

# **2018 Carinthia University Study Tour**

History of Collaboration and Student Contribution

Elizabeth Dubois MSc FRSPH MFPH Imperial College London 21 February 2018

### **Introduction**



### Elizabeth Dubois MSc FRSPH MFPH

Background: clinical, economics, public health specialist

**Professional**: finance, health policy, nursing, education, training, workforce

**Experience**: hospital sector, public sector, international, government, academia, research

Since 2005, Salman and I have been host to interested students from <u>Austria's Carinthia University</u> of Applied Sciences coming to London for short-term internships in Public Health.

Aimed at strengthening the role of public health through practical experience, students are linked to community projects which focus on health promotion or health prevention.

Whilst working, students are fully engaged in data collection and analysis and are responsible for presenting their findings on the impact of population-based health care.

2005 – 2008 Wandsworth SW London

2009 – 2012 Hammersmith & Fulham NW London



# **2005**

### Martin Falinski







Public Health Project:

Publication:

"Falls Prevention in the Elderly Population" 'Healthcare in Austria'

(Public Health Medicine, Vol. 6:2; 71-73. June, 2007)

### 2006

### **Matthias Dielacher**



Project:

"Survey of Food Provision and Nutrition Needs in Children's Nurseries"

### 2006

### Claudia Fischer



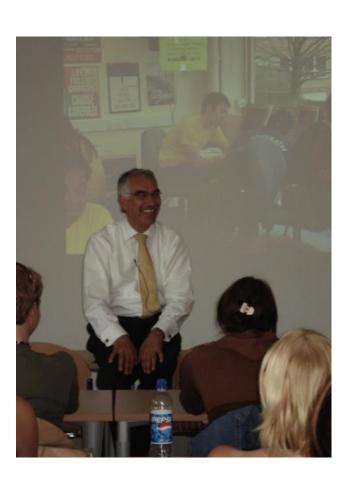
### Project:

"Mapping Cost and Availability of Healthier Food Options"

### **2007 Invitation to CUAS**



# Feldkirchen campus



# **CUAS Faculty & former students**



# **Klagenfurt campus – Marvin Hoffland**





### 2007

### Christine Paischer

### Project:

"Correlation between poor access to healthy foods and incidence of illness and poverty"

### Gertraud Kreuzer

### Project:

"Survey of local people's access to healthy food"

- 'Staying Healthy' campaign
- World Aids Awareness Day December 1<sup>st</sup>
- Sexual Health Chlamydia Screening
- Food Mapping: promoting healthy nutrition
- Stop-smoking campaigns





### 2008

Michael Reiner



<u>Project:</u>

"Developing Web-enabled Medical Research for Chronic Kidney Disease in Primary Care"

Florian Stolz



<u>Project:</u>

"Web-based Clinical Data Collection and Support System for CKD"

"CSV2FlatFile"

# Department of Biomedical Informatics

St George's Hospital
Tooting
SW London



### 2010

### Johannes Seidl



- Manor Health Centre GP Surgery QOF data
- Nat'l Institute of Health Research CLAHRC
- UK Health Protection Agency Conference poster
- WHO Management Review: Seychelles Outbreak Report
- KSA Ministry of Health WHO Delegation
- Healthcare System in Israel & Palestinian Territories







# The Healthcare System in Israel & the Palestinian Territories

Johannes Seidl, Intern, WHO Collaborating Centre







### 2010 Health Protection Conference

Elizabeth Dubois Stuart Carroll Colin Valer Johannes Seidl

### "Getting Ahead of the Curve" - How far have we come?

Elizabeth Dubois<sup>1</sup>, Stuart Carroll<sup>2</sup>, Colin Valler<sup>3</sup>, Johannes Seidl<sup>4</sup>

- Vaccination is an essential part of UK health policy protecting the population against infectious diseases, and is pertinent to Government pronouncements around public health.
- In 2002, the Department of Health (DH) published its blueprint document 'Getting Ahead of the Curve A strategy for combeting infectious diseases' (GAOTC) highlighting the enormous gains safe and effective vaccines confer on health particularly eradication of

disease - whilst focusing on R&D of future vaccines.1

-sym you're un, π in important to evaluate the "New Vaccines" section of G/OTC to assess progress against projected milestones; analyse policy developments; and consider future areas of focus. Eight years on, it is important to evaluate the "New Vaccines" section of GAOTC to assess

- A critical appraisal of original milestones versus subsequent developments was undertaken. involving a retrospective review of GAOTC focusing on four areas: 1) technology & science; 2) international comparisons; 3) economics; and 4) media & public perceptions.
- A review of the current UK schedule versus international counterparts was performed. A comparison of the 2002 vaccination programme versus the current programme was undertaken to evaluate progress and opportunities.
- A structured literature review (Embase & PubMed) was performed to identify relevant

