capital Adjustment Functions in Uruguay
2002-2003: IADB- Market Institutions, Labor Market Dynamics, Growth and
Productivity: An Analysis of LAC
2002 IADB- What is the State of Housing Finance in LAC
2001 IADB- Determinants and Consequences of Financial Restrictions Facing Firms

Other experience

Federal Reserve Bank of St. Louis:

2007 Visiting Scholar
2004 Visiting Scholar

Newspaper "El País":

2006-2008 Columnist in the Economics section of the newspaper

Research Publications

- Selection biases in sports markets (forthcoming), *Journal of Sports Economics*
- Mobility among employers and assortative matching: field evidence from soccer data (2008) *Journal of Sports Economics* Vol 8(4): 371-386.
- Long-Run Growth and Productivity Changes in Uruguay: Evidence from Aggregate and Industry Level Data (2007), with C. Casacuberta and R. Soto, *International Journal of Development Issues* Vol. 6(2), 106-124.
- El Mercado de Renta Fija en Uruguay (2007), joint with J.de Brun, H. Kamil and A. Porzecanski *Revista de Economía del Banco Central del Uruguay* Vol. 14(1), 35-96.
- R&D Institutional Arrangements: Start up vs. Lab joint (2007) with Manfred Dix, *The Manchester School* Vol. 75(2), 218-236.
- Community Tax Evasion Models: A Stochastic Dominance Test (2005), *Journal of Applied Economics*, Vol. 8(2), 279-297.
- Creación, destrucción y reasignación de empleo y capital en la industria manufacturera (2005), joint with C. Casacuberta y G. Fachola, *Revista de Economía del Banco Central del Uruguay*, Vol. 12(2), 89-124.
- The Impact of Trade Liberalization on Employment, Capital and Productivity Dynamics: Evidence from the Uruguayan Manufacturing Sector (2004), joint with C. Casacuberta y G. Fachola, *Journal of Policy Reform*, Vol. 7(4), 225–248.
- A Tax Community Competition Model with Evasion (2004) joint with R. Hernández-Murillo, *Topics in Economic Analysis & Policy*: Vol. 4: No. 1, Article 13.

Chapters in books

- Factor Adjustment and imports from China and India: evidence from Uruguayan Manufacturing Sector (2008) in D. Lederman, M. Olarreaga and G. Perry (eds.) *China's and India's Challenge to Latin America: Opportunity or Threat?*, World Bank.
- Export Premiums (2008), joint with C. Casacuberta, M. Olarreaga, G. Porto and E. Rubiano in Fajnzylber and Lopez (eds.) *Does the Investment Climate Matter? Microeconomic Foundations of Growth in Latin America*, Palgrave Macmillan.
- Traditional Excluding Forces (2008), joint with a H. Ñopo y L. Ripani, in Márquez, Chong, Duryea, Mazza and Ñopo (eds.), *Outsiders? The Changing Patterns of Exclusion in Latin America and the Caribbean*, Economic and Social Progress in Latin America - IPES 2008, Inter American Development Bank.

Also in Spanish:

- Las fuerzas tradicionales de exclusión (2008), joint with H. Ñopo and L. Ripani, in Márquez, Chong, Duryea, Mazza y Ñopo (eds.), *¿Los de afuera? Patrones cambiantes de exclusión en América Latina y el Caribe*, Informe de Progreso Económico y Social – IPES 2008, Inter American Development Bank.
- The Fixed Income Market in Uruguay (2008), joint with J.de Brun, H. Kamil and A. Porzecanski, in E. Borensztein, K. Cowan, B. Eichengreen and U. Panizza (eds), *Bond Markets in Latin America. On the Verge of a Big Ban?* MIT Press.
- International Exposure, Unionization and Market Concentration: the effects on factor use and firms' productivity in Uruguay (2007) joint with C. Casacuberta y G. Fachola, in

Aryeetey and Dinello (eds.) *Testing Global Interdependence: Issues on Trade, Aid, Migration and Development*, Edward Elgar Publishing.

- Investment equations and financial restrictions at firm level: The case of Uruguay (2003) joint with E. Baribieri and J. de Brun, in Galindo and Schiantarelli (eds.) *Credit Constraints and Investment in Latin America*, Inter American Development Bank.

Papers submitted to refereed journals

- Protection, Openness and Factor Adjustment: Evidence from the manufacturing sector in Uruguay, Revised and Resubmit for *Economic Development and Cultural Change*.
- Gender Differentials in Foreclosure Proceedings in Uruguay, Revised and Resubmit *International Review of Law and Economics*.
- Female Headed Households and Homeownership in Latin America, Revised and Resubmit *Housing Economics*.
- Multiple job holding: the artist's labor supply approach, submitted *Applied Economics*.
- Traditional Excluding Forces: A Review of the Quantitative Literature on the Economic Situation of Indigenous Peoples, Afro-descendants, and People Living with Disability, submitted *Journal of Survey Economics*.

Teaching experience

2000-2008	Professor, Universidad ORT Uruguay <i>Industrial Organization and Principles of Economics</i>
Summer 1999	Summer Instructor, University of Rochester <i>Intermediate Macroeconomics</i>
1998- 1999	Teaching Assistant, University of Rochester <i>Industrial Organization and Intermediate Macroeconomics</i>

Honors

2006	Medal Award Winner, Eight Annual Global Development Conference (GDN), Beijing, China
2005	Finalist "Japanese Award for Outstanding Research on Development", Seventh Annual Global Development Conference (GDN), St Petersburg, Russia.
2004	Finalist "Medal for Outstanding Research on Development", Sixth Annual Global Development Conference (GDN), Dakar, Senegal.
2002	National Award in Economics "Profesor Raúl Trajtenberg" (Second Place).
1998-2000	Fulbright grantee
1996-2000	Department of Economics, University of Rochester Scholarship

Languages

Spanish: native speaker	English: complete fluency	Hebrew: advanced.
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Curriculum Vitae - February, 2009

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HIGHER EDUCATION

Ph.D., Economics, Boston University, Boston, Massachusetts, 2003.
Dissertation: *Essays on Information and Healthcare Disparities.*

B.A., Economics, Universidad de la República, Montevideo, Uruguay, 1996.

ACADEMIC AND RESEARCH POSITIONS

2004-present	Research Assistant Professor	University of Miami Department of Sociology Health Economics Research Group Miami, FL
2006-2007	Adjunct Professor	University of Montevideo Department of Economics Montevideo, Uruguay
2002 to 2004	Research Associate	Cambridge Health Alliance Center for Multicultural
	Mental	Health Research Cambridge, MA
1999 to 2002	Research Assistant	Harvard Medical School, Department of Health Care
	Policy,	and Boston University, Department of Economics Boston, MA
1995 to 1997	Assistant Lecturer	Universidad de la Republica, Department of Economics Montevideo, Uruguay

NON ACADEMIC POSITIONS

1994 to 1997	Senior Consultant	Deloitte & Touche
1992 to 1994	Consulting Assistant	Department of Economics Montevideo, Uruguay

PUBLICATIONS

Juried or Refereed Journal Articles

- Balsa, A.I., Ferrés, D., Triunfo, P., Rossi, M. 2008. "Inequidades socioeconómicas en el uso de servicios de salud del adulto mayor montevideano" (Socioeconomic inequities in the use of health care services by the elderly in Montevideo). *Estudios Economicos (Mexico)*, forthcoming.
- Balsa, A.I., Homer, J.F., French, M.T., Weisner, C.M. 2008. "Substance Use, Education, Employment, and Criminal Activity Outcomes of Adolescents in Outpatient Chemical Dependency Program", *Journal of Behavioral Health Services and Research*, forthcoming.
- Balsa, A.I. 2008 "Parental Problem- Drinking and Adult Children's Labor Market Outcomes", *Journal of Human Resources*, 43 (2): 454 - 486.
- Balsa, A.I., Homer, J.F., Fleming, M.F., French, M.T. 2008. "Alcohol Consumption and Health Among the Elderly", *The Gerontologist*, 48(5): 622-636.
- Balsa, A.I., J. Dubra. 2007. El Mercado de la Salud: Fallas y Arreglos Institucionales. *Biomedicina (Montevideo)* 3(1): 54-62.
- Balsa, A.I., Cao, Z., T.G. McGuire. 2007. "Does Managed Health Care Reduce Health Care Disparities Between Minorities and Whites?" *Journal of Health Economics*, 26: 101-121.
- Balsa, A.I., McGuire, T.G. and L.S. Meredith. 2005. "Testing for Statistical Discrimination in Health Care", *Health Services Research*, 40(1); 227-252.
- Balsa, A.I., and McGuire, T.G.. 2003. "Prejudice, Clinical Uncertainty and Stereotyping as Sources of Health Disparities", *Journal of Health Economics* 22(1); 89-116.
- Balsa, A.I., N. Seiler, T.G. McGuire, and G. Bloche. 2003 "Clinical Uncertainty and Health Care Disparities"; *American Journal of Law and Medicine*, 29(2/3): 203-220
- Balsa A.I. and McGuire, T.G. 2001."Statistical Discrimination in Health Care"; *Journal of Health Economics* 20(6); 881-907.

