

Curriculum vitae



Steven John Warrington
MA MB BChir MD FRCP FFPM QP

University	Cambridge (St John's College)		
Medical School	St Bartholomew's Hospital Medical College London		
Qualifications	BA	1968	Cambridge
	MB BChir	1971	Cambridge
	MA	1972	Cambridge
	MRCP (UK)	1974	London
	MD	1984	Cambridge
	FFPM	1990	RCP, London
	FRCP	1991	London
	QP	2004	

Accreditation by Royal College of Physicians

- 1) General (Internal) Medicine
- 2) Clinical Pharmacology and Therapeutics

Awards

St John's College Cambridge	Rolleston Entrance Exhibition	1965
	Wright Prize	1966
	Rolleston Scholarship	1967
Cambridge University	First Class Honours	1968
St Bartholomew's Hospital, London	Brackenbury Scholarship in Surgery	1971
	Roxburgh Prize in Dermatology	1971

Previous Appointments

1971 – 1972	House Officer to Surgical Professorial Unit, and in Cardiology, Nephrology and General Medicine, St Bartholomew's Hospital, London
1972 – 1974	Senior House Officer and Registrar in General Medicine Farnborough Hospital, Kent
1974 – 1975	Resident Medical Officer National Heart Hospital, London
1975 – 1977	Research Fellow in Cardiology and Clinical Pharmacology, St Bartholomew's Hospital

1977 – 1981	Lecturer in Clinical Pharmacology St Bartholomew's Hospital Medical College
	Honorary Senior Registrar in General Medicine and Clinical Pharmacology, St Bartholomew's Hospital
1981 – 1993	Medical Director Charterhouse Clinical Research Unit, London
1993 – 2012	Medical Director Hammersmith Medicines Research Limited, London

Present Appointments

Chief Medical Adviser
 Director of the HMR Laboratory
 Hammersmith Medicines Research Limited
 Cumberland Avenue, London NW10 7EW
 Honorary Lecturer in clinical pharmacology
 St Bartholomew's Hospital Medical College

Experience in Clinical Pharmacology

Research experience

- extensive experience from 1975 onwards in Phase I of pharmaceutical development, including the assessment of tolerability, pharmacokinetics and pharmacodynamics of new and existing drugs
- design and execution of studies in Phase II and III of drug development
- assessment of drug action and handling in man, including the following range of techniques:

Cardiovascular

- Doppler aortic velography
- electrocardiography - conventional 12-lead
- high speed, high gain
- exercise testing
- forearm plethysmography
- isoprenaline sensitivity testing
- phenylephrine pressor testing
- systolic time intervals
- 24h ambulatory ECG monitoring
- tyramine pressor testing
- venous reflex response

Central Nervous System

- analgesia - dental pulp stimulation
- forearm ischaemia
- ataxiometer
- cognitive function testing

- critical flicker fusion frequency threshold
- simple and choice reaction times
- visual analogue rating scales

Dermatology

- absorption of topical preparations, including radiolabelled materials
- histamine weal generation
- irritancy and sensitisation testing
- suction blister generation and fluid sampling
- measurement of local anaesthetic effects

Endocrinology

- adrenocortical suppression testing
- calcitonin dynamics
- glucose-insulin relationships
- prolactin suppression and stimulation

Gastrointestinal

- appetite and food consumption
- gastric pH monitoring
- gastric titratable acid output
- pentagastrin stimulation test
- intragastric drug infusion
- intrajejunal catheter placement and drug injection
- rectal bioavailability
- saliva output measurement
 - dental roll method
 - Parafilm chewing method
- ⁵¹Cr-labelled red cell loss
- supervision of subjects undergoing upper GI endoscopy

Haematology

- bleeding time
- measures of coagulation
- platelet aggregometry

Ophthalmology

- accommodation near-point & visual acuity
- intra-ocular pressure measurement
 - non-contact tonometer
 - Goldmann method
- ophthalmoscopy
- pupillometry
 - pupil gauge
 - infra-red video
- slit-lamp examination

Urogenital

- renal enzyme excretion
- penile tactile sensitivity
- seminal fluid drug kinetics

- sperm motility
- vaginal bioavailability
- urinary flow rate

Respiratory

- exercise bronchodilatation
- computer spirometry
- histamine challenge
- citric acid aerosol induced cough model
- supervision of subjects undergoing broncho-alveolar lavage
- nasal insufflation of drugs

Metabolic

- ADME studies with ¹⁴C and ³H labelled compounds – 31 compounds in all
- interaction studies with hypoglycaemic drugs

Clinical Pharmacology experience

- management of patients with epilepsy and status epilepticus
- advising on management of patients who fail to respond to drug therapy
- interpretation of plasma concentrations of drugs including anti-convulsants, antidysrhythmics, digoxin and antidepressants
- management of drug overdose

General Medical Experience

Patient care

Care of patients in:

- General Medical Wards and Outpatients
- Nephrology Unit
- Chest Unit
- Intensive Care Unit
- Coronary Care Unit
- Mobile Coronary Care Unit
- Hypertension Clinic

Care of adults and children with heart disease, including patients undergoing open heart surgery.

Care of patients referred from Chalfont Centre for Epilepsy for control of intractable fits and for other unrelated medical and surgical problems.

Therapeutic Techniques

- peritoneal dialysis
- temporary pacemaker insertion
- permanent pacemaker implantation
- treatment of cardiac failure with intra-aortic balloon counter-pulsation
- cardiopulmonary resuscitation: completed Barts ACLS Course
- elective and emergency cardiac defibrillation

Diagnostic Techniques

- left and right heart catheterisation
- coronary angiography including Sones' technique
- central venous and pulmonary arterial pressure monitoring
- echocardiography
- phono- and apex-cardiography
- exercise ECG testing
- 24-hour dynamic ECG monitoring
- sigmoidoscopy
- liver and pleural biopsy

Teaching Experience

Lecturing to:

- Dip Pharm Med examiners
- Advanced Cardiac Life Support Course (St Bartholomew's Hospital)
- clinical and pre-clinical medical students
- MRCP, MRCPsych, and FFARCS candidates
- BPharm, MPS and MSc in Clinical Pharmacy candidates
- casualty officers & GPs
- pharmacists
- RGN candidates, ITU and CCU course nurses

Ward teaching of:

- pre-clinical clinical students
- pharmacists
- MRCP candidates

Experience as Examiner

London University	2nd MB: Pharmacology oral examinations MSc in Biopharmacy
St Bartholomew's Hospital Medical College	First Year clinical examinations
St Bartholomew's Hospital	Nurses' hospital final examinations
Faculty of Pharmaceutical Medicine	Officer of Board of Examiners Convenor of D/CHP examination panel

Computing Experience

APL programming: - label generation for study samples
 - measurement of ECG and systolic time intervals
 - simple statistical tests

Literature searching

Development of database to process results of haematology, biochemistry and urinalysis tests

Development of study costing program using Excel templates

Word processing: Microsoft Word

Spreadsheet: Microsoft Excel

PUBLICATIONS

MD thesis

Non-invasive assessment of cardiovascular function in clinical pharmacology

Cambridge University 1984

My thesis was based on work done from 1975–1981 on the utility of systolic time intervals, the high-speed high-gain surface ECG, and the normalised first derivative of the apexcardiogram in the detection of cardiovascular effects of drugs.

District Formulary, St Bartholomew's Hospital

Sections on:

- anti-inflammatory drugs
- broad-spectrum antibiotics
- diuretics
- drugs for urinary tract infections
- minor analgesics

Original Papers and Review Articles

- 1 Warrington S. The emergency management of tachycardia. Hospital Update 1976; 2: 467–482
- 2 Warrington S. The emergency management of bradycardia. Hospital Update 1976; 2: 519–532 & 611–622
- 3 Davies B, Warrington SJ. Diuretic effect of a combined preparation of frusemide and slow-release potassium chloride. Current Medical Research and Opinion 1978; 5: 739–742
- 4 Oh VMS, Kaye CM, Warrington SJ, Taylor EA, Wadsworth J. Studies of cardioselectivity and partial agonism in beta-adrenoceptor blockade, comparing effects on heart rate and peak expiratory flow rate during exercise. British Journal of Clinical Pharmacology 1978; 5: 107–120
- 5 Johnston A, Burgess CD, Warrington SJ, Wadsworth J, Hamer NAJ. The effect of spontaneous changes in urinary pH on mexiletine plasma concentrations and excretion during chronic administration to healthy volunteers. British Journal of Clinical Pharmacology 1979; 8: 349–352
- 6 O'Grady J, Warrington SJ, Moti MJ, Bunting S, Flower R, Fowle AE, Higgs EA, Moncada S. Effects of intravenous prostacyclin infusions in healthy volunteers – some preliminary observations. In: Prostacyclin, eds: J R Vane and S Bergstrom; Raven Press, New York 1979 pp 409–417
- 7 Richens A, Warrington SJ. When should plasma drug levels be monitored? Drugs 1979; 17: 488–500
- 8 Ryan D, Warrington SJ. Head-nodding in arteriopathic dementia – a new kind of tic? Postgraduate Medical Journal 1979; 17: 558–559
- 9 Warrington S. Pharmacological considerations in the management of patients with a stoma. Info '79 1979; 41: 1–2
- 10 Johnston A, Henry JA, Warrington SJ, Hamer NAJ. Pharmacokinetics of oral disopyramide phosphate in patients with renal impairment. British Journal of Clinical Pharmacology 1980; 10: 245–248

- 11 O'Grady J, Warrington S, Moti MJ, Bunting S, Flower R, Fowle AE, Higgs EA, Moncada S. Effects of intravenous infusions of prostacyclin (PGI₂) in man. *Prostaglandins* 1980; 19: 319–332
- 12 Turner P, Warrington SJ. Interactions involving adrenergic neurone blocking drugs. In: *Clinically important adverse drug interactions, Vol 1, Cardiovascular and respiratory disease therapy*, ed: J C Petrie; Elsevier, North Holland, 1980; pp 107–118
- 13 Warrington S. Fatigue as an unwanted effect of drugs. Editorial; *Lancet* 1980; 1: 1285–1286
- 14 Warrington SJ, Hamer NAJ. Some cardiovascular problems with disopyramide. *Postgraduate Medical Journal* 1980; 56: 229–233
- 15 Warrington SJ, O'Grady J. Cardiovascular effects of prostacyclin in man. *Advances in prostaglandin and thromboxane research, Vol 7*, eds: B Samuelsson, PW Ramwell and R Paoletti; Raven Press, New York, 1980; pp 619–624
- 16 Warrington SJ, Smith PR, O'Grady J. Non-invasive assessment of the cardiovascular effects of prostacyclin (PGI₂) in man. *European Journal of Cardiology* 1980; 12: 73–80
- 17 Warrington SJ, Turner P, Kilborn JR, Bianchetti G, Morselli PL. Blood concentrations and pharmacodynamic effects of betaxolol (SL 75212), a new beta-adrenoceptor antagonist, after oral and intravenous administration. *British Journal of Clinical Pharmacology* 1980; 10: 449–452
- 18 Ohashi K, Warrington SJ, Kaye CM, Houghton GW, Dennis M, Templeton R, Turner P. Observations on the clinical pharmacology and plasma concentrations of diacetolol, the major human metabolite of acebutolol. *British Journal of Clinical Pharmacology* 1981; 12: 561–565
- 19 Sinclair AJ, Warrington SJ. Severe renal failure in hydralazine-induced lupus. *Human Toxicology* 1981; 1: 65–69
- 20 Taylor EA, Trembath PW, Warrington SJ. Influence of environmental temperature and humidity on bronchial responses during assessment of selectivity of beta-adrenoceptor antagonists in man. *British Journal of Clinical Pharmacology* 1981; 12: 201–209
- 21 Warrington SJ. Use of adrenergic neurone blockers should be restricted. *Mims Magazine* 1981 (1 Sept): 32–34
- 22 Warrington SJ, Burgess CD, Turner P. Cardiovascular effects of antidepressants. *Royal Society of Medicine International Congress and Symposium Series* 1981; 46: 79–86
- 23 Hassan S, Pickles H, Fish A, Burke Ch, Warrington S, O'Grady J. The cardiovascular and platelet effects of epoprostenol (Prostacyclin, PGI₂) are unaffected by beta-adrenoceptor blockade in man. *British Journal of Clinical Pharmacology* 1982; 14: 369–377
- 24 Warrington SJ. Lessons from the benoxaprofen affair. *Lancet* 1982; 2: 529–530
- 25 Warrington SJ. Clinically important drug interactions. *Update* 1982; 25: 1695–1701
- 26 Warrington SJ (1982) Noninvasive assessment of the cardiovascular effects of psychotropic drugs. *Journal of Clinical Psychiatry* 43 4–7

- 27 Warrington SJ (1982) Sedation is a problem with many anti-emetics. *Mims Magazine* (1 Apr) 61-64
- 28 Warrington SJ (1982) Vasodilators are finding favour. *Mims Magazine* (15 May) 10–12
- 29 Warrington SJ, Halsey A, O'Donnell L (1982) A comparison of gastrointestinal bleeding in healthy volunteers treated with tiaprofenic acid, aspirin or ibuprofen. *Rheumatology* 7 107–110
- 30 Davies G, Sinclair AJ, Warrington SJ (1982) Pharmacokinetics of meptazinol in Man following repeated intramuscular administration. *Eur J Clin Pharmacol* 23: 535-538
- 31 Anker SI, Barclay SP, Warrington SJ (1983) Loprazolam (RU31158) – lack of effect on hepatic microsomal enzyme activity in man. *British Journal of Clinical Pharmacology* 16 200–201
- 32 Giudicelli JF, Richer C, Ganansia J, Warrington S, Abriol C, Rullière R (1983) Betaxolol: Beta-adrenoceptor blocking effects and pharmacokinetics in man. *LERS Vol 1: Betaxolol and other beta-adrenoceptor antagonists*, eds: Morselli PL et al, Raven Press, New York, pp 89–99
- 33 Iliopoulou A, Turner P, Warrington SJ (1983) Acute haemodynamic effects of a new calcium antagonist, nifedipine, in man: A comparison with nifedipine. *British Journal of Clinical Pharmacology* 15 59–66
- 34 Norbury HM, Franklin RA, Marrott PK, Warrington SJ (1983) Pharmacokinetics of intravenous indoramin in middle-aged male and female volunteers. *European Journal of Clinical Pharmacology* 25 243–246
- 35 Patel LG, Warrington SJ, Pearson RM (1983) Propranolol concentrations in plasma after insertion into the vagina. *British Medical Journal* 287 1247–1248
- 36 Warrington SJ, Barclay SP (1983) Absence of liver enzyme induction by loprazolam in man. *Loprazolam Clinical Workshop*, Medicine Publishing Foundation, Oxford, p 32
- 37 Warrington SJ, Barclay SP, Brown Z, Robson PJ (1983) Reversibility of the analgesic effect of meptazinol in volunteers. *Postgraduate Medical Journal* 59 (Suppl 1) 13–18
- 38 Warrington SJ, Taylor EA, Kilborn JR (1983) Comparison of pharmacodynamic effects of betaxolol with atenolol, practolol and propranolol given intravenously. *LERS Vol 1: Betaxolol and other beta-adrenoceptor antagonists*, eds: Morselli PL et al, Raven Press, New York, pp 109–122
- 39 Mekki QA, Warrington SJ, Turner P (1984) Bromocriptine eyedrops lower intraocular pressure without affecting prolactin levels. *Lancet* 1 287–288
- 40 Van de Merwe TJ, Silverstone T, Anker SI, Warrington SJ, Turner P (1984) A double-blind non-crossover placebo-controlled study between group comparison of trazodone and amitriptyline on cardiovascular function in major depressive disorders. *Psychopathology* 17 (Suppl 2) 64–76
- 41 Norbury HM, Franklin RA, Marrott PH, Warrington SJ (1984) Pharmacokinetics of oral indoramin in elderly and middle-aged female volunteers. *European Journal of Clinical Pharmacology* 27 247–249

- 42 Thiercelin JF, Padovani P, Thenot JP, Rowland M, Warrington SJ, Morselli PL (1984) Effect of various antiepileptic drugs on the pharmacokinetics of progabide and its acid metabolite. *Neurology* 34 (Suppl 1) 266–267
- 43 Warrington SJ (1984) Cardiovascular effects of lofepramine. *International Medicine (Suppl 10)* 23–26
- 44 Warrington SJ, Ankier SI, Turner P (1984) An evaluation of possible interactions between ethanol and trazodone or amitriptyline. *British Journal of Clinical Pharmacology* 18 549–557
(also published in *Neuropsychobiology* 1986 15 Suppl 1 31–37)
- 45 Warrington SJ, Holt D, Johnston A, Fitzsimons TJ (1984) Pharmacokinetics and pharmacodynamics of verapamil in combination with atenolol, metoprolol and propranolol. *British Journal of Clinical Pharmacology* 17 37S–44S
- 46 Warrington SJ, Turner P (1984) Clinical Pharmacology. In: *Heart Disease in the elderly*. Eds: Martin A and Camm AJ, John Wiley & Sons Ltd, Chichester, pp 203–218
- 47 Bennett PN, Bennett J, Bradbrook I, Francis J, John VA, Rogers H, Turner P, Warrington SJ (1985) Single-dose pharmacokinetic and pharmacodynamic comparison of polymer-matrix (Slow Trasicor) and Oros dosage forms of oxprenolol in healthy volunteers. *British Journal of Clinical Pharmacology* 19 (Suppl 2) 171S–175S
- 48 Johnston A, Warrington S, Turner P (1985) An attempt to estimate the absolute bioavailability of flecainide without reference to a parenteral dose. *Pharmaceutical Medicine* 1 105–109
- 49 Johnston A, Warrington S, Turner P (1985) Flecainide pharmacokinetics in healthy volunteers: the influence of urinary pH. *British Journal of Clinical Pharmacology* 20 333–338
- 50 Saunders L, Ingram D, Warrington SJ (1985) The pharmacokinetics and dynamics of oxprenolol: a simulation study with six subjects. *Journal of Pharmacy and Pharmacology* 37 802–806
- 51 Thenot JP, Bianchetti G, Abriol C, Feuerstein J, Lambert D, Thébault JJ, Warrington SJ, Rowland M (1985) Interactions between progabide and antiepileptic drugs. *LERS Vol 3: Epilepsy and gaba receptor agonists: Basic and therapeutic research*, eds: Bartholini G et al, Raven Press, New York, pp 259–269
- 52 Warrington S (1985) Systolic time intervals – a new technique in clinical pharmacology. *Methods and Findings in Experimental and Clinical Pharmacology* 7 93–98
- 53 Warrington SJ (1985) Limitations of dose tolerance studies on predictability for Phase III. *Arzneimittel Forschung/Drug Research* 35 781–783
- 54 Warrington SJ, Barclay SP, John VA, Shotton PA, Good W (1985) Comparison of single-dose pharmacokinetic and pharmacodynamic properties of two metoprolol Oros systems with different initial zero-order release rates. *British Journal of Clinical Pharmacology* 19 (Suppl 2) 225S–230S
- 55 Warrington SJ, O'Brien C, Thiercelin JF, Orofiamma B, Morselli P (1985) Evaluation of pharmacodynamic interaction between progabide and clonazepam in healthy men. *LERS Vol 3: Epilepsy and gaba receptor agonists: Basic and therapeutic research*, eds: Bartholini G et al, Raven Press, New York, pp 279–286

- 56 Warrington SJ, Barclay SP, John VA, Shotton PA, Wardle HM, Good W (1985) Influence of site of drug delivery on the systemic availability of metoprolol: comparison of intragastric infusion and 14/190 Oros administration. *British Journal of Clinical Pharmacology* 19 (Suppl 2) 219S–224S
- 57 Woods KL, Jack DB, Kendall MJ, Halsey A, O'Donnell ML, Warrington SJ, John VA (1985) A multiple dose comparative study of the pharmacodynamic and pharmacokinetic behaviour of polymer-matrix and Oros dosage forms of oxprenolol in healthy volunteers. *British Journal of Clinical Pharmacology* 19 (Suppl 2) 177S–184S
- 58 Davies IB, Guinebault P, Johnson ES, Seymour D, Sinclair AJ, Warrington SJ (1986) α -adrenoceptor antagonism by alfuzosin in man: effects on phenylephrine pressor dose-responses. *British Journal of Clinical Pharmacology* 22: 231–232P
- 59 Warrington SJ, Ankier SI, Turner P (1986) Evaluation of possible interactions between ethanol and trazodone or amitriptyline. *Neuropsychobiology* 15 (Suppl 1) 31-37 (re-published from a paper of identical title in *British Journal of Clinical Pharmacology* 1984 18 549–557)
- 60 Dana-Haeri J, Warrington SJ (1987) Stemetil. *Mims Magazine* (1 Jul) 37-40
- 61 Hedges A, Warrington SJ, Turner P, Niebch G (1987) Flupirtine maleate and antipyrine half-life. *European Journal of Clinical Pharmacology* 33 437
- 62 Johnston A, Warrington SJ, Turner P, Riethmuller-Winzen H (1987) Comparison of flupirtine and indomethacin on frusemide-induced diuresis. *Postgraduate Medical Journal* 63 959–961
- 63 Abrams SL, Baker LR, Crome P, White AS, Johnston A, Ankier SI, Warrington SJ, Turner P, Niebch G (1988) Pharmacokinetics of flupirtine in elderly volunteers and in patients with moderate renal impairment. *Postgraduate Medical Journal* 64 361–363
- 64 Ankier SI, Brimelow AE, Crome P, Johnston A, Warrington SJ, Turner P, Ferber HP (1988) Chlortenoxicam pharmacokinetics in young and elderly human volunteers. *Postgraduate Medical Journal* 64 752–754
- 65 Ankier SI, Warrington SJ, Sneddon JM (1988) Recent developments in the use of nitrates for treatment of angina pectoris. *Journal of International Medical Research* 16 249–256
- 66 Harvengt C, Hulhoven R, Desager JP, Coupez JM, Guillet Ph, Fuseau E, Lambert D, Warrington SJ (1988) Drug interactions investigated with zolpidem. *LEERS Vol 6: Imidazopyridines in sleep disorders*, eds: Bartholini G et al, Raven Press, New York, pp 165–173
- 67 Johnston A, Warrington SJ, Turner P, Aurich R (1988) The effect of repeated oral doses of azelastine hydrochloride on antipyrine half-life in normal volunteers. *Journal of Pharmacy and Pharmacology* 40 225
- 68 Pierce DM, Warrington SJ, Franklin RA (1988) Pharmacokinetics of indoramin and its 6-hydroxylated metabolite after repeated oral dosing. *Biopharmaceutics and Drug Disposition* 9 147–157
- 69 Setnikar I, Chiste R, Makovec F, Rovati LC, Warrington SJ (1988) Pharmacokinetics of loxiglumide after single intravenous or oral doses in man. *Arzneimittel Forschung/Drug Research* 38 716–720
- 70 Thenot JP, Hermann P, Durand A, Burke JT, Allen J, Garrigou D, Vajta S, Albin H, Thebault JJ, Olive G, Warrington SJ (1988) Pharmacokinetics and

metabolism of Zolpidem in various animal species and in humans. LERS Vol 6: Imidazopyridines in sleep disorders, eds: Bartholini G et al, Raven Press, New York, pp 139–153

- 71 Warrington SJ (1988) The cardiovascular toxicity of antidepressants. *International Clinical Psychopharmacology* 3 (Suppl 2) 63–70
- 72 Warrington SJ, Dana-Haeri J, Horton MA, Thornton EJ (1988) Comparison of gastrointestinal blood loss in healthy male volunteers during repeated administration of standard and sustained action tiaprofenic acid and sustained release indomethacin. *Drugs* 35 (Suppl 1) 90–94
- 73 Warrington SJ, Weerasuriya K, Burgess CD (1988) Correction of systolic time intervals for heart rate: A comparison of individual with population derived regression equations. *British Journal of Clinical Pharmacology* 26 155–165
- 74 Ankier SI, Fay L, Warrington SJ, Woodings DF (1989) A multicentre open comparison of isosorbide-5-mononitrate and nifedipine given prophylactically to general practice patients with chronic stable angina pectoris. *Journal of International Medical Research* 17 172–178
- 75 Ankier SI, Warrington SJ (1989) Research and development of new medicines. *Journal of International Medical Research* 17 407–416
- 76 Ankier SI, Warrington SJ (1989) A double-blind placebo-controlled study of the efficacy and tolerability of ebastine against hayfever in general practice patients. *Journal of Internal Medicine* 226 453–58
- 77 Carmichael NG, Nolan RJ, Perkins JM, Davies R, Warrington SJ (1989) Oral and dermal pharmacokinetics of triclopyr in human volunteers. *Human Toxicology* 8 431–437
- 78 Dana-Haeri J, Warrington SJ (1989) Cardiovascular effects of tricyclic antidepressants in elderly people. In: *Antidepressants for Elderly People*, ed: Karabi Ghose, Chapman & Hall, London, pp 163–179
- 79 Debbas NMG, Ankier SI, Warrington SJ (1989) Trazodone conventional and controlled-release formulations: pharmacodynamic effects after single and repeated administration. *Current Medical Research and Opinion* 11 501–509
- 80 Everett DW, Foley JE, Singhvi SM, Weinstein SH, Warrington SJ (1989) High performance liquid chromatographic method for the radiometric determination of [¹⁴C] bucromarone in human plasma utilizing non-radiolabelled bucromarone as an internal standard. *Journal of Chromatography* 487 365–373
- 81 Sinclair AJ, Davies IB, Warrington SJ (1989) Alfuzosin and the venous reflex response: studies in normal subjects. *British Journal of Clinical Pharmacology* 27 19–22
- 82 Sneddon JM, Ankier SI, Warrington SJ (1989) Aspects of nitrate action and tolerance. *Recent Advances in Clinical Pharmacology and Toxicology*, eds: Turner P, Volans G N, Churchill Livingstone, Edinburgh, pp 75–103
- 83 Warrington Steve J (1989) European Phase I Clinical Studies: Key to the US IND? In: *Global Drug Registration Conference: North America*, ed: J D Johnston, Excerpta Medica, Amsterdam, pp 20–21
- 84 Warrington SJ, Dana-Haeri J, Sinclair AJ (1989) Cardiovascular and psychomotor effects of repeated doses of paroxetine: a comparison with amitriptyline and placebo in healthy men. *Acta psychiatrica Scandinavica* 80 (suppl 350) 42–44

- 85 Warrington SJ, Dawnay A, Johnston A, Saul S, Turner P, Ferber HP (1989) Chlortenoxicam and renal function of normal human volunteers. *Human Toxicology* 8 53–54
- 86 Warrington SJ, Padgham C, Lader M (1989) The cardiovascular effects of antidepressants. *Psychological Medicine, Monograph Supplement* 16, 1–40
- 87 Warrington SJ, Turner P, Skrumsager BK (1989) Cardiovascular (ECG and systolic time intervals) and anti-cholinergic effects of repeated doses of femoxetine - a comparison with amitriptyline and placebo in healthy men. *British Journal of Clinical Pharmacology* 27 343–351
- 88 Sinclair AJ, Davies IB, Warrington SJ (1990) Betaxolol and glucose-insulin relationships: studies in normal subjects taking glibenclamide or metformin. *British Journal of Clinical Pharmacology* 30 699–702
- 89 Warrington SJ (1990) Ethical aspects of research in healthy volunteers. In: *Early Phase Drug Evaluation in Man*, eds: O'Grady J, Linet O I, Macmillan Press, London, 139–149
- 90 Warrington SJ, Ankier SI (1990) The physicians' role in the clinical development of new medicines. *Postgraduate Medical Journal* 66 34–39
- 91 Warrington SJ, Debbas NMG, Farthing M, Horton M, Johnston A, Thillainayagam A, Turner P, Ferber H (1990) Lornoxicam, indomethacin and placebo: comparison of effects on faecal blood loss and upper gastrointestinal endoscopic appearances in healthy men. *Postgraduate Medical Journal* 66 622–626
- 92 Warrington Steven J, Johnston Atholl, Lewis Yuet, Murphy Michael (1990) Bisoprolol: studies of potential interactions with theophylline and warfarin in healthy volunteers. *Journal of Cardiovascular Pharmacology* 16 (Suppl 5) S164–S168
- 93 Warrington SJ, Lewis Y, Dawnay A, Johnston A, Kovacs IB, Lamb E, Ravic M (1990) Renal and gastrointestinal tolerability of lornoxicam, and effects on haemostasis and hepatic microsomal oxidation. *Postgraduate Medical Journal* 66 (Suppl 4) S35–S40
- 94 Warrington SJ, Sinclair AJ, Johnston A (1990) Effects of single doses of a 20mg frusemide/2.5mg amiloride combination, 20mg frusemide and placebo on plasma and urine electrolytes in healthy men. *Journal of International Medical Research* 18 (Suppl 2) 3B–9B
- 95 Le Mignon M-M, Chambon C, Warrington S, Davies R, Bonnemain B (1990) Gd-DOTA. Pharmacokinetics and tolerability after intravenous injection into healthy volunteers. *Investigative Radiology* 25 933–937
- 96 Ankier SI, Warrington SJ, Sneddon JM (1991) A pharmacokinetic and dynamic study of single nightly doses of conventional and controlled release formulations of trazodone. *Methods and Findings in Experimental and Clinical Pharmacology* 13 121–127
- 97 Volans G, Blain P, Bennett P, Berry C, Sims J, Warrington S (1991) Toxicity data derived from man, in: *Animals and Alternatives in Toxicology*, eds: M Balls, J Bridges and J Southee, Macmillan, Basingstoke, pp 201–221
- 98 Warrington SJ (1991) Clinical Implications of the Pharmacology of Sertraline *International Clinical Psychopharmacology* 6 11–21

- 99 Warrington SJ (1991) Ethics of evaluation of new drugs in human volunteers. *Annals of the Academy of Medicine, Singapore*, 20 101–105
- 100 Warrington S, Debbas N, Farthing M, Horton M, Umile A (1991) Piroxicam-beta-cyclodextrin: effects on gastrointestinal blood loss and gastric mucosal appearance in healthy men. *International Journal of Tissue Reactions* XIII 243–248
(also published, with permission, in: *Side Effects of Anti-Inflammatory Drugs* 3, eds Rainsford and Velo, 1992)
- 101 Warrington SJ, Turner P, Mant TGK, Morrison P, Haywood G, Glover V, Goodwin BL, Sandler M, St John-Smith P, McClelland GR (1991) Clinical pharmacology of moclobemide, a new reversible monoamine oxidase inhibitor. *Journal of Psychopharmacology* 5 82–91
- 102 Ravic M, Warrington SJ, Turner P (1992) Effects of dobutamine and digoxin on aortic blood velocity estimated with Doppler ultrasound. *British Journal of Clinical Pharmacology* 34 451P
- 103 Warrington SJ (1992) Clinical Implications of the Pharmacology of Serotonin Uptake Inhibitors. *International Clinical Psychopharmacology* 7 13–19
- 104 Warrington SJ, Ankier SI (1992) Double-blind placebo controlled evaluation of benidipine in mild to moderate essential hypertension. *British Journal of Clinical Pharmacology* 33 529P
- 105 Warrington S, Debbas N, Farthing M, Horton M, Thillainayagam A, Umile A (1992) Comparison of effects on gastrointestinal blood loss and gastric mucosal appearance of piroxicam-beta-cyclodextrin, piroxicam and placebo, in: *Side Effects of Anti-Inflammatory Drugs* 3, Eds KD Rainsford and GP Velo. Kluwer Academic Publishers, Lancs, Great Britain, pp 89–98 (first published in *International Journal of Tissue Reactions* XIII, 1991)
- 106 Warrington S, Debbas N, Lewis Y, Johnston A (1992) Efficacy of lignocaine spray in reducing sensitivity of the penis. *British Journal of Clinical Pharmacology* 33 571P
- 107 Wright DM, Warrington SJ, Drucker RF (1992) Comparison of the effects of morphine and the kappa selective agonist U-62,066E in man. *British Journal of Clinical Pharmacology* 34 183P
- 108 Warrington SJ, Lewis Y (1992) Cardiovascular effects of antidepressants: Studies of paroxetine in healthy men and depressed patients. *Int Clin Psychopharmacology* 6 (Suppl 4) 59–64
- 109 Bench CJ, Lammertsma AA, Dolan RJ, Grasby PM, Warrington SJ, Gunn K, Cuddigan M, Turton DJ, Osman S, Frackowiak RSJ (1993) Dose dependent occupancy of central dopamine D₂ receptors by the novel neuroleptic CP-88,059-01: a study using positron emission tomography and ¹¹C-raclopride. *Psychopharmacology* 112 308–314
- 110 Grind M, Murphy M, Warrington SJ, Åberg J (1993) Method for studying drug-warfarin interactions. *Clinical Pharmacology and Therapeutics* 54 381–387
- 111 Warrington SJ, Ravic M, Dawnay A (1993) Renal and general tolerability of repeated doses of nimesulide in normal subjects. *Drugs* 46 (Supplement 1): 263–269
- 112 Thillainayagam A, Tabaqchali S, Warrington SJ, Farthing MJG (1994) Interrelationships between *Helicobacter pylori* infection, nonsteroidal anti-

inflammatory drugs and gastroduodenal disease
Digestive Diseases and Sciences 39 1085–1089

- 113 Sardina M, Warrington SJ, Boyce M J, Johnston A, Bianchini C (1995) Hemodynamic and humoral effects at rest and after head-up tilt tests during 24 hour infusion of a new nitrate ester, ITF-296, compared with ISDN and placebo in healthy volunteers: A double-blind, randomised, within subject study. *Journal of Cardiovascular Pharmacology* 26 (suppl 4) S80–S90
- 114 Boyce MJ, Warrington SJ (1995) A comparison of the discomfort from subcutaneous injection of two citrate-buffered formulations of epoetin alfa. *British Journal of Clinical Research* 6 209–212
- 115 Boyce MJ, Warrington SJ (1995) A comparison of the discomfort from subcutaneous injection of epoetin beta and phosphate-buffered epoetin alfa from a pre-filled syringe. *British Journal of Clinical Research* 6 215–217
- 116 Bench CJ, Lammertsma AA, Grasby PM, Dolan RJ, Warrington SJ, Boyce M, Gunn KP, Brannick LY, Frackowiak RSJ (1996) The time course of occupancy of striatal dopamine D₂ receptors by the neuroleptic ziprasidone (CP-88,059-01) determined by positron emission tomography. *Psychopharmacology* 124 141–147
- 117 Vogelmeier C, Kirlath I, Warrington S, Banik N, Ulbrich E, Du Bois RM (1997) The intrapulmonary half-life and safety of aerosolized alpha₁-protease inhibitor in normal volunteers. *American Journal of Respiratory & Critical Care Medicine* 155 536–41
- 118 Bergami A, Bernasconi R, Caccia S, Leopaldi D, Mizrahi J, Sardina M, Urso R, Warrington SJ, Latini R (1997) Pharmacokinetics of isosorbide dinitrate in healthy volunteers after 24-hour intravenous infusion. *Journal of Clinical Pharmacology* 37 828–833
- 119 Watts MJ, Addison I, Long S, Hartley S, Warrington S, Boyce M, Linch D (1997) Crossover study of the haematological effects and the pharmacokinetics of glycosylated and non-glycosylated G-CSF in healthy volunteers. *British Journal of Haematology* 98 474–9
- 120 Watts MJ, Addison I, Ings SJ, Long SG, Hartley S, Warrington S, Boyce M, Linch DC. Optimal timing for collection of peripheral-blood progenitor cells after glycosylated G-CSF administration. *British Journal of Haematology* 1998; 21: 365–368
- 121 Warrington S, Boyce M, Rolfe L, Clarke A, Mallard N, Johnson ES. Higher availability of selegiline from Zydis than Deprenyl formulations does not lead to increased potentiation of the pressor response to oral tyramine. *British Journal of Clinical Pharmacology* 1998; 46: 284P
- 122 Warrington S, Boyce M, Rolfe L, Clarke A, Mallard N, Rowkins S, Johnson E. Are the metabolites of selegiline, rather than the parent compound, responsible for the oral potentiation of the pressor response to oral tyramine. *British Journal of Clinical Pharmacology* 1998; 46: 297P
- 123 Milton KA, Allen MJ, Tan E, Jenkins VC, James GC, Rance DJ, Eve MD, Warrington S. The pharmacokinetics of eletriptan: a review of the findings in healthy volunteers. *European Journal of Neurology* 1998; 5 (suppl 3): S57
- 124 Adamson H, Jacobs A, Warrington S. Normal values for electrocardiogram intervals in young healthy subjects. *International Journal of Pharmaceutical Medicine* 1998; 12: 289–291

- 125 Adamson H, Jacobs A, Warrington S.
Reference ranges for laboratory safety tests in young healthy subjects.
International Journal of Pharmaceutical Medicine 1998; 12: 293–296
- 126 Marshall E, Howell AH, Powles R, Hunter MG, Edwards M, Wood LM,
Czaplewski L, Puttick R, Warrington S, Boyce M, Testa N, Dexter TM, Lord BI,
Millar A. Clinical effects of human macrophage inflammatory protein alpha MIP-
1 alpha (LD78) administration to humans: a phase I study in cancer patients and
healthy volunteers with the genetically engineered variant, BB10010. *Eur J
Cancer* 1998; 34: 1023–1029
- 127 Gémesi LI, Kapás M, Farkas S, Warrington S, Boyce M.
Pharmacokinetics of silperisone in healthy volunteers. Presented at the 7th
European ISSX meeting (Budapest 22–26 August 1999)
- 128 Warrington S, Boyce M. Testing genetically modified micro-organisms in man.
European Pharmaceutical Contractor. November 1999: 52–55
- 129 Cabaroccas X, Warrington S, Jansat J, Zayas JM, Boyce M, Ferrer P.
Pharmacokinetics and tolerability of oral almotriptan in the elderly. *Headache*
1999; 39: 346
- 130 Warrington S, Johnson N, Cattoni M, Boyce M.
Tolerability and pharmacodynamic effects of single doses of ganstigmine, a new
cholinesterase inhibitor, in healthy men.
British Journal of Clinical Pharmacology 2000; 49: 503P–504P
- 131 Boyce M, Warrington S, Johnston A, Harris A. Effect on gastric pH of single
doses of YF476, a new gastrin antagonist, compared with ranitidine and placebo.
British Journal of Clinical Pharmacology 2000; 49: 493P–494P
- 132 Boyce M, Warrington S, Johnston A, Harris A. Effect on gastric pH of repeated
doses of YF476, a new gastrin antagonist, compared with omeprazole and
placebo. *British Journal of Clinical Pharmacology* 2000; 50: 383–384P
- 133 Johnson N, Cattoni M, Warrington S, Boyce M. Tolerability and
pharmacodynamic effects of repeated doses of ganstigmine, a new cholinesterase
inhibitor, in healthy men.
British Journal of Clinical Pharmacology 2000; 49: 492P–493P
- 134 Grattan TJ, Hickman RA, Darby-Dowman A, Hayward MA, Boyce M, Warrington
S. A pilot biostudy to investigate the pharmacokinetics of acetaminophen
(paracetamol) from two commercially available acetaminophen products and three
development formulations containing acetaminophen in combination with sodium
bicarbonate or calcium carbonate. *Eur J Pharm and Bio Pharm* 2000; 49: 225–229
- 135 O'Connor-Semmes RL, Thomas M, Warrington SJ, Savina PM, Walker A,
Odishaw J. A new antidiabetic drug (GI262570): first time in man study of
safety, tolerability, pharmacokinetics and glucodynamics.
Clinical Pharmacology & Therapeutics 2000; 67: 148
- 136 Tolman K, Täubel J, Warrington S, Lukasik N, Chiu Y. Lansoprazole achieves
faster control of intragastric acidity than rabeprazole within the first 5 hours of
administration. Poster presentation. American College of Gastroenterology
October 2000

- 137 Bryan S, Kananbar V, Matti S, Leckie MJ, Khan J, Renzetti L, Rames A, Boyce M, Warrington S, Hansel T, Holgate ST, O'Connor BJ, Barnes PJ. Effects of interleukin-12 on eosinophils, airway reactivity and the late asthmatic response. *Lancet* 2000; 356: 2149–2153
- 138 Boyce M, Dunn K, Warrington S. Hemodynamic and electrocardiographic effects of almotriptan in healthy volunteers. *Journal of Cardiovascular Pharmacology* 2001; 37:280–289
- 139 Baisley K, Warrington S, Tejura B, Morocutti A, Miller N. Rabeprazole 20 mg compared with esomeprazole 40 mg in the control of intragastric pH in healthy volunteers. Poster presentations at British Society of Gastroenterology Annual Meeting, Birmingham, March 2002 ; and World Congress of Gastroenterology, Thailand, March 2002
- 140 Baisley KJ, Tejura B, Morocutti A, Miller NM, Warrington SJ. Rabeprazole 10 mg is equivalent to esomeprazole 20 mg in control of gastric pH in healthy volunteers. *Am J Gastroenterol* 2001; 96 (Suppl): S48
- 141 Warrington S, Tejura B, Boyce M, Morocutti A, Miller N. Rabeprazole is more potent than esomeprazole in control of gastric pH in healthy volunteers. Poster presentation. United European Gastroenterology Week, Amsterdam, Oct 2001, & American College of Gastroenterology, Las Vegas, Oct 2001
- 142 Warrington S, Baisley K, Boyce M, Tejura B, Morocutti A, Miller N. Effects of rabeprazole, 20 mg, or esomeprazole, 20 mg, on 24-h intragastric pH and serum gastrin in healthy subjects. *Aliment Pharmacol Ther* 2002;16:1301–7.
- 143 Warrington S, Boyce M. Safety and pharmacokinetics of single, oral doses (12.5 mg) of almotriptan in young adults and the elderly. Submitted for publication
- 144 Boyce M, Warrington S, Lewis Y, Nentwich H, Harris A. Adaptation to the antisecretory effect of YF476, a new gastrin antagonist, in healthy men. *Brit J Clin Pharmacol* 2002; 53: 437P
- 145 Boyce M, Dunn K, Lewis Y, Wicks J, Warrington S. Potential impact of the European Clinical Trials Directive on UK phase I studies. *Brit J Clin Pharmacol* 2002; 53: 417P
- 146 Boyce M, Bowell A, Clark E, Dunn K, Evans A, Johnson R, Norris V, Warrington S. Assessment by questionnaire of the process of informing study subjects. *Brit J Clin Pharmacol* 2002; 53: 436P
- 147 Baisley KJ, Boyce MJ, Pradhan R, Warrington SJ. Pharmacokinetics, safety and tolerability of three dose regimens of buccal adhesive testosterone tablets in healthy men suppressed with leuporelin. *Journal of Endocrinology* 2002; 175: 813–819
- 148 Boyce M, Warrington S. Analysis of 312 studies of investigational medicinal products in healthy subjects to assess the impact of the European Union Clinical Trials Directive. *Int J Pharmaceut Med* 2002; 16: 179–183
- 149 Carey W, Warrington S, Boyce M, Luria X. Inhibition of the histamine wheal by ebastine compared with cetirizine, fexofenadine and loratadine at steady state. *Drugs Exptl Clin Res.* 2002; 28: 243–247.
- 150 Warrington S, Cole T, Baisley K, Boyce M. Effects of the selective COX-2 inhibitor, flosulide on renal homeostasis in salt-loaded men. Presentation to the

Clinical Section of the British Pharmacological Society Meeting, Brighton, 7–10 January 2003. 162P

- 151 Clark E, Boyce M, Warrington S, Johnston A, Suzuki N, Cho N, Dote N, Nishizawa A, Furuya S. Effects of single doses of TAK-013, a new non-peptide orally active gonadotropin-releasing hormone antagonist, in healthy young men. *Brit J Clin Pharmacol* 2003; 55: 443P
- 152 Boyce M, Nentwich H, Melbourne W & Warrington S. TOPS: The overvolunteering prevention system. *Brit J Clin Pharmacol* 2003; 55: 448P–449P
- 153 Clarke A, Johnson ES, Mallard N, Corn TH, Johnston A, Boyce M, Warrington S, MacMahon DG. A new low-dose formulation of selegiline: clinical efficacy, patient preference and selectivity for MAO-B inhibition. *J Neural Transmission*; 2003; 110: 1257–1271.
- 154 Carey W, Clark E, Warrington S, Boyce M, Kerns W, Fishman P, Cohn I, Silverman M. Single oral doses of CF101, a new adenosine A₃ receptor agonist, in healthy men. *Brit J Pharmacol* 2003; 140 (Suppl): 25P.
- 155 Troostenburg A, Clark E, Warrington S, Boyce M, Kerns W, Fishman P, Cohn I, Silverman M. Repeated oral doses of CF101, a new adenosine A₃ receptor agonist, in healthy men. *Brit J Pharmacol* 2003; 140 (Suppl): 26P.
- 156 Porter JB, Waldmeier F, Bruin G, Shah F, Hazell K, Warrington S, et al. Pharmacokinetics, metabolism and elimination of the iron chelator drug ICL670 in β -thalassemia patients. Presentation to American Society of Haematology, San Diego, California 6–9 December 2003.
- 157 A-R van Troostenburg, D Lee, TR Jones, JA Dyck-Jones, MH Silverman, GN Lam, S J Warrington. Safety, tolerability and pharmacokinetics of subcutaneous Å6, and 8-amino acid peptide with anti-angiogenic properties, in healthy men. *Int J Clin Pharmacol Ther* 2004; 42: 253–259
- 158 Boyce M, Baisley K, Clark E, Warrington S. Are published normal ranges of serum testosterone too high? Results of a cross-sectional survey of serum testosterone and luteinising hormone in healthy men. *Brit J Urology Int* 2004; 94: 881–885.
- 159 Ravic M, Warrington S, Boyce M, Dunn K, Johnston A. Repeated dosing with donepezil does not affect the safety, tolerability, or pharmacokinetics of single-dose thioridazine. *Brit J Clin Pharmacol* 2004; 58:S1: 34–40
- 160 van Troostenburg AR, Clark EV, Carey WD, Warrington SJ, Kerns WD, Cohn I, Silverman MH, Bar-Yehuda S, Fong KL, Fishman P. Tolerability, pharmacokinetics and concentration-dependent hemodynamic effects of oral CF101, an A₃ adenosine receptor agonist, in healthy young men. *Int J Clin Pharmacol Ther* 2004; 42:534–542
- 161 Curtis LD, Brown A, Comer MB, Senior JM, Warrington SJ, Dawson KM. Pharmacokinetics and pharmacodynamics of BB-10153, a thrombin-activatable plasminogen, in healthy volunteers. *Journal of Thrombosis & Haemostasis*. 2005; 3:1180–1186
- 162 Erlandsson K, Sivananthan T, Lui D, Spezzi A, Townsend CE, Mu S, Lucas R, Warrington S, Ell PJ. Measuring SSRI occupancy of SERT using the novel tracer [¹²³I]ADAM: a SPECT validation study. *Eur J Nucl Med Mol Imaging*. 2005; 32:1329–1336

- 163 Norris V, Baisley KJ, Calder N, van Troostenburg AR, Warrington SJ Assessment of the Accusway Plus system in measuring the effect of lorazepam on body sway in healthy volunteers. *Int J Pharm Med* 2005; 19:233–238
- 164 Warrington S, Baisley K, Dunn K, Boyce M, Morocutti A. Effects of single doses of rabeprazole 20 mg and esomeprazole 40 mg on 24-h intragastric pH in healthy subjects. *Eur J Clin Pharmacol* 2006; 62:685–691
- 165 Rossenu S, Cleton A, Rusch S, Janssens L, Remmerie B, Warrington S, Eerdeken M, Boom S. Extended release formulation of paliperidone shows dose proportional pharmacokinetics. *The AAPS Journal* 2006; 8 (S2): Abstract T3123
- 166 Tolman KG, Täubel J, Warrington S, Chiu YL, Pilmer BL, Pan WJ. Comparison of the effects of single and repeated oral doses of lansoprazole and rabeprazole on ambulatory 24-hour intragastric pH in healthy volunteers. *Clin Drug Investig* 2006; 26:21–28
- 167 Warrington S. Clinical pharmacology in the headlines: reflections on the TGN1412 Trial. *PA2 Volume 4 Issue 2*. July 2006
- 168 Norris V, Baisley K, Dunn K, Warrington S, Morocutti A. Combined analysis of three crossover clinical pharmacology studies of effects of rabeprazole and esomeprazole on 24-h intragastric pH in healthy volunteers. *Aliment Pharmacol Ther* 2007; 25:501–510.
- 169 Warrington S, Baisley K, Lee D, Lomax K, Delemos B, Boyce M, Morocutti A. Pharmacodynamic effects of single doses of rabeprazole 20 mg and pantoprazole 40 mg in patients with GERD and nocturnal heartburn. *Aliment Pharmacol Ther* 2007; 25:511–517.
- 170 Andrews J, Honeybourne D, Ashby J, Jevons G, Fraise A, Fry P, Warrington S, Hawser S and Wise R. Concentrations in plasma, epithelial lining fluid, alveolar macrophages and bronchial mucosa after a single intravenous dose of 1.6 mg/kg of iclaprim (AR-100) in healthy men. *J Antimicrob Chemother* 2007; 60: 677–680.
- 171 Addy C, Li S, Warrington S et al. Safety, tolerability, pharmacokinetics and pharmacodynamic properties of taranabant, a novel selective cannabinoid-1 receptor inverse agonist, for the treatment of obesity: results from a double-blind, placebo-controlled, single oral dose study in healthy volunteers. *J Clin Pharm Online* 7 Feb 2008.
- 172 Wade A, Pawsey S, Whale H, Boyce M and Warrington S. Pharmacokinetics of two 6-day frovatriptan dosing regimens used for the short-term prevention of menstrual migraine: a phase I, randomized, double-blind, placebo-controlled, two-period crossover, single-centre study in healthy female volunteers. *Clin Drug Investig* 2009; 29: 325–337.
- 173 Felix Waldmeier, Gerard J Bruin, Ulrike Glaenzel, Katharine Hazell, Romain Sechaud, Steve Warrington, John B Porter. Pharmacokinetics, metabolism and disposition of deferiasirox in β -thalassemia patients with transfusion-dependent iron overload who are at pharmacokinetic steady state. *Drug Metabolism and Disposition* 2010; 38: 808–816
- 174 Lister N, Warrington S, Boyce M et al. The pharmacokinetics, safety and tolerability of ascending doses of sublingual fentanyl (KW-2246) in Japanese subjects, with and without naltrexone. *J Clin Pharm* 2011; 51: 1195–1204
- 175 Warrington S, Nagakawa S, Hounslow N. Comparison of the pharmacokinetics of pitavastatin by formulation and ethnic group: an open-label, single-dose, two-

- way crossover pharmacokinetic study in healthy Caucasian and Japanese men. *Clin Drug Investig* 2011; 31: 735–43
- 176 Boyce M, Baisley K, Warrington S. Pharmacokinetic interaction between domperidone and ketoconazole leads to QT prolongation in healthy volunteers: a randomized, placebo-controlled, doubleblind, crossover study. *Br J Clin Pharmacol* 2011; 73: 411–421
- 177 Warrington S, Lee C, Otabe A, Narita T, Polnjak O, Pirags V, Krievins D. Acute and multiple-dose studies to determine the safety, tolerability, and pharmacokinetic profile of advantame in healthy volunteers. *Food & Chemical Toxicology* 2011; 49: S77–S83
- 178 Boyce M, Walther M, Nentwich H, Kirk J, Smith S, Warrington S. TOPS: an internet-based system to prevent healthy subjects from over-volunteering for clinical trials. *Eur J Clin Pharmacol* 2012; 68: 1019–1024
- 179 Boyce M, David O, Darwin K, Mitchell T, Johnston A, Warrington S. Single oral doses of netazepide (YF476), a gastrin receptor antagonist, cause dose dependent, sustained increases in gastric pH compared with placebo and ranitidine in healthy subjects. *Aliment Pharmacol Ther* 2012; 36: 181–189
- 180 Furuta S, Smart C, Hackett A, Benning R, Warrington S. Pharmacokinetics and metabolism of [¹⁴C]anagliptin, a novel dipeptidyl peptidase-4 inhibitor, in humans. *Xenobiotica* 2013; 43: 432–442
- 181 Scott G, Ahmad I, Howard K, MacLean D, Oliva C, Warrington S, Wilbraham D, Worthington P. Double-blind, randomized, placebo-controlled study of safety, tolerability, pharmacokinetics and pharmacodynamics of TAK-683, an investigational metastin analogue in healthy men. *Br J Clin Pharmacol* 2013; 75: 381–391
- 182 Boyce M, Warrington S. Effect of repeated doses of netazepide, a gastrin receptor antagonist, omeprazole, and placebo on 24 hour gastric acidity and gastrin in healthy subjects. *Br J Clin Pharmacol* 2013; 76: 680–688
- 183 Boyce M, Warrington S, Black JW. Netazepide, a gastrin/CCK2 receptor antagonist, causes dose-dependent, persistent inhibition of the responses to pentagastrin in healthy subjects. *Br J Clin Pharmacol* 2013; 76: 689–698
- 184 Lappin G, Boyce MJ, Matzow T, Lociuoro S, Seymour M, Warrington SJ. A microdose study of ¹⁴C-AR-709 in healthy men: pharmacokinetics, absolute bioavailability and concentrations in key compartments of the lung. *Eur J Clin Pharmacol*. 2013; 69: 1673–1682
- 185 Boyce M, Walther M, Kirk J, Smith, S, Warrington S. Survey of users of TOPS, an internet-based system to prevent healthy subjects from overvolunteering for clinical trials. *Eur J Clin Pharmacol* 2013; 69: 1757–1760
- 186 Tranter E, Peters G, Boyce M, Warrington S. Giving monoclonal antibodies to healthy volunteers in phase 1 trials: is it safe? *Br J Clin Pharmacol* 2013; 76: 164–172
- 187 Coelho T, Adams D, Silva A, Lozeron P, Hawkins PN, Mant T, Perez J, Chiesa J, Warrington S, Tranter E, Munisamy M, Falzone R, Harrop J, Cehelsky J, Bettencourt BR, Geissler M, Butler JS, Sehgal A, Meyers RE, Chen Q, Borland T, Hutabarat RM, Clausen VA, Alvarez R, Fitzgerald K, Gamba-Vitalo C, Nochur SV, Vaishnav AK, Sah DW, Gollob JA, Suhr OB

- Safety and efficacy of RNAi therapy for transthyretin amyloidosis.
N Engl J Med 2013; 369: 819–829
- 188 Ford J, Lawson M, Fowler D, Maruyama N, Mito S, Tomiyasu K, Kinoshita S, Suzuki C, Kawaguchi A, Round P, Boyce M, Warrington S, Weber W, van Deventer S, Kastelein JJ. Tolerability, pharmacokinetics and pharmacodynamics of TA-8995, a selective cholesteryl ester transfer protein (CETP) inhibitor, in healthy subjects. *Br J Clin Pharmacol* 2014;78:498–508
- 189 Jenkins H, Sakurai Y, Nishimura A, Okamoto H, Hibberd M, Jenkins R, Yoneyama T, Ashida K, Ogama Y & Warrington S. Randomised clinical trial: safety, tolerability, pharmacokinetics and pharmacodynamics of repeated doses of TAK-438 (vonoprazan), a novel potassium-competitive acid blocker, in healthy male subjects. *Aliment Pharmacol Ther* 2015;41:636–648
- 190 John Kim, Sung-Hack Lee, Malcolm Boyce, Steve Warrington, Kwan Hyung Cho, Suk Kyoon Yoon, Hee Dong Park, and Aeri Kim. Pharmacokinetics, pharmacodynamics and food effect of LB30870, a novel direct thrombin inhibitor, after single oral doses in healthy men. *Xenobiotica* 2015; 45: 663–671
- 191 Jurcevic S, Humfrey C, Uddin M, Warrington S, Larsson B, Keen C. The effect of a selective CXCR2 antagonist (AZD5069) on human blood neutrophil count and innate immune functions. *British Journal of Clinical Pharmacology* 2015; 80: 1324–1336
- 192 Virginia Norris, Steve Warrington, and Malcolm Boyce. Effect of inhaled interferon beta-1a on carbon monoxide transfer factor in healthy volunteers. *Journal of Interferon & Cytokine Research* 2016; 36:113–1189
- 193 Stephen Pawsey, Mike Wood, Helen Browne, Kirsteen Donaldson, Mark Christie, Steven Warrington. Safety, tolerability and pharmacokinetics of FAAH inhibitor V158866: A double-blind, randomised, placebo-controlled phase i study in healthy volunteers. *Drugs in Research and Development* 2016; published online 17th March 2016
- 194 M Boyce, S Warrington, B Cortezi, S Zöllner, S Vauléon, D W Swinkels, L Summo, F Schwoebel, and K Riecke. Safety, pharmacokinetics and pharmacodynamics of the anti-hepcidin Spiegelmer lexaptetid pegol in healthy subjects. *British Journal of Pharmacology* 2016; 173:1580–1588
- 195 Malcolm Boyce, Frans van den Berg, Toni Mitchell, Kate Darwin, and Steve Warrington. Randomised trial of the effect of a gastrin/CCK2 receptor antagonist on esomeprazole-induced hypergastrinaemia: evidence against rebound hyperacidity. *European Journal of Clinical Pharmacology* 2016; published online 29th October 2016