

Dissemination activities of the PHAR-QA project carried out by Partner 4, University of Athens, Greece

1. 17th Panhellenic Pharmaceutical Conference 8-11/10/2015

This conference is organized annually by the Panhellenic Association of Pharmacists (the Association of Pharmacists working in the Industry, Public sector etc, site: <http://www.pepharm.gr/>).

The program is presented here:

<http://www.pepharm.gr/images/2015/pharmacongress/17-pharmacongress-program-final.pdf>

During this conference Professor P.Macheras was invited to participate in a round table on "Pharmaceutical Education", scheduled on Sunday 11.10.2015 together with the other speakers representing:

-The three Faculties of Pharmacy in Greece (Athens, Thessaloniki and Patras)

-Pharmacy students associations at both levels (undergraduate and graduate)

Professor Macheras presented the attached slides and inform the audience about the PHAR-QA program and invited all of them to participate in the second round survey. Moreover he distributed hard copies of the invitation letter of PHAR-QA Delphi survey round 2 as it was provided by Jeffrey Atkinson.

The audience consisted of pharmacy students and pharmacists from all the professional activities, while their number was estimated around 100.

2. 3rd International TB-Meeting INHALED THERAPIES FOR TUBERCULOSIS AND OTHER INFECTIOUS DISEASES October 14-16, 2015 Parma, Italy

(<http://www.tefarco.it/TB2015/pages/Default.aspx>)

Associate Professor Dimitrios M. Rekkas participated at this conference as rapporteur for the session held on Thursday afternoon 15/10. (<http://www.tefarco.it/TB2015/pages/programme.aspx>)

Many scientists were present at this conference, coming from all over the world. The number of participants exceeded 100.

The hard copy of the invitation letter of PHAR-QA Delphi survey round 2 was mounted on the board of announcements next to the registration desk and was also handed over to Professors from the Faculties of Pharmacy of Parma and Perugia, Italy, kindly asking them to distribute it to their Faculty members and students. He had also the chance to inform about PHAR-QA a Professor from the University of Cyprus.

3. Pharma Point Conference, Thessaloniki Greece, October 17-18, 2015

(<http://www.pharmapoint.gr/>)

This conference is organized annually by the Pharmacists Association of Thessaloniki, Greece. This association represents the community Pharmacists of this town which is the second largest in Greece.

Associate Professor Dimitrios M.Rekkas participated as invited speaker at this conference in a round table on “Pharmacy Education: Adaptation to the new needs”, together with the Deans of the Faculties of Pharmacy from Athens and Thessaloniki. The moderator was Mr. D.Theodosiadis, president of “Pharmacists Association of Thessaloniki”. His presentation is attached where he explained the PHAR-QA program and presented the invitation letter for the PHAR-QA Delphi survey round 2 as prepared by Jeffrey Atkinson.

Hard copies of this letter were also distributed to the two Deans participated in the round table and other participants as well, kindly inviting them to inform their colleagues. The estimated number of attendees during the round table was ~ 70.

The event was covered extensively by the local press and media.



*PHAR-QA: Quality Assurance in
European Pharmacy Education and Training*



Lifelong
Learning
Programme

PHAR-QA Quality Assurance in European Pharmacy Education and Training.

PHAR-QA: Quality Assurance in European Pharmacy Education and Training

The PHAR-QA Project



PANOS MACHERAS
PROFESSOR
FACULTY OF PHARMACY
NATIONAL & KAPODISTRIAN
UNIVERSITY OF ATHENS
HELLAS

Presentation during the 17th Panhellenic Pharmaceutical Conference October 08-11, 2015, Athens, Greece



PHAR-QA: Quality Assurance in European Pharmacy Education and Training



Lifelong
Learning
Programme

PHAR-QA Quality Assurance in European Pharmacy Education and Training.

PHAR-QA, funded by the European Commission, is producing a framework of competences for pharmacy practice. The framework takes into account the diversity of the pharmacy profession and the on-going changes in healthcare systems (with an increasingly important role for pharmacists), and in the pharmaceutical industry. PHAR-QA is asking academia, students and practicing pharmacists to rank competences required for practice.



The second European Delphi round on the PHAR-QA competence framework.

Following the 3 Delphi rounds within the PHAR-QA consortium, the first European Delphi round of the **PHAR-QA questionnaire on a competence framework** has now been successfully finished. We have already published a substantial part of the work. Copies of the above are available on the PHAR-QA website at: <http://www.phar-qa.eu/delphi/>. Four other manuscripts are in preparation. The work has also been presented at several international conferences and has stimulated a great deal of interest in our colleagues in the USA, Canada, Australia, New Zealand and the Middle East.

In the light of the above, it is obvious that the PHAR-QA framework is in the process of becoming a major element in European and world-wide pharmacy education.

We are now in the final stages of this project and hereby invite you to evaluate our revised version of the PHAR-QA competence framework.

This is the second Delphi round at the European level. In all, the framework will have been subjected to 5 rounds – 3 within the consortium and 2 at the European level. It is thus the result of extensive consensus amongst the major players in European pharmacy.

The revision is based on the ranking of, and comments on, the first European version. The first version and some of the data obtained are available at: <http://www.phar-qa.eu/delphi/>

The major changes are:

- Questions have been simplified especially regarding matters of treating one topic per question and English expressions
- The section on the subject areas as given in the directive 2013/55/EU (physics, biology...) has been removed as these were not considered finally as "competences"
- Questions on research and industrial pharmacy have been reworked given the level for which this framework is intended: 5-year pharmacy degree – not postgraduate specialisation. The emphasis is on "being aware of" rather than "capable of doing". Thus by "knowledge" we mean "being aware of", and by "ability" we mean "capable of doing".
- This version includes an open-ended question for your suggestions on matters not treated and other comments.

As with the first European round, PHAR-QA will contact academics, students and professionals – pharmacists working in a community, hospital or industrial environment, and pharmacists working in other areas.

We hereby invite you to participate in this survey. The interactive version of the second European round of the survey is available at:

<https://www.surveymonkey.com/r/pharqa2>

Thank you for participating in this survey.



