

BEAM Diary Events 2007-2011

Quality in small-scale preparation

Date: 6/10/2011

Venue: Kuopio University Hospital

Description: Presentation (1 hour) of EAHP BEAM Summit Aspects of compounding. What could quality be in our hospital pharmacy?

Delegates: 15 pharmacists

Quality in pharmacy preparation

Date: 29/9/2011

Venue: University of Eastern Finland

Description: Two lectures in one-day seminar "High-quality preparation in pharmacy" by Aducate (www.aducate.fi). 1) Quality in pharmacy preparation -forward step by step, 2) How to plan and document the pharmacy preparation.

Delegates: 40 hospital/community pharmacists around Finland

How to improve SOP's for compounding units of hospital pharmacies

Date: 31/5/2011

Venue: Croatian Pharmaceutical Society, Zagreb, Croatia

Description: Short lecture on how to improve SOP's for compounding units of hospital pharmacies will be part of monthly meeting of hospital pharmacists at the Croatian Pharmaceutical Society. Lecturer: Tihana Kosovec-Hadviger

How to improve SOP's for compounding units of hospital pharmacies

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Delegates: Around 30 hospital pharmacists

Article about Principles of EBM

Date: 10/4/2011

Venue: Kuopio University Hospital

Description: Report from the Evidence-based Medicine Summit 2009 about the principles of EBM. Publication (German and French) in a Swiss Journal for Hospital Pharmacists.

Compounding and quality assurance in hospital pharmacy

Date: 8/12/2010

Venue: Pharmazentrum Basel

Description: university lecture on compounding with focus on GMP and the PIC/S guide to good practices for the preparation of medicinal products in healthcare establishments.

Delegates: 22 students

Annual meeting of Macedonian Association of Hospital Pharmacist

Date: 4-5/12/2010

Venue: Dojran, Macedonia

Description: Presentation about compounding of aseptic preparation for a limited number of patients including TPN. Introduction, cases, group works, presentation of group work.

Delegates: 50 hospital pharmacists

Drug Information and Evidence Based Medicine Seminar for Clinical Pharmacists

Date: 19-21/11/2010

Venue: University Hospital of Erlangen

Description: Three day seminar for hospital pharmacists as part of their continuing education as a clinical pharmacist. Lectures and practical sessions include literature search strategies, introduction to EBM and EBP, tools to evaluate and interpret information and improve communication skills.

Delegates: 28 hospital pharmacists

Aspects of compounding

Date: 14/11/2010

Venue: 14th Annual Congress of hospital pharmacists, Czech republic, Hradec Králové

Description: Workshop for technologists within the 14th Annual congress of hospital pharmacists in Czech Republic. The information about technological and pharmacological aspects of compounding. There were discussed the biopharmaceutical aspects of compounding such as physical, chemical and pharmacokinetical parameters of medicinal substances. There were also mentioned drug information sources. Lector: Sylva Klovřová.

Delegates: approx. 50 hospital pharmacists

Aspects of compounding

Date: 14/11/2010

Venue: 14th Annual Congress of hospital pharmacists, Czech republic, Hradec Králové

Description: The information about this BEAM Summit was presented in the 14th Annual Congress of hospital pharmacists in Czech republic. Basic presentation about Site master file, Product design, Business plan, quality control and risk management of compounding in a hospital pharmacy.

Delegates: approx. 500 of participants

Introduction to BEAM Summit 2010 'Aspects of compounding'

Date: 12/11/2010

Venue: Croatian Pharmaceutical Society, Masarykova 2, 10000 Zagreb, Croatia

Description: The first information about this years BEAM Summit 'Aspects of compounding' will be presented in the hospital pharmacists meeting at the Croatian Pharmaceutical Society on November 12, 2010. Around 30 pharmacists are expected to attend. Plans about the future meetings and lectures are also going to be made. Lecturers: Davorka Draganjac, Tihana Kosovec-Hadviger

Delegates: Around 30 hospital pharmacists

Annual meeting of Finnish Association of Hospital Pharmacists

Date: 10-11/11/2010

Venue: Helsinki

Description: Presentation (3 hours) of EAHP BEAM Summit Aspects of compounding. Topics: 1)Introduction, 2)Site Master File, 3)Business Plan, 4)Premises and equipment, 5)Product design, 6)Packing materials, 7)Quality Assurance, 8)Auditing and monitoring quality control, 9)Patient safety
Lecturers: Auli Korpi and Minna Helin-Tanninen

Delegates: 46 hospital pharmacists

Advanced Studies HMG 2010

Date: 9/11/2010

Venue: Kantonsspital Liestal, Switzerland

Description: Workshop on Risk analysis and labelling of compounded products

Delegates:approx. 40 pharmacists

Workshop EBM

Date: 8/11/2010

Venue: City Conference Stockholm, Sweden

Description: Workshop presented on the National Swedish Medication Congress 8-10 november 2010. Introduction, cases, group works, presentation of group work etc.

Delegates: Mainly pharmacists 30 delegates

Presentation of EAHP BEAM material

Date: 4/11/2010

Description: The eight regional responsible compounding managers as well as national responsible and national quality manager

Delegates: 10 people

Workshop on Clinical Pharmacy and Evidence Based Medicine

Date: 2-3/11/2010

Venue: Hotel Radisson, Trondheim, Norway

Description: A two-day introduction and training course Clinical Pharmacy and the LImm-model (2h) Evidence Based Medicine, introduction (2h) Parkinson disease and DRP (2h) OSCE Communication, Medication history taking with the patient and suggestions for prescription changes with the patient, basics, cases and training(5h) Pharmacotherapy examination, Dyspepsia (2h)

Delegates: Hospital Pharmacists from Mid-Norway, 25 delegates

Annual meeting of Bulgarian Association of Hospital Pharmacists

Date: 29-31/10/2010

Venue: "Kalina Palace" hotel in Trjavna city

Delegates: 110 Bulgarian hospital pharmacists

Pharmacy Practice including teaching basic principles of EBM

Date: 26-27/10/2010

Venue: University Hospital rechts der Isar, Munich, Germany

Description: Workshop and lecture (particularly on the basis of patient case studies) with basic introduction how to find reliable information for making clinical decisions in several pharmacotherapy fields (anticoagulant therapy, treatment of chronic pain) by Christiane Querbach.

Delegates: 10 students in Clinical Pharmacy

Evidence Based Practice: finding the best evidence in 5 minutes

Date: 21/10/2010

Venue: Lyon, France

Description: Workshop during the conference of ESCP (European Society of Clinical Pharmacy) - SFPC (Société Française de Pharmacie Clinique), October 2010, Lyon, France; by Yolande Hanssens, Barbara Claus (for the special interest group Medicine Information)

Delegates: approx. 30 participants

EAHP summit Aspects of Compounding 2010 presentation

Date: 20/10/2010

Venue: 55th National Congress SEFH, Madrid 2010

Description: As "Farmacotecnia Workgroup", presentation of EAHP summit Aspects of Compounding 2010. Survey about aspects of compounding in each hospital from everywhere of Spain. By Carmen López and Catalina Lara.

