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Dr EDWARD ANTHONY BLISS

BSc, PhD, CMS, CHE, MRPharmS, MIPI, MABI

Campbell House, 34 Campbell Drive, Peterborough PE4 7ZL

+44 (0) 1733.306460 office

I am a **forensic pharmacologist & toxicologist**, with a special interest in **psychopharmacology** which relates to how drugs alter psychological function, or might be used to treat mental illnesses. Included are the effects of drugs on thinking and behaviour, mood and perception. My work routinely over the years has covered psychiatric effects and side effects of **all** types of drugs, not just those used for specific psychiatric indications and substances of misuse. My previous background is scientific: mainly pharmacological, pharmaceutical, medical economic, immunological, microbiological and chemical.

I hold a BSc honours degree in pharmacy (1974) and a PhD based in medicinal chemistry, pharmacology and biochemistry (1980). Medicinal chemistry comprises organic chemistry specific to drugs. I have worked in NHS in teaching hospitals & major research establishments, reaching senior positions. I was scientific secretary of the Pharmaceutical Panel of the Standing Group on Health Technology Assessment; reporting directly to the Department of Health on effectiveness & cost-effectiveness of NHS prescribing across the country.

I have 14 years' experience as an expert witness in UK courts, providing both written reports and oral evidence in more than 250 cases, instructed by the CPS and other arms of the Crown including police forces, Marine Accident Investigation Branch, Coroners and other similar organisations, as well as direct to solicitors and counsel.

Post Jackson reforms, my CDP is up-to-date, including advanced training in the legal tests & requirements for UK experts with certification from ProSols (Lynden Alexander & Giles Eyre; www.prosols.uk.com; 2017). Accordingly I am qualified to provide independent expert evidence on pharmacological, pharmaceutical and prescribing matters.

Recent current activity & interests:

- Cases involving poisoning with chemicals or drugs; suspicious deaths & homicides.
- Drug interactions and side effects, especially in relation to psychiatric & criminal behaviour.
- Cases involving drugs suspected of having compromised a prosecution's claim of *mens rea*.
- Designer & club drugs; psychedelic agents; "back-street chemistry"
- Pharmacology & Drug therapeutics – all aspects including recent developments.
- Drugs & doping allegations in relation to national sport [on behalf of prosecution as well as defence].
- Investigations re accidents, injuries; criminal defence.

I have run **Blayze Ltd**, an investigation & pharmacology consultancy for legal & commercial organisations since March 2003. Immediately prior, I was a Project Leader for an international pharmaceutical company, working in strategic research. My 42-year career has included a range of military, medical and scientific elements. I am: a qualified investigator (by examination & accreditation); a professional member of the Royal Pharmaceutical Society of Great Britain, the Institute of Professional Investigators and the Association of British Investigators. I maintain: CPD records in both pharmacology and investigation; professional indemnity insurance; entries in 3 national databases of Expert Witnesses. I have hands-on working experience of the following: (1) organic-chemical synthesis and analysis using the techniques of Chromatography: HPLC [High Performance Liquid], GLC [Gas-Liquid]; TLC [Thin Layer]; Spectroscopy: IR, UV, MS [Mass], NMR [Nuclear Magnetic Resonance]. (2) Monoclonal antibody technology, hands-on development, production, analysis & uses. (3) teaching clinical pharmacology. I am professionally conversant with both qualitative and quantitative analysis of drugs, together with actions, uses & dosages of drugs encountered in this country.

PREVIOUS PROFESSIONAL summary:

- Global Project Leader; Medical & Prescribing Economics with Outcomes Research; Bayer plc
- UK Technical Intelligence Specialist Officer; chemical & biological defence; Int & Sy Gp.
- Senior Research Fellow at Wessex Institute of Public Health Medicine (Southampton University).
- NHS Principal Pharmacist / Prescribing Adviser for Oncology & Medicine (Bristol Royal Infirmary & Gp).
- Oxford University: Postdoctoral CRC Research Fellow. (*Cellular immunology; cancer research*).
- Wellcome Research Laboratories: medicinal chemistry & pharmacology. (*Targeted enzyme inhibitors*).
- Principal co-author of more than fifteen publications and co-author in a further seven.
- PhD in medicinal chemistry (through Wellcome Research Studentship; 1980).
- Member RPSGB (68086). BSc (Hons Pharm) (Aston 1974).

Born 1951; British nationality; no criminal convictions or cautions; married with 3 grown-up children.