ΕΛΛΗΝΙΚΗ ΔΗΜΟΚΡΑΤΙΑ
Εθνικόν και Καποδιστριακόν
Πανεπιστήμιον Αθηνών



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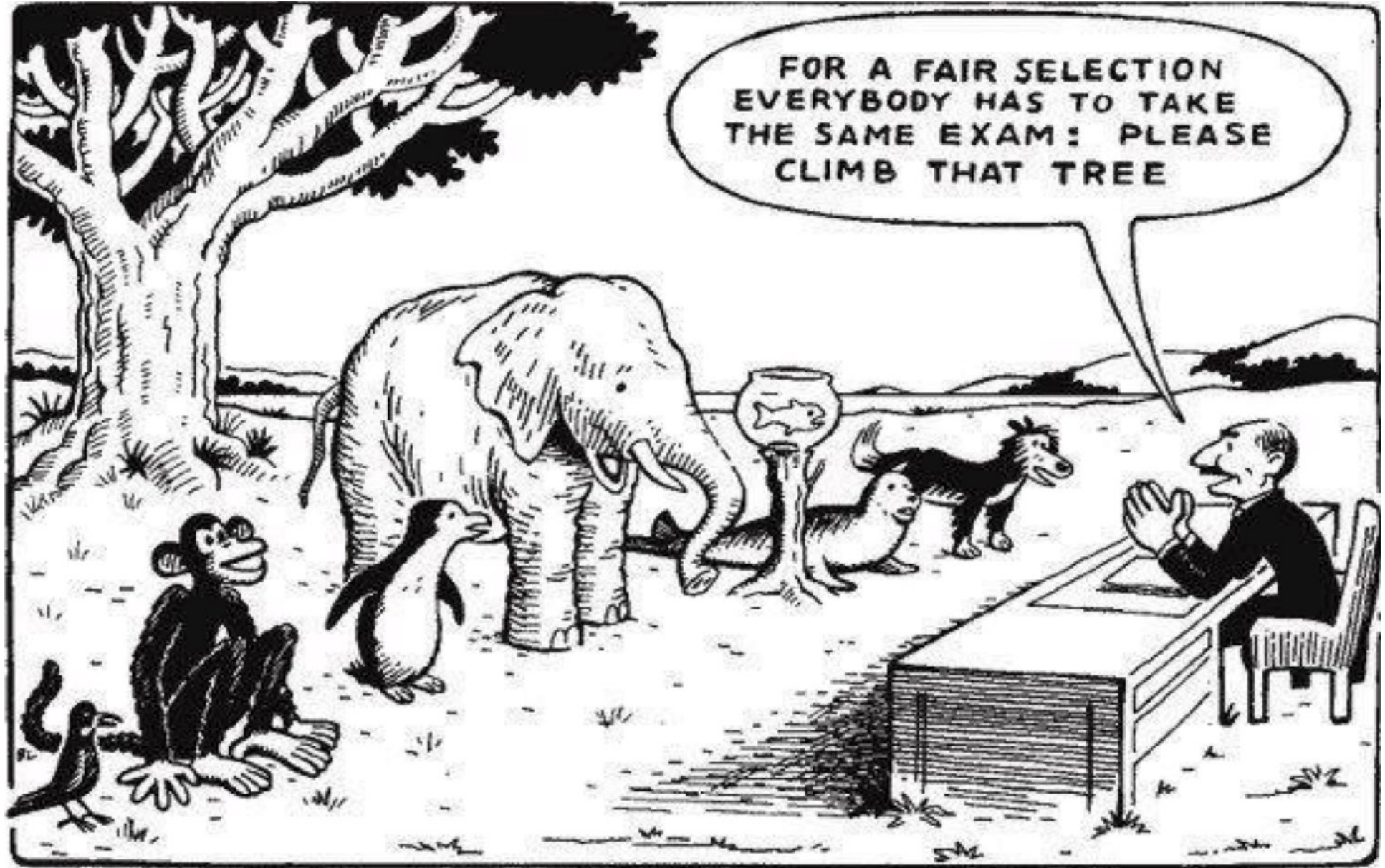
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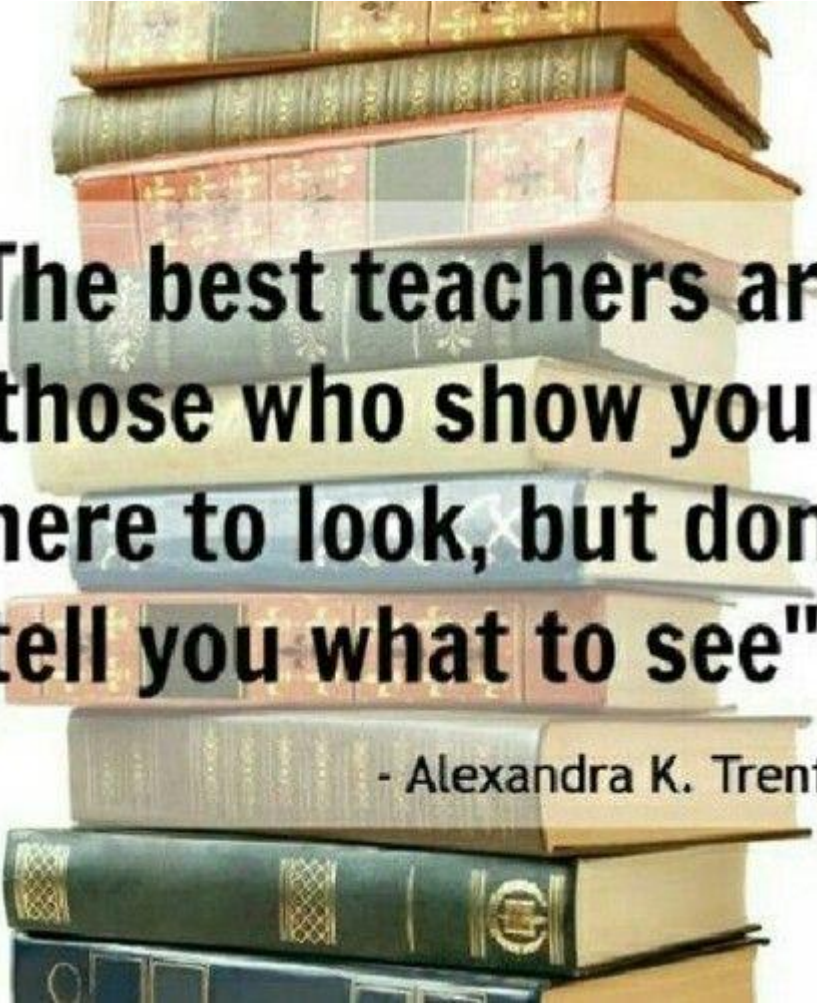
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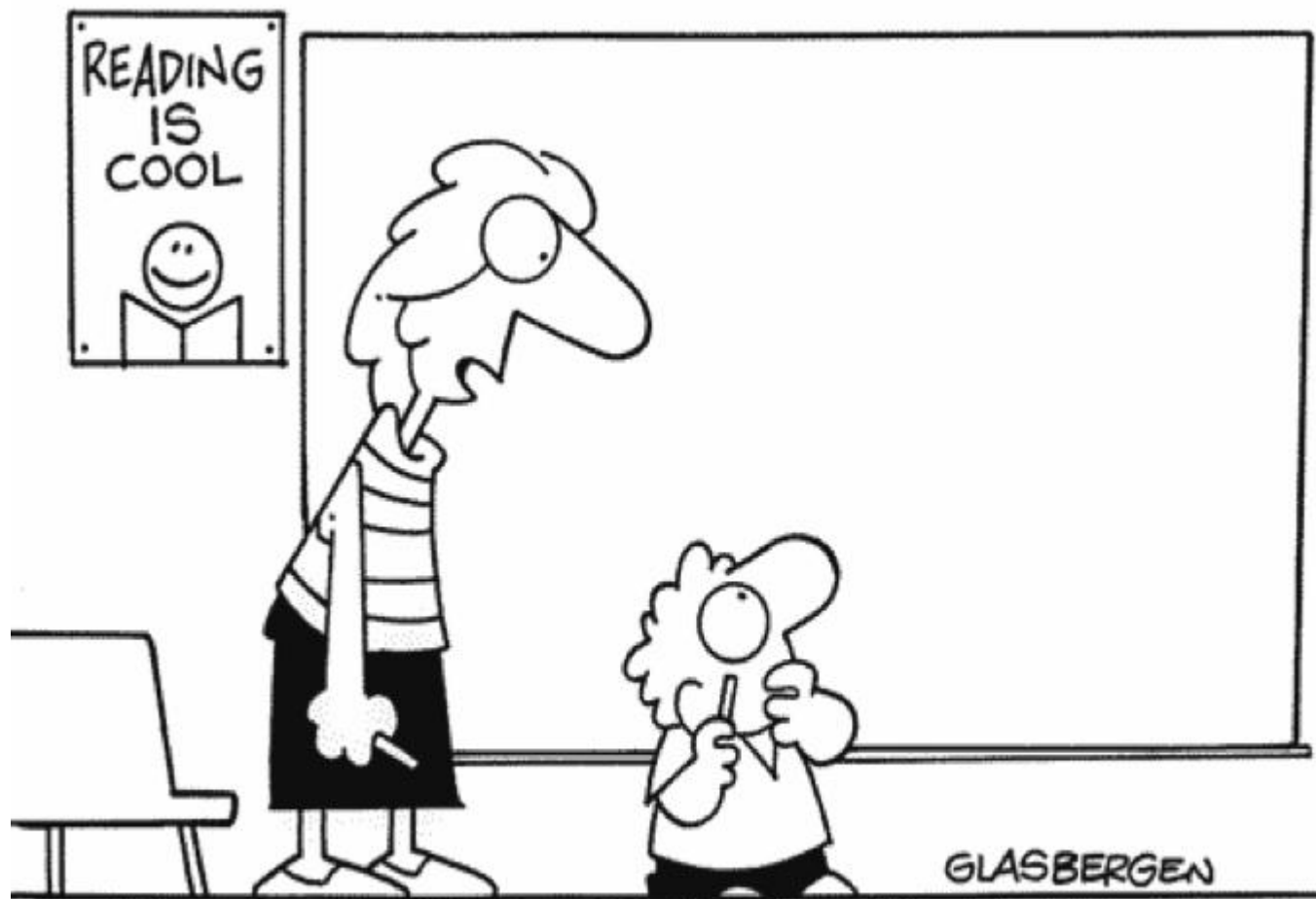
17-18 ΟΚΤΩΒΡΙΟΥ 2015
Συνεδριακό Κέντρο «Ι. ΒΕΛΛΙΔΗΣ»



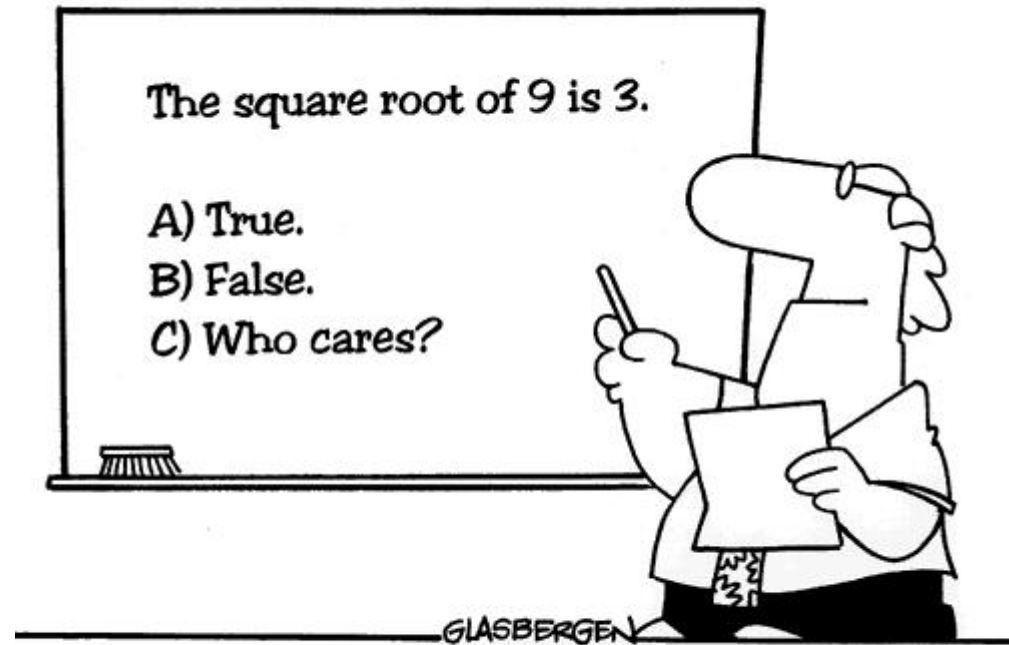


**"The best teachers are
those who show you
where to look, but don't
tell you what to see"**

- Alexandra K. Trenfor



“There aren’t any icons to click. It’s a chalk board.”