Delegates: aprox. 120 hospital pharmacists

Aspects of Compounding

Date: 15/10/2010

Venue: East Tallinn Central Hospital

Description: Estonian Society of Hospital Pharmacists (ESHP) organized training for Estonian hospital pharmacists and pharmacy assistants. Topics: 1. What is compounding; 2. Why we have to compound medicines in hospital pharmacy; 3. Quality assurance/control and auditing; 4. Site master file; 5. Drug design; 6. Patient safety; 7. Compounding cytotoxic medicines in the North Estonia Medical Centre; 8. Aseptic preparation in Tartu University Hospital; Lectors: Marika Saar, Kersti Teder and Marko Urbala.

Delegates: 35

Drug Information and Evidence Based Medicine Seminar for Clinical Pharmacists

Date: 15-17/10/2010

Venue: University Hospital of Erlangen

Description: Three day seminar for hospital pharmacists as part of their continuing education as a clinical pharmacist. Lectures and practical sessions include literature search strategies, introduction to EBM and EBP, tools to evaluate and interpret information and improve communication skills.

Delegates:
28 hospital pharmacists

Introduction to BEAM Compounding

Date: 12/10/2010

Description: The eight regional responsible compounding managers as well as national responsible and national quality manager

Delegates: 8 people

Lecture “Drug Information – An Update for pharmacists”

Date: 4/10/2010

Venue: Hospital Schwabing Munich, Germany

Description: Lecture with introduction in evidence-based-medicine, online-presentation of web-based essential resources for medicines information with free access, explanation of basic concepts of critical appraisal (e.g. NNT, NNH, CI) on the basis of a clinical study and explanation of pitfalls in Drug Information (90 minutes). Lectures by Christiane Querbach.

Delegates: 10 hospital pharmacists

EAHP Academy BEAM Summit - Aspects of Compounding

Date: 23-26/9/2010

Venue: The Hague, Netherlands

Delegates:53

Lecture and Workshop “Drug Information – An Update for pharmacists”

Date: 8/8/2010

Venue: University Hospital rechts der Isar, Munich, Germany

Description: 1) Lecture with introduction in evidence-based-medicine, online-presentation of web-based essential resources for medicines information with free access, explanation of basic concepts of critical appraisal (e.g. NNT, NNH, CI) on the basis of a clinical study and explanation of pitfalls in Drug Information (90 minutes). 2) Getting to know and using above-mentioned resources on the basis of two patient cases (120 minutes) 3) Summary of the results in a final panel discussion (30 minutes) Workshop and Lectures by Christiane Querbach and Dr. Sabine Krebs.

Delegates: 30 hospital and community pharmacists

Lecture and Workshop “Drug Information – An Update for pharmacists”

Date: 7/8/2010

Venue: University Hospital Erlangen, Germany

Description:1) Lecture with introduction in evidence-based-medicine, online-presentation of web-based essential resources for medicines information with free access, explanation of basic concepts of critical appraisal (e.g. NNT, NNH, CI) on the basis of a clinical study and explanation of pitfalls in Drug Information (90 minutes). 2) Getting to know and using above-mentioned resources on the basis of two patient cases (120 minutes) 3) Summary of the results in a final panel discussion (30 minutes) Workshop and Lectures by Christiane Querbach and Dr. Sabine Krebs

Delegates: 20 hospital and community pharmacists

Meeting with paediatricians regarding the pain management in children

Date: 15/7/2010

Venue: Paediatric hospital

Description: We had a discussion with the paediatricians about the pain management in children with the renal failure.

Delegates: 3 paediatricians

Points to consider in the evaluation of biosimilars

Date: 25/6/2010

Venue: University Hospital (HUG), Geneva, Switzerland

Description: This presentation was part of a continuing education program for hospital pharmacists (Clinical pharmacology and toxicology points, Master in hospital pharmacy, 23-25.6.2010). Discussed

topics: definitions, efficacy and safety of biologicals, EMEA guidelines, points to consider in the evaluation of biosimilars, formulary and substitution

Delegates: Hospital pharmacists

NNT, NNH, RRA, RRR, Odds ratio: Un peu de statistique appliquée

Date : 23/6/2010

Venue: University Hospitals of Geneva

Description: 2 hours of theoretical and practical workshop about NNT, NNH, RRA, RRR and OR calculation and interpretation. Included in a more general seminar of 3 days about clinical pharmacology and toxicology for swiss-french hospital pharmacists, and organized with clinical pharmacologists physicians.

Evidence Based Medicine Seminar for Hospital Pharmacists

Date: 17-18/6/2010

Venue: University of Patras, Patras, Greece

Description: A two-day educational course program for hospital pharmacists, organized by the Pan-Hellenic Association of Hospital Pharmacists (PEFNI). TOPIC and TUTOR: DAY ONE Welcome Goal of the seminar. The experience of Europe (0.5 hour) V. AGGELOPOULOU- V. GOULAS Acquaintance of the group Introduction to the EBM clinical practice concepts, specifications and necessity in a changeable health system (1 hour) C. LIONIS Sources of validation. Formation of the clinical question. Methods of researching (2 hours) D. TSIGRIS Bibliographic research in the EBM clinical practice (1.5 hours) A. TSATSIONI Analysis and taking of the clinical decision base in EBM. Practical or utopia? (1.5 hour) C. LIONIS DAY TWO Quality and security systems in information research at hospital level (1 hour) P. KOSTAGIOLAS EBM' s role in Pharmacoeconomics (1 hour) V. FRAGOULAKIS Case studies (3 hours) C. LIONIS- D. TSIGRIS- A. TSATSIONI EBM and information necessities for hospital pharmacists (0.5 hour) V. AGGELOPOULOU Summary of the hospital pharmacist's role in EBM. Goals for the future (0.5 hour) V. GOULAS End of seminar Evaluation data are available on demand.

Delegates: 30 Hospital Pharmacists

Biologicals do not consist of protein alone - Biopharmaceutical and pharmacological impact of glycosylation, PEGylation and other protein modifications

Date: 27/5/2010

Venue: Allegro Gand Casino, Berne, Switzerland

Description: Biotech forum of Swiss hospital pharmacists. Half-day educational course. Course directors: Dr. Peter Wiedemeier, Chief pharmacist of the hospital pharmacy of the cantonal Hospital Baden and Prof. Dr. Bruno Gander, Senior Scientist at the Institute of Pharmaceutical Sciences, ETH Zurich, Switzerland. 1) Glycosylation-activity relationship of modern biologicals; Presenter: Dr. Vivianne Otto, ETH Zürich. 2) Pharmacokinetic and biopharmaceutical aspects of biologicals and how they can be influenced; Presenter: Dr. Stefanie Krämer, ETH Zürich.