### 1) Technology & science

The UK immunisation schedule has seen the number of vaccines increase since 2002

### Figure 1: Advances in UK Immunisation Schedule

- Acellular perfussis vaccine introduced in 2004
- Inactivated polio vaccine replaced live oral polio in 2004 Childhood pneumcoccal conjugate vaccine added from 2006, followed by a change from 7 to 13 valent in 2010
- MMR catch-up programme for 5-18 year olds ■ HPV vaccine introduced in 2008 for 12-13 year old girls with calch-up to 18 years Edended use of influenza/pneumococcal vaccines to a wider group phased in since 2003
- Advances were largely consistent with predicted short-term developments highlighted in GADTC, including development of a rotavirus vaccine, in contrast to 10-year R&D breakfurough projections where vaccines against HV, RSV and Malaria are still.
- Since 2002, the pace of emerging vaccines is noteworthy. It is anticipated that many new and improved vaccines in development are expected to be approved in the short-term.
- Technological advances continue to deliver improvements in new combinations, delivery mechanisms (e.g. oral, intradermal) and adjuvants.

### 2) International comparisons & World Health Organisation (WHO) There are many reasons why countries are not meeting immunisation needs but three

- particular factors seem to act as barriers to success 1) vaccination systems, 2) perception of vaccination, and 3) political will.<sup>2</sup>
- With these factors in mind, a simple comparison of UK and international schedules highlights differences in global vaccination policy, and indicates that the UK arguably lags "behind the curve" of many other developed countries, most notably in the wider use of vaccines against varicella and rotavirus (as used in the US and Australia).

The WHO together with international partners has been proceive in global strategies permoning affordable use of veciones like hepatitis B and Hamophilus influenzaes. They have also locatered research on rapid development of new veciones yet member states conditione to lace epidemiologiscit, financial and official challenges. Where possible, the UK should further utilise WHO expertise.3

- In 2002, the UK economic backdrop for GAOTC was very different, with a deficit of around £7bn in contrast to the current deficit of over £160bn. Future policy must be aligned with
- Critically, policy must be synchronised with Government commitments to shift the NHS
  from curative to preventative healthcare strongly emphasising public health; something
  central to the NHS's affordability and sustainability.
- Vaccination is preventative conferring high economic and social value through avoidance of illness and disease. It is also a quality of life enhancing intervention helping control epidemiological outbreaks and trends.
- To 'get ahead of the curve', it is arguable that investment in vaccination should to go, amount of all current, it is adjustant that invasional if is contained shall incrementally increase to generate savings avoiding opportunity costs from reactive resource forgone. Future policy should be harmonised with public health imperatives advancing the "invest to save" philosophy.

### 4) Media & public perceptions

- A perennial problem informing policy is media and public misperceptions; a consequen of poor education and tack of clear information. There is a need to highlight the health improvements of targeted immunisation, especially amongst disadvantaged communities.
- Although some improvements have been made following the MMR scandal, since 2002, In general there has been limited progress in dispetting popular vaccination myths. As Box A shows, misplaced media opprobrium has been unhelpful.

Box A - Examples of Media Headlines



- Professional attitudes show the extent of the problem, e.g. seasonal influenza vaccin
- A key focus for future policy must be education and a proactive approach to ensuring media and public misperceptions do not undermine public health.

- Our research shows the need for a 'new vision' for UK vaccination policy including greater understanding of preventative healthcare and the benefits of vaccination for controlling infectious diseases and improving quality of life.
- To "get ahead of the curve", vaccination investment should incrementally increase. This is central to generating future savings and avoiding opportunity costs from curative interventions an imperative for an affordable and sustainable NHS.
- For vaccination policy to optimally contribute to public health protection, improvements in education and information dissemination are required to change media and public perceptions and dispel popular myths.

References: 1. DH 2002, Getting Ahead of the Curve - A strategy for combating infactions diseases. 2. Schmitt H-J et al. Lancet Infact Dis 2003; 3:103-8. Hannon F, Zubor P. European J of Public Health, Vel 15, S1, 2005

Health Protection 2010 University of Warwick 14-15 September









### 2011

Pierre Schaschl & Hannes Linke

Medical Informatics
Klagenfurt





### Pierre Schaschl

Project:

"iPhone app (SiKL) for persons suffering from sickle cell disease"

"SNP-DNA-Database with web interface (WiNorm)"

### Hannes Linke

Project:

"Mobile health records on iOS and Android for Sickle Cell Anaemia patients"

