Research
Our consultants are active participants in medical research. They lecture nationally and internationally keeping them at the forefront of orthopaedic surgery. Below are some of their publications

1. A prospective randomised double-blind study of functional outcome and range of flexion following total knee replacement with the NexGen standard and high flexion components.
   **Nutton RW, van der Linden ML, Rowe PJ, Gaston P, Wade FA.**

2. Molecular Methods for Improving the Diagnosis of Joint Replacement Infections
   P. Gaston, D. Salter, A.H.R.W Simpson
   [http://www.show.scot.nhs.uk/cso/index.htm](http://www.show.scot.nhs.uk/cso/index.htm)

3. Cyclic pneumatic soft-tissue compression accelerates the union of distal radial osteotomies in an ovine model
   M.J. Challis, P. Gaston, K. Wilson, G.A.Jull, R. Crawford

4. Recovery of Knee Function Following Fracture of the Tibia Plateau
   *J Bone Joint Surg [Br].* Sep 2005;87-B:1233-1236

5. Analysis of muscle function in the lower limb after fracture of the diaphysis of the tibia in adults
   P. Gaston, E. Will, R.A. Elton, M.M. McQueen, C.M. Court-Brown.
   *J Bone Joint Surg [Br].* Apr 2000; 82-B:326-331

6. Acute Compartment Syndrome: who is at risk?
   M.M. McQueen, P. Gaston, C.M. Court-Brown

7. Tibial Fractures. Can Their Prognosis Be Predicted?
   P. Gaston, E. Will, R.A. Elton, M.M. McQueen, C.M. Court-Brown

8. Survival Analysis – A Better Estimate of Recurrent Disc Herniation

9. Randomised Trial of Buffered Versus Plain Lidocaine for Local Anaesthesia in Open Carpal Tunnel Decompression
   A.C. Watts, P. Gaston, G. Hooper.
   *Journal of Hand Surgery [Br].* Feb 2004; 29B(1):30-31

10. Long-Term Sequelae of Fasciotomy Wounds
    A.M. Fitzgerald, P. Gaston, Y. Wilson, A. Quaba, M.M. McQueen.
11. Total Hip Replacement in the Young
   P. Gaston
   ‘Surgeon’s News ’ – the magazine of the Royal College of Surgeons of Edinburgh.
   April 2005

12. Infected Joint Replacements
   P. Gaston, AHW Simpson

13. Urethral Duplication and Chordee – a rare association
   Lawson G.M. and Scobie, W.G.
   British Journal of Urology, May (1990); 65: 545-546.

14. Disc Battery Swallower – Two Contrasting cases
   Lawson G.M. and Scobie W.G.
   Scottish Medical Journal, April, (1990); 35; 51-52

15. The Role of the Paediatric Surgeon in Alleged Child Sex Abuse
   Lafferty P.M., Lawson G.M., Orr J.D. and Scobie W.G.

16. Repair of Coronal and Sub-coronal Hypospadias – an eight year retrospective study.
   Lafferty P.M., Lawson G.M., and Scobie W.G.
   J. Royal College of Surgeons of Edinburgh (1990); 35; 228-230

   Lawson G.M., Lafferty P.M., Scobie W.G. and Bussutil A.

18. Cefuroxime Prophylaxis in Proximal Femoral Fractures
   Lawson G.M. Littlejohn M.A. Miles R. and Hughes S.P.F.

   Following Epileptic Seizure.
   Lawson G.M. and Nutton R.W.
   Int J. Orthop Trauma (1993) 3;1;19-21

20. The Histo-Pathology of Fibrous Flexor Sheath Ganglia.
   Lawson G.M. Salter D.M. and Hooper G.

   Lawson G.M. Hajducka C. and McQueen MM

22. A Prospective Audit of Knee Arthroscopy – A Study of the Accuracy of Clinical Diagnosis and Therapeutic Value of 325 Knee Arthroscopies.
   Lawson G.M. and Nutton R.W.

   Lawson G.M. Salter D.M. and Hooper G.
   27. J Hand Surg (1995); 20B: 2: 479-483
29. Lawson G.M. and Glasby M.A.

31. Immediate and Delayed Nerve Repair using Freeze-Thawed Muscle Grafts in Complex Nerve Injuries – Cavitation, Fibrosis and Haematoma
32. Glasby M.A. Fullarton A.C. and Lawson G.M.

34. Immediate and Delayed Nerve Repair using Freeze-Thawed Muscle Autografts in Complex Nerve Injuries – Associated Arterial Injury
Glasby M.A. Fullarton A.C. and Lawson G.M.

35. Immediate and Delayed Nerve Repair using Freeze-Thawed Muscle Allografts in Complex Nerve Injuries – Associated Long Bone Fracture
Fullarton A.C. Glasby M.A. and Lawson G.M.
J. Hand Surg (1998); 23B: 3: 360 - 354.

Lawson G.M. and Glasby M. A.
J. Royal Coll Surg Edin (1998); 43: 295-302

Driscoll P.J. Glasby M.A. and Lawson G.M.
J. Orthop Res. (2002); 20: 370 – 375

38. Glomus Tumour of the knee
Beggs I, Lawson G.M. et al
Am. J. Roentgen. (2003); 181:1590 -92

"Guidewire damage during cannulated screw fixation for slipped capital femoral epiphysis."
J.E.Robb, M.F.Macnicol, I.H.Annan.

40. Delay increases the need for open reduction of type-III supracondylar fractures of the humerus.
Walmsley PJ, Kelly MB, Robb JE, Annan IA, Porter DE.

41. Indications for internal fixation of fractures in children.
Annan IH, Moran M.

42. COCHRANE REVIEW:
Meta-Analysis of Thromboembolic Prophylaxis after Hip Fracture Surgery  (Invited Publication)

43. Prophylaxis using heparin, low molecular weight heparin and physical methods against deep vein thrombosis and pulmonary embolism in hip fracture surgery.
(Cochrane Review)
44. ‘Revision Instability Surgery After Failed Thermal Capsulorraphy’. J.M.McBirnie and A.Miniaci.

45. Arthroscopic Repair of Full-Thickness Rotator Cuff Tears using Bioabsorbable Tacks.
   McBirnie J.M., Miniaci A. and Miniaci S
   Arthroscopy; 21(12), 1421-1428, 2005.

46. Cutting-edge design to improve cell viability in osteochondral grafts. Huntley J.S,
   McBirnie J.M., Simpson A.H. and Hall A.C.


   Miniaci A., McBirnie J.M. and Miniaci S

49. Kelly M, McBirnie J.M. and Burnett R. Humeral osteonecrosis leading to the early detection of a bronchial carcinoma.

50. Court-Brown C.M., McBirnie J.M. and Wilson G. Adult ankle fractures - an increasing problem?


52. McBirnie J.M. and Burnett R. A traction technique for intramedullary nailing of tibial fractures.


54. McBirnie J.M., Carnochan F. and Pugh G. Carbon dioxide monitoring as a means to determine whether a tracheo-oesophageal fistula has been adequately sealed by oesophageal intubation using a Wilson Cook Tube.

   Transcardiac echocardiography during invasive intramedullary procedures.


57. A significant proportion of patients with osteosarcoma belong to Li-


59. Familial breast cancer.
Steel C.M., Cohen B.B., Porter D.E. Seminars Cancer Biol. 3 141-150 (1992)

60. Breast cancer survival in BRCA1 carriers.

61. Linkage mapping in familial breast and ovarian cancer: improved localisation of a susceptibility gene on chromosome 17q12-21.

62. Recent advances in the genetics of heritable breast cancer.

63. Linkage of a major breast cancer gene to chromosome 17q12-21: results from 15 Edinburgh families.


65. Breast cancer incidence, penetrance and survival in probable carriers of BRCA1 gene mutation in families linked to BRCA1 on chromosome 17q12.

66. Structural chromosome analysis in peripheral blood lymphocytes of individuals belonging to breast cancer pedigrees suggest an association of genetic instability with a proportion of families not linked to the BRCA1 gene.

67. Mutation screening of the EXT1 and EXT2 genes in patients with hereditary multiple exostoses.

68. Germline mutations in the EXT1 and EXT2 genes in Korean patients with hereditary multiple exostoses.
70. The neoplastic pathogenesis of solitary and Multiple Osteochondromas.
   - and authors’ reply : J.Pathol. 190 517 (2000)

71. A clinical and radiographic analysis of osteochondromas and growth
disturbance in Hereditary Multiple Exostoses.
   Orth. 20 246-250 (2000)

72. Comparison of fluorescent single-strand conformation polymorphism
analysis and denaturing high-performance liquid chromatography for
detection of EXT1 and EXT2 mutations in hereditary multiple exostoses.
   Dobson-Stone C., Lonie L., Cox R., Fraser M., Porter D.E., Simpson
   A.H.R.W., Monaco A.M.

73. Hereditary Multiple Exostoses : a qualitative study exploring families’ and patients
perceptions of disease impact and self-expressed needs.
   Fraser M., Porter D.E.

74. The Hip in Hereditary Multiple Exostoses.
   Porter D.E., Benson M.K.D., Hosny G.A.

75. BRCA1 and BRCA2 mutations in Scotland and Northern Ireland. The
Scottish/Northern Irish BRCA1/BRCA2 Consortium. E Anderson, … D Porter et. al.

76. Disease severity and sarcoma risk in Hereditary Multiple Exostoses: A genotype-
phenotype study.
   Porter D.E., Lonie L., Fraser M., Dobson Stone C., Porter J.R., Monaco A.M.,
   Simpson A.H.R.W.

77. Ewing's Sarcoma of the Upper Extremity – Presenting Symptoms, Diagnostic Delay
and Outcome.
   Simpson P.M.S., Reid R, Porter D.E.
   Sarcoma 9 (1/2) 15-20 (2005)

78. Managing childhood orthopaedic abnormalities.
   Watts A.C., Porter D.E., Simpson

   Delay increases the need for open reduction of type-III supracondylar fractures of
   the humerus.

80. Myositis ossificans progressiva. Miss SL Waller, Mr DE Porter, Dr JS Huntley

81. Determination of the mutation spectrum of the EXT1/EXT2 genes in British
Caucasian patients with multiple osteochondromas, and exclusion of six candidate
genes in EXT negative cases.
   Lorne Lonie, Daniel E. Porter, Maria Fraser, Trevor Cole, Carol Wise, Laura Yates,
82. The Association between ulnar length and forearm movement in patients with multiple osteochondromas.
Adam C Watts, J Andrew Ballantyne, M Fraser, A Hamish RW Simpson, Daniel E Porter.

83. Endometriosis of the superior gluteal nerve.
S Reddy, D E Porter, JT Patton, A Al-Nafussi, I Beggs.

84. Twentieth century survival from childhood osteosarcoma; trends from 1933 to 2004.
L. Foster, G. F. Dall, R. Reid, H. Wallace, D. E. Porter.

85. Survival trends in osteosarcoma of the humerus.
A Pillai, K Sokhi, D Porter, R Reid.
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86. MRI surveillance after resection for primary musculoskeletal sarcoma
A. C. Watts, K. Teoh, T. Evans, I. Beggs, J. Robb, and D. Porter


88. The rate of skeletal maturation in the Scottish population – a comparison across 25 years (1980-2005)
Waller SL, Huntley JS, Porter DE, Williams L, Wilkinson AG.

89. Malignant Peripheral Nerve Sheath Tumour in the ischiorectal fossa – a case report.

90. Pretibial subcutaneous soft tissue lesions presenting to a paediatric orthopaedic clinic.
M Gaston, A Murray, D E Porter.

91. M.D. THESIS :
'STUDIES ON THE GENETIC EPIDEMIOLOGY OF HERITABLE BREASTCANCER.' Porter D.E.
Edinburgh University 1995

BOOK CHAPTER AUTHOR AND EDITOR
92. 'Molecular Genetics for General Surgery'. Smyth E.H., Porter D.E. In :

94. Femoral Shaft'. Porter D.E. In : 'Classification of Musculoskeletal Trauma'.

OTHER PERIODICAL / PUBLICATION AUTHORSHIP
103. 'Early Management of CNS Injury' chapter in Early Trauma and Critical Care Course Manual, Royal College of Surgeons of Edinburgh, 1999.
Parvizi J, Wade FA, Rapuri V, Springer BD, Berry DJ, Hozack WJ.

110. Femoral Perforation Complicating Contemporary Uncemented Hip Arthroplasty
Wade FA, Parvizi J, Sharkey PF, Purtill JJ, Hozack WJ
J Arthroplasty. 2006 Apr;21(3):452-5. PMID: 16627158

111. Isolated Acetabular Polyethylene Exchange Through the Anterolateral Approach.
Wade FA, Rapuri VR, Parvizi J, Hozack WJ.

112. The Impact of Daycase Surgery on GP Services
Wade FA, Makhdooimi KM, Turner AR

Invited Publications
Editorials
113. Digital Imaging in Trauma and Orthopaedic Surgery
Wade FA, Oliver CW, McBride K.
The Journal of Bone and Joint Surgery Volume 82-B: Aug;82(6):791-4

114. Living with digital imaging.
Wade FA, Oliver CW.
Clinical Orthopaedics. 2004 Apr;(421):25-8

Book Chapters
115. Removal Of Components And Cement
WJ Hozack, FA Wade
In: The Adult Hip
Edited by JJ Callaghan, AG Rosenberg and HE Rubash
Lippincott–Raven Publishers, Philadelphia

116. The Tapered Stem
PF Sharkey, FA Wade
In: Master Techniques In Orthopaedic Surgery – The Hip
Edited by RL Barrack, AG Rosenberg 0-7817-4634-5
Lippincott–Raven Publishers, Philadelphia