**Many students actually look forward
to Mr. Atwadder's math tests.**

2013
FIP*Ed* Global
Education
Report

Fédération
Internationale
Pharmaceutique

International
Pharmaceutical
Federation

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Figure 5.1: Needs-Based Professional Educational Model (PET 2008-Present).



WHO-UNESCO-FIP Education Initiative Development Team

**2ND EUROPEAN MEETING OF THE
FACULTIES, SCHOOLS AND
INSTITUTES OF PHARMACY**

PROCEEDINGS OF THE MEETING

SEPTEMBER 27th - 28th 1994

BERLIN Humboldt University

Pr. P. BOURLIOUX

PROGRAMME

SEPTEMBER 27th 1994

- 14h - Introduction to the Meeting
- Information about the Association (P. BOURLIOUX)

14:00 - 16h - GENERAL ASSEMBLY OF THE ASSOCIATION

- President's Address (C. SOULEAU)
- Financial Report (P. BOURLIOUX)
- Election of the Executive Committee
- Discussion about the role and the actions of the Association

16h - 16h30 - COFFEE BREAK

16:30 - 18:30 - SESSION I - Chairmen : Pr C. SOULEAU - Pr L. PAALZOW

"COMPUTER AIDED LEARNING"

- 16h 30 - 17h00 Plenary lecture : Dr Stephen MOSS (U.K.)
17h 00 - 17h15 Presentation of a powerful CAL or CD-ROM about physiotherapy.
Pr M. PARIS (France)
17h 15 - 17h30 Computer-aided visualization of pharmacokinetic concepts.
Pr SUVERGRUP (Germany)
17h 30 - 17h45 Communication from KUOPIO (Finland)
Until 18h 30 DISCUSSION

20h 30 - COCKTAIL BUFFET

SEPTEMBER 28th 1994

9h - 11h - SESSION II - Chairmen : Pr W. GLOMBITZA - Pr B. CASTILLO GARCIA

"EVALUATION AND COMPARISON OF EDUCATION AND TRAINING IN EUROPEAN FACULTIES OF PHARMACY"

- 9h - 9h30 Comparison of the curricula in the 12 countries of the EEC.
Pr ABLGRIMM (Germany)
9h 30 - 10h 00 Comparison of the curricula in the other European countries.
Pr BOURLIOUX (France)
10h 00 - 10h40 GENERAL DISCUSSION - CONCLUSIONS AND RECOMMENDATIONS

10h40 - 11h - COFFEE BREAK

11h - 12h00 - SESSION III - Chairmen : Pr A.T. FLORENCE - Pr C. SANTOS FERREIRA

"ERASMUS PROGRAMME IN PHARMACY - EVALUATION OF THE I.C.P."

- 11h-12h30 - Presentation by the Scientific Committee
11h 00 - 11h 15 General Introduction - Conclusions and recommendations of Erasmus Meeting concerning ICP in Sciences
Pr L. DELLA CORTE (Italy)
11h 15 - 11h 30 Evaluation of Students Mobility in Pharmaceutical ICP
Pr A.F. DA CUNHA (Portugal)
11h 30 - 11h 45 Evaluation of Teaching Staff Mobility in Pharmaceutical ICP - Pr P. MACHERAS (Greece)
11h 45 - 12h Evaluation of Intensive programmes in Pharmaceutical ICP - Pr F. PUISIEUX (France)
12h 00 - 12h 15 Topics developed in Pharmaceutical ICP.
Pr A.H.P. FAES (The Netherlands)
12h 15 - 12h 45 How introduce credit system in Pharmaceutical Education The E.C.S.T. - Pr J. SONNET (France)

12h 45 - 14h - LUNCH

14h - 15h 00 ROUND TABLE ON ICP EVALUATION AND RECOMMENDATIONS

15h 00 - 16h - SESSION IV - Chairmen : Pr Ch. SOULEAU

- 15h 00 - 15h 20 Presentation of SOCRATES Programme
15h 20 - 16h 00 Discussion

16h 00 - 16h 30 COFFEE BREAK

16h 30 - 18h 20 - SESSION V - Chairmen Pr V. TORTORELLA - Pr D. BREIMER

ROUND TABLE : FUTURE PROSPECTS FOR EUROPEAN EDUCATION AND TRAINING AND IMPACT ON PHARMACEUTICAL PROFESSION

Participants

- | | |
|-------------------------|---|
| - Pr H.J. DE JONG | Industrial Pharmacy (N.L.) |
| - Dr C. CARNEIRO | Community Pharmacy (Portugal) |
| - Dr T. DELANEY | Hospital Pharmacy (Ireland) |
| - Mrs J. VEYRON-CHURLET | European Students Association (France) |
| - Pr H. RASHLUSSEN | Prospect in Postgraduate training in Europe (Denmark) |

18h 30 - CONCLUSIONS

These modifications are voted by 29 YES out of the 29 Faculties present or represented (having paid their adhesion to the Association).

The new statutes will be transmitted to the Prefecture of Antony for regularization.

6 - ELECTION OF THE EXECUTIVE COMMITTEE

The Secretary of the Association has received 29 responses for the elections of the Executive Committee. The members of the TEC were all candidates to the elections and three other colleagues (Pr. RACZ - Budapest, Pr. JANSSEN - Utrecht, Pr. HINCAL - Ankara) were also candidate.

The results of the ballot are the following one

F. BOURLIOUX	28 = Elected
Ch. SOULEAU	21 = Elected
D. BREIMER	27 = Elected
B. CASTILLO-GARCIA	29 = Elected
A.T. FLORENCE	29 = Elected
W. GLOMBITZA	29 = Elected
M. COTRAU	22 Retired
L. PAALZOW	20 = Elected
O. SANTOS-FERREIRA	29 = Elected
V. TORTORELLA	23 = Elected
Pr. RACZ	20 = Elected
Pr. JANSSEN	10
Pr. HINCAL	13 = Elected

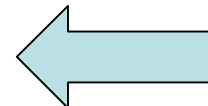
As Pr. COTRAU is retired, he cannot be a member of the executive committee. So 2 new members are elected Pr. RACZ and Pr. HINCAL who will represent the eastern part of Europe.

6 - DISCUSSION ABOUT THE ROLE AND THE ACTIONS OF THE ASSOCIATION

6.1. - Relations with the other European Pharmaceutical Associations

It exists many other European Pharmaceutical Associations and as they have all the same objective (the defence of the profession). Pr. BOURLIOUX suggests that our Association could contact their president and appeals to him to send an observer to our meetings in order to know what we could do communally. After a good discussion, it is proposed that Pr. Bourlioux contacts the following Associations.

- European Association of Hospital Pharmacists
- European Association of Students
- European Association of Pharmaceutical Industry
- European Association of Clinical Pharmacy
- European Association of Community Pharmacy.



In order to propose the presence of observers to our meeting. Concerning EUFAPS, and after discussion with Pr. BREIMER it is decided that our Association does not need to be a member but must remain an observer. Pr. BREIMER as member of the executive committee and as future president of EUFAPS can be the link between the two societies.

	Total number of lecture hours identical and compulsory for every student	Practical courses in total %	Lecture hours of semi-optional subjects
Belgium	3080	52	-
Denmark	2256	44	660
France	2010	40	580
Germany	3250	62	-
Greece	2925	43	260 or 312
Ireland	2102	37	40
Italy	2630	31	-
Netherlands	3420	29	250
Portugal	4227	46	30 or 45
Spain	2825	30	480
United Kingdom (Scotland)	1893	28	270

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Slide No. 9

Subject area I: (Chemical subjects)	25 - 46 %
Subject area II: (Physical and mathematical subjects)	3 - 13 %
Subject area III: (Biological sciences)	12 - 32 %
Subject area IV: (Pharmaceutics)	6 - 22 %
Subject area V: (Pharmacology Tox. Pharmacotherapy, basic medicinal subjects)	11 - 30 %
Subject area VI: (Law and social aspects of pharmacy)	1 - 16 %

Berlin 1994-99

**LIST OF THE PARTICIPANTS
BERLIN
27 - 28 SEPTEMBER 1994.**

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Pr. CONDORELLI G.
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MICROBIOLOGY	SEM					TOTAL HOURS			SUBJECT
	1st	2nd	3rd	4th	5th	LEC	LAB	SEM	
AUSTRIA						40	45	195	HYGIENE MICROBIOLOGY
BULGARIA						56	56	112	MICROBIOLOGY VIRIOLOGY
CZECH REP.						98	42	140	MICROBIOLOGY BIOCHEMISTRY BIOTECHNOLOGY
ESTONIA						24	135	159	MICROBIOLOGY HYGIENE
FINLAND						30	45	95	GEN MICROBIOV PHARM MICROBIO
HUNGARY						32	48	144	MICROBIOLOGY HYGIENE AND EPIDEMIOLOGY
IRELAND						126	42	168	MICROBIOLOGY AND VIRIOLOGY BIOCHEMISTRY
LITHUANIA						84	126	210	MICROBIOLOGY HYGIENE
NORWAY	NOT KNOWN								
POLAND						30	75	105	MICROBIOLOGY
ROMANIA						48	64	112	MICROBIOLOGY
SLOVENIA						30	14	44	MICROBIOLOGY
SLOVAC REP.						45	45	90	PHARMAC MICROBIOLOGY BIOCHEMISTRY
SWEDEN						33	8	31	BIOCHEMISTRY MICROBIOLOGY BIOTECHNOLOGY
SWITZERLAND						100	60	160	PHARMACOLOGY MICROBIOLOGY HYGIENE