Re-vamping the WHO CC website



# Department of Bioengineering

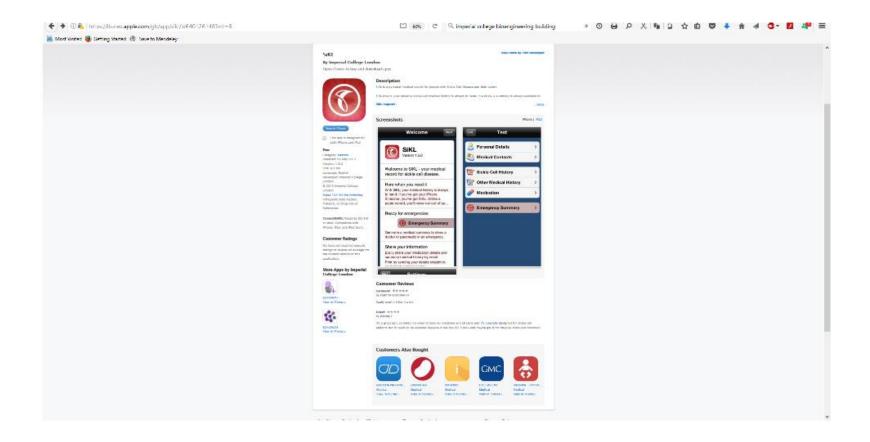
Imperial College London South Kensington campus

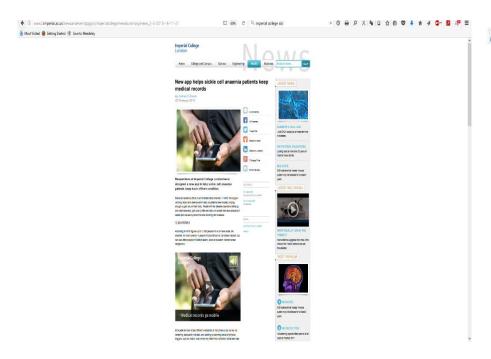






















### 2012

### Tibor Zajki-Zechmeister

CUAS School of Medical Information Technology

Major: Biomedical Engineering

"interested in bio-inspired and imaging technology"



### Project:

"Using imaging technology to verify nasogastric feeding tube placement and improve patient care outcomes"



# Department of Bioengineering

Imperial College London South Kensington campus





Dear All

The Department of Primary Care and Public Health invites you to attend Seminars by:

Dr Dylan Banks, Research Associate
Department of Electrical and Electronic Engineering , Imperial College London

Title: Next Generation Healthcare for Low Resource Settings.

&

Mr Tibor Zajki-Zechmeister, Undergraduate

Title: Using Imaging Technology to verify Nasogastric Feeding Tube Placement and Improve Patient Care Outcomes

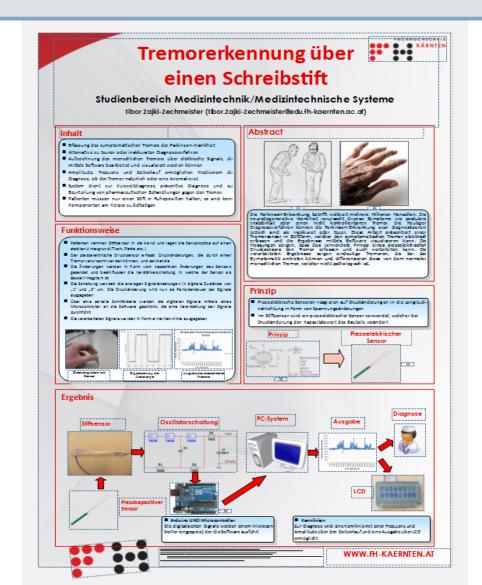
Wednesday 30 May at 12.30pm

venue:

Seminar Room, 3rd Floor, Reynolds Building, Charing Cross Campus

All welcome and we look forward to seeing you there

Department of Primary Care & Public Health School of Public Health Faculty of Medicine



World Health
 Organization Public
 Health Aspects of Non Communicable Disease
 Sseminar - London

Quality OutcomesFramework in PrimaryCare





Charlotte, Elizabeth, Salman and Andrea with CUAS intern Tibor Zajki-Zechmeister and volunteer Natasha Weydahl



World Health Organization
Collaborating Centre
Public Health Education and Training

### Department of Primary Care and Public Health

This is to certify that

### Mr Hannes Linke

has successfully completed an internship in Public Health dated 14th February to 2nd June 2011

WHO Collaborating Centre, Imperial College London, United Kingdom

Professor Salman Rawaf MD PhD FRCP FFPHM Director of WHO Collaborating Centre, Imperial College London Wandsworth Teaching Primary Care Trust

Dr Elizabeth Dubois Deputy Director, WHO Collaborating Centre, Imperial College London

Elizabeth A. Dubo

### **CUAS Study Tours ?**

2018....?



# Thank you