Research Under Review

- Balsa, A.I. 2008. "From Pubs to Scrubs: Alcohol Misuse and Health Care Utilization", with Maclean, J.C., French, M.T., Norton, E. In review. *Health Services Research*.
- Balsa, A.I., French, M.T. 2008. "Alcohol use and the labor market in Uruguay". In review. *Health Economics*.

Balsa, A.I., French, M.T., Giuliano. 2008. "Alcohol use and Academic Achievement". In review. *Journal of Health Economics*.

Professional and Honorary Organizations

Member of:

International Health Economics Association
American Society of Health Economists
Asociación de Economistas de la Salud de Uruguay Latin American Economic Association

Manuscript referee for:

Journal of Health Economics
Health Economics
Health Services Research
Journal of Behavioral Health Services and Research
Contemporary Economic Policy
Addiction
Drug and Alcohol Dependence

Thesis committees:

Bai, Hugo. 2008. (Committee member, BA thesis Economics Major, Universidad de la República, Uruguay)
De León, Ma. Eugenia, Rodríguez, Gabriela. 2008. "La Salud Mental en Uruguay". (First advisor, BA thesis Economics Major, Universidad de la República, Uruguay)
Rossi, I., Tellechea, F., Tramontin, F. 2006. "El Estado de Salud de los Uruguayos Montevideo: 2005" (Committee member, BA thesis Economics Major, Universidad de la República, Uruguay)

Honors and Awards

Graduate Fellowship, Department of Economics, Boston University, 2000-2002
Organization of American States Fellowship, 1997-1999
Fulbright Laspau Grant, 1997-1999

TEACHING

2008. Health Economics. Lecturer. Department of Biomedical Sciences, Universidad de Montevideo, Montevideo, Uruguay.

2006-2007. Intermediate Microeconomics. Lecturer. Department of Economics. Universidad de Montevideo, Montevideo, Uruguay.

1994-1997. Intermediate Macroeconomics. Teaching Assistant. Universidad de la Republica, Montevideo, Uruguay

Giorgina Piani

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gpiani@umich.edu

Titles & Education

- **M.S. Survey Methodology**, University of Michigan - Ann Arbor. (2005)
- **“Multi-Level Analysis of Survey Data”** - Summer Institute in Survey Research Techniques – ISR – University of Michigan USA (2006)
- **“Combining Qualitative and Quantitative Methods”**- Summer Institute in Survey Research Techniques – ISR – University of Michigan USA (2004)
- **“Qualitative Data Analysis With and Without Computers”**- Summer Institute in Survey Research Techniques – ISR – University of Michigan USA (2004)
- **“Surveys across countries and populations”**-Summer Institute in Survey Research Techniques ISR – University of Michigan USA (2004)
- **Certificate in Economics**. Department of Economics – Social Science School – Universidad de la República – Uruguay. (1997)
- **Certificate in Marketing Research** Universidad ORT, Montevideo - Uruguay (2001)
- **Bachelor in Sociology** Social Science School – Universidad de la República, Montevideo Uruguay (1996)

Survey Experience

- **Survey design and supervision** in project “Quality of Life in urban neighborhoods in Latin America” Inter-American Development Bank (2007)
- **Survey Field Supervisor**: “Measuring street children in Montevideo II” Ministry of Social Development, Montevideo-Uruguay (2007)
- **Survey Field Supervisor**: “Experiments in building trust and social capital in Latin-America and the Caribbean”, Inter-American Development Bank (2007)
- **Main Investigator and Field Supervisor**: International Social Survey Program, Annual Public Opinion Surveys (n=1100) (2003-2007)
- **Survey Field Supervisor**: “Measuring street children in Montevideo” ONG Gurises Unidos, Montevideo Uruguay (2003)
- **Survey Field Supervisor**: “Economic impact of the Montevideo Free Trade Zone” ONG Cinve (2002)
- **Survey Field Supervisor**: “Survey on social characterization of the economic crisis in Uruguay” (n=3000), World Bank (2002)
- **Survey Field Supervisor**: “Social behavior and cultural consumption in Uruguay” (n=3500) School of Humanities (2002)
- **Survey Field Supervisor**: “Family arrangements and Social Performances in Montevideo” (n=3200) Social Science School & UNICEF (2001)
- **Survey Field Supervisor**: Project ‘The public-private conventions to provide substructure and services of environmental drainage: The experience of Salto, Uruguay’ (n=450) Social Science School & IDRC (2000)
- **Survey Field Supervisor**: “First Census of Clasificadores” Social Science School (2002)
- **Survey Field Supervisor**: “The Labor Market of musicians in Uruguay” (n=525) Social Science School, Universidad de la República (2000)
- **Survey Field Supervisor**: “Census of human settlements in Montevideo” (n=600) Social Science School, Universidad de la República (1999)

Research Experience

- **Research Manager:** PRIME research (Media monitoring) Mainz - Alemania (2006-2008)
- **Research Manager:** PRIME research (Media monitoring) Montevideo, (2006-2008)
- **Assistant Professor:** Department of Economics–Social Science School, Montevideo (2005-2007)
- **Project Leader:** “Quality of Life in urban neighborhoods in Latin America” Inter-American Development Bank (2007)
- **Research Associate:** “Experiments in building trust and social capital in Latin-America and the Caribbean”, Inter-American Development Bank (2007)
- **Research Associate:** “What emigration leaves behind: the situation of emigrants families in Ecuador” Inter-American Development Bank (2005)
- **Research Manager:** PRIME research (Media monitoring) Ann Arbor, MI (2005-2006)
- **Research Associate II** ISR – University of Michigan (2003-2005)
- **Translator II** (English-Spanish) – Health and Retirement Study – University of Michigan (2003)
- **Junior Researcher** ‘Family arrangements and Social Performances in Montevideo Uruguay’ Social Science School – UNICEF (2001-2003)
- **Research Assistant** ‘The public-private conventions to provide substructure and services of environmental drainage: The experience of Salto (ROU)’ Social Science School & IDRC (2000)
- **Research Assistant** “The Labor Market of musicians in Uruguay” Social Science School – Universidad de la República. (2000)
- **Research Assistant** ‘Women’s Situation in Uruguay: Advances Post Beijing’ 1995-2000’ Instituto Nacional de la Familia y la Mujer, United Nations Development Program (1999-2000)
- **Research Assistant** Interconsult– Grupo Consultor (Public Opinion & Marketing Research) (1998-2003)
- **Research Assistant** Department of Economics– Social Science School – Universidad de la República (1997-2003)
- **Research Assistant** ‘Child Labor Abolition in Uruguay’–UNICEF (1997-1998)
- **Research Assistant** ‘Building a data base and a Cost System for the Public Health Service in Uruguay’ Ministry of Public Health (1997-1998)
- **Research Assistant** National Statistical Institute of Uruguay (1995-1996)

Teaching Experience

- **Professor** “Quantitative Methods” course for Psychologists, Social Science School, Universidad de la República-Uruguay (2007)
- **Teaching Assistant** Social Science School, Universidad de la República – Uruguay (1998-2003)
- **Teaching Assistant** School of Law, Universidad de la República – Uruguay (1997-1998)