PHARMACEUTICAL TECHNOLOGY	SEM					TOTAL HOURS			SUBJECT
	1st	2nd	3rd	4th	5th	LEC	LAB	SEM	
AUSTRIA						180	195	375	PHARM TECHNOLOGY CALCULATIONS
BULGARIA						164	208	372	PHARMACEUTICAL TECHNOLOGY
CZECH REP.						112	164	276	PHARMACEUTICAL TECHNOLOGY
ESTONIA						168	300	468	TECHNOLOGY OF DRUGS
FINLAND						103	188	291	PHARM. TECH. FORMULATIONS PHYSICAL PHARM. IND. PHARMACY
HUNGARY						160	426	586	PHARMACEUTICAL TECHNOLOGY
IRELAND						196	210	406	PHARMACEUTICALS PHARM. LAB.
LITHUANIA						162	260	422	PHARMACEUTICAL TECHNOLOGY
NORWAY	NOT KNOWN								
POLAND						90	240	330	TECHNOLOGY OF DRUGS FORM DICTION
ROMANIA						128	226	354	PHARMACEUTICAL TECHNOLOGY
SLOVENIA						183	255	438	PHARMACEUTICAL TECHNOLOGY INDUSTRIAL PHARMACY DOSAGE FORMS AND BIOGENESIS
SLOVAC REP.						90	270	360	PHARMACEUTICALS PHARM. LAB.
SWEDEN						65	104	169	CALCULATIONS
SWITZERLAND						174	220	394	CALCULATIONS & PHARMACOKINETICS

ANATOMY PHYSIOLOGY	SEM					TOTAL HOURS			SUBJECT
	1st	2nd	3rd	4th	5th	LEC	LAB	SEM	
AUSTRIA						120	15	135	ANATOMY PATHOLOGY HISTOLOGY FATRA PH. LAB. MEDIC TERMINOLOGY
BULGARIA						56	56	112	ANATOMY AND PHYSIOLOGY
CZECH REP.						84	98	182	HUMAN MORPHOLOGY PHYSIOLOGY AND PATHOLOGY
ESTONIA						96	174	270	ANATOMY PHYSIOLOGY PATHOLOGY PHYSIOLOGY
FINLAND						128	80	208	ANATOMY PHYSIOLOGY PATHOLOGY
HUNGARY						20	32	52	ANATOMY PHYSIOLOGY PATHOLOGY
IRELAND						112	42	154	ANATOMY PHYSIOLOGY PATHOLOGY
LITHUANIA						54	190	244	ANATOMY BASED HUMAN PHYSIOLOGY PATHOLOGY PHYSICIAN
NORWAY	NOT KNOWN								
POLAND						60	90	150	PHYSIOLOGY ANATOMY PATHOLOGY PHYSIOLOGY
ROMANIA						210	112	322	ANATOMY PHYSIOLOGY PHYSIOLOGY
SLOVENIA						112	42	154	ANATOMY PHYSIOLOGY PHYSIOLOGY
SLOVAC REP.						30	30	60	PHYSIOLOGY PATHOLOGY
SWEDEN						80	30	110	PHYSIOLOGY MORPHOLOGY
SWITZERLAND						118	4	122	ANATOMY PHYSIOLOGY

PHARMACOLOGY PHARMACOKINETICS	SEM					TOTAL HOURS			SUBJECT
	1st	2nd	3rd	4th	5th	LEC	LAB	SEM	
AUSTRIA						210	114	324	PHARMACOLOGY TOXICOLOGY PHARMACOLOGY
BULGARIA						98	126	224	PHARMACOLOGY TOXICOLOGY
CZECH REP.						180	84	264	PHARMACOLOGY AND VET. PHARMACY PHARMACOLOGY
ESTONIA						72	36	108	PHARMACOLOGY
FINLAND						144	114	258	PHARMACOLOGY AND TOXICOLOGY PHARMACOLOGY
HUNGARY						128	64	192	PHARMACOLOGY AND TOXICOLOGY
IRELAND						180	14	194	PHARMACOLOGY BIOPHARMACEUTICS CLINICAL PHARMACOLOGY
LITHUANIA						100	211	311	PHARMACOLOGY PHARMACOLOGY
NORWAY	NOT KNOWN								
POLAND						60	111	171	PHARMACOLOGY
ROMANIA						112	74	186	PHARMACOLOGY PHARMACOLOGY PHARMACOLOGY
SLOVENIA						130	60	190	BIOPHARMACEUTICS PHARMACOLOGY
SLOVAC REP.						90	72	162	PHARMACOLOGY & TOXICOLOGY PHARMACOLOGY
SWEDEN						70	33	103	BIOPHARMACEUTICS PHARMACOLOGY
SWITZERLAND						76	56	132	PHARMACOTHERAPY CLIN. PHARMACY PHARMACOLOGY CLIN. PHARMACOLOGY

SESSION III

Chairmen: Pr A.T. FLORENCE & Pr O. SANTOS FERREIRA

"ERASMUS PROGRAMME IN PHARMACY EVALUATION OF THE I.C.P."

Communications from:

- Pr. L. DELLA CORTE (Italy)
- Pr. A.P. DA CUNHA (Portugal)
- Pr. P. MACHERAS (Greece)
- Pr. F. PUISIEUX (France)
- Pr. A.H.P. PAES (Netherlands)
- Pr. J. BONNET (France)
- Round Table

Fig 1: Number of ICPs and countries coordinating them.

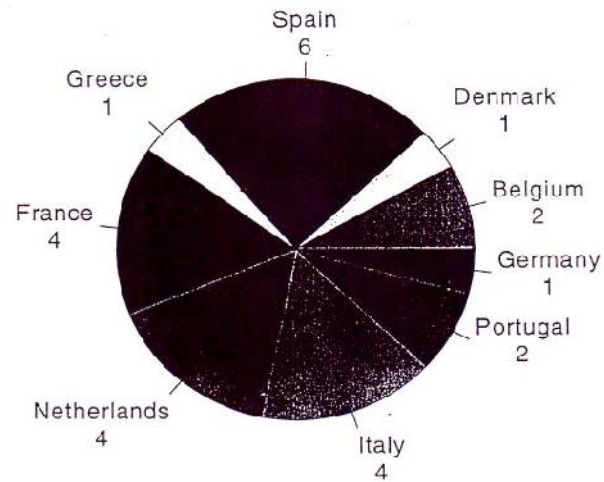
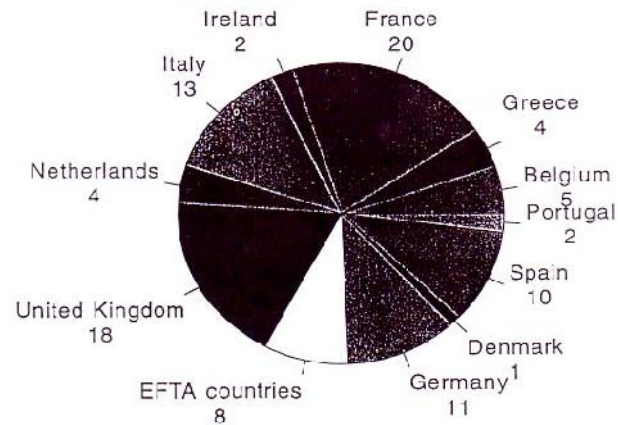


Fig. 2: number of participating institutions



SESSION V

Chairmen: Pr V. TORTORELLA & Pr D. BREIMER

ROUND TABLE: **FUTURE PROSPECTS FOR EUROPEAN EDUCATION AND TRAINING AND IMPACT ON PHARMACEUTICAL PROFESSION**

Participants:

- | | |
|-------------------------|---|
| - Pr. H.J. DE JONG | Industrial Pharmacy (Netherlands) |
| - Dr. C. CARNEIRO | Community Pharmacy (Portugal) |
| - Dr. J. KOTWAS | Hospital Pharmacy (Germany) |
| - Mrs I. VEYRON-CHURLET | Pharmapole (France) |
| - Pr. M. RASMUSSEN | Prospects in Postgraduate training
in Europe (Denmark) |

Pr. H.J. DE JONG

THE PHARMACIST IN THE PHARMACEUTICAL INDUSTRY

- R & D**
- CHEMISTRY, EXTRACTION, BIO TECHNOLOGY
 - PHARMACOLOGY
 - PHYSICOCHEMISTRY
 - ANALYTICAL CHEMISTRY
 - PHARMACEUTICAL TECHNOLOGY
 - PHARMACOKINETICS
 - METABOLISM
 - TOXICOLOGY
-
- CLINICAL STUDIES
 - REGULATORY AFFAIRS
 - QUALITY ASSURANCE
 - PLANNING
 - SUB-CONTRACTING

THE PHARMACIST IN THE PHARMACEUTICAL INDUSTRY

PRODUCTION

- PURCHASING**
- PRODUCTION (CHEMICAL, PHARMACEUTICAL)**
- QUALITY CONTROL**
- QUALITY ASSURANCE**
- AUDITING SUPPLIERS**
- REGULATORY AFFAIRS**

MARKETING SALES

- MARKET ANALYSIS (REAL TIME, PROSPECTIVE)**
- PUBLICITY**
- SALES**

MANAGEMENT

THE PHARMACIST IN THE PHARMACEUTICAL INDUSTRY

THE FRENCH SITUATION

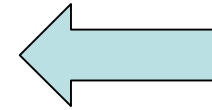
	1988	1991	Δ
Production QC Regulatory	1 026	1 260	+ 23 %
R & D	767	819	+ 11 %
Marketing Sales	644	768	+ 20 %
Administration Finances	323	303	- 7 %
TOTAL	2 730	3 150	+ 15 %
Male	1 618	1 593	
Female	1 112	1 557	

3. EDUCATION : 3 cases

- diploma in pharmacy in Italy, Spain, Greece, Portugal, Luxembourg and Ireland
- diploma in pharmacy + related training, in France
- other diploma for Germany, Netherlands, Belgium and U.K

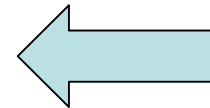
4. CONCLUSION

Efforts are necessary to harmonize distribution throughout Europe.
What kinds of education could we create for which kinds of responsibilities ?



