PHARMINE

Workpackage (WP) 7 – development (DEV)

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Antalya, Turkey, October 2009.

Part 1

The PHARMINE databank

(software MS ACCESS)

The PHARMINE databank

240 HEIs, professional organisations...
46 countries

All entries are frequently checked

Objective: Interactive databank on website



PHARMINE EU Pharmacy education database

09/06/2009

	03/00/2003						
type:	EDU-UNIV						
institution:	Faculteit Geneeskunde en Farmacie						
univ - acronym;	Vrije Universiteit Brussel						
street:	Laarbeeklaan 103						
zip:	1090						
city:	Brussels						
country:	Belgium						
website:	www.vub.ac.be/MICH/						
Director forename:	Bartholomeus						
surname:	Rombaut						
e-mail:	brombaut@vub.ac.be						
teleph:	32 2 477 44 97						
mobile:	32 479 956 871						
fax:	32 2 477 74 95						
other contact forename:	Rudy						
contact surname:	Verbinnen						
contact e-mail:	rverbin@vub.ac.be						

PHARMINE EU Pharmacy e	ducation database	cou	ntry: B	elgium					09/06/2009	
institution	univ-acronym	street	zip	city	Director forename	surname	teleph	fax	e-mail	website
Departement Farmaceutische Wetenschappen	Universiteit Antwerpen	Universiteitsplein 1	B-2610	Antwerpen	A	Haemers	32-(0)3 820 27 27		haemers@uia.ua.ac.be	far-www.uia.ac.be/far/
European Health Management Association	EHMA	4, rue de la Science	1000	Brussels	Céline	Van Doosselaere	32 2 502 65 25		celine@ehma.org	
Orde der Apothekers		Henri Jasparlaan 94	1060	Brussels	Piet Francis	Van Maercke	32 2 537 4267		info@ordredespharmacien s.be	
European Association of Hospital Pharmacists	EAHP	3 rue de l'Abbé Cuypers	1040	Brussels	Catherine	Hartmann	32 2 741 68 22	32 2 734 79 10	president@eahponline.org	www.eahp.eu
Pharmaceutical Group of the European Union	PGEU	Rue du Luxembourg 19-21	1000	Brussels	John	Chave	32 2 238 08 18	32 2 238 08 19	John.chave@ogeu.org	www.pgeu.org
Centrum Wetensschappelijke Ontwikkeling voor Apothekers	CWOA	Archimedesstraat 11	1000	Brussels	Jan	Saevels	32 2 285 42 00		saevels.jan@mail.apb.be	
Faculteit Geneeskunde en Farmacie	Vrije Universiteit Brussel	Laarbeeklaan 103	1090	Brussels	Bartholome us	Rombaut	32 2 477 44 97	32 2 477 74 95	brombaut@vub.ac.be	www.vub.ac.be/MICH/
European Pharmaceutical Students' Association	EPSA	Rue de Luxembourg 19-21	1000	Brussels			32 40 21 321 36 46	32 40 6 721 67 58 11	sg@epsa-online.org	www.epsa-online.org
Institut de Pharmacie	Université Libre de Bruxelles	Campus Plaine 205/5	1050	Brussels	Jean	Neve	32 2 650 51 77	32 2 650 59 29	jneve@ulb.ac.be	www.ulb.ac.be
Instituut voor Permanente Studie voor Apothekers	IPSA	Antwerpselaan 34	1000	Brussels	Leen	Claes	32 2 219 00 39	32 2 219 00 49	leen.claes@ipsa.be	
Fac. De Médecine	Université Catholique de Louvain	Av. E. Mounier, 50	1200	Bruxelles	D.	Moulin	32 764 5020	32 764 5035	JeanPaul.Remon@rug.ac.b e	www.ucl.ac.be/etudes/md/ph armacle/intro.html
Faculteit Farmaceutische Wetenschappen	Universiteit Gent	Harelbekestraat 72	9000	Gent	Inge	Van Tongelen	32 9 264 80 43	32 9 264 81 87	inge.vantongelen@UGent. be	www.rug.ac.be/

Part 2

The PHARMINE WP7 survey of European HEIs delivering pharmacy

Those involved:

Jeff Atkinson - P9 PCN, Villers

C. Capdeville-Atkinson & O.
Mathis – P2 Nancy
Lea Noel - P1 Brussels
Daisy Volmer - associated partner
Tartu

Pharmine survey



PHARMINE Pharmacy Education in Europe

The PHARMINE survey of European higher education institutions delivering pharmacy education & training

V1

If you encounter any problems when filling out this form please contact the leader of PHARMINE work program WP7: jeffrey.atkinson@orange.fr

PHARMINE

Coordinator: Bart Rombaut, School of Pharmacy, Vrije Universiteit Brussel, Brussels, Belgium. <a href="mailto:beroutine-berout

With the support of the Lifelong Learning Programme of the European Union (142078-LLP-1-2008-BE-ERASMUS-ECDSP).

Website: www.pharmine.org

Survey chapters

- Chapter 1. Organization of the activities of pharmacists, professional bodies.
- Chapter 2. Pharmacy HEIs, students and courses.
- Chapter 3. Teaching and learning methods.
- Chapter 4. Subject areas.
- Chapter 5. Impact of the Bologna principles.

Chapter 1. Organization of the activities of pharmacists, professional bodies.

- community pharmacy system
- competences and roles of pharmacists
- pharmacy assistants
- hospital pharmacy system
- pharmaceutical and related industries
- other sectors of activity for pharmacists
- roles of professional associations

Chapter 2. Pharmacy HEIs, students and courses

- total number of HEIs (pharmacy)
- organization of HEIs
- national level and "home university" level:
 - number of teaching staff and students
 - entry requirements
 - fees per year
 - length of the course

Chapter 3. Teaching and learning methods

Student hours						
Method	Year 1	Year 2	Year 3	Year 4	Year 5	Year 6
Method	Teal 1	real 2	rear 5	real 4	Year 5	Year o
HEIs courses		<u> </u>				
Lecture				19/1	0	
Tutorial				26,		
Practical				7		
Project work			18			
Traineeship						
Hospital			80.			
Community			~			
Industrial (academic or industrial)		614.				
Other (please specify)	0	Y.				
Electives						
Choice	1/1/2					

Chapter 4. Subject areas

- Expected that cursuses will be different from one HEI to another
- But that groups of subjects (subject areas) will be similar
- Based on EAFP TEMPUS project (Bourlioux, 1994) subject areas

Chapter 4. Subject areas

- Subject area I: Chemical sciences "CHEMSCI"
- Subject area II: Physical and Mathematical Sciences "PHYSMATH"
- Subject area III: Biological Sciences "BIOLSCI"
- Subject area IV: Pharmaceutical Technology "PHARMTECH"
- Subject area V: Medicinal and therapeutical sciences "MEDISCI"

Chapter 5. Impact of the Bologna principles

- Comparable degrees/Diploma Supplement
- Two main cycles (B+M)
- ECTS system for credits, links to LLL
- Removal of obstacles to students and staff mobility
- Involvement in European programs for QA
- European dimension in curriculum



□Tools

- Bologna Study Architecture
- Quality Assurance
- European Credit Transfer and Accumulation System
- Recognition
- Diploma Supplement

Chapter 6. Impact of EC directive 2005/36/EC on E&T

- course length
 - training of at least five years
 - four years of full-time theoretical and practical training
- course content -
 - the balance between theory and practice is sufficient to maintain the university character of the training
 - subject areas for course of training for pharmacist

Chapter 7. Quality assurance (WP6)

- based upon the US Accreditation Council for Pharmacy Education (ACPE) 2007 standards
- self-evaluation of existing system
 - availability of QA system
 - mission, planning and evaluation
 - organization and administration
 - curriculum

Status of the survey (Autumn 2009)

Spring 2009: survey sent out to 60 HEIs

First versions received from: Latvia, Estonia, Czech Republic, Finland, Bulgaria, Hungary, Germany, Denmark, Greece, UK, Spain, Belgium (n=12)

Expected soon: Ireland, France, Norway, (n=3)

Handling takes *circα* 3-4 months per HEI People involved:

- •PCN (P9)
- Country: HEIs, professional organisations, industry, governments...

Objectives of the PHARMINE WP7 survey:

- white paper for each country
- data to test hypotheses

Test of statistical models to be used (software: GraphPad, SyStat, nQuery)

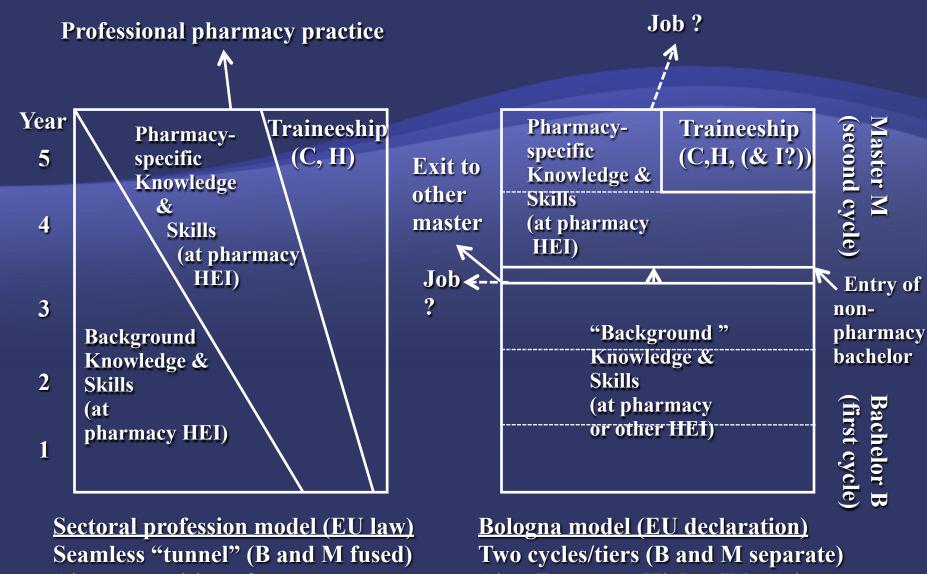
Non-parametric models? (is this valid with >2 independent variables?)

Parametric multivariate analysis

- will work
- probably robust enough
- combine with non-parametric

One topic to be explored -

Bologna
versus
2005/36/EC

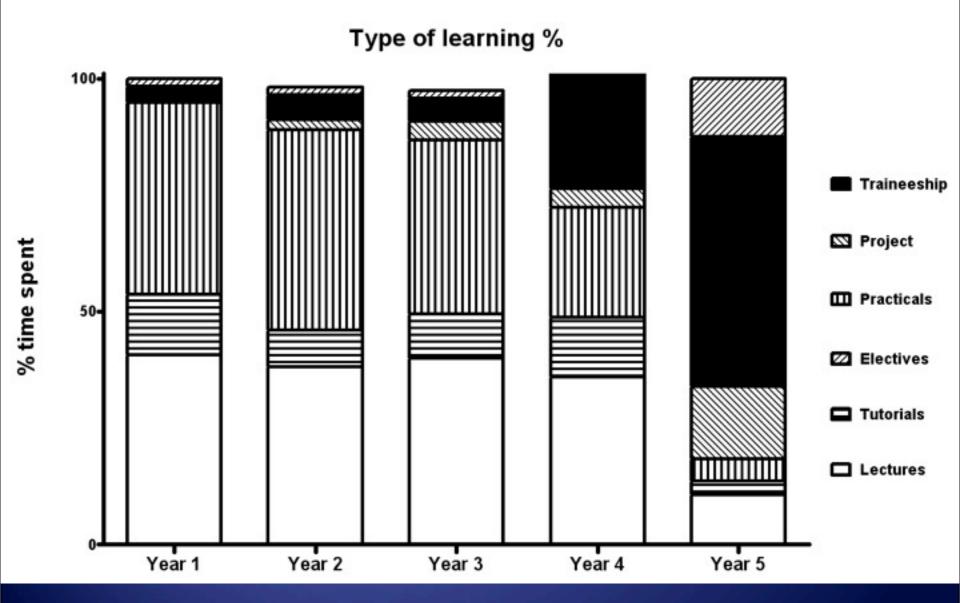


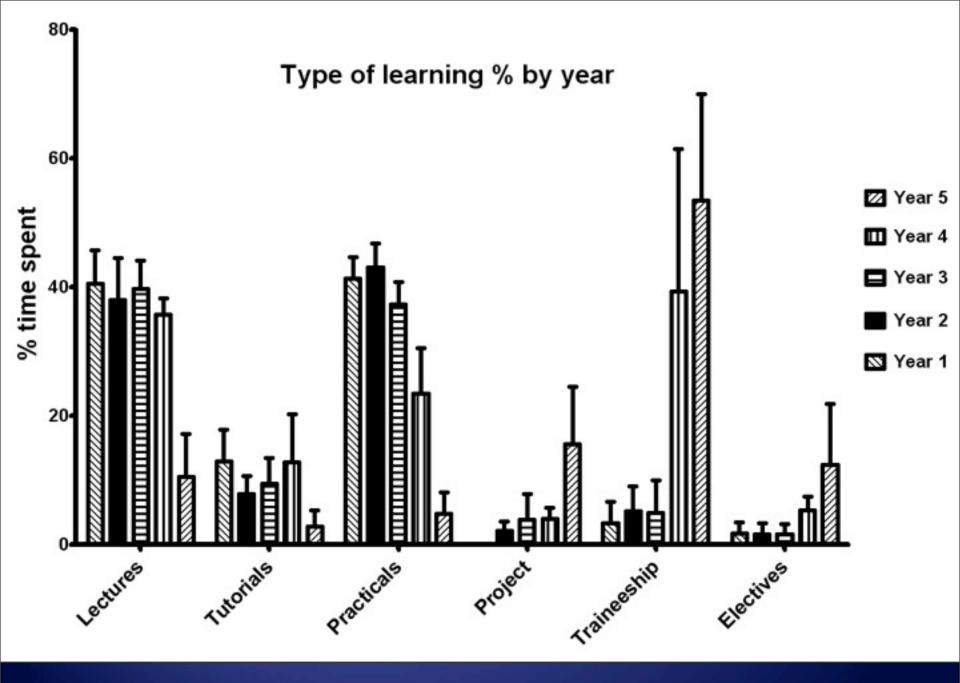
Aim: recognition of **Professional qualifications** Aim: European Higher Education Area (EHEA) – mobility and employment

One question on this topic of differences in models:

Does traineeship come early in E&T?

Analysis of preliminary data for the PHARMINE WP7 Survey from 5 countries

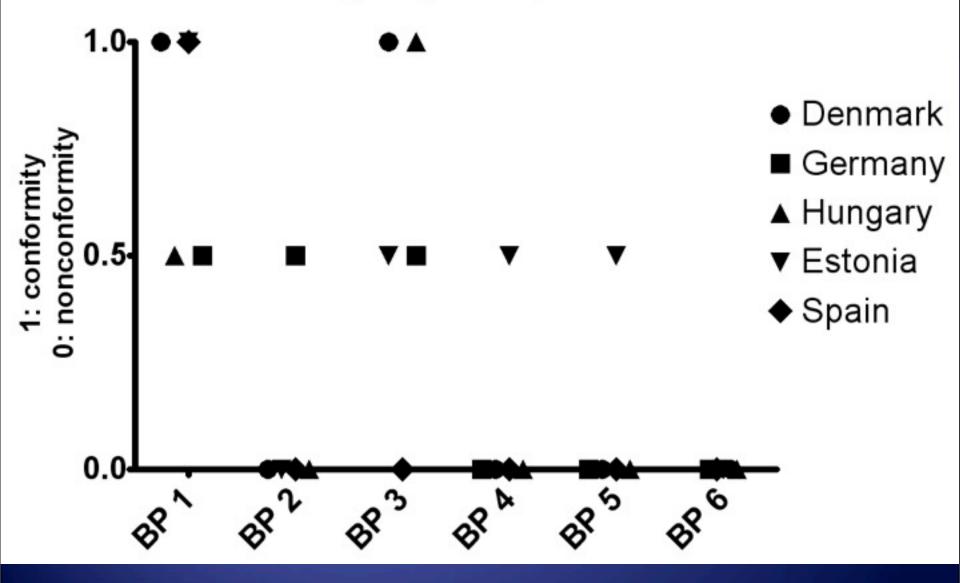




Chapter 5. Impact of the Bologna principles

- 1. Comparable degrees/Diploma Supplement
- 2. Two main cycles (B+M)
- 3. ECTS system for credits, links to LLL
- 4. Removal of obstacles to students and staff mobility
- 5. Involvement in European programs for QA
- 6. European dimension in curriculum

Bologna principles



Send your ideas on hypotheses to be tested, questions to be answered by the PHARMINE WP7 survey data to:

jeffrey.atkinson@orange.fr



PHARMINE Pharmacy Education in Europe





Place Stanislas, Nancy.