Delegates: 33 hospital pharmacists

Biosimilars

Date: 11/5/2010

Venue: Pharmacy of the university hospital of Geneva (HUG), Switzerland

Description: Discussed topics: Definitions, processing of biologicals, efficacy and safety, EMEA guidelines for biosimilars

Delegates: Hospital pharmacists and pharmacy technicians

Pharmacy Practice including teaching basic principles of EBM

Date: 27-28/4/2010

Venue: University Hospital rechts der Isar, Munich, Germany

Description: Workshop and lecture (particularly on the basis of patient case studies) with basic introduction how to find reliable information for making clinical decisions in several pharmacotherapy fields (anticoagulant therapy, treatment of chronic pain) by Christiane Querbach

Delegates: 10 students in Clinical Pharmacy

Evidence based medicines for ward Pharmacist, Specialization program for hospital pharmacists

Date: 24/4/2010

Venue: Oulu, Finland

Description: Finnish specialisation programme for hospital pharmacists in the wards. One lecture about evidence based medicines and patient information. Lecture: Tiina KOskinen

Delegates: 20 hospital pharmacist

Drug Information and Evidence Based Medicine Seminar for Clinical Pharmacists

Date: 16-18/4/2010

Venue: University Hospital of Erlangen

Description: Three day seminar for hospital pharmacists as part of their continuing education as a clinical pharmacist. Lectures and practical sessions include literature search strategies, introduction to EBM and EBP, tools to evaluate and interpret information and improve communication skills.

Delegates:

28 hospital pharmacists

Evidence Based Practice - for the busy hospital pharmacist

Date: 14/4/2010

Venue: University of Southern Denmark, Odense

Description: One-day course for hospital pharmacist in Denmark conducted by Ulla Hedegaard and Allan Schroeder. 18 hospitals pharmacists participated. The issues for the lectures were: Why evidence based medicine?; Types of evidence; Efficacy measures; How do I find the best evidence; Communication of evidence. Following the lectures there was a two hours "hands-on" session including literature search and role play with communication of EBM.

Delegates: Hospital Pharmacist in Denmark

Evidence based medicines for Hospital Pharmacists

Date: 18-19/3/2010

Venue: Helsinki, Finland -Tallin, Estonia

Description: The spring meeting of Finnish Association of Hospital Pharmacist (Satefa ry). One day session including topics like introduction to EBM and EBP, tools to evaluate medicines information, communication skills and the role of pharmacist in UK (as an example of clinical pharmacy). Lectures: T Koskinen, K Ojanperä.

Delegates: 60-100 Hospital pharmacists

Evidence Based Practice - for the busy hospital pharmacist

Date: 18/3/2010

Venue: Århus, Denmark

Description: One-day course for hospital pharmacist in Denmark conducted by Ulla Hedegaard and Allan Schroeder. 14 hospitals pharmacists participated. The issues for the lectures were: Why evidence based medicine?; Types of evidence; Efficacy measures; How do I find the best evidence; Communication of evidence. Following the lectures there was a two hours "hands-on" session including literature search and role play with communication of EBM.

Delegates:

Hospital Pharmacist in Denmark

Pratique basée sur les preuves: apports théoriques et pratiques

Date : 2-3/3/2010

Venue : University Hospital of Geneva

Description: 1 session of 1 hour with theoretic basis of EBM (types of studies, ARR, RRR, RR, NNT, NNH, OR, P-value, CI). 1 following session of 2 hours in a computerized learning room with practical exercise with NPCI and BMJ e-learning modules, and drawing "Visual Rx" of nntonline.

Evidence Based Medicine and Pharmacy Practice

Date: 26/2/2010

Venue: Aesculap Academy, Budapest, Hungary

Description: A one-day course on EBM was organized by the Hungarian Society of Hospital Pharmacists. 4 hours of lecture on Evidence Based Medicine and Pharmacy Practice by Andras Fittler and Peter Doro. 3 hours of lectures by invited professors on evidences of different treatment areas (statins, myocardial infarction, stroke).

Delegates: 75 hospital pharmacists

Workshop: Evidence Based Practice: finding evidence in 5 minutes

Date: 23/2/2010

Venue: Het Godshuis, Sint Laureins, Belgium

Description: Workshop organized by the Belgian Association of Hospital Pharmacists at the annual meeting day: "Day of the Hospital Pharmacist". The workshop is scheduled 2 times that day
teacher/moderator: Barbara Claus

Delegates: 25-30 participants/workshop

EBM Seminar for Hospital Pharmacists

Date: 14/2/2010

Educational Course for Hospital Pharmacists - Literature search und evaluation

Date: 22-23/1/2010

Venue: Medical University Vienna, Austria

Description: As a part of the Educational Course for Hospital Pharmacists - Literature search und evaluation; the topic on EBP was presented.

Delegates: 25

Evidence Based Practice - for the busy hospital pharmacist

Date: 19/1/2010

Venue: University of Southern Denmark, Odense

Description: One-day course for hospital pharmacist in Denmark conducted by Ulla Hedegaard and Allan Schroeder. 18 hospitals pharmacists participated. The issues for the lectures were: Why evidencebased medicine?; Types of evidence; Efficacy measures; How do I find the best evidence; Communication of evidence. Following the lectures there was a two hours "hands-on" session including literatur search and role play with communication of EBM.

Delegates: Hospital Pharmacist in Denmark

Communicating EBM

Date: 27/11/2009

Venue: Uppsala University, Uppsala, Sweden

Description: A session about communicating EBM has been added to the curriculum of the Swedish MSc course in Clinical Pharmacy. Similarly to Dawn Dowding's session at the EBM summit meeting this course element consists of a lecture followed by patient cases that the students prepared and presented to a fictive doctor.

Delegates: 12 MSc students in Clinical Pharmacy

Drug Information and Evidence Based Medicine Seminar for Clinical Pharmacists

Date: 20-22/11/2009

Venue: University Hospital of Erlangen

Description: Three day seminar for hospital pharmacists as part of their continuing education as a clinical pharmacist. Lectures and practical sessions include literature search strategies, introduction to EBM and EBP, tools to evaluate and interpret information and improve communication skills.

Delegates: 28 hospital pharmacists

Fido Möll Memorial Forum

Date: 19/11/2009

Venue: Hotel Park Hyatt, Zürich

Description: Biotech forum of Swiss hospital pharmacists. Half-day educational course. Course directors: Dr. Peter Wiedemeier, Chief pharmacist of the hospital pharmacy of the cantonal Hospital Baden and Prof. Dr. Bruno Gander, Senior Scientist at the Institute of Pharmaceutical Sciences, ETH Zurich, Switzerland. 1)Obituary of Fido Möll passed away on January 21, 2009; Presenter: Prof. B. Gander, ETH Zürich. 2) Oncology and biologicals: who profits? Presenter: Dr. med. M. Pless (hospital Winterthur). 3) Biologicals: What are the challenges for hospital pharmacists? Presenter: Dr. P. Wiedemeier, Hospital Baden. 4) Biologicals: Their used viewed from the perspective of a care unit; Presenter: S. Brown.

Delegates: 42 hospital pharmacists

Evidence based medicine in the practice of hospital pharmacists in the Czech Republic

Date: 14/11/2009

Venue: Veletrhy Brno, Czech Republic

Description: Workshop related to basic lecture; searching for reliable sources of information; interpretation of study results. Interested colleagues were provided with a list of public information resources and definitions of basic terms and calculations.