◇◇◇◇◇◇◇◇◇◇

DOES THE EDUCATION CORRESPOND
TO THE NEEDS ?



CONCLUSION : A FEW PROSPECTS

* **The monopoly of the pharmacist** in the European pharmaceutical market does not exist everywhere in the European union.

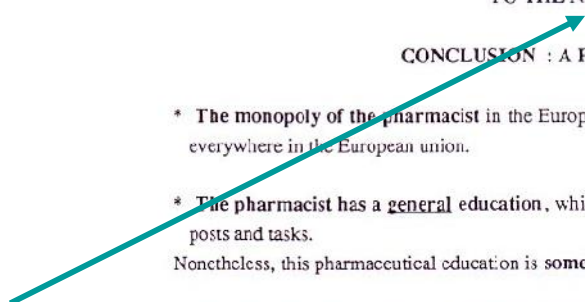
* **The pharmacist has a general education**, which allows him to adapt himself to various posts and tasks.

Nonetheless, this pharmaceutical education is **sometimes inadequate**.

- It can then be completed by a **related training** during or after the normal degree course.

- **Part-time contracts** can be set up for young workers under 26, who will use the rest of their working time to follow a course at University. This kind of contract permits the employee to get both professional and academic qualifications. The company must be a place for training, as well as production.

-After pharmacy studies, one can also complete one's education by "**on the job training**" within the company.





...will survey existing EU pharmacy curricula

- > Pharmine
- > Coordinator
- > Executive Director
- > Administration
- > Partner Institutions
- > Associated Partners
- > Final Report – Lisbon June 2011
- > Mission Statement
- > Position Papers
- > Country Profiles
- > Databank of Universities
- > New Projects

Coordinator: Bart Rombaut

Pharmine

- Administrative seat of PHARMINE
- Organises meetings of the consortium
- Chair WPs
- Management and steering committee (WP1)
- Dissemination (WP2)
- Industrial pharmacists (WP5)
- Organises the website
- Handle financial aspects



Research

- Research interests: virology, antiviral drugs, vaccines, new teaching methods
- Expert for EMEA (London) and FAMHP (Brussels)
- Dean of the School of Pharmacy of Vrije Universiteit Brussel
- Vice-Dean Education Faculty of Medicine and Pharmacy of Vrije Universiteit Brussel
- Head of the department Pharmaceutical Biotechnology and Molecular Biology of the Vrije Universiteit Brussel
- Guest professor at the University of Nijmegen in the Netherlands
- Treasurer of the European Association of Faculties of Pharmacy
- Member or chairman of several National and International Scientific Societies

Contact

<http://www.pharmine.org/>



Pharmine

PHARMacy education IN Europe

PHARMINE Final Report Meeting
Lisbon, 25th. June 2011

Jeffrey ATKINSON

Emeritus Professor of Pharmacology, Nancy, France

Jeffrey.atkinson@pharma.uhp-nancy.fr



Participating countries

Austria

Belgium

Bulgaria

Czech Republic

Denmark

Estonia

Finland

France

Germany

Greece

Hungary

Iceland

Ireland

Italy

Latvia

Lithuania

Malta

C. Noe, Vienna

B. Rombaut, Brussels

V. Petkova, Sofia

M. Polasek, Prague

U. Madsen, Copenhagen; M. Brandl, Odense

P. Veski, D. Volmer, Tartu

J. Hirvonen, Helsinki

A. Marcincal, Lille

R. Süß, Freiburg

M. Rekkas, Athens; K. Poulas, Patras

G. Soos, Szeged

T. Kristmundsdottir, Reykjavik

J. Strawbridge, Dublin

C. Rossi, Perugia

R. Muceniece, B. Maurina, Riga

V. Briedis, Kaunas

L. Azzopardi, Msida



Participating countries

Norway

K. M. Ulshagen, Oslo

Poland

S. Polak, Krakow

Portugal

J. A. G. Morais, Lisbon

Romania

C. Mircioiu, Bucarest

Slovakia

J. Kyselovic, Bratislava

Slovenia

B. Rozic, Ljubljana

Spain

B. Del Castillo-Garcia, Madrid; L. Recalde-Manrique,
Granada

Sweden

R. Hansson, Uppsala

The Netherlands

T. Schalekamp, Utrecht, H. Haisma, Groningen

Turkey

F. Hincal, Ankara

UK

K. A. Wilson, Aston; G.B. Lockwood, Manchester



ACCESS databank – beta version available

Pharmine
Pharmacy Education in Europe
Education & Culture DG
Lifelong Learning Programme

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Search

Database of universities and related institutions

Filter on city Filter on lastname

Name	Acronym	Street	Zip	Firstname	Lastname	Website
	FIP	3 place Jean Marteau	1201	Xuan Hao	Chan	
	National University of Pharmacy	вул. Пушкинская 53	61002	Chernykh	Valentin P.	site
Farmaceutski Fakultet	Univerzitet "Sv. Kiril i Metodij" Skopje	Vodnjanska,17	1000	Svetlana	Kulevanova	
Accreditation Council for Pharmacy Education		20 North Clark Street, Suite 2500		Mike	Rouse	
American Association of Pharmaceutical Scientists				Patrick	DeLuca	
Anadolu University Faculty of Pharmacy	ANA Anadolu Üniversitesi	Yunus Emre Kampusu	26470	Nese	Kirimci	site
Asociación Española de Farmacéuticos de la Industria (AEFI	Alberto Alcaer, 38 - 4ªcha.	28016			site
Atatürk University Faculty of Pharmacy	Atatürk Üniversitesi		25240			site
Bradford School of	University of		BD9 4DP	John	Purdie	site

[Mission statement](#)

[News](#)

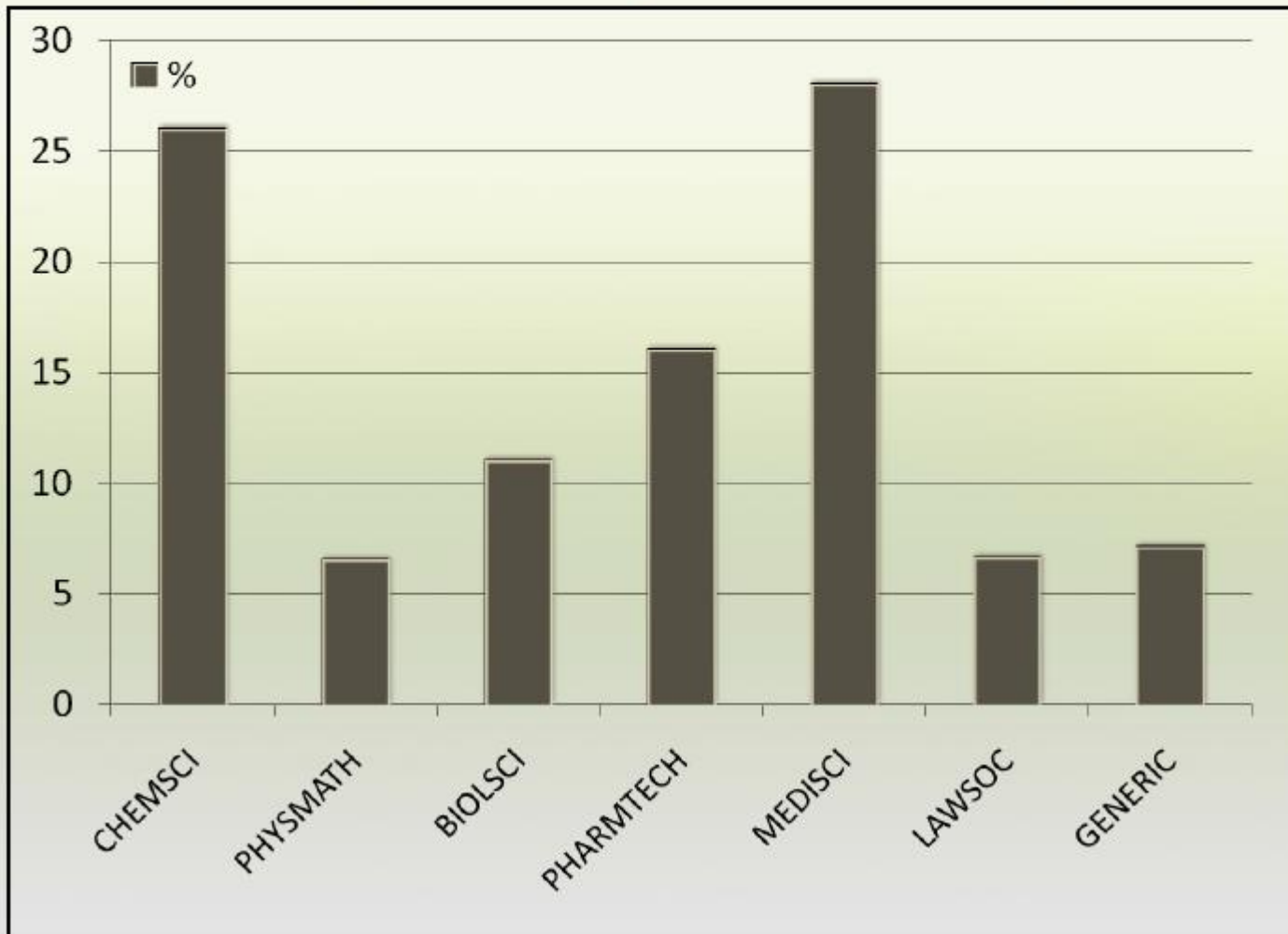
[Position papers](#)

