

CURRICULUM VITAE

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LABORATORY

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(retired December 2010)

LABORATORY

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LABORATORY

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ADVANCED EDUCATION

1970-1971 **NORTH EAST LONDON COLLEGE OF TECHNOLOGY**

HNC: Advanced Analytical Chemistry

For this course I submitted a project entitled "Lithium Determination in Blood and Urine". As a result of this qualification I was elected a Licentiate of the Royal Society of Chemistry in 1973.

1975-1982 **UNIVERSITY OF SURREY**

Ph.D: Awarded 1982

My research degree was undertaken on a collaborative part-time basis under the supervision of Prof.D.V.Parke with the majority of practical work being performed at the Medical Toxicology Unit. The thesis reported an investigation into the disposition and pharmacokinetics the non-steroidal anti-inflammatory drug, Feprazone, in human subjects

WORK EXPERIENCE

1963-1967

Biochemistry Department at I.C.I. Plant Protection Ltd. developing analytical methods for new agrochemicals. The methods were subsequently used to assay residues in crops and soil. Duties included the organisation and management of field trials designed to investigate the fate of plant protecting agents under field conditions and studies of the mode of degradation of some crop protection agents by light and micro-organisms.

1967-2011 MEDICAL TOXICOLOGY UNIT – GSTT

1967: *Appointed senior technician in the MTU laboratory.*

- Initially briefed to commission the Unit and bring it to operational readiness.
- Subsequent main task was to develop methods for the detection and measurement of drugs and poisons in biological fluids.
- Developed procedures for general screening and specific determination of the increasing range of **drugs encountered in self-poisoning** together with methods to detect **drugs of abuse** in dependent patients.
- Subsequently used the procedures to provide a clinical service.
- Developed sensitive assays for several therapeutic groups of drugs e.g. anticonvulsants, cardioactives, antidepressants; to investigate whether therapeutic management (TDM) could assist with optimising patient treatment. These procedures now provide the basis of an extensive service.

1972: *Promoted to chief analyst.*

- Responsible for continued method development and associated research.
- Undertook initial development of a clozapine assay.
- Organised and managed the MTU laboratory service that was established for overdose toxicology, drug abuse screening and therapeutic drug monitoring.
- Involved with commissioning the supra-regional service for trace metals.
- Focused particularly on measurement of anticonvulsant drugs to assist with management of epilepsy.
- Initiated and Organised laboratory/clinician group meetings to discuss development of services.
- Collaborated with the Department of Clinical Pharmacology, St. Bartholomews Hospital to establish the national quality assurance scheme for anti-epileptic drugs.
- Worked with Pharma industry undertaking analysis and developing assays for trials of new NSAIDs.

1975: *Registered to undertake a PhD by collaborative research in my “spare time”.*

1985: *Promoted to Principal Biochemist.*

- Interests mainly concentrated in the field of TDM.
- Responsible for organisation and management of a comprehensive supra-regional antiepileptic TDM service.
- Undertook analytical method development to include the full range of anticonvulsant drugs.
- Developed links with various clinical research organisations and pharmaceutical companies that make use of this service to monitor clinical trials.
- Responsible for the antiepileptic drug (AED) research programme involving both established and investigational drugs.
- Developed collaborations with many epileptologists and centres of excellence for the treatment of epilepsy, including overseas groups, to investigate the role of TDM in the management of epilepsy.
- Responsible also for organisation and management of supra-regional assay services, including appropriate research and development, in other therapeutic areas e.g. anti-microbial, anti-diabetic, non-steroidal anti-inflammatory, anti-thyroid and thoracic drugs. This involved liaising with clinicians regarding all aspects of the use of these services, reviewing the range of assays provided, methods used, quality control, issuing of reports, maintenance of records and follow-up of cases where appropriate. In all therapeutic areas investigations are undertaken into the features, problems and disposition of drugs in overdose together with the evaluation of active treatments for overdose cases.

1990 to 2002:

- Increased proportion of time spent developing assays for the many newer AEDs that have been recently approved or were in development.
- Continue to provide a very wide-ranging, comprehensive, supra-regional AED/TDM service to NHS and commercial users, includes analysis of alternative bio-samples, unbound drug levels etc. where appropriate.
- Actively liaise with pharmaceutical companies and contract research organisations to establish assays for drugs in development and participate in contract research related to new compounds.
- Undertake research to investigate pharmacokinetics and drug disposition of the new AEDs in normal volunteers, various patient groups and also to monitor clinical trials.
- Assessment and evaluation of commercial testing systems and new equipment for determination of drugs (including evaluation of alcohol testing devices).
- Advisory role to other laboratories regarding analytical methods including help with trouble-shooting problems, which arise with their procedures.
- Assist diagnostic companies with the development of immunoassays for drugs and collaborate with them to assess new tests.

2002 - 2010: Promoted to Consultant Biochemist.