Delegates: 30 hospital pharmacists

Evidence based medicine in the practice of hospital pharmacists in the Czech Republic

Date: 14/11/2009

Venue: Veletrhy Brno, Czech Republic

Description: Basic lecture of EBM, critical appraisal of literature, searching for reliable evidence within 13th Annual congress of the hospital pharmacists

Delegates: approx. 500 attendants of the congress

From EBM to EBP

Date: 14/11/2009

Venue: Vienna, Austria

Description: half-day lecture for hospital pharmacists in Austria; together with Gunar Stemer.

Delegates: app. 30

XIV. Congressus Pharmaceuticus Hungaricus

Date: 13-15/11/2009

Venue: Budapest Congress & World Trade Center, Budapest Hungary

Description: The most important national and also international congress for Hungarian pharmacists, with around one thousand participants. Nearly a 100 lectures, seminars and group sessions in various

topics will be held during the three days. Hospital pharmacists will attend a lecture titled “Pharmacists role in supporting clinical pharmacotherapy with the aid of Evidence Based Medicine”.

Delegates: approx 100 hospital pharmacists

Clinical Skills Course Part 2

Date: 10-11/11/2009

Venue: Kildare, Ireland

Description: A two day course comprising of interactive seminars and workshops about evidence based practice and it's implementation by hospital pharmacists

Delegates: 30 Hospital Pharmacists

Regular ICU morning visit

Date: 27/10/2009

Venue: ICU

Description: Discussion about use of vitamin supplements in ICU environment - from where to find evidence

Delegates: ICU physicians

Drug Information and Evidence Based Medicine Seminar for Clinical Pharmacists

Date: 23-25/10/2009

Venue: University Hospital of Erlangen

Description: Three day seminar for hospital pharmacists as part of their continuing education as a clinical pharmacist. Lectures and practical sessions include literature search strategies, introduction to EBM and EBP, tools to evaluate and interpret information and improve communication skills.

Delegates: 28 hospital pharmacists

Critical appraisal of a clinical trial article

Date: 22-23/10/2009

Venue: Eurobuilding Hotel, Madrid, Spain

Description: Workshop targeted to 2nd year residents of Hospital Pharmacy with the aim of initiate them in critical appraisal skills.

Delegates: Residents in Hospital Pharmacy

Search, selection and critical appraisal of medical information (2nd Edition)

Date: 21-29/10/2009

Venue: DEVIS Center, Alcazar de San Juan (Ciudad Real), Spain

Description: Course about finding, selecting and evaluation medical information to make clinical decisions. Program: 21 October, How to search information, where to search; Evidence-Based Medicine; Clinical Practice Guidelines. 22 October: Study designs; Study types, Clinical Trials; Diagnostics studies; Systematic Reviews; Observational studies. 28 October: Critical appraisal of a clinical trial article. 29 October: Critical appraisal of a systematic review article. Organized by: Dolores Fraga.

Delegates: 15 hospital pharmacists and physicians

Poland article " Szkolenie EBM"

Date: 20/10/2009

Description: Poland - Article "Szkolenie EBM" Article was published on the first professional web-service for polish hospital pharmacists www.aptekaszpitalna.pl on 20 th October 2009. It is composed of information not only about the Summit but also about the Evidence Based Madicine together with a few very useful links. MPharm Anna Zajączkowska-Dutkiewicz, MPharm Dariusz Smoliński.

Evidence Based Medicine in Pharmacy Practice

Date: 30/9/2009

Venue: University of Szeged

Description: Seminar targeted to pharmacy residents introducing them how and where to search reliable information, and how to appraise critically the information

Delegates: 25 pharmacy residents

Biotechnology an introduction

Date: 24/9/2009

Venue: Roxburghe hotel Edinburgh

Description: NHS Education for Scotland organised event designed as an introduction to Biopharmaceuticals. Topics discussed included introduction to biotechnology, the science of biopharmaceuticals, safe and secure handling, therapeutic uses cancer and inflammatory disease. Discussion forum on educational requirements of pharmacy staff. Programme designed by Norman Lannigan.

Delegates: 30 pharmacists hospital and community

EurAHP Evidence Based Medicine: Decision making, risk communication and assessment psychology aspects

Date: 22-25/10/2009

Venue: Congress Palace, Zaragoza, Spain

Description: In the 54th Annual Congress of the Spanish Society of Hospital Pharmacy, talk given by Dolores Fraga (1 h)

Delegates: 35 hospital pharmacists

Teaching basic principles of critical appraisal

Date: 17/9/2009

Venue: Edinburgh University

Description: Workshop session held at the UKMi (UK Medicines Information) Professional Development Seminar, looking at the different principles to consider when looking at trial results and how to explain these to others. The participants were put into small groups and given a principle to discuss, and then had to teach this to another group using simple examples. The principles included loss to follow-up, why randomised controlled trials are the gold standard, intention-to-treat versus per-protocol analyses, how to explain results in an understandable way (number needed to treat, for example), 95% confidence intervals and P values, and issues to consider before extrapolating trial results to the wider population. The intention of the workshop was to strengthen and develop understanding of critical appraisal so that participants are able to understand trial results and associated terms when reported in summaries, and

what should be borne in mind when applying these in practice. By having to explain the principles to each other they will hopefully gain a better understanding themselves.

Delegates: 25

Positioning drugs in therapeutic guides and clinical protocols

Date: 28-29/11/2008

Venue: Intur Hotel, Alcázar de San Juan (Ciudad Real), Spain

Description: Educational course target to hospital pharmacists (IV Meeting of the Castellano-Manchega Society of Hospital Pharmacists). Organized by: Dolores Fraga.

Delegates: 40 hospital pharmacists

Biopharmaceuticals – challenge for hospital pharmacy today and in the near future

Date: 12/11/2008

Venue: Joensuu Central Hospital, Dept of Pharmacy, North Carelia Hospital District, Finland

Description: One day educational course, program: Protein drugs, route of administration, recombinant proteins (1 hour), Monoclonal antibodies (1hour), Handling in the pharmacy (1 hour), Biosimilars (1 hour), Gene Therapy, EAHP Gene Medicine Guidance (1 hour)

Delegates: 18

Intravenous Immunoglobulines (IVIG's) and Pharmacovigilance of Biopharmaceuticals

Date: 6/11/2008

Venue: Park Hotel Zuerich, Switzerland

Description: Biotech Forum of Swiss hospital pharmacists. A half day educational course, organized by Dr. Friedrich Moell. Part I: technology of IVIG's, presenter Mrs Dr. L. Hoefferer, CSL. Part II: Clinics of IVIG's, presented by Mrs Dr. I. Andresen, CSL. Part III: Pharmacovigilance of Biopharmaceuticals, presented by Prof Dr. W.J. Pichler, University hospital of Berne.