Publications

- **“Experiments in producing nonresponse bias”** (R.Groves, M.Couper, S.Presser, E.Singer, R.Tourangeau, and L.Nelson) Public Opinion Quarterly (POQ), Vol.70 No.5, Special Issue 2006, pp.720-736
- **“Time allocation at home”** (Zuleika Ferre, Giorgina Piani, Maximo Rossi) Working Paper, Department of Economics, Social Science School (2004)
- **“Who marries whom? Educational homogamy in Montevideo”** Working Paper, Department of Economics, Social Science School (2003)
- **“Family arrangements and Social Performances in Montevideo”** (Wanda Cabella, Marisa Bucheli, Andrea Vigorito, Giorgina Piani and Andrés Peri (2002) UNICEF – Universidad de la Republica

- “Women Situation in Uruguay. Advances Post Beijing” (2000)

Honors

- 2002 – Fulbright Scholarship for Postgraduate Studies
- 2002 – Rackham – University of Michigan – Full Tuition Scholarship
- 2001 – CSIC Scholarship – Comisión Sectorial para la Investigación Científica, República del Uruguay, to study the marriage arrangement in the Uruguayan society. The project ‘Who marries whom’ was selected among 38 proposals to be financed with a total amount of US\$ 4.000 for a 12 months period. CSIC is an Institution associated to Universidad de la República to promote scientific research in different areas of knowledge.
- 1997 – Department of Economics FCS – 50% Tuition Scholarship Certificate in Economics

Project Awards

- Inter-American Development Bank – ‘Quality of Life in urban neighborhoods in LAC (2007)
- Inter-American Development Bank – ‘Experiments in building trust and social capital in Latin-America and the Caribbean” (Co-author Néstor Gandelman) (2007)
- Inter-American Development Bank – ‘What emigration leaves behind: The situation of emigrants families in Ecuador’ (Co-author Ximena Soruco and Máximo Rossi) (2005)

Conferences

- Presenter at Social Science School Meeting, Montevideo 2007 “Experiments in producing non response bias”
- Presenter at ESRA (European Social Survey Association), Praga 2007 “Translating English questions into Spanish”
- Presenter at ISSP Annual Meeting (International Social Survey Program), Taipei 2007 “Translating ISSP questionnaires into Spanish”
- Presenter at CIMA 2001 (South American Environmental Meeting) University of Talca – Chile (2001) ‘The public-private conventions to provide substructure and services of environmental drainage: The experience of Salto”
- Presenter at “Human Development Index meeting” National Statistical Institute (1997)

Languages

- Spanish: native language
- English: fluency in reading, speaking and writing
- Italian: reading
- Portuguese: reading
- German: basic knowledge



Bringing scientific evidence to clinical practice: The eviDoctor project

EviMed is a Uruguayan company, which is dedicated to bringing services of continuing medical education, medical services consulting and software development. There is a professional team with more than a decade of experience in information technology in Health.

EviDoctor aims at shortening the delay in the application of new scientific evidence in routine clinical practice. It is extended to cover the needs of individual doctors and the health care institutions of Uruguay and the region. Its two main components are:

- 1) Service of Continuing Medical Education.
- 2) Information systems for health care.

1) Service of continuing medical education

EviDoctor Web is the Web interface to the Continuing Medical Education (CME) Service. It collects a number of common topics in Uruguay in the outpatient setting (smoking cessation, hypertension, asthma, polypharmacy in elderly patients, low back pain, among others). It emphasizes prevention, chronic diseases and frequent patient education through the physician. The documents are written in Spanish and are developed by recognized experts, which address the problems independently. This proposal combines both on-site and e-learning components.

The Continuing Medical Education Service is working since August 2004, having distributed 166 weekly newsletters. It works in collaboration with academic institutions, such as the Department of Gastroenterology, Faculty of Medicine, the Society for Nutrition and Diabetes of Uruguay, the British Hospital, the Honorary Commission Against Cancer or the Faculty of Medicine, University of Calgary, Canada.

Currently, 3,800 doctors and health professionals from all around the country, who have explicitly expressed their interest in accessing eviDoctor site, receive our weekly newsletters. Six institutions have contracted with this service at the institutional level, to ensure their doctors keep updated: Círculo Católico, Hospital Militar, Cooperativa Medica de Rocha, Asociación Médica de Maldonado, Sociedad Médico Quirúrgica de Salto and the Cooperative Medical of Soriano.

EviMed has given counsel to a main Puerto Rican Health Insurance Company, and is analyzing the adaptation of its Uruguayan CME Service to Puerto Rico.

2) Information Systems for health care

EviDoctor Clínicas is the component of eviDoctor for clinics and healthcare institutions; it includes the electronic medical record and medical statistics, according to the new standards adopted in Uruguay.

It also includes basic software, with versions tailored to the different medical specialties. It currently is in use at several institutions, such as the Department of Pneumology, School of Medicine, CEDEFECO and the Institute of Medical Genetics of the Italian Hospital of Montevideo.

EviMed currently performs a consultancy work for the National Program for Control of Cancer (PRONACAN/MSP), of the Department of Health. It is also initiating a project for the international transmission of clinical data of patients with a transplanted liver, in association with the Italian Hospital of Buenos Aires - Argentina and the National Fund of Resources in Uruguay, using the standard HL7 for exchange of information between medical systems through a "broker" developed by EviMed.

For more information visit www.evimed.net

Personal data:

Name: **Alvaro Margolis**

Titles: MD, MS

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Short biography

He is an internist from Uruguay with a Master's degree in Medical Informatics from the University of Utah (USA). He has held academic positions in Internal Medicine and in Continuing Medical Education at the School of Medicine, Universidad de la República, Uruguay. Over the last decade he has participated in several clinical informatics projects; for example, he currently is a member of the coordination team for a project aimed at deploying clinical information systems across FEMI, a Federation of 24 private non-for-profit health care institutions in Uruguay, with support from the Inter American Development Bank.

Dr. Margolis is past president of the Uruguayan Health Informatics Society, and currently is the President of the Federation of Health Informatics Societies in Latin America and the Caribbean, a chapter of the International Medical Informatics Association (IMIA-LAC). He has been and is a member of international and scientific committees, such as Medinfo 2007 and 2010, the International Journal of Medical Informatics, and CME Congress 2008 (Vancouver Canada), and has coordinated international events, such as the Seminar of eHealth Capacity Building (Rockefeller Foundation, Italy, July 2008), and the Regional Congress of Medical Informatics InfoLAC, Argentina, October 2008).

Education

<i>Institution</i>	<i>Years</i>	<i>Title</i>
School of Medicine, University of the Republic, Uruguay	1979-1987	Medical Doctor
School of Medicine, University of the Republic, Uruguay	1988-1991	Internist
Dept. of Medical Informatics, University of Utah	1993-1995	Master in Science, Medical Informatics

Other courses

Advanced Training Program on Health Care Delivery Improvement, 1995. Salt Lake City, Utah, directed by Brent James, MD, MStat.

Work experience in Medical Informatics Projects

1. *The Uruguayan Laboratory of Technology Incubator Program Ingenio*. Project: EviMed. Position: Medical Director. Period: November 2003 to date.
2. *Interamerican Development Bank (IADB)*. Project: Productivity and Management Improvements in Healthcare System, UR-M1021. Position: *Medical Informatics Advisor*. Period: April 2008 to date.
3. *Interamerican Development Bank (IADB)*. Project: Reform of the Uruguayan Social Security UR/95/010. Position: Senior National Coordinator. Area: *Health Information Systems*. Period: October 1997 – November 2002.