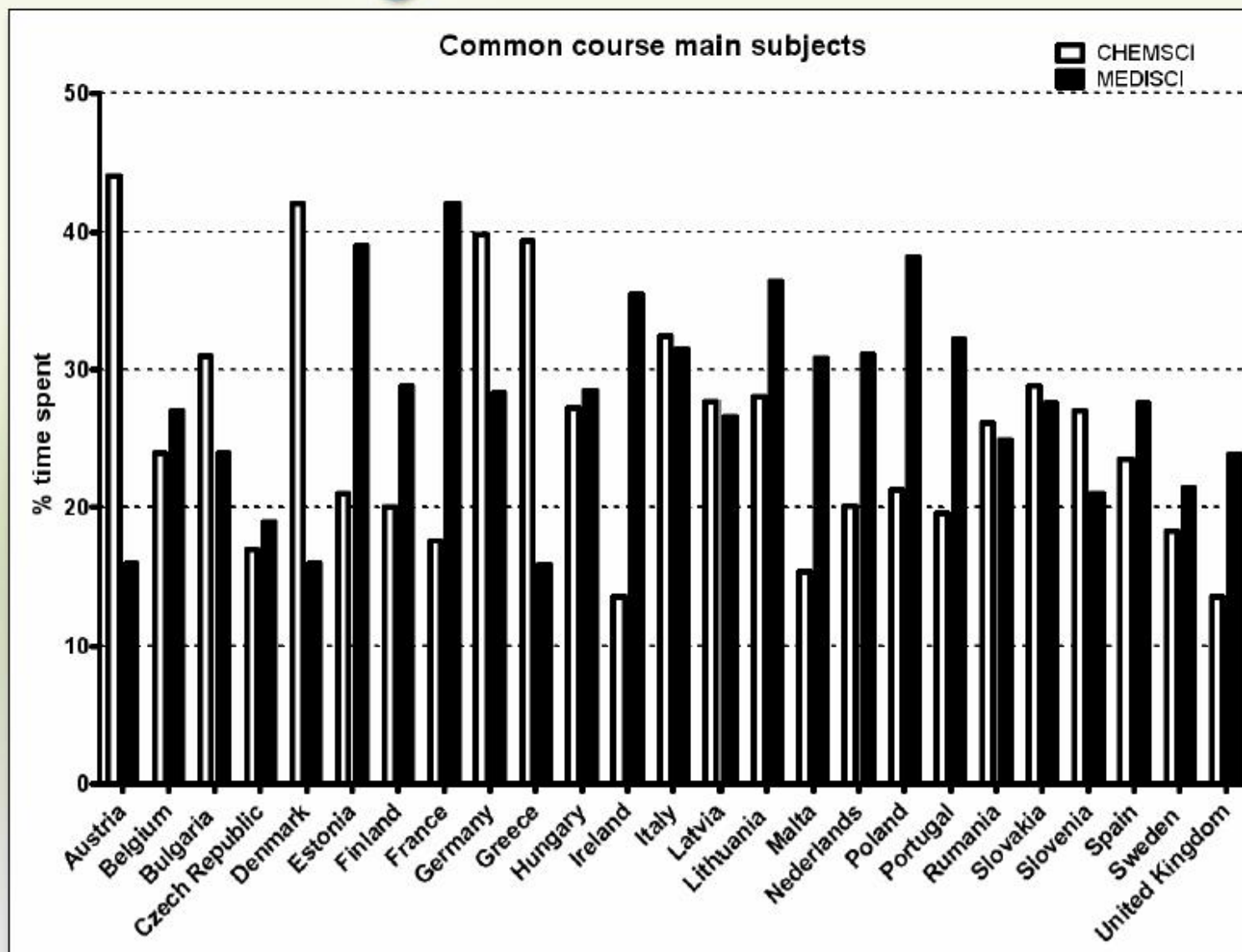
[Country profiles](#)

[Databank of universities](#)



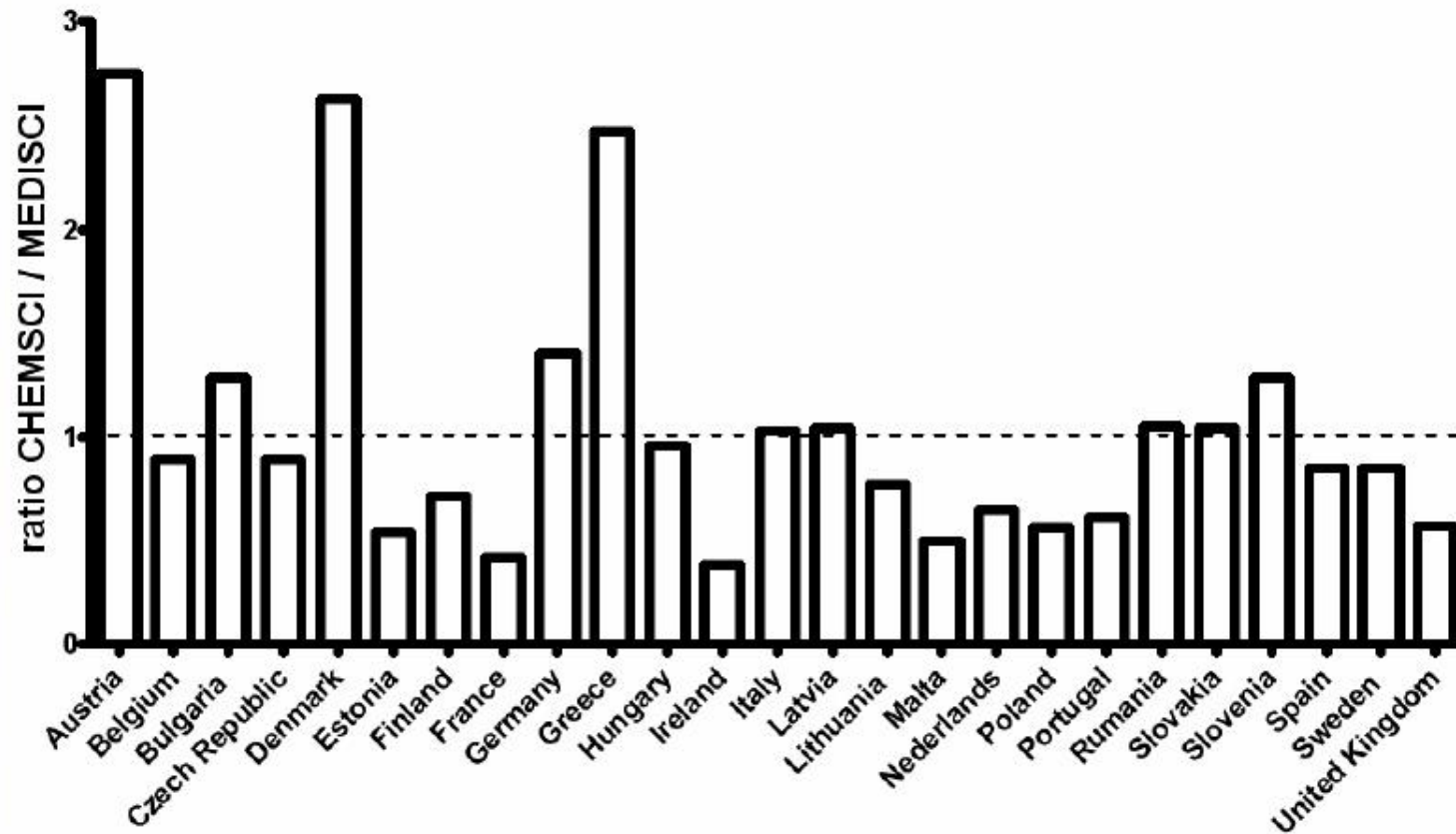
The average EU pharmacy course







Ratio of chemical to medical sciences





QA-PHAR

– the European network in QA for PET

Organisation of MNGT for QA-PHAR

Administrator: B. Rombaut, VUB, Executive Director: J. Atkinson, PCN
 General Secretaries: A. Cavaco, Lisbon, D. Rekkas, Athens, D. Volmer,, Tartu

<p>“Northern” Regional directors D. Volmer - Estonia J. Hirvonen – Finland</p> <p>Members: Estonia Finland Latvia Lithuania Sweden <i>Iceland</i> <i>Norway</i></p>	<p>“Central” Regional directors B. Bozic - Slovenia S. Polak - Poland</p> <p>Members: Slovenia Poland Czech Republic Slovakia Hungary Austria</p>	<p>“Eastern” Regional directors V. Petkova - Bulgaria C. Rais, Romania</p> <p>Members: Bulgaria Romania <i>Albania</i> <i>Bosnia</i> <i>Croatia</i> <i>FYROM</i> <i>Kosovo</i> <i>Moldova</i> <i>Montenegro</i> <i>Serbia</i> <i>Ukraine</i></p>	<p>“Western” Regional directors B. Thys - Belgium H. J. Haisma – The Netherlands</p> <p>Members: Belgium The Netherlands Ireland UK Germany <i>Switzerland</i></p>	<p>“Southern” Regional director A. Cavaco - Portugal D. Rekkas - Greece</p> <p>Members: Portugal Spain France Italy Greece Malta <i>Turkey</i></p>
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QA-PHAR potential associated partners / stakeholders.