Plenary Lecture about Biologics/Biosimilars

Date: 4-8/11/2008

Venue: Centro de Congressos do Estoril, Portugal

Description: During the first week of November Portuguese hospital pharmacists will meet in their national congress In Cascais – Lisboa and there will be a Plenary Lecture about biologics/Biosimilars for an attendance of nearly 350 pharmacists.

Delegates: 350

Biopharmaceuticals in hospital pharmacy

Date: 15-17/10/2008

Venue: Chandris Hotel, Corfu, Greece

Description: EVENT SUMMARY : A three-day educational course program, organised by the Panhellenic Association of Hospital Pharmacists (PEFNI) and the Lab of Pharmacology, Dept of Pharmacy, Aristotle University of Thessaloniki. Curriculum (programme in Greek attached): TOPIC LECTURER PRESENTATION Molecular biotechnology (1 hour), A.S. TSIFTSOGLU 1.1 Protein drugs and recombinant proteins (2 hours), L. PAPADOPOULOU 1.2, 1.3 Production, Formulation, route of administration and PK/PD of biopharmaceuticals (3 hours), P. DEDES 1.4, 2.1, 2.2 Clinical Immunology, Drug design and Monoclonal antibodies (2 hours), I. PAPPAS L. PAPADOPOULOU 2.3, 2.4 Safety: Incompatibilities, Interactions, Immunogenicity, Pharmacovigilance (1 hour), I. VIZIRIANAKIS 2.5 Clinical trials (1 hour), A.S. TSIFTSOGLU 2.6 Biosimilars (1 hour), A.S. TSIFTSOGLU 2.7 Handling in the pharmacy (1 hour), D. GENNIMATA 2.8 Risk management programmes (1 hour), Z. DEDE 2.9 Biopharmaceutical summit challenge (3 hours) ALL 3 Dossier including all presentations and faculty CVs in print and a copy of the Malta CD was distributed to the participants. A CD including all Corfu presentations is promised. Educational Impact (Questionnaire in Greek and Challenge Description attached) The educational impact was estimated by A) asking participants to answer 43 relative to the course questions (EurAHP QUESTIONNAIRE) before and after the seminar and B) participating in the challenge (scenario and list of evaluation criteria, in relation to the challenge are attached). Results are not ready, yet, but will be soon Evaluation (questionnaires in Greek attached) All four (4) sessions (Wednesday evening, Thursday morning, Thursday evening, and Friday morning) and the entire course were evaluated, using the EurAHP evaluation templates. Results are ready and available from the EurAHP Steering Committee, on demand

Delegates: 19 hospital pharmacists + 7 faculty members

Biopharmaceuticals, Biosimilars & Evaluation of Biopharmaceuticals by hospital pharmacists - what really matters is patient safety

Date: 8/10/2008

Venue: University of Berne, Langhans Auditorium; Switzerland

Description: Two lectures given by Prof. G. Borchard (Lausanne-Genf) and by Dr. Friedrich Moell (Winterhur) for Master and PhD Students as well as postdocs of all three Swiss University Institutes for Pharmaceutical Sciences (Zuerich, Basel, Lausanne-Genf).

Delegates: 70

Article in Slovak: Biopharmaceuticals in Oncology. In journal Oncology (Slovak)

Date: 30/9/2008

Description: SÝKORA, J.: Biologické lieky v onkológii (Biopharmaceuticals in oncology). In Onkológia (Bratisl.). ISSN 1336-8176, 2008, 3, No. 3, p. 182 – 186.

4. Novartis Symposium für Klinikapotheker

Date: 12/9/2008

Venue: Warnemünde

Description: Talk given by Irene Krämer: Biosimilars - Ethik and Monetik

Delegates: hospitals pharmacists

Biopharmaceuticals – challenge for hospital pharmacy today and in the near future

Date: 9/9/2008

Venue: Savonlinna Central Hospital, Dept of Pharmacy, Itä-Savo Hospital District, Finland

Description: A one day educational course, program: Protein drugs, route of administration, recombinant proteins (1 hour), Monoclonal antibodies (1 hour), Handling in the pharmacy (1 hour), Biosimilars (1 hour), Gene Therapy, EAHP Gene Medicine Guidance (1 hour). Primary evidence: an appendix, the names of participants

Delegates: 8

68th International Congress of FIP Basel

Date: 2-4/9/2008

Venue: Basel

Description: Biosimilars: From Science to practice Talk given by Irene Kraemer: Case Studies and EAHP checklist

Delegates: 200 pharmacists

4 Times organized by the chamber of pharmacies in the state of Rheinland-Pfalz in Koblenz, Trier (26.08.2008), Mainz 28.08.2008) and Neustadt (22.10.2008)

Date: 20/8/2008

Venue: Koblenz

Description: Talk given by Irene Krämer: Biosimilars

Delegates: local pharmacists and hospital pharmacists

34th Pharmacy Days, Slovakia

Date: 26-27/6/2008

Venue: Nový Smokovec, Slovakia

Description: 34th Pharmacy Days, June, 26-27, 2008, in Nový Smokovec, Slovakia, 220 participants, Authors and title of the lecture: ČERNUŠKOVÁ, L., SÝKORA, J.: Biologické lieky (Biopharmaceuticals). Abstracts of the conference XXXIV. lekárnické dni, Nový Smokovec, 26.- 28. jún 2008. In Farm Obz. ISSN0014-8172, 2008, roč. 77, č. 7-8, s. 193 – 194.

Delegates: 220 participants

Formulation and Pharmacokinetics of Biopharmaceuticals

Date: 5/6/2008

Venue: Berne, Switzerland

Description: Biotech forum of Swiss hospital pharmacists. Half-day educational course. Course director: Dr. Friedrich Möll, Chief pharmacists of the Hospital Pharmacy of Winterthur, Switzerland. Part I: Formulation and stability issues of biopharmaceuticals; presenter: Prof. Dr. Bruno Gander, ETH Zurich, Switzerland; Part II: Pharmakokinetik/pharmakodynamik of protein therapeutics; Presenter: Prof. Dr. med. Stephan Krähenbühl, University of Basel, Switzerland

Delegates: 33 (mostly seniors)

Biopharmaceuticals

Date: 4/6/2008

Venue: Vienna

Description: Educational program organised by the Association of Austrian Pharmacists: general introduction and legal aspects (0,5 hour), basics of biotechnology - recombinant DNA technology (1 hour), basics of processing - quality control - formulation (1,5 hour)- Biosimilars and Handling in the pharmacy and future aspects (1,5 hour)

Delegates: 47

Article in Slovak: Biopharmaceuticals and Biosimilars. In journal Farmaceutický Obzor (Slovak)

Date: 31/5/2008

Description: SÝKORA, J., SZÜCSOVÁ, S., ČERNUŠKOVÁ, L.: Biologické lieky a podobné biologické lieky. (Biopharmaceuticals and Biosimilars) In Farm Obz. ISSN0014-8172, 2008, 77, No. 5, p. 109 – 115.