4. *Panamerican health organization (PAHO)/IDRC, Canada.* PAHO Contract for a joint project with the Canadian Agency IDRC and Queen's University, Ontario, Canada: *Development of Hospital-Based Research Systems.* Position: National Coordinator, planning phase. Period: August – October 1997.
5. *World Bank Project FISS (Fortalecimiento Institucional del Sector Salud, UR/96/006).* Uruguayan Secretary of Health. Area 1: *Patient Identification Systems.* Position: Senior National Consultant. Period: July 1996 - August 1997. Area 2: *Health Information Systems for County Hospitals.* Position: Senior National Consultant. Period: January – June 2001. Area 3: *Data Warehouse for the Secretary of Health.* Position: Senior National Consultant. Period: January June 2003.
6. Project *Centro Médico* (refoundation of the University Hospital, School of Medicine, University of the Republic) initial assessment. Area: *Health Information Systems.* Position: National Consultant. Period: December 1995- February 1996.
7. Applied Medical Informatics (Salt Lake City, Utah, USA). Areas: Models for the representation of medical knowledge; existing medical knowledge bases and its use through the Internet; Spanish version of Iliad. Period: August 1995-March 1996.

Teaching positions at the School of Medicine, Uruguay

<i>Position</i>	<i>Sector</i>	<i>Start - end</i>
Profesor Adjunto de Educación Médica Continua	School of Medicine	1/1/00- to date
Profesor Adjunto de Clínica Médica	University Hospital	1/5/96- 31/12/99
Asistente grado II de Clínica Médica *	University Hospital	1/3/92 al 28/2/95
Residente de Medicina	University Hospital	1/4/89 al 29/2/92
Practicante Interno	University Hospital	2/1/86 al 31/3/89

(*) Leave of absence from 1/9/93, in order to study Medical Informatics in Utah.

Honor positions in Medical Informatics

1. First President, Uruguayan Health Informatics Society (Sociedad Uruguaya de Informática en la Salud, SUIIS). 11/96- 11/98.
2. President of IMIA-LAC, the Federation of Health Informatics Societies of Latin America and the Caribbean.
3. Vice-President of IMIA, International Medical Informatics Association.
4. Member of the Scientific Committee of Medinfo 2007 and Medinfo 2010, the World Congress of Medical Informatics.
5. Member of the Editorial Board, International Journal of Medical Informatics, official publication of the European Federation of Medical Informatics, EFMI.
6. Co-organizer, Bellagio Seminar of eHealth Capacity Building, Rockefeller Foundation, July 2008.
7. Member of the Telematics Committee of the Uruguayan Medical Association (1996 -).
8. Member of the Distance Education Committee at the University of the Republic, Uruguay (1998 - 2002).
9. Member of the Scientific Committee of several Medical Informatics Congresses in the region.

Teaching in Medical Informatics (selection)

1. Coordinator and professor of the course “Health Information Systems”, co-organized by the School of Medicine, University of Uruguay, and the Uruguayan Society of Health Informatics, 2003, 2004 and 2008.
2. Teacher of Health Information Systems in the Master's degree of health administration, CLAEH University, Uruguay. 2005 and 2008.

3. Coordinator and panel member of the Panel “Knowledge translation: different perspectives from the Americas”. World Congress of Medical Informatics Medinfo 2004, San Francisco, California, Sept. 2004.
4. Introduction to Medical Informatics, short courses in several Medical Congresses (Internal Medicine, Pediatrics, Surgery, Hematology, Asthma and Allergy, others), starting in 1996 to date.
5. How to prevent medical errors with health information systems. Invited lecturer at the *Simposio Argentino de Informática en Salud*, Tandil, Provincia de Buenos Aires, Argentina, September 2000.
6. The electronic patient record. Congreso Latinoamericano de Derecho Médico, Montevideo, Uruguay, September 2000.
7. Electronic Patient Record Symposium, PEP99, of the Latin American Chapter of Medical Records Institute. Member of the Scientific Committee and invited lecturer, Rio de Janeiro, Brazil, March 1999.
8. Primer Encuentro Uruguayo de Informática en Salud (Member of the Organizing Committee and Lecturer). Montevideo, Uruguay, October 1997.
9. Computerization of Clinical Practice Guidelines. CLARIS '96, Congreso Latinoamericano Regional de Informática Médica, Córdoba, Argentina, June 1996.
10. Diagnostic Medical Decision-support systems. CLARIS '96, Congreso Latinoamericano Regional de Informática Médica, Córdoba, Argentina, June 1996.
11. The situation of Medical Informatics in Latin America: Uruguay. Congreso Brasileño de Informática Médica, Campos do Jordao, Sao Paulo, Brasil, October 1996.
12. Warfarin 2.0 - Un programa de computación para el manejo de la warfarina. Congreso Latinoamericano y mexicano de informática médica, Guadalajara, México, January 1995.
13. Computerized guidelines for heart failure management. Department of Medical Informatics Seminar, University of Utah. April 1995.
14. Informatics in Heart failure. 24o Congreso Nacional de Medicina Interna, Montevideo, Uruguay, December 1995.
15. Warfarin 2.0 - Un programa de computación para el manejo de la anticoagulación crónica con warfarina. Simposio de informática médica FIM '93, Buenos Aires, June 1993.

Scientific papers in Medical Informatics (selection)

1. **Margolis A**, Flores F, Kierszenbaum M, et al. Warfarin 2.0 - A computer program for Warfarin management. Design and clinical use. Proceedings of the 18th Symposium on Computer Applications in Medical Care, November 1994, 846-850.
2. **Margolis A**, Flores F, Cavallo Z, et al. Warfarin 2.0. Un programa de computación para el manejo de la anticoagulación crónica con warfarina. Rev. Med. Uruguay, 1995, 11:61-66.
3. **Margolis A**, Rocha RA, Bray BE, et al. Building a standard terminology for heart failure: How much is covered by SNOMED III and the UMLS Metathesaurus 1.4? Spring Congress, American Medical Informatics Association, 1995, page 57 (*summary*).
4. **Margolis A**, Bray BE, Gilbert EM, et al. Computerized practice guidelines for heart failure management. The HeartMan system. Proceedings of the 19th Symposium on Computer Applications in Medical Care, November 1995, 228-232.
5. **Margolis A**. Uso de la informática en atención primaria. Atención Primaria de la Salud (Ministerio de Salud Pública, Uruguay), 1996, 27:6-10.
6. **Margolis A**. La Informática en Salud. Posibilidades y Desafíos. Rev. Med. Uruguay, 1996, 12 (2): 145-156.
7. Kierszenbaum M, **Margolis A**, Varela G, Tarlera R, Muñoz L. A decision-support system for Warfarin management: Follow-up report. Proceedings of the 1997 AMIA Annual Fall Symposium, October 1997, 957.

8. **Margolis A**, Bray BE. Algoritmo clínico computado para el manejo de los pacientes con insuficiencia cardíaca. Chapter in: *Insuficiencia Cardíaca*, Oficina del Libro, Montevideo, 1997.
9. **Margolis A**. Usos de la informática para el médico práctico. Revista Tendencias, Montevideo, 1998.
10. **Margolis A**, Vázquez R, Mendoza G, Hernández J, De Soto G, et al. Una Experiencia en marcha. Proceso de Transformación e Implementación de Sistemas de Información de la Repartición Prestaciones de Salud del Banco de Previsión Social. Revista Médica del Uruguay, 1999 (<http://www.smu.org.uy>).
11. Vázquez R, **Margolis A**, Mendoza G, Zignago A, Lopez A, Lucían H. Nuevos usos de sistemas ya existentes. El caso del Sistema Informático Perinatal. Second Latin American Award from the Latin American Perinatology Center (CLAP).
12. **Margolis A**, Vázquez R, Mendoza G, Zignago A, , Lopez A, Lucían H. New uses of legacy systems. Examples in perinatal care. Proceedings of the 1999 AMIA Annual Fall Symposium, November 1999, 854-858.
13. **Margolis A**. Confidentiality of medical information in electronic format: An analysis. Infosuis, number 5, 1999 (<http://www.suis.org.uy>).
14. **Margolis A**, Alvarino F. Educación a distancia en Salud. Revista Argentina de Informática Médica, 2003.
15. Forster T, Esteves E, **Margolis A**, Lopez Arredondo A, Kaplún G. Approaching the evidence to medical practice, 9º Congreso Mundial de Información en Salud y Bibliotecas, 2005.
16. Llambí L, **Margolis A**, Toews J, Dapuetto J, Esteves E, Martínez E, Forster T, López Arredondo A, Lockyer J, Distance education for physicians: adaptation of a canadian experience to Uruguay. Continuous Medical Education Congress, Vancouver, Canadá, May 2008.
17. Indarte S, López Arredondo A, Guisso JL, Vieira S, Baptista J, **Margolis A**, Massaferró R, Noya F, Integración de una historia clínica informatizada y un servicio de información científica, Congreso SUEIIDISS, 2008.
18. Martínez E, **Margolis A**, Joglar F, Alonso D, López Arredondo A, García S. From Uruguay to Puerto Rico: similarities and differences in CME and the context of health care. Continuous Medical Education Congress, Vancouver, Canada, May 2008.
19. Gahn P, Briosso J, **Margolis A**, Motz R, López Arredondo A, Codificación de conocimiento médico, 35 Jornada Argentina de Informática - Simposio de Información en Salud - Mendoza, Argentina.
20. **Margolis A**, Vero A, Bessonart L, Barbiel A, Ferla A. Health information systems training for a countrywide implementation in Uruguay. Accepted for publication in the World Yearbook of Medical Informatics, Elsevier Publications, 2009.