- Professional pharmacist organisations
 - a. EU
 - 1. PGEU <http://www.pgeu.eu/>
 - 2. EAHP <http://www.eahp.eu/>
 - 3. EIPG <http://www.eipg.eu/>
 - 4. EPSA <http://epsa-online.org/content/index.php>
 - 5. EUFEPS <http://www.eufeps.org/>
 - b. International
 - 1. FIP <http://www.fip.org/www/>
- QA agencies
 - a. EU – ENIC-NARIC <http://www.enic-naric.net/>
 - b. ACPE <http://www.acpe-accredit.org/>
- MEDINE2 <http://medine2.com/> - joint external evaluators and joint publication
- National professional bodies
 - a. Orders
 - 1. GPhC <http://www.pharmacyregulation.org/>
 - 2. *Ordre des pharmaciens* <http://www.ordre.pharmacien.fr/>
 - 3. Others
 - b. Societies and associations



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PHARMACY EDUCATION IN EUROPE

<http://www.pharmine.org/wp-content/uploads/2014/05/PHARMINE-Final-Report-Public-Part.pdf>

The 2011 PHARMINE report on pharmacy and pharmacy education in the European Union

[Jeffrey Atkinson](#) and [Bart Rombaut](#)

[Author information](#) ► [Article notes](#) ► [Copyright and License information](#) ►

Abstract

The PHARMINE consortium consists of 50 universities from European Union member states or other European countries that are members of the European Association of Faculties of Pharmacy (EAFP). EU partner associations representing community (PGEU), hospital (EAHP) and industrial pharmacy (EIPG), together with the European Pharmacy Students' Association (EPSA) are also part of the consortium.

The consortium surveyed pharmacies and pharmacists in different settings: community, hospital, industry and other sectors. The consortium also looked at how European Union higher education institutions and courses are organised.

The PHARMINE survey of pharmacy and pharmacy education in Europe produced country profiles with extensive information for EU member states and several other European countries. These data are available at: http://www.pharmine.org/losse_paginas/Country_Profiles/.

This 2011 PHARMINE report presents the project and data, and some preliminary analysis on the basic question of how pharmacy education is adapted to pharmacy practice in the EU.

Keywords: Education; Pharmacy; Pharmaceutical Services; European Union; Europe

Introduction

In 1994 the EAFP, under the direction of P. Bourlioux, University Paris XI, France, brought out a document surveying the state of pharmacy education in the EU of that time (document available



Quality Assurance in European Pharmacy Education and Training.

PHAR-QA

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> Mission Statement

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> Events

> Dissemination

> The PHAR-QA survey

> Newsletters

> News

Recent Changes

Added the Results of the European Delphi Network

The PHAR-QA (Quality Assurance in European Pharmacy Education and Training) is funded by the EU ERASMUS Lifelong Learning Programme. The PHAR – QA project will focus on competences and quality assurance in the education and training of European pharmacists extending the study initiated by PHARMINE (Pharmacy Education in Europe).

The adoption of a European QA system in pharmacy education is necessary to face up to the specific challenge of ensuring that the formation produces a qualified professional who is capable of working efficiently in a profession within a regulatory framework independently of the institution in which you study. In addition, competences should be redefined according with the current trends such as:

- University re-organisation and movement towards the European Higher Education Area with emphasis on the Bologna principles and – amongst others – considerations of the bachelor/master organisation of courses.

<http://www.phar-qa.eu/>

practice in community or hospital pharmacies, or in an industrial setting ensuring the research, development and production of efficient and safe medicines. The ultimate stakeholder of the PHAR-QA project is, therefore, the European population.

PHAR-QA is run jointly by a consortium of universities at the forefront of educational research and development in pharmacy. Led by the Pharmacy Faculty of the Vrije Universiteit Brussel and the Pharmacolor Consultants, Nancy in France and the participation of:

- University of Granada, Spain
- National and Kapodistrian University of Athens, Greece
- University of Tartu, Estonia
- University of Helsinki, Finland
- University of Ljubljana, Slovenia
- Jagiellonian University of Cracow, Poland
- Medical and Pharmaceutical University Carol Davila of Bucharest, Romania

PHAR-QA will also work in close collaboration with the European Association of Faculties of Pharmacy and other European organisations, as well as with MEDINE (Medical Education in Europe). It has an international advisory board with experts in QA in pharmacy education from the USA, UK, Spain and elsewhere, as well as a representative from TUNING.

The project outcomes will be used by 200 HEIs in Europe; education and healthcare sectors of national governments; EU DGs and the professional organizations of pharmacists.

PHAR-QA outcomes will also be disseminated to:



- Students and staff in the faculties;
- EU pharmacists (community, hospital, industrial and others);
- National and European healthcare specialist groups;
- Members of the European pharmaceutical, biotechnological, chemical, agricultural (especially pharmaceutical food science) industries.

Information will also be provided to non-European countries wishing to follow the work of the consortium and possibly to implement the PHARMINE and PHAR-QA paradigms.

Pharmine



Education & Culture DG
Lifelong Learning Programme

PHAR-QA: Quality Assurance in European Pharmacy Education and Training



PHAR-QA Quality Assurance in European Pharmacy Education and Training.

PHAR-QA, funded by the European Commission, is producing a framework of competences for pharmacy practice. The framework takes into account the diversity of the pharmacy profession and the on-going changes in healthcare systems (with an increasingly important role for pharmacists), and in the pharmaceutical industry. PHAR-QA is asking academia, students and practicing pharmacists to rank competences required for practice.

With the support of the Lifelong Learning programme of the European Union: 527194-LLP-1-2012-1-BE-ERASMUS-EMCR
This project has been funded with support from the European Commission. This publication reflects the views only of the author;
the Commission cannot be held responsible for any use which may be made of the information contained therein.

The European network evaluation of the PHAR-QA framework of

The European network evaluation of the PHAR-QA framework of competences for...

The PHAR-QA ("Quality assurance in European pharmacy education and training") funded by the European Commission, will produce a framework of competences for pharmacy practice and a quality assurance system to back this up.

The PHAR-QA competence framework is primarily in line with the EU directive on the sectoral profession of pharmacy but also takes into account the diversity of the pharmacy profession and the on-going changes in European healthcare systems (with an increasingly important role for pharmacists), and in the pharmaceutical/biotechnological industry. Changes in the European Higher Education Area, especially those involving the bachelor and master degree organisation are also considered.

You are asked to rank the importance of the competences bearing in mind that fact that this survey applies to the wide range of domains of pharmaceutical activity. Responders should concentrate on competences needed for all pharmacists - not only on those for their speciality. It also applies to Europe - minor differences in different countries should not be stressed.

The ranking scale is as follows:

1. Not important - Can be ignored.
2. Quite important - Valuable but not obligatory.
3. Very important - Obligatory with exceptions depending upon field of pharmacy practice.
4. Essential - Obligatory.
5. I cannot rank this competence.

In the "Any comments" box you can:

- explain your ranking,
- explain why you were unable to rank a competence,
- suggest competence(s) that should be added.

If you wish to change your ranking for one or several competences click on the "Previous" button to reach the relevant page(s) before the final validation of your replies.

Following analysis of your replies, a second version will be produced for your evaluation. Following refinement of the framework via this repetitive Delphi process, a final version will be produced. This will form the basis of the PHAR-QA quality assurance system.

Further information can be obtained from Jeffrey ATKINSON, executive director of PHAR-QA.
Jeffrey.atkinson@univ-lorraine.fr
<http://pcn-consultants.com>

Thank you for participating in this survey.

A final check before distribution to European network.

The survey should work on all browsers.
Your comments on format are most welcome.

Your details.

1. What is your age?



Title / Keyword

Journal

Volume

Author

Section

Issue

Article Type

Special Issue

Page

Pharmacy

Volume 2, Issue 2

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Pharmacy 2014, 2(2), 161-174; doi:10.3390/pharmacy2020161

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Review

The Production of a Framework of Competences for Pharmacy Practice in the European Union

Jeffrey Atkinson^{1*}, Bart Rombaut^{2†}, Antonio Sánchez Pozo³, Dimitrios Rekkas⁴, Peep Veski⁵, Jouni Hirvonen⁶, Borut Bozic⁷, Agnieszka Skowron⁸, Constantin Mircioiu⁹, Annie Marcincal¹⁰ and Keith Wilson¹¹

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7 **The PHAR-QA project: Quality Assurance in European**
8 **Pharmacy Education and Training. Results of the European**
9 **network Delphi round 1.**

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32 ¹¹ European Association of Faculties of Pharmacy, Dept. Pharmaceutical Sciences, Utrecht