Westerwald Forum, organized by Amgen

Date: 16-17/5/2008

Venue: Grenzau, Germany

Description: Talk given by Irene Krämer: Biosimilars oder Ähnliches ist nicht das Selbe

Delegates: physicians specialists in haemato-oncology

Biopharmaceuticals – challenge for hospital pharmacy today and in the near future

Date: 13/5/2008

Venue: Kuopio University Hospital, Kuopio, Finland

Description: In-hospital-training program: Part 5/5: Gene Therapy, EAHP Gene Medicine Guidance (1 hour) (lecture 13/05/2008 and repeat lecture 21/05/2008). Primary evidence: an appendix, the names of participants

Delegates: 37

Biopharmaceuticals – challenge for hospital pharmacy today and in the near future

Date: 6/5/2008

Venue: Kuopio University Hospital, Kuopio, Finland

Description: In-hospital-training program: Part 4/5: Biosimilars (1 hour), (lecture 06/05/2008 and repeat lecture 07/05/2008). Primary evidence: an appendix, the names of participants

Delegates: 39

Biopharmaceuticals – challenge for hospital pharmacy today and in the near future

Date: 29/4/2008

Venue: Kuopio University Hospital, Kuopio, Finland

Description: In-hospital-training program: Part 3/5: Handling in the pharmacy (1 hour) (lecture 29/04/2008 and repeat lecture 30/04/2008). Primary evidence: an appendix, the names of participants

Delegates: 38

Biopharmaceuticals – challenge for hospital pharmacy today and in the near future

Date: 22/4/2008

Venue: Kuopio University Hospital, Kuopio, Finland

Description: In-hospital-training program: Part 2/5: Monoclonal antibodies (1hour), (lecture 22/04/2008 and repeat lecture 23/04/2008). Primary evidence: an appendix, the names of participants

Delegates: 42

Gene Therapy: PTQA Course

Date: 22/4/2008

Venue: Aston University, Birmingham, UK

Description: Pharmaceutical handling and regulations pertaining to gene therapy products

Delegates: 16

1º Curso de Medicamentos Biológicos da APFH

Date: 18-19/4/2008

Venue: Coimbra

Delegates: 17

Terminology and basic methods of biotechnology

Date: 18/4/2008

Venue: Hotel Palatinus, Pécs, Hungary

Description: XVI. Congress of Hospital Pharmacists. This 45 minutes planar presentation was held at the biannual national congress of Hungarian hospital pharmacists.

Delegates:
250-300 hospital pharmacists

Workshop Pharmazie und Industrie, organized by Roche Pharma

Date: 17/4/2008

Venue: Heidelberg, Germany

Description: Talk given by Irene Krämer: Original vs. Biosimilar, Entscheidungsfindung im Krankenhaus (decision making in the hospital)

Delegates: 50 hospital pharmacists

Introduction to Biopharmaceuticals, Msc. Pharm. Thomas Croft Buck

Date: 12-13/4/2008

Venue: Bygholm Horsens

Description: Use of biopharmaceuticals in treatment of rheumatoid arthritis. Prof. MD Bent Deleuran, Århus Universitet Change of paradigm from low molecular drugs to macro molecular drugs. Msc. Pharm Phillip Hansen , CMC Concult Drug design and production of biopharmaceuticals, Msc. Pharm Phillip Hansen , CMC Concult Biosimilars and drug safety, MD. Steffen Thirstrup, Danish Drug Agency Immunogenicity of biopharmaceuticals . Prof. MD. Klaus Bendtzen, Poster session Are biopharmaceuticals cost-effective? Prof. Jan Sørensen, University of Southerndenmark Ovariecancer – use of biopharmaceutical in the future. MD. Karina Dahl Steffensen, Vejle Sygehus The participators from Malta (including myself) were organizers and Chairmen. The speakers we Danish experts in the field of Biopharmaceuticals.

Delegates: 250

Biopharmaceuticals – challenge for hospital pharmacy today and in the near future

Date: 9/4/2008

Venue: Kuopio University Hospital, Kuopio Finland

Description: In-hospital-training program: Part 1/5: Protein drugs, route of administration, recombinant proteins (1 hour), (lecture 09/04/2008 and repeat lecture 17/04/2008). Primary evidence: an appendix, the names of participants

Delegates: 43

Biosimilars and Patient Safety

Date: 4/4/2008

Venue: Congres Centre Kursaal, Bern, Switzerland

Description: A full day course for different authorities and medical persons: the first "official" course about biosimilars in Switzerland, organized by the Swiss Biotech association and the Swiss department of Education. Speakers were: Prof. F. Wurm, ETH Lausanne; Prof. H Schellekens, University of Utrecht; Mrs. Dr. M. Weise, Bfarm Bonn; Dr. B. Schmid, Swissmedic Bern; Dr. F. Moell, Hospital Pharmacy of Winterthur; Dr. J. Scherrer.

Delegates: ca. 80

Licensing biotech products in Hungary

Date: 28/3/2008

Venue: University of Pécs, Pécs, Hungary

Description: A seminar held for resident pharmacists. The seminar covered the whole pipeline of a biotech product from the formulation till licensing.

Delegates: 20 resident pharmacists

Biotechnology study day for hospital pharmacists and technicians

Date: 19/3/2008

Venue: Aston University, Birmingham, UK

Description: Study day for hospital pharmacists and technicians

Biotechnology Study Day for Hospital Pharmacy Staff

Date: 19/3/2008

Venue: Aston University, Birmingham, UK

Description: Gene therapy, monoclonal antibodies, vaccines, risk assessment, handling and cleaning validation for biological.

Delegates: 30

Regional Pharmacy Conference, Bratislava, Slovakia

Date: 15/3/2008

Venue: Bratislava, Slovakia

Description: Regional Pharmacy Conference in Bratislava, March 15, 2008, 78 participants. Title of the lecture: „Biopharmaceuticals and biosimilars – impact on pharmacists“.

Delegates: 78 participants

Biopharmaceuticals – challenge for hospital pharmacy today and in the near future

Date: 13/3/2008

Venue: Helsinki. Finland

Description: A one day educational course, program: Protein drugs, route of administration, recombinant proteins (1 hour), Monoclonal antibodies (1 hour), Handling in the pharmacy (1 hour), Biosimilars (1 hour), Gene Therapy, EAHP Gene Medicine Guidance (1 hour) at the Spring Meeting of Finnish Hospital Pharmacists (The Finnish Pharmacists' Association) in Helsinki. Primary evidence: an appendix, the names of participants

Delegates: 40

Production and downstream processing/purification of biotech, preparations

Date: 7/3/2008

Venue: Central Hospital Budapest Hungary

Description: expression system, cultivation system, downstream processing

Delegates: 70 hospital pharmacists

Formulation of biotech Products, including Biopharmaceutical Considerations

Date: 7/3/2008

Venue: Central Hospital Budapest Hungary

Description: Microbiological considerations, excipients, buffer components, routes of administration, delivery of proteins

Delegates: 70 hospital pharmacists

Administration, handling of biopharmaceuticals: how to give professional information