Languages:

- Spanish* (mother tongue)
English Proficiency. Academic studies in the United States.
French Acceptable proficiency (five years at the French Institute).

Personal data:**Name:** Thais A. Forster**Titles:** PharmD, MSc, Analyst Programmer**Address:** Avenida Doctor Alfredo Navarro 3158, Montevideo, Uruguay. CP 11600.**Phone:** (+598 2) 4873781.**E-mail:** verfor@gmail.com**Education:**

<i>Institution</i>	<i>Years</i>	<i>Title</i>
Faculty of Pharmaceutical Sciences, University of Sao Paulo, Sao Paulo, Brazil	1972-1976	Pharmacist-Biochemist
Faculty of Public Health, University of Sao Paulo, Sao Paulo, Brazil	1977-1977	Pharmacist-Biochemist in Public Health
Faculty of Public Health, University of Sao Paulo, Sao Paulo, Brazil	1978-1981	<i>Diploma in Environmental Sciences</i>
The City University, London, England	1984-1985	<i>Master in Information Sciences</i>

Other courses

Administration and Management of Public Enterprises, Fundação Getúlio Vargas, Rio de Janeiro, Brazil, 1980.

Work experience

1. Documentation Center- Ministry of Health, Brasilia, Brazil. Position: Information Officer, 1981-1984
2. Documentation Center, Ministry of Health, Brasilia, Brazil. Position: Director, 1984.
3. BIREME - Latin-American and Caribbean Center on Health Sciences Information, Sao Paulo, Brazil. Contract for a joint project with the Canadian Agency IDRC. Position: Consultant. - Health vocabularies, Contract for a joint project with the Brazilian Government. Position: Consultant National health libraries network.1986.
4. SARI- Documentation Center in Nephrology, Dialysis and Transplantation. Montevideo, Uruguay. Position: Information Manager. Period: 1988 to date
5. The Uruguayan Laboratory of Technology Incubator Program Ingenio. Project: eviDoctor. Position: Information Scientist. Period: November 2003 to date.
6. Uruguay Society of Nephrology (SUN - Sociedad Uruguaya de Nefrología <http://www.nefrouuguay.com>), Montevideo, Uruguay. Position: Webmaster. Period 2002-2004, 2006 to date.
7. Pan American Health Organization (PAHO) in Uruguay. Project: Development of the PAHO Representative Virtual Health Library. Position: Consultant. Period: 2001-2003
8. Pan American Health Organization (PAHO) in Uruguay/Department of Preventive and Social Medicine,School of Medicine, University of Republica, Montevideo, Uruguay. Project: Development of the Virtual Health Library in Public Health. Position: Consultant/Translator. Period: August - October 1997
9. Latin American Center of Perinatology, Women and Reproductive Health. Project Virtual Health Library in Perinatology, Women and Reproductive Health. Position: Consultant/Translator. Period: October-December 2008.
10. Latin American Center of Perinatology, Women and Reproductive Health. Position: Translator Spanish-Portuguese, English-Portuguese. Different periods.

Position in Informatics

1. Editor (printed and online editions), InfoSUIS, official bulletin of the Uruguayan Health Informatics Society (Sociedad Uruguaya de Informática en la Salud, SUIIS). 1996-2002. Currently, the delegate to the National Committee of the Virtual Health Library.
2. Member of the American Society of Information Sciences and Technology. 2000 to date.
3. Affiliate to the Chartered Institute of Librarians and Information Professionals. 1985 to date.

Teaching in Medical Informatics (selection)

1. Lecturer of the course “Health Information Systems”, co-organized by the School of Medicine, University of Uruguay, and the Uruguayan Society of Health Informatics, 2003 and 2004.
2. Primer Encuentro Uruguayo de Informática en Salud (Member of the Organizing Committee and Lecturer). Montevideo, Uruguay, October 1997.
3. Lecturer of the courses “Finding reliable health information” - Montevideo, Salto, Maldonado, Paysandu - Uruguay. 2003-2008.

Scientific papers in Informatics (selection)

Forster TA, Agazzi-Cerizola R, Celiberti B, Picco P. Library automation and use of telematic tools in health libraries/documentation centres in Uruguay. Poster presented at the 9th International Congress of Medical Librarianship, London 2000.
<http://www.icml9.org/archives/posters.htm>

Lopez Arredondo A, Margolis A, Kaplún G, Esteves E, Forster, T. EviDoctor – Acercando la evidencia científica a la práctica del médico. Paper presented at the 2^o Congreso de Enseñanza – Facultad de Ingeniería, Universidad de la República, Uruguay, 2004.
<http://www.evimed.net/presentacion.pdf>

Llambí L, Margolis A, Toews J, Dapuetto J, Esteves E, Martínez E, Forster T, López A, Lockyer J. Distance education for physicians: Adaptation of a Canadian experience to Uruguay. The Journal of continuing education in the health professions 28(2):79-85, 2008. abstract on http://www.ncbi.nlm.nih.gov/sites/entrez?orig_db=PubMed&db=pubmed&cmd=Search&term=Llambí%20L%5Bauthor%5D

Languages:

Portuguese	mother tongue
Spanish	Proficiency. Academic studies in Uruguay
English	Proficiency. Academic studies in the United Kingdom.
French	Acceptable proficiency

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Date of birth: 05/30/76

EDUCATION

- **Facultad Latinoamericana de Ciencias Sociales (FLACSO), Argentina, 2008. Post-Graduate Diplome: Education and New Technologies.**
- **Universidad de la República, Uruguay, 2004. Bachelor of Arts: Communication and Education Sciences.**
- Facultad Latinoamericana de Ciencias Sociales (FLACSO), Argentina. Post-Graduate Specialization on Education and New Technologies. Current student (2008 – 2009).
- Facultad de Ciencias Sociales/Universidad de la República. Post-Graduate Course on ICT³ and Communication for Development. Scholarship student, August–October 2008.
- Comisión Sectorial de Enseñanza/Universidad de la República. Pedagogical–Didactical Training Programme for Social Area University Teachers. June–August 2004.

RELEVANT EXPERIENCE

Consultant in Communication, Education and ICT

- EviMed Ltd. Projects, research and educational materials on Continuing Medical Education and ICT. 2006 – 2009.
- Triple-S Inc/BlueCross and Blue Shield Association (Puerto Rico) – EviMed Ltd (Uruguay). Projects (2007 – 2008), blended learning course on Depression to Primary Care Physicians (2009).
- Consejo de Capacitación Profesional (Ministerio de Educación y Cultura, Ministerio de Trabajo y Seguridad Social). Edition of educational materials to workers in the construction industry. 2008 – 2009.
- Cinterfor, International Labour Organization (ILO). Projects, workshops, online educational interventions and educational materials on Vocational Training, Gender, Trade Unions, Youth, Local Development and Decent Work. 2004 / 2008.
- Healthful Uruguay Project, United Nations Development Programme (UNDP) – Ministerio de Salud Pública (Uruguay), external collaborator. Course design and workshops on Enhancing the Primary Care Level to health professionals in rural and urban areas outside Montevideo. 2008.
- Federación Uruguaya de la Salud (FUS/PIT–CNT). Course design and workshops on Communication Strategies, Health Planning and issues related with Health Care System Reform in Uruguay to health workers. 2006/2007/2008.