- Promoted on the grounds of **personal excellence**.
- Continue many of the service and research activities described above.
- Increased managerial responsibility.
- **Awarded MRCPATH on the basis of published works**
- Area of TDM responsibility extended to include *antipsychotic drugs*
- Joint responsibility for developing a *Clinical Scientists grade A training programme in toxicology*.
- Underwent KSF training
- Assigned to lead R&D activities at MTL
- Continue to provide a very wide-ranging, comprehensive, supra-regional AED/TDM service to NHS and commercial users, includes analysis of alternative bio-samples, unbound drug levels etc. where appropriate.
- Continue to liaise with pharmaceutical companies and contract research organisations to establish assays for drugs in development and participate in contract research related to new compounds.
- Continue to investigate pharmacokinetics and drug disposition of the new AEDs in normal volunteers, various patient groups and monitor clinical trials.
- Continue to assess and evaluate commercial testing systems and new equipment for determination of drugs.
- Continue to advise other laboratories regarding analytical methods including help with trouble-shooting problems, which arise with their procedures.
- Continue to assist diagnostic companies with the development of immunoassays for drugs and collaborate with them to assess new tests.

2010 - current: Semi-retired Consultancy work.

- While I retired from GSTT in December 2010, I continue to be involved with all aspects of TDM, Clinical & Forensic Toxicology.
- Now undertaking more Expert Witness work, and report preparation.
- Listed with NPIA to provide expert advice.
- Consultancy to Pharmaceutical Industry within my areas of Expertise

PRESENTATION SKILLS

- I regularly present research, lecture on specific topics and give workshops at epilepsy and TDM conferences.
- I present research on development of assays for new drugs together with their application at bio-analytical and associated conferences.
- Invited to participate in specialised sessions and round tables on TDM of the newer AEDs and discuss other innovative developments.
- To date have presented more than 40 posters at international meetings (see attached list).
- Received **AACC outstanding speaker award**, July 2008 and July 2009.

TEACHING EXPERIENCE

- Organiser of practical training courses in toxicology at the Medical Toxicology Unit.
- Toxicology lecturer (HNC/FIMLS, Bromley Technical College, 1975-79).
- Toxicology lecturer (FIMLSpecial course, Paddington College, throughout the '80's).
- Lectured and instructed toxicology on one week residential courses at the University of Strathclyde and Dundee.
- Lecturer, therapeutic monitoring - Guys medical students.
- Lecturer for MSc in clinical biochemistry (KCH laboratory staff).
- Lecturer therapeutic monitoring (Surrey University MSc students).
- Lecture quality control (Pharmacy course at University of Greenwich).
- **Acted as local supervisor for a collaborative PhD (University of Greenwich).**
- **Visiting Professor, the department of Clinical Pharmacology, University of Kuwait.** Prior to Gulf war visited Kuwait on several occasions and lectured at most of the hospitals to both Medical and Scientific staff on a whole range of drug abuse and therapeutic problems. I also supervised government sponsored research programmes.
- Visiting lecturer, Department of Pharmacy, King's College, University of London.
- Assist with training clinical biochemists and IBMS staff in TDM and anticonvulsant analysis.
- Regularly invited to talk to medical/paramedical groups about epilepsy TDM and related matters.
- **M.Phil examiner for Oxford Brooks University.**
- Joint responsibility for developing Clinical Biochemist grade A, toxicology training scheme.
- Have led several specialised workshops and round tables for AACC.
- **Visiting Professor at NGHA in Saudi Arabia, presented 3 day toxicology workshop in March 2007.**
- **Visiting Professor at Pavlov State University and Medical School, Russia.**
- Visiting lecturer at St Petersburg University, Russia
- Supervisor IBMS Special certificate in Therapeutic Drug Monitoring

EXPERT WITNESS EXPERIENCE

- I'm familiar with production of reports and witness statements for the courts on matters relating to my areas of expertise.
- I have prepared many reports on drug related matters for numerous Civil & Insurance claims, legal cases, child abuse and Family hearings, GMC hearings, Coroners cases etc.
- When called I give expert evidence in both civil and military courts on alcohol and drug related matters.
- I've give expert evidence in Coroners Courts on forensic drug and alcohol issues.

APPOINTMENTS

- Co-chair, TDM Roundtable of AACC TDM Renaissance Committee
- Member of ILAE sub-commission on Therapeutic Drug Monitoring
- 2009 Appointed to the National Police Improvement Agency expert advisory panel.
- Invited referee for Epilepsia, the Journals of Analytical Toxicology; Pharmaceutical and Biomedical Analysis, Chromatography, Forensic Science, Annals of Clinical Biochemistry, the American Chemical Society, Medicine, Science and the Law and many other journals.

PUBLICATIONS

- Have published more than 95 peer-reviewed papers together with many peer-reviewed abstracts on various aspects of drugs, drug analysis (see attached list).
- Have published extensively on therapeutic management in epilepsy.
- I have made a number of invited contributions on both general toxicology and specialist epilepsy issues of books, house journals etc.
- **Most recent book contribution is to the Atlas of Epilepsies (Springer 2010)**

MEMBERSHIP OF PROFESSIONAL BODIES

- The Royal College of Pathologists (FRCPath).
- International League against Epilepsy.
- British Pharmacological Society.
- International Association of Therapeutic Drug Monitoring and Clinical Toxicology.
- Association for Clinical Research In the Pharmaceutical Industry
- Association of Clinical Biochemists.
- Royal Society of Chemistry.
- Forensic Science Society (MFSSoc).
- The International Association of Forensic Toxicologists.
- The London Toxicology Group.
- Registered practitioner with the Health Professions Council
- American Association of Clinical Chemistry (including TDM/Toxicology division)

DATE PREPARED:

31st March 2011