Date: 7/3/2008

Venue: Central Hospital, Budapest, Hungary

Description: Seminar for hospital pharmacists

Delegates: 70 hospital pharmacists

Production and purification of biopharmaceuticals

Date: 7/3/2008

Venue: Central Hospital, Budapest, Hungary

Description: Seminar for hospital pharmacists

Delegates: 70 hospital pharmacists

Pharmaceutical Biotechnology, Paper prepared for Scottish Directors of Pharmacy

Date: 7/3/2008

Description: Presentation made to Directors of Pharmacy Group Purpose of Report: To raise awareness of Directors of Pharmacy of the challenges for pharmacy which lie ahead in managing the increasing number of pharmacotherapeutic options which involve biotechnology and to suggest a number of actions they may wish to consider to prepare the service to address these challenges. Background: In recent years biotechnology drug products have gained a major share of prescribed pharmaceuticals. These drug products include peptides and proteins, including monoclonal antibodies and antibody fragments, as well as antisense oligonucleotides and DNA preparations for gene therapy. From 2000-2006, biologics accounted for 33% of all new active substances that were launched and this is reflected to a similar degree in the current development pipelines of the pharmaceutical industry. Drug products such as erythropoietin-alpha (Epogen, Eprex, Procrit), abciximab (ReoPro), interferons-alpha (Intron A, Roferon A), interferons-beta (Avonex, Rebif, Betaseron), anti-TNF-alpha agents (Embrel, Remicade, Humira), and trastuzumab (Herceptin) are all examples of successful pharmaceutical biotechnology which are now in routine clinical practice. Pharmaceutical Biotechnology is not new with the first approved product recombinant human insulin being approved by the Federal Drugs Agency (FDA) in 1982. Since then and as of October 2006 more than 250 new active substances and vaccines have been approved for over 400 indications. Scientific education of pharmacists has, by and large, concentrated on the chemistry of drug molecules of low molecular weight. Proteins are very high molecular weight very complex molecules whose pharmacological activity is governed by their size, three dimensional shape and internal interactions. They are very susceptible to degradation and to changes in activity resulting from differences in the production process and from the formulation. All of this presents new challenges for the pharmacy service in understanding these issues to inform safe handling and procurement and to provide appropriate information and advice to prescribers and patients to support appropriate use of these products. Potentially these products have pharmacological activity which is difficult to predict for example the TGN 1412 clinical trial incident in healthy human volunteers in Northwick Park Hospital, London. TGN1412 was a humanised monoclonal antibody developed for treatment of chronic inflammation and haematological malignancies which was injected in to six volunteers in a "first in man

trial". Within six hours all who received the active substance were admitted to intensive care with severe inflammatory actions and multi-organ failure. The drug showed no toxicity in several animal species and the starting dose administered to humans was two hundred times less than that used in animals. Due to the high costs of developing and producing these drugs there are major challenges of affordability and understanding of the pharmacoeconomics to enable access of these medicines for patients and to provide managers with necessary reassurance that these products represent a good investment. Certain new therapeutic strategies involve the use of gene therapy delivered through virus vectors and vaccine technology involving attenuated antigens. This poses safe handling and preparation challenges which the pharmaceutical service needs to better understand. Discussion:

- The pharmaceutical service needs to increase its knowledge and understanding of pharmaceutical biotechnology if it is to be prepared to exercise its professional obligations to patients. A greater knowledge and understanding is required from undergraduate to advanced practitioner level, in particular in the following areas:
 1. Basic science of large molecules including protein chemistry and molecular pharmacology. An understanding of the immune system, autoimmune diseases and mechanisms by which drugs modify the immune system and a basic understanding of recombinant DNA and monoclonal antibody technology.
 2. The pharmacokinetics of pharmaceutical biological agents which influences the time course of the pharmacological effect and the resolution of side effects.
 3. Information sources for biotechnology products.
 4. Formulation of biotechnology products and their sensitivity to degradation in particular their sensitivity to temperature and the need to maintain cold chains.
 5. Understanding of safe handling and storage of biopharmaceuticals including the safe handling by ambulatory patients in their own homes.
 6. Safe preparation of biotechnology products including health, safety and welfare issues for healthcare staff and carers who might be administering these products to patients. The need for special standards and design of facilities to assure safe and secure handling need to be better understood.
 7. The issue of Biosimilars or Biogenerics and its importance to contracting and procurement.
 8. There is a need to understand pharmacoeconomic principles of these agents which are often high cost and indicated for rare diseases. Increasingly these products are becoming indicated for more common diseases such as rheumatoid arthritis for chronic use at home.
- There is a need to develop better standards for cold chain management from manufacturer to patient. This will include better education of pharmacy support staff involved in distribution and of patients self administering these products. Poor cold chain management is one of the suspected causes of an increased incidence of pure red blood cell anaemia in France in renal patients receiving erythropoietin alpha at home.
- There is a need to ensure that the pharmaceutical service is prepared for handling biopharmaceuticals including gene therapies in early phase clinical trials and in routine clinical practice. Standards of practice and a strategic review of availability of facilities and staff for handling these materials within NHS Scotland are required.
- NHS Scotland has adopted the strategy of moving towards the use of generic pharmaceuticals and this has proven a great success in managing costs. As biopharmaceutical products come towards the end of their patent their will be a great drive towards adopting this policy for biotechnology products. Contracting, procurement staff and pharmaceutical advisors need to understand that that the concept of a generic biopharmaceutical is very simplistic. Due to the complex nature of the molecules, differences in production and formulation having major effects on the characteristics and therefore efficacy and toxicity of the product the concept of a generic biopharmaceutical may require a different understanding. This has led to the introduction of the term "biosimilar" which is a concept which has been devised to fast track similar biopharmaceutical agents and to stimulate competition in the market. In France the law does not allow automatic generic substitution of biological medicines at the pharmacy level without the consent of the treating physician.

Recommendations:

- Education and Training
 1. Ask the Schools of Pharmacy to review their curriculum to ensure that future pharmacy graduates are well prepared to understand the basic chemistry, formulation and pharmacological actions of biotechnological products. This will include an understanding

of stability and safe and secure handling of these products. 2. Commission a national pharmaceutical biotechnology seminar to raise awareness of NHS Scotland Pharmacy practitioners to the challenges faced in dealing with pharmaceutical biotechnology. 3. Ensure that pharmacy support staff are fully aware of the need for safe and secure handling of these products and in particular the importance of maintaining the cold chain. 4. Review information provided to patients and ensure they are aware of the safe and secure handling and administration of these products in particular the need to maintain the cold chain. 5. Ensure that prescribing advisors and finance managers are aware of the complexity of these products and the fact that generic prescribing may not, always, be a safe option. • Standards 1. Commission the development of national standards which ensure the safe and secure handling of these products from Pharmacy to Patient. 2. Commission the development of national standards for the safe and secure preparation of these products and in particular gene therapies in pharmacies, clinics and in patients' homes. 3. Commission the development of a national standard for contracting for these products which demands clinical and pharmaceutical critical appraisal of products and new suppliers to support the clinical and financial decision making process. 4. Review availability of facilities and skills for preparation of pharmaceutical biotechnologies including gene therapy biotechnology and produce a plan to meet the demands from phase one trial through to treatment. NHS Scotland Directors of Pharmacy are asked to: • Note the issues highlighted in the discussion. • Consider recommendations. • Commission work from appropriate authorities and specialist interest groups to address recommendations. Meeting arranged with Head of NES Pharmacy to arrange a national seminar. Involved in developing various national policies for procurement of biosimilars. Norman Lannigan, Lead Pharmacist Acute care, Mental Health and Innovation, NHS Greater Glasgow & Clyde on behalf of NHS Scotland National Acute Pharmacy Service Leads Network Group

Delegates: 20

Biosimilars

Date: 22/1/2008

Venue: Barcelona, Spain

Description: Introduction to biosimilars, definition, regulatory approval o biosimilars products, EMEA guidelines, controversies.