³ Information and Communication Technologies.

- Société de Coopération pour le Développement International (SOCODEVI, Canada) – División Asesoría y Desarrollo Empresarial (DADE/UTU/Ministerio de Educación y Cultura, Uruguay). Communicational strategy design on Vocational Training to forest workers. 2006.
- Colegio San Juan Bautista (Montevideo). Teacher on Media Education to children at 4th grade in basic school. 2006.
- Escuela Italia (Montevideo), From Paper to Web Programme (Consejo de Educación Primaria/Administración Nacional de Educación Pública). Teacher advisor, workshops to teachers on School Newspaper. 2004.
- Departamento de Descentralización – CCZ 4, Intendencia Municipal de Montevideo. Press responsible and advisor on Internal and Community Communications. 2001.

Academic activities

- Research Professor. Agencia Nacional de Investigación e Innovación (ANII/Ministerio de Educación y Cultura) – Universidad de la República – EviMed Ltd. TIC and Educational Strategies: Approaching the Evidence to Medical Practice Project. 2006 – 2009.
- Presenter at Education, Training and Technologies Regional Academic Conference (BTM): ICT and Educational Strategies in a Continuing Medical Education Service. Punta del Este, June 2008.
- Presenter at Education and New Technologies Colloquium (FLACSO): Innovative Educational Experiences in the University Teaching. Buenos Aires, April 2008.
- Presenter at EviMed Ltd Annual Business Conference: Advance Report about ICT and Continuing Medical Education Research in eviDoctor. Montevideo, November 2007.
- Visitor research at Enhancing the Livelihoods of the Rural Poor: The Role of Information and Communication Technologies in Uruguay Workshop and Report Presentation, Universidad de la República/InfoDev/GICT/World Bank. Montevideo, April 2007.
- Co-chair at Urban Agriculture and Food Security: Towards the Construction of Integrated Policies Academic Conference (Universidad de la República/FAO/PAPPUM–EU). Montevideo, November 2006.
- Auxiliary Professor at Facultad de Agronomía, Universidad de la República. Community Organization and Food Production Project. 2004 – 2006.
- Teaching Assistant at Licenciatura en Ciencias de la Comunicación, Universidad de la República. Secondary School Youth Cultures Research Project (2004) and Seminary on the same topic (2005).
- Research Professor at Licenciatura en Ciencias de la Comunicación/Comisión Sectorial de Investigación Científica, Universidad de la República. Organizational Spaces Reconfiguration and Citizen Participation Project (Montevideo). 2003 – 2005.
- Teaching Assistant at Licenciatura en Ciencias de la Comunicación, Universidad de la República. Community Communication Seminary and Local Communication and Food Social Networks Project (Montevideo). 2002 – 2005.

- Presenter at From Neighborhood to Classroom Academic Conference (Universidad de la República/Intendencia Municipal de Montevideo): Communication and Citizen Participation in the Local Government. Montevideo, December 2001.

Publications

- Llambí L, et al. "Distance education for physicians: Adaptation of a Canadian experience to Uruguay", *Journal of Continuing Education in the Health Professions* 2008; 28(2):79.
- Casanova F (Coord). "Jóvenes, trabajo y sindicatos. Herramientas para el coordinador", Montevideo: Cinterfor/OIT; OIT. ACTRAV; España. Ministerio de Trabajo y Asuntos Sociales, 2005. 95p.
- Bellenda B (Coord). "Censos de agricultores urbanos vinculados al PPAOC (UdelaR) y PAU (IMM)"; Montevideo, Facultad de Agronomía/UdelaR - IMM. 2005.

Foreign Languages

- English: First Certificate in English, University of Cambridge (1998).
- Italian: Livello 2, Istituto Italiano di Cultura, Montevideo (1993).
- Portuguese: Segundo modulo, Instituto Cultural Uruguaio-Brasileiro (ICUB, 1992).

Antonio Lopez Arredondo– February 2009
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EDUCATION

- 2008, **Introduction to HL7**, HL7 chapter -Argentina
- 2008, **Information Technology Delivery Services (ITIL v3 Foundations)**, Loyalist – Canada
- 2005, **Project Management Professional (PMP)**, Project Management Institute (PMI)
- 1995, **Computer Systems Engineer**, Universidad de la Republica - Uruguay.

ADDITIONAL TRAINING

- **Professional Developers Conference**, Los Angeles, 2001
- **Parallel Computing**, Royal Institute of Technology (KTH), Stockholm - Sweden, 1995 (grant obtained through BITS)
- **Distributed Systems**, Royal Institute of Technology (KTH) Stockholm - Sweden, 1993 (grant obtained through BITS)

AFFILIATIONS

- **Uruguay PMI chapter** – Professor of the advanced course “Program and Portfolio management”
- **Mexico PMI chapter** – Volunteer of the “educative initiative”, helping introduce project management courses at Universities
- **CDI Uruguay** (Comité para la Democratización de la Informática) – Technical support at one rural school
- **Sociedad Uruguaya de Informática en Salud (SUIS)**

WORKING EXPERIENCE

Company EviMed – Uruguay www.evimed.net and www.evidoctor.net

Sector Software **Project** Products and services for the healthcare industry

Position Founder and CIO **Date** 2003 to date

Description Responsible of all the infrastructure, operations and software development of the company, dedicated to bring information technology based solutions to individual doctors and institutions. In 2007 EviMed was awarded with the Arroba prize, at the Technological Company category.

Company Social Trade Organization www.strohalm.nl

Sector Microfinance **Project** Local development through microfinance

Position Project manager **Date** January 2009 to date

Description Responsible of the creation of a new platform for micro finance institutions and other social businesses to take advantage of technology infrastructure advances existing in Uruguay and promote local economic development through microcredit. Project supported by IADB.

Company Technological Laboratory of Uruguay (LATU) www.citevirtual.com

Sector Agriculture **Project** Technology Innovation Centers

Position Project manager **Date** August 2008 to date

Description Responsible of the technical specification, design and development of a bi-national network (Peru and Uruguay) of agriculture. Project supported by IADB.

Company Fonacot – México www.fonacot.gob.mx

Sector Banking **Project** Core banking deployment

Position Project manager **Date** Dec/2004 – May/2008

Description Responsible of a USD 15 million configuration, migration and deployment of a core banking system at a government financial institution. The project included the build of two

datacenters and the operation of the system under service level agreements of at least 99.5% of availability.

Company Miami Gov, – EEUU www.miamigov.com

Sector Government **Project** GIS Enterprise Architecture

Position Infrastructure consultant **Date** April 2004 - July 2004

Description Designed the strategic plan for the implementation of the Mimi Gov. Geographic Information System (GIS). The project included the needs requirements and strategic planning proposal for the next 5 years.

Company Fonacot – México www.fonacot.gob.mx

Sector Banking **Project** Securitization system

Position Project manager **Date** Dec 2003 – May 2004

Description Architect and project manager of the securitization system that currently administers more than 90% of Fonacot's credit portfolio, allowing obtaining fresh resources to bring more loans. In 2004 the company was awarded with the Innova prize, given by Mexico's president for their efficient and secure administration of their portfolio.

Company GeoSAR – EEUU www.earthdata.com

Sector Aviation **Project** Automatic generation of flight plans

Position Research, design & development **Date** Jan 2003 – May 2003

Description Developed brand new routing algorithms that reduced in up to 12% the cost of terrestrial scanning flights, using a mix of different heuristics and including the methods inside a GIS application.

Company Microsoft Corporation – Uruguay www.microsoft.com/uruguay

Sector Software **Project** New technologies deployments

Position Corporate accounts manager **Date** 1999-2002

Description Technology specialist for enterprise accounts at the Uruguay market. Managed many pilots and deployments of new technologies at the most important companies of the country.

