

Research interests

Stephen Clark is a Consultant Cardiothoracic and Transplant Surgeon at Freeman Hospital, Newcastle upon Tyne and is the Director of Cardiopulmonary Transplantation. He is also a Medical Examiner.

He is Professor of Cardiothoracic Surgery and Transplantation in the Faculty of Health and Life Sciences, University of Northumbria.

He was appointed in 2000 after training in Newcastle, London, Cambridge and Toronto. He is Chairman of the European Board of Cardiothoracic Surgery and is a Fellow of the Faculty of Surgical Trainers. He is a former Clinical Director for Quality and Patient Safety.

Stephen represents the Society for Cardiothoracic Surgery in Great Britain and Ireland on CORESS and is a member of the SCTS Transplantation Sub-Committee. He has a long standing interest in medicolegal practice, human factors, fatigue effects, patient safety checklists and protocols.

He has an ongoing commitment to setting up heart and lung transplant programs in Asia, especially Sri Lanka where he guided the first heart transplant there last year.

Employment

Professor

Applied Sciences Department

Northumbria University

25 Apr 2014 → present

Research output

The coronary circulation in healthy and diseased states

Pathania, V. & Clark, S., 1 Jun 2024, In: BJA Education. 24, 6, p. 210-216 7 p.

Can ChatGPT transform cardiac surgery and heart transplantation?

Clark, S., 26 Feb 2024, In: Journal of Cardiothoracic Surgery. 19, 1, 7 p., 108.

Enhancing surgical performance in cardiothoracic surgery with innovations from computer vision and artificial intelligence: a narrative review

Constable, M. D., Shum, H. P. H. & Clark, S., 14 Feb 2024, In: Journal of Cardiothoracic Surgery. 19, 1, 10 p., 94.

Early experience of a new national lung allocation scheme in the UK based on clinical urgency

Al-Adhami, A., Al-Aloul, M., Rushton, S., Thompson, R. D., Carby, M., Lordan, J., Clark, S., Spencer, H., Tsui, S. & Parmar, J., 20 Nov 2023, In: Thorax. 78, 12, p. 1206-1214 9 p.

Risk of prolonged ischemic time linked to use of cardiopulmonary bypass during implantation for lung transplantation in the United Kingdom

Mehew, J. D., Hogg, R., Clark, S., Santhanakrishnan, K., Catarino, P., Mascaro, J., Stock, U. & Dark, J., 1 Oct 2023, In: Journal of Heart and Lung Transplantation. 42, 10, p. 1378-1396 19 p.

Transventricular Cardioscopic Release of a Trapped Prosthetic Mitral Valve Leaflet

Chilvers, N. J. S., Evans, Z. M., Balasubramanian, S., O'Leary, D., Ledingham, S. & Clark, S. C., 1 Sept 2023, In: Innovations: Technology and Techniques in Cardiothoracic and Vascular Surgery. 18, 5, p. 494-497 4 p.

A national pilot of donation after circulatory death (DCD) heart transplantation within the United Kingdom

Messer, S., Rushton, S., Simmonds, L., Macklam, D., Husain, M., Jothidasan, A., Large, S., Tsui, S., Kaul, P., Baxter, J., Osman, M., Mehta, V., Russell, D., Stock, U., Dunning, J., Saez, D. G., Venkateswaran, R., Curry, P., Ayton, L. & Mukadam, M. & 32 others, Mascaro, J., Simmonds, J., Macgowan, G., Clark, S., Jungschleger, J., Reinhardt, Z., Quigley, R., Speed, J., Parameshwar, J., Jenkins, D., Watson, S., Marley, F., Ali, A., Gardiner, D., Rubino, A., Whitney, J., Beale, S., Slater, C., Currie, I., Armstrong, L., Foley, J., Ryan, M., Gibson, S., Quinn, K., Macleod, A. M., Spence, S., Watson, C. J. E., Catarino, P., Clarkson, A., Forsythe, J., Manas, D. & Berman, M., 1 Aug 2023, In: Journal of Heart and Lung Transplantation. 42, 8, p. 1120-1130 11 p.

Association between sternal wound complications and 10-year mortality following coronary artery bypass grafting

Gaudino, M., Audisio, K., Rahouma, M., Robinson, N. B., Soletti, G. J., Cancelli, G., Masterson Creber, R. M., Gray, A., Lees, B., Gerry, S., Benedetto, U., Flather, M., Taggart, D. P., Arterial Revascularization Trial Investigators & Clark, S., 1 Aug 2023, In: *Journal of Thoracic and Cardiovascular Surgery*. 166, 2, p. 532-539.e4 8 p.

Combined heart–liver transplantation in the UK

Dronavalli, V. & Clark, S., 1 May 2023, In: *Annals of the Royal College of Surgeons of England*. 105, 5, p. 476-476 1 p.

Heart and lung transplantation

Clark, S. C., 29 Mar 2023, *Bailey and Love's: Short Practice of Surgery*. O'Connell, P. R., McCaskie, A. W. & Sayers, R. D. (eds.). 28th ed. Boca Raton, US: CRC Press, p. 1636-1646 11 p. (Bailey and Love's: Short Practice of Surgery: 28th Edition).

Lung injury in cardiopulmonary bypass

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A distractions capture tool for cardiac surgery and lung transplantation: impact on outcomes

Arkley, J., Ong, L. P., Gunaratnam, N., Butt, T. & Clark, S. C., 23 Jan 2023, In: *Journal of Cardiothoracic Surgery*. 18, 1, 9 p., 46.

Do older surgeons have safer hands? A retrospective cohort study

Rizzo, V., Caruana, E. J., Freystaetter, K., Parry, G. & Clark, S. C., 1 Sept 2022, In: *Journal of Cardiothoracic Surgery*. 17, 1, 7 p., 223.

Diagnosis and predicted outcomes of patients with cystic fibrosis related liver disease considered for lung transplantation

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A human model of bilateral pulmonary vein sampling to assess the effects of one-lung ventilation on neutrophil function

Funston, W., Ruchaud-Sparagano, M.-H., Scott, J., Powell, J., Cooles, F. A. H., Shelmerdine, L., McDowell, C., O'Leary, D., Booth, K. L., Clark, S. C., Ledingham, S. J., Rostron, A. J., Dark, J. H. & Simpson, A. J., 26 Jul 2022, In: *PLoS One*. 17, 7, 15 p., e0271958.

Effects on the Patient Pathway for Heart and Lung Transplantation During the COVID 19 Pandemic

Clark, S., Pingle, V. & Parry, G., 16 Jun 2022, In: *Journal of Clinical and Medical Research*. 4, 3, 4 p.

Feasibility and acceptability of a physical activity behavioural modification tele-coaching intervention in lung transplant recipients

Hume, E., Muse, H., Wallace, K., Wilkinson, M., Marshall Heslop, K., Nair, A., Clark, S. & Vogiatzis, I., 2022, In: *Chronic Respiratory Disease*. 19, 13 p., 147997312211165.

Long-term follow-up of a patient with JAG1-associated retinopathy

Cheema, M. R., Stone, L. G., Sellar, P. W., Quinn, S., Clark, S. C., Martin, R. J., O'Brien, J. M., Warriner, C. & Browning, A. C., 1 Oct 2021, In: *Documenta Ophthalmologica*. 143, 2, p. 237-247 11 p.

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The impact of the SARS-CoV-2 pandemic and COVID-19 on lung transplantation in the UK: Lessons learned from the first wave

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Exercise training for lung transplant candidates and recipients: a systematic review

Hume, E., Ward, L., Wilkinson, M., Manifold, J., Clark, S. & Vogiatzis, I., 31 Dec 2020, In: *European Respiratory Review*. 29, 158, p. 1-19 19 p., 200053.

Patient safety checklists in heart and lung transplantation

Clark, S., 7 Sept 2020, In: *Trends in Transplantation*. 13, 2, 2 p.

Infective endocarditis in intravenous drug users in Europe: A clean start?

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Donation after circulatory death in lung transplantation—five-year follow-up from ISHLT Registry

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Bilateral versus single internal-thoracic-artery grafts at 10 years

Arterial Revascularization Trial Investigators, Taggart, D. P., Benedetto, U., Gerry, S., Altman, D. G., Gray, A. M., Lees, B., Gaudino, M., Zamvar, V., Bochenek, A., Buxton, B., Choong, C., Clark, S., Deja, M., Desai, J., Hasan, R., Jasinski, M., O'Keefe, P., Moraes, F. & Pepper, J. & 6 others, Seevanayagam, S., Sudarshan, C., Trivedi, U., Wos, S., Puskas, J. & Flather, M., 31 Jan 2019, In: *New England Journal of Medicine*. 380, 5, p. 437-446 10 p.

Mini-sternotomy for retrosternal thyroidectomy - how we do it and potential advantages for patients

Chan, S., Rizzo, V., Nolan, G., Fox, H., Clark, S. & Welch, A., Jan 2019, In: *British Journal of Surgery*. 106, S1, p. 17-18 2 p.

Quadruple valve replacement for carcinoid heart disease

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Outcomes of lung transplantation in adults with bronchiectasis

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Early Clinical Results of Perceval Sutureless Aortic Valve in 139 Patients: Freeman Experience

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Aortic valve replacement with a conventional stented bioprosthesis versus sutureless bioprosthesis: A study of 763 patients

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Thrombocytopenia after aortic valve replacement: Comparison Between Sutureless Perceval S Valve and Perimount Magna Ease Bioprosthesis

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Carcinoid Heart Disease: Early Outcomes after Surgical Valve Replacement in Nine Patients

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Leadership Oversight for Patient Safety Programs: An Essential Element

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Extended trans-septal versus left atrial approach in mitral valve surgery: 1017 patients' experience

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Sutureless aortic valve replacement: Progress for the sake of progress?

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Pacemaker Implantation Rate Post Sutureless Aortic Valve Replacement: 23% Is Just Too High

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Profiling inflammation and tissue injury markers in perfusate and bronchoalveolar lavage fluid during human ex vivo lung perfusion

Andreasson, A., Karamanou, D., Gillespie, C., Özalp, F., Butt, T., Hill, P., Jiwa, K., Walden, H., Green, N., Borthwick, L., Clark, S., Pauli, H., Gould, K., Corris, P., Ali, S., Dark, J. & Fisher, A., 7 Dec 2016, In: European Journal of Cardio-thoracic Surgery. 51, 2, p. 577-586

Lung transplantation in Turkey: lessons from surgeons and pulmonologists

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Comment on: Compassionate deactivation of ventricular assist devices in pediatric patients

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Observational study of lung transplant recipients surviving 20 years

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International Expert Consensus on Sutureless and Rapid Deployment Valves in Aortic Valve Replacement Using Minimally Invasive Approaches

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Bridging to lung transplantation for severe pulmonary hypertension using dual central Novalung lung assist devices
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The UK Retrieval Team "Scout" Pilot Programme

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Managing bronchial anastomotic complications – The influence of aspergillosis

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Should Recipients Choose Their Donor? Experience of a New Consent Process in Lung Transplantation

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Successful Transplantation of Unusable Donor Lungs Using Ex-Vivo Lung Perfusion: The Newcastle Experience

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The Use of Cardiopulmonary Bypass in Lung Transplantation

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Newcastle Experience

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