Delegates: 30 Clinical Oncology Pharmacists

Achieving more in life with rheumatic diseases management

Date: 22-24/1/2008

Venue: Gulf Rheumatology Symposium, Doha, Qatar

Description: Professions attending: Physician specialists/consultants, clinical pharmacists & nurse specialists. Level: Senior Description: The presentation was given after being accepted as a speaker in the

4th Gulf Rheumatology Symposium held in Doha, Qatar as part of the 8th Pan Arab Rheumatology Society Conference. Professionals came from all over the Arabian Gulf, mostly from UAE, Qatar, Oman, Kuwait, Saudi Arabia, Bahrain and Egypt. The impact of the presentation was high and wide, considering that participants came from both hospitals and universities. The presentation was mostly made up of slides provided by EurAHP (this was acknowledged explicitly with a slide on the Academy) with a few slides which I added from my own plus a short video. The impact was such that I was invited to deliver the presentation at a teaching hospital in Abu Dhabi early next year to nurses and pharmacists as part of their professional accreditation. The talk was over 30 minutes with 15 minutes to the floor for questions/discussion. It was delivered without remuneration but was sponsored by a pharmaceutical company to attend the event. The whole event was non promotional.

Delegates: Approximately 200

Biosimilars drugs

Date: 13/12/2007

Venue: Sevilla, Spain

Description: Introduction to biosimilars, definition, regulatory approval of biosimilars products, EMEA guidelines, controversies.

Delegates: 30 Clinical Oncology Pharmacists

16th Working Days of Slovak Hospital Pharmacists

Date: 22/11/2007

Venue: Bratislava, Slovakia, November, 21-23, 2007

Description: 16th Working Days of Slovak Hospital Pharmacists, Bratislava, November, 21-23, 2007, 146 participants. Two hours of lectures covered: What should hospital pharmacist know about biotechnology products" and „Biosimilars – legislation and impact on daily practice.

Delegates: 146

XVI Working Days of Slovak Hospital Pharmacists

Date: 21-23/11/2007

Venue: Bratislava

Description: Presentations based on Summit materials presented by Dr Juraj Sykora and Dr Lucia Cernuskova.

Delegates: 146

Pharmacoeconomics in Slovakia XVI: Drug Policy and Pharmacoeconomics

Date: 21-23/11/2007

Venue: Bratislava

Description: Title of lecture: Biologicals in Drug Policy. Conference organised by Slovak Society for Pharmacoeconomics/Slovak Medical Society and WHO. Presenters invited to further conferences in 2008 including Bratislava Regional Conference, Slovak Pharmacy Working Days Conference and Pharmacy Technicians Day.

Delegates: 121

Biopharmaceuticals

Date: 16-17/11/2007

Venue: Vienna

Description: A two day educational program, organised by the Association of Austrian Hospital Pharmacists; together with Karin Kirchdorfer. Introduction on legal aspects, basics of biotechnology, Biosimilars - Handling in the pharmacy and future aspects.

Delegates: 70

Biopharmaceuticals

Date: 16-17/11/2007

Venue: Vienna

Description: A two day educational program, organised by the Association of Austrian Hospital Pharmacists: general introduction and legal aspects (1 hour), basics of biotechnology - recombinant DNA technology (1 hour), basics of processing - quality control - formulation (1 hour)- Biosimilars (1 hour), Handling in the pharmacy and future aspects (1 hour)

Delegates: 70

Workshop organized by Janssen-Cilag, Ortho Biotech

Date: 16/11/2007

Venue: Pforzheim, Germany

Description: Talk given by Irene Krämer: Biosimilars - Ähnliches ist nicht dasselbe bei der Therapie der renalen Anämie

Delegates: 40 dialysis nurses

Symposium Hospital Pharmacy

Date: 10/11/2007

Venue: Katarino, Bulgaria

Description: A one-day meeting with updates on Hospital Pharmacy practice in Europe focusing on prescribing and practice in the UK. This included a section on Biopharmaceuticals taking key information from the Malta Summit, such as the need for patient tracking against batch number, shear-stress from shaking and immunogenicity. It was notable that Biopharmaceuticals are less common in these countries as a direct consequence of relative cost.

Delegates: 140 from Bulgaria, Serbia and Macedonia

Evaluation of Biopharmaceuticals & Scientific progress between costs and ethics

Date: 8/11/2007

Venue: Park Hotel Zuerich, Switzerland

Description: Biotech Forum of Swiss hospital pharmacists. A half day educational course, organized by Dr. Friedrich Moell. Part I: Evaluation & Selection of Biopharmaceuticals, presenter Mrs Prof. Dr. I. Kraemer, Mainz. Part II: Scientific progress between Costs and Ethical considerations, presenter Mrs. Dr. F. Giuliani, Zuerich.

Delegates: 40

16th Pharmacoeconomics in Slovakia on „ Drug policy and pharmacoeconomics“,

Date: 6/11/2007

Venue: Bratislava, Slovakia

Description: 16th Pharmacoeconomics in Slovakia on „ Drug policy and pharmacoeconomics“, Bratislava, Slovakia , November 6, 2007. Here the lecture was titled: „Biologicals in drug policy“. The conference was held jointly by the Slovak Society for Pharmacoeconomics, the Slovak Medical Society and the WHO Regional Office in Bratislava. The 120 participants attended were from Ministry of Health, State Institute of Drug Control, insurances companies and pharmaceutical industry and hospital pharmacies.

Delegates: 120

GSASA Swiss Society of Hospital Pharmacists

Date: 31/10/2007

Venue: Zürich

Description: Talk given by Irene Kraemer: Bewertung von Biosimilars im klinisch-pharmazeutischen Alltag - Ähnliches ist nicht das Selbe.

Delegates: hospital pharmacists

ECMC nurse network training day on Gene Therapy

Date: 30/10/2007

Venue: Birmingham, UK

Description: Study day for hospital pharmacists, research nurses and technicians.

Delegates: 29

Annual meeting of the German Society of Clinical Pharmacy

Date: 20/10/2007

Venue: Stuttgart, Germany

Description: One day educational program Talk given by Irene Krämer: Evaluation eines Biosimilars durch die Arzneimittelkommission - Was ist zu beachten?

Delegates: 100 hospital pharmacists