TEACHING ACTIVITY

Institution PMI - Uruguay www.pmi.org.uy

Position Course owner **Fecha** Octubre/2008

Description Responsible of creating and lecturing a new course about managing programs and portfolios.

Institution Universidad de la Republica – Uruguay www.fing.edu.uy

Position Professor **Fecha** Since 1991 to date

Description Created the High Performance Computing department, and headed it until 2004. Professor of Bioinformatics, in cooperation with the Chemical Faculty.

• <http://www.fing.edu.uy/inco/cursos/hpc/> • <http://www.fing.edu.uy/~alopez/biohpc/>

PUBLICATIONS

Integración de una historia clínica informatizada y un servicio de información científica, Dra. Selene Indarte, Ing. Antonio López Arredondo, A/P José Luis Guisso, Ing. Silvana Vieira A/P Jorge Baptista, Dr. Alvaro Margolis, A/P Rodolfo Massaferrero, Dr. Francisco Noya, Congreso SUEIIDISS 2008

Sistema Gestor de Unicidad de Identificación de Pacientes, Lic. Luis Pedro Fuertes, Lic. Guillermo Kaveckis, Dr. Alvaro Margolis, A/S Rodolfo Massaferrero, Ing. Antonio Lopez, Congreso INFOLAC 2008 - Argentina

Distance Education for Physicians: Adaptation of a Canadian Experience to Uruguay. L. Llambí; A. Margolis; J. Toews; J. Dapuetto; E. Esteves; E. Martínez; T. Forster, A. López Arredondo; J. Lockyer. Aceptado para el Continuous Medical Education Congress, Vancouver, Canadá, Mayo 2008

From Uruguay to Puerto Rico: Similarities and Differences in CME and the Context of Health Care. E. Martínez; A. Margolis; F. Joglar; D. Alonso; A. López Arredondo; S. García. Aceptado para el Continuous Medical Education Congress, Vancouver, Canadá, Mayo 2008

Codificación de conocimiento médico, Ing. Patricia Gahn, Ing. Javier Brioso, Dr. Álvaro Margolis, Ing. Regina Motz, Ing. Antonio López, 9º Simposio Argentino de Informática en Salud, 2006

Estándares de intercambio de información médica, Implementación de un Broker de HL7 A/S Jorge Parrillo, A/S Marcelo Bondarencio, Ing. Raúl Ruggia, Ing. Antonio López, 9º Simposio Argentino de Informática en Salud, 2006

Approaching the evidence to medical practice , 2005 Thais A. Foster; Elba Esteves; Alvaro Margolis; Antonio Lopez Arredondo; Gabriel Kaplún, 9º Congreso Mundial de Información en Salud y Bibliotecas, <http://www.icml9.org/program/poster2/activity.php?lang=en&id=10>

El proyecto eviDoctor, 2005 Dr. Alvaro Margolis, Ing. Antonio Lopez, revista Tendencias. <http://www.evimed.net/EviDoctor.pdf>

New Uses of Legacy Systems: Examples in Perinatal Care. , 1999 Drs. Alvaro Margolis, Rodolfo Vázquez, Gloria Mendoza, Tech. Antonio Zignago, Sys. Eng. Antonio López, Dr. Héctor Lucían, AMIA Fall Symposium, Washington DC. (indexed at MedLine since Noviembre/1999). http://adams.mgh.harvard.edu/PDF_Repository/D005868.PDF

Sistemas Informáticos Clínicos y de Gestión en la Repartición prestaciones de Salud del Banco de Previsión Social, 1999 Dr. A. Margolis, Dr. R. Vázquez, Dra. G. Mendoza, Sr. J. Hernández, Ing. G. De Soto, Ing. A. López, Cra. M. Ayres, Dr. H. Lucian, Revista Medica del Uruguay- 1999. <http://www.smu.org.uy/publicaciones/rmu/1999v2/art7.htm>
Nuevos usos de sistemas ya existentes. El caso del Sistema Informático Perinatal, 1999 Vázquez R, Margolis A, Mendoza G, Zignago A, López A, Lucían H., 2º. Premio del Congreso 10 años de datos Perinatales CLAP (Centro Latinoamericano de Perinatología), Prontuario Eletrônico do Paciente'99, Río de Janeiro, Brasil. Marzo 1999.

Towards Proactive Network Load Management for Distributed Parallel Programming , 1999 Nesmachnow, S.; López, A. and López, C. IEEE Latin American Network Operations and Management Symposium LANOMS'99, Río de Janeiro, Brazil

Replicación de Carga en Redes de Computadoras, 1999 Ing. Nelson Calero, Ing. Antonio López, Jornadas de Informática y Telecomunicaciones de la IEEE/1999 – Uruguay

Servidor Web Distribuido, 1999 Camila Pedocci, Diego Garat, Antonio López, Jornadas de Informática y Telecomunicaciones de la IEEE/1999 – Uruguay

Artificial Replication of Network Load Environment for Distributed Computing Dispatching Algorithms Comparison, 1999, Nelson Calero, Antonio Lopez, IEEE Conference Uruguay.

Procesamiento distribuido en una red de workstations heterogéneas, 1993 Antonio López. IEEE Seminar Uruguay 1993, 22as. Jornada Argentinas de Informática e Investigación Operativa and PANEL '93: XIX Conferencia Latinoamericana de Informática-Argentina

Implementing MIMD Algorithms on Workstation Clusters , 1995 Antonio Lopez, Technical Report Centro de Cálculo

Resume of Sofía García

sofia.garcia@evimed.net – (598 4) 542151 – Montevideo - Uruguay

Education

2006 – Bachelor of Arts (Communication), “Universidad de la República” of Uruguay.

2008 – Cost Management, Endeavor Uruguay.

2008 - Marketing Online, Endeavor Uruguay.

2007 – Finances Management, ORT Uruguay.

2007 - Quality Management System, LSQA Uruguay.

Skills

MS Office proficient and graphic design proficient

English proficient

Related experience

Responsible of Administration and Quality. EviMed (www.evimed.net). Since 2007.

Co-responsible of Press Archive (www.archivodeprensa.edu.uy). Universidad de la República.
Since 2005.

Communication Asistent. Pedro Poveda High School. 2006 – 2007.

Communiation Asistent. Human Resources Department of IMM. 2005 – 2006.

Executive Secretary. DOMU. 2003 – 2005.

Publications

Incidencias de la comunicación en los procesos de aprendizaje. In Esperanza Martínez, Beatriz Rama, et al, *La integración en la escuela: desafíos e interrogantes*, IIN, Montevideo, 2006.

PERSONAL DATA

Name: Laura Llambí

Titles: MD

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Phone: (+598 2) 4861096.

E-mail: laurallambi@montevideo.com.uy y llambil@hc.edu.uy

EDUCATION

<i>Institution</i>	<i>Years</i>	<i>Title</i>
School of Medicine, University of the Republic, Uruguay	1990 -1998	Medical Doctor
School of Medicine, University of the Republic, Uruguay	2000-2003	Internist
School of Medicine, University of the Republic, Uruguay	2007	Student of Master in Science

TEACHING POSITIONS AT THE SCHOOL OF MEDICINE, URUGUAY

<i>Position</i>	<i>Sector</i>	<i>Start - end</i>
Asistente Académica	Dean´s Office	14/07/06 - present
Asistente grado 2 de Clínica Médica	University Hospital	16/07/03 - 15/07/06
Residente de Medicina Interna	University Hospital	1/4/00 - 31/03/03
Practicante Interna	University Hospital	1/08/97 - 31/07/98

PUBLICATIONS (selection)

