

Dr Jennifer S Lees

MA (Cantab) MBChB MRCP (Neph) PhD

Curriculum Vitae

Personal details

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		GitHub	jennifer-s-lees

GMC registration 2009-present: Registered with a licence to practice (#7041214)
2022-present: Specialty register for Renal and General Internal Medicine

Career statement

I qualified from the Universities of Cambridge (2006) and Edinburgh (2009) and moved to Glasgow to train in nephrology and internal medicine (2013). Though I have taken an active interest in clinical academia since my early undergraduate years, my formal research career began with a PhD at the University of Glasgow (2016-2020) exploring the role of vitamin K in vascular health and disease (funded by British Heart Foundation Centre of Excellence Award and a personal training fellowship from Kidney Research UK).

I was competitively appointed as a Chief Scientist Office (Scotland) Clinical Lecturer in Renal Medicine at the University of Glasgow until the completion of my clinical training (2022). I am currently employed as a Senior Clinical Research Fellow in Renal Medicine and Lead for Data Science (School of Cardiovascular and Metabolic Health, University of Glasgow). My main research interests are in the long-term outcomes in people with CKD, particularly cardiovascular disease and cancer. My main University role is research, including training and supervision of undergraduate, BSc, MSc and PhD students, with a small teaching component.

I have recently been awarded a competitive personal research fellowship from the Wellcome Trust. During this fellowship, I will use routine data and trial individual participant-level data to study the role of kidney function estimates in treatment pathways and outcomes among patients with cancer.

I continue active clinical work. Within my role Honorary Consultant Nephrologist (NHS Greater Glasgow and Clyde; 2022-present), I care for nephrology inpatients, and have outpatient clinics covering general nephrology and transplantation.

Education and qualifications

2022: Certificate of Completion of Training – Nephrology and General Internal Medicine

2020: Doctor of Philosophy (PhD) – Medicine: University of Glasgow

2019: Specialty Certificate Examination (SCE) – Nephrology: Royal College of Physicians

2012: Member of the Royal College of Physicians (MRCP): Royal College of Physicians

2006-2009: Bachelor of Medicine Bachelor of Surgery (MBChB): University of Edinburgh

2010: Master of Arts (MA; Cantab): University of Cambridge

2003-2006: Bachelor of Arts (BA; Hons): University of Cambridge

Career history

I have achieved satisfactory career progression at all stages of my training and have no career gaps.

- 2022-present: Post-CCT Senior Clinical Research Fellow in Renal Medicine (University of Glasgow) and Honorary Consultant Nephrologist (NHS Greater Glasgow and Clyde)
- 2020-2022: Clinical Lecturer in Renal Medicine (University of Glasgow) and Honorary Specialty Registrar in Nephrology and General Internal Medicine – West of Scotland
- 2019-2020: Specialty Registrar in Nephrology and General Internal Medicine – West of Scotland
- 2016-2019: Out of programme research experience: PhD at the University of Glasgow
- 2013-2016: Specialty Registrar in Nephrology and General Internal Medicine – West of Scotland
- 2011-2013: Core Medical Training – South-East Scotland
- