

PET-PANC: multicentre prospective diagnostic accuracy and health economic analysis study of the impact of combined modality ¹⁸fluorine-2-fluoro-2-deoxy-D-glucose positron emission tomography with computed tomography scanning in the diagnosis and management of pancreatic cancer

Paula Ghaneh,^{1*} Robert Hanson,² Andrew Titman,³
Gill Lancaster,³ Catrin Plumpton,⁴
Huw Lloyd-Williams,⁴ Seow Tien Yeo,⁴
Rhiannon Tudor Edwards,⁴ Colin Johnson,⁵
Mohammed Abu Hilal,⁶ Antony P Higginson,⁷
Tom Armstrong,⁶ Andrew Smith,⁸
Andrew Scarsbrook,⁹ Colin McKay,¹⁰ Ross Carter,¹⁰
Robert P Sutcliffe,¹¹ Simon Bramhall,¹²
Hemant M Kocher,¹³ David Cunningham,¹⁴
Stephen P Pereira,¹⁵ Brian Davidson,¹⁶ David Chang,¹⁷
Saboor Khan,¹⁸ Ian Zealley,¹⁹ Debashis Sarker,²⁰
Bilal Al Sarireh,²¹ Richard Charnley,²² Dileep Lobo,²³
Marianne Nicolson,²⁴ Christopher Halloran,¹
Michael Raraty,²⁵ Robert Sutton,²⁵
Sobhan Vinjamuri,²⁶ Jonathan Evans,²⁷
Fiona Campbell,²⁸ Jon Deeks,²⁹ Bal Sanghera,³⁰
Wai-Lup Wong³⁰ and John P Neoptolemos¹

¹Department of Molecular and Clinical Cancer Medicine, University of Liverpool, Liverpool, UK

²Liverpool Cancer Research UK Cancer Trials Unit, University of Liverpool, Liverpool, UK

³Department of Mathematics and Statistics, Lancaster University, Lancaster, UK

- ⁴Centre for Health Economics and Medicines Evaluation, Bangor University, Bangor, UK
- ⁵Faculty of Medicine, University of Southampton, Southampton, UK
- ⁶Department of Surgery, University Hospital Southampton NHS Foundation Trust, Southampton, UK
- ⁷Department of Radiology, Portsmouth Hospitals NHS Trust, Portsmouth, UK
- ⁸Department of Gastrointestinal Surgery, Leeds Teaching Hospitals NHS Trust, Leeds, UK
- ⁹Department of Radiology, Leeds Teaching Hospitals NHS Trust, Leeds, UK
- ¹⁰Department of Surgery, Glasgow Royal Infirmary, NHS Greater Glasgow and Clyde, Glasgow, UK
- ¹¹Department of Surgery, University Hospitals Birmingham NHS Foundation Trust, Birmingham, UK
- ¹²Department of General Surgery, Wye Valley NHS Trust, Hereford, UK
- ¹³Barts Cancer Institute, Barts and the London School of Medicine and Dentistry, London, UK
- ¹⁴Gastrointestinal and Lymphoma Unit, Royal Marsden NHS Foundation Trust, London, UK
- ¹⁵Institute for Liver and Digestive Health, University College London Hospitals NHS Foundation Trust, London, UK
- ¹⁶Department of Surgery, Royal Free London NHS Foundation Trust, London, UK
- ¹⁷Department of Surgery, Royal Blackburn Hospital, East Lancashire Hospitals NHS Trust, Blackburn, UK
- ¹⁸Department of Surgery, University Hospitals Coventry and Warwickshire NHS Trust, Coventry, UK
- ¹⁹Department of Surgery, Ninewells Hospital and Medical School, NHS Tayside, Dundee, UK
- ²⁰Department of Oncology, King's College Hospital NHS Foundation Trust, London, UK
- ²¹Department of Surgery, Morriston Hospital, Abertawe Bro Morgannwg University Health Board, Swansea, UK
- ²²Department of Surgery, Newcastle Hospitals NHS Foundation Trust, Newcastle upon Tyne, UK
- ²³Faculty of Medicine and Life Sciences, University of Nottingham, Nottingham, UK
- ²⁴Department of Oncology, Aberdeen Royal Infirmary, NHS Grampian, Aberdeen, UK
- ²⁵Department of Surgery, Royal Liverpool and Broadgreen University Hospitals NHS Trust, Liverpool, UK
- ²⁶Department of Nuclear Medicine, Royal Liverpool and Broadgreen University Hospitals NHS Trust, Liverpool, UK
- ²⁷Department of Radiology, Royal Liverpool and Broadgreen University Hospitals NHS Trust, Liverpool, UK
- ²⁸Department of Pathology, Royal Liverpool and Broadgreen University Hospitals NHS Trust, Liverpool, UK
- ²⁹Institute of Applied Health Research, University of Birmingham, Birmingham, UK
- ³⁰Paul Strickland Scanner Centre, Mount Vernon Hospital, Middlesex, UK

*Corresponding author p.ghaneh@liverpool.ac.uk

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Plain English summary

The PET-PANC study

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Plain English summary

Overall survival for patients with pancreatic cancer remains poor. Challenges in the care of patients with pancreatic cancer include late presentation and difficulties in early diagnosis. Standard diagnosis of patients with pancreatic cancer consists of a computed tomography (CT) scan, a magnetic resonance imaging (MRI) scan and camera tests. Additional imaging tests may be able to identify pancreatic cancer and the stage of disease more effectively. This would mean that patients would receive the most appropriate treatment at the right time. Positron emission tomography (PET)/CT is a nuclear medicine scan that gives a functional image of the body along with the CT scan. This study used PET/CT in patients with suspected pancreatic cancer as well as standard tests to see if the diagnosis and treatment of these patients could be improved. In total, 550 patients had PET/CT scans. The PET/CT added significantly to the accuracy of standard tests, improving the diagnosis of pancreatic cancer. PET/CT influenced the management of 45% of patients. PET/CT was able to correctly stage the extent of the tumours in a greater number of patients than standard diagnostic tests. This meant that the addition of PET/CT changed the management of these patients to more appropriate therapies. The biggest benefit was seen for those patients who were due to have surgery. We calculated that the use of PET/CT was likely to be good value for money for the NHS. This study suggests that PET/CT is likely to be beneficial in the diagnosis and management of patients with suspected pancreatic cancer.

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