1. LLAMBI L, RODRIGUEZ C, ASARVICIUS S. Cardiopatía isquémica en el paciente diabético. En: ALVAREZ ROCHA A, GOJA B y col. Patologías frecuentes en Clínica Médica. Publicación electrónica (Disco compacto). Setiembre 2003.
2. RUGNITZ E, LLAMBI L .Nefroprotección en diabetes mellitus tipo 2. En: ALVAREZ ROCHA A, GOJA B y col. Patologías frecuentes en Clínica Médica. Publicación electrónica (Disco compacto). Setiembre 2003.
3. LLAMBI L, CANCELA C, FERNANDEZ I. Estenosis Aortica. En: ALVAREZ ROCHA A, STEFAÑSKI H, ALVAREZ ROCHA P. Semiología Cardiovascular. Tomo 2. Montevideo. Oficina del Libro FEFMUR.2004: 43-64.
4. CANCELA C, LLAMBI L, PIROTTO L. Insuficiencia Aortica. En: ALVAREZ ROCHA A, STEFAÑSKI H, ALVAREZ ROCHA P. Semiología Cardiovascular. Tomo 2. Montevideo. Oficina del Libro FEFMUR.2004: 81 - 96
5. GOJA B, ESTEVES E, BARROS M, BLANCO L, BENIA W, PARODI C, LLAMBI L, ZEBALLOS M, SALDOMBIDE L. Caracterización de la población asistida en la policlínica de tabaquismo del Hospital de Clínicas y resultados del tratamiento. Arch. de Medicina Interna 2005;27(4):83 - 88.
6. LLAMBI L, CANCELA C, GAMBOGI R, ÁLVAREZ ROCHA A. Revascularización coronaria en el paciente diabético. Archivos de Medicina Interna 2006;28(4):69- 74.

7. CANCELA C, LLAMBI L. Angor y Diabetes. En: Álvarez Rocha A, Pignataro F. Patologías frecuentes en la Clínica Médica. Publicación electrónica (Disco compacto). Setiembre 2006: 162-167
8. LLAMBI L, AVAS G, MARGOLIS A, SABINI G, FORSTER T, SICA A, ESTEVES E, ALONSO I, VERNENGO R. Combinación de metodologías para la educación médica continua. Archivos de Medicina Interna 2007;29(2-3):42 - 45.
9. LLAMBI L, MARGOLIS A, TOEWS J, DAPUETO J, ESTEVES E, MARTÍNEZ E, FORSTER T, LÓPEZ A, LOCKYER J. Distance Education for physicians: Adaptation of a Canadian experience to Uruguay Journal of Continuing Education in the Health Professions 28(2):79 -85, 2008
10. LLAMBI L, ESTEVES E, BLANCO L, BARROS M, PARODI C, GOJA B. Factores predictores de éxito en el tratamiento del tabaquismo. Rev Med Urug 2008; 24: 83-93
11. ESTEVES E, LLAMBI L, GOJA B. beneficios de la cesación de tabaquismo. En: Los médicos y el tabaquismo. Montevideo, Arena. 2008: 29 - 32

PRESENTATIONS AT MEETINGS (selection)

- 2002 SALDOMBIDE L, FERNANDEZ I, SILVERA J, LLAMBI L, DE BONI D, RODRIGUEZ R, ASARAVICIUS S. Dermatomiositis asociada a carcinoma broncopulmonar. Presentación de dos casos clínicos, revisión bibliográfica. 7° Congreso Uruguayo de Oncología, Reunión de la Federación de Sociedades de Oncología del MERCOSUR y Chile. Noviembre 2002
- 2003 FACAL J, ANTUNEZ W, LLAMBI L, MIRANDA N, SOLARI A, RETAMOSO, I. Characteristics of HIV patients at the Emergency Department. 8th World STI/ AIDS Congress. 8° CONGRESO MUNDIAL de ETS/SIDA. Diciembre 2003: pag 189.
- 2004 GOJA B, ESTEVES E, BARROS M, BLANCO L, BENIA W, PARODI C, LLAMBI L, ZEBALLOS M, SALDOMBIDE L. Caracterización de la población asistida en la policlínica de tabaquismo del Hospital de Clínicas y resultados del tratamiento. XXXIII Congreso Nacional de Medicina Interna. 2004 PREMIO A 2° MEJOR TRABAJO CIENTIFICO DEL CONGRESO
- 2007 LLAMBI L, ESTEVES E, BLANCO L, PARODI C, MUIÑO A, GOJA B. Predictors of successful outcome in tobacco cessation treatment. First Society for Research on Nicotine and Tobacco Congress and Second Iberoamerican Conference on Tobacco Control. Rio de Janeiro, setiembre 2007.
- 2008 LLAMBI L, MARGOLIS A, TOEWS J, DAPUETO J, ESTEVES E, MARTÍNEZ E, FORSTER T, LÓPEZ A, LOCKYER J. Distance Education for physicians: Adaptation of a Canadian experience to Uruguay. Continuing Medical Education Congress, 2008 Vancouver Canada.

PROFESSIONAL POSITIONS

- 2000 present Physician at Military Health Service.
- 2003 - 2007 Physician at Centro de Asistencia del Sindicato Medico del Uruguay
- 2005 - present Member of CME service in EviMed.
- 2006 Internist at Asociación Española de Socorros Mutuos
- 2007 Internist at CASMU

LANGUAGES

- Spanish* (mother tongue)
- English* Proficiency. Certificate of Proficiency in English. Cambridge University
- French* Basic

Personal data:

Name: Susana Maggiolo

Titles: MD

Address: José María Montero 2794, Montevideo, Uruguay.

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E-mail: sumag@adinet.com.uy

Education

<i>Institution</i>	<i>Title</i>
School of Medicine, University of the Republic, Uruguay	Medical Doctor
Argentinean Society of Diabetes, Argentina	Diabetes Specialist

Related work experience

- Diabetes Doctor in Maciel Hospital.
- Coordinator of Diabetes Service of CASMU.
- Coordinator and teacher of activities of continuous medical education of Diabetes Society of Uruguay.
- Foreign correspondent member of Argentinean Society of Diabetes.
- Coordinator or speaker in more than 80 national and international congresses.

Teaching positions at the School of Medicine, Uruguay

<i>Position</i>	<i>Sector</i>
Profesor Adjunto	School of Medicine
Profesor Agregado	School of Medicine

Honor positions

- Coordinator of Postgraduate in Diabetes of Catholic University, Uruguay.
- President of Continuous Medical Education Committee of Diabetes Society of Uruguay.
- National representing of Group of International Study of Diabetic Foot.
- Member of Editorial Committee of the Magazine of the Diabetes Latin-American Association.

Personal data:

Name: Graciela Vitarella

Titles: MD

Address: Luis Alberto de Herrera 2092 ap. 201, Montevideo, Uruguay.

Phone: (+598 2) 487 4195.

E-mail: gvita@adinet.com.uy

Education

<i>Institution</i>	<i>Graduation Date</i>	<i>Title</i>
School of Medicine, University of the Republic, Uruguay	1985	Medical Doctor
Catholic University of Uruguay		Postgraduate in Diabetes

Other courses

5th Latin-American Course about Diabetes Epidemiology, Latin-American Diabetes Association, Uruguay, 2008.

4th Latin-American Course about Diabetes Epidemiology, Latin-American Diabetes Association, Venezuela, 2008.

3rd Latin-American Course about Diabetes Epidemiology, Latin-American Diabetes Association, Chile, 2004.

Diabetes Course, Steno Diabetes Center of Denmark, 1999.

Diabetes Mellitus in medical practice, International Diabetes Federation, 1991.

Diabetes Mellitus Course, Diabetes Society of Uruguay, 1987.

Related work experience

1. Coordinator of Peripheral Unit N°5 of CASMU.
2. Diabetes Doctor in Diabetes Service of CASMU.
3. Coordinator of Diabetes Foot Policlinic of CASMU.
4. Advisor in Diabetes of *Farmaco Uruguayo* Laboratory.
5. Investigator in Diabetes and Genetics in *Clemente Estable* Institute of Biologic Sciences.
6. Coordinator or speaker in more than 50 national and international congresses.
7. Co-Director of the 8th Course of Diabetes School.

Honor positions

1. President of Diabetes Society of Uruguay.
2. President of the 5th Uruguayan Congress about Diabetes.
3. President of Continuous Medical Education Committee of Diabetes Society of Uruguay.
4. Member of Continuous Medical Education Committee of Diabetes Society of Uruguay.
5. Member of Continuous Medical Education Committee of CASMU.
6. National representing of International Diabetes Federation.