EAFP EUROPEAN ASSOCIATION OF
FACULTIES OF PHARMACY



HELLENIC REPUBLIC
National and Kapodistrian
University of Athens

Faculty of Pharmacy

21st EAFP Annual Conference

14-16/05/2015 University of Athens, Greece

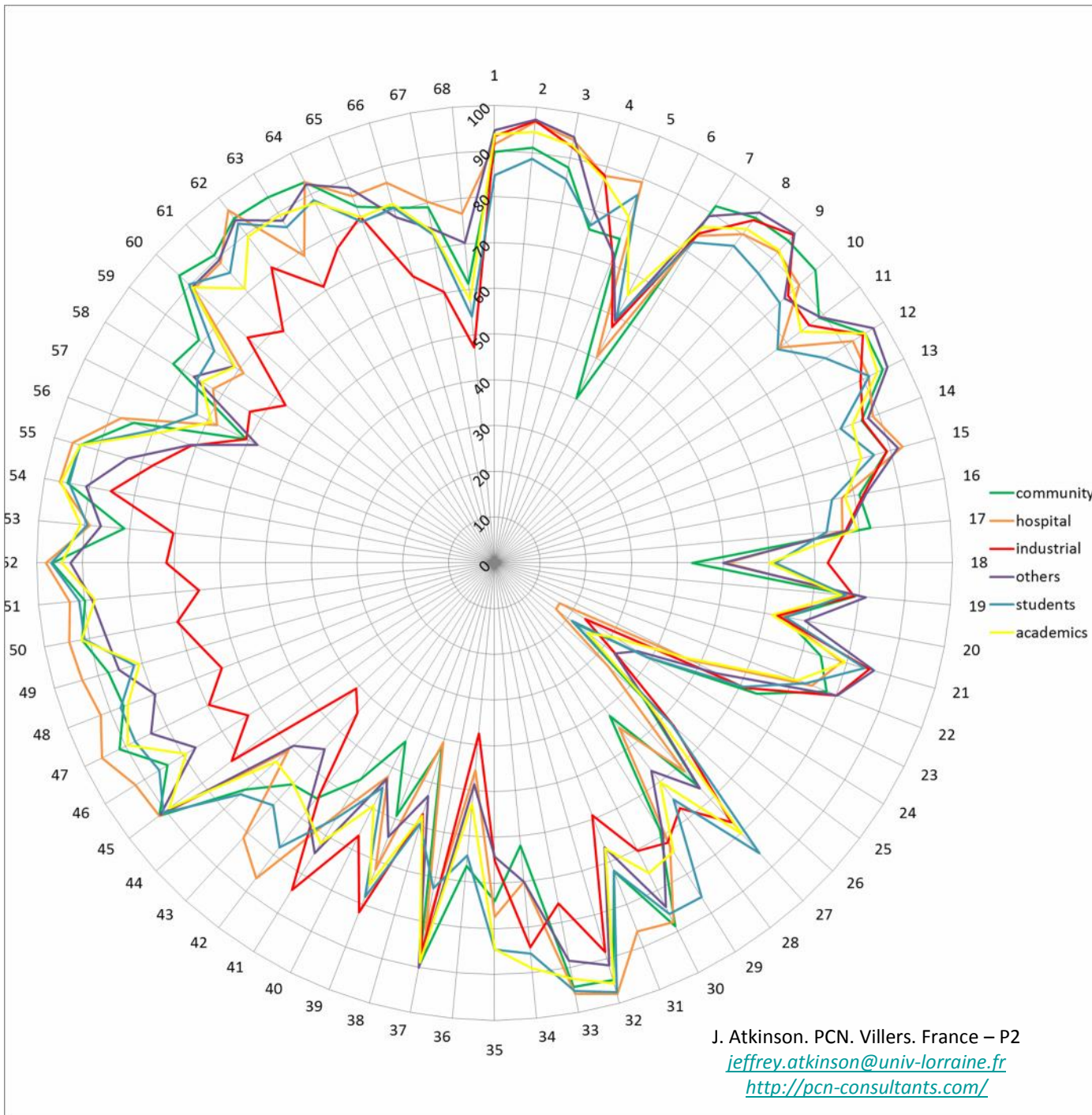
Quality Assurance in Pharmacy Education

Welcome

Dear colleagues,

It is really a great pleasure and honor to host the EAFP 2015 CONFERENCE in the capital of Greece and more in particular at the Faculty of Pharmacy, University of Athens.

I am sure that all of you are quite familiar with the history of Athens and the fact that the foundations of our Civilization, Culture and Education principles have been formed here by our great Philosophers and Mathematicians thousand years ago and they are still



<https://www.surveymonkey.com/r/pharqa2>



PHAR-QA Quality Assurance in European Pharmacy Education and Training

The second European Delphi round on the PHAR-QA competence framework.

Following the 3 Delphi rounds within the PHAR-QA consortium, the first European Delphi round of the **PHAR-QA questionnaire on a competence framework** has now been successfully finished. We have already published a substantial part of the work. Copies of the above are available on the PHAR-QA website at: <http://www.phar-qa.eu/delphi/>. Four other manuscripts are in preparation. The work has also been presented at several international conferences and has stimulated a great deal of interest in our colleagues in the USA, Canada, Australia, New Zealand and the Middle East.

In the light of the above, it is obvious that the PHAR-QA framework is in the process of becoming a major element in European and world-wide pharmacy education.

We are now in the final stages of this project and hereby invite you to evaluate our revised version of the PHAR-QA competence framework.

This is the second Delphi round at the European level. In all, the framework will have been subjected to 5 rounds – 3 within the consortium and 2 at the European level. It is thus the result of extensive consensus amongst the major players in European pharmacy.

The revision is based on the ranking of, and comments on, the first European version. The first version and some of the data obtained are available at: <http://www.phar-qa.eu/delphi/>

The major changes are:

- Questions have been simplified especially regarding matters of treating one topic per question and English expressions
- The section on the subject areas as given in the directive 2013/55/EU (physics, biology...) has been removed as these were not considered finally as “competences”
- Questions on research and industrial pharmacy have been reworked given the level for which this framework is intended: 5-year pharmacy degree – not postgraduate specialisation. The emphasis is on “being aware of” rather than “capable of doing”. Thus by “knowledge” we mean “being aware of”, and by “ability” we mean “capable of doing”.
- This version includes an open-ended question for your suggestions on matters not treated and other comments.

As with the first European round, PHAR-QA will contact academics, students and professionals – pharmacists working in a community, hospital or industrial environment, and pharmacists working in other areas.

We hereby invite you to participate in this survey. The interactive version of the second European round of the survey is available at:

<https://www.surveymonkey.com/r/pharqa2>

Thank you for participating in this survey.



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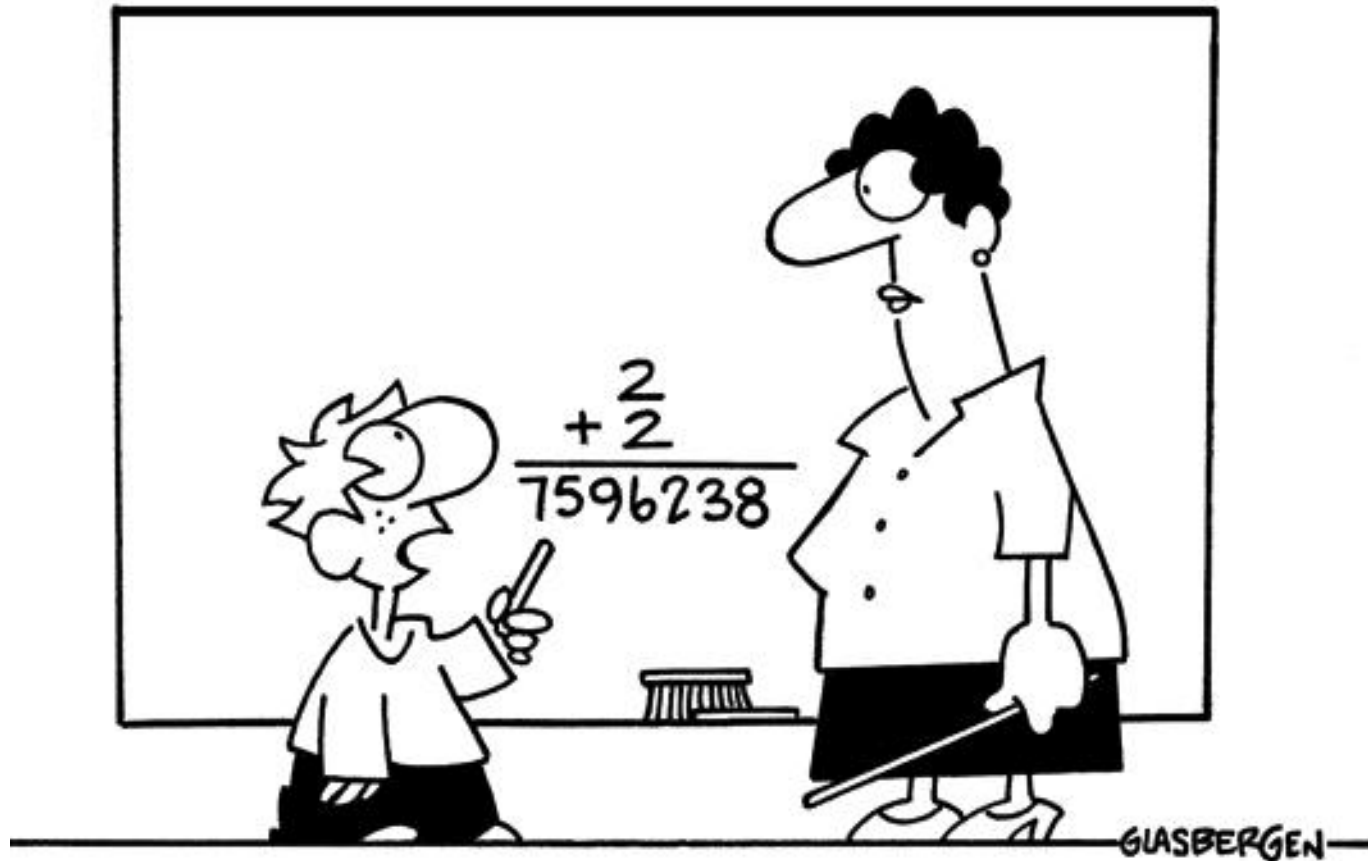
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“In an increasingly complex world, sometimes old questions require new answers.”



ΕΛΛΗΝΙΚΗ ΔΗΜΟΚΡΑΤΙΑ
Εθνικόν και Καποδιστριακόν
Πανεπιστήμιον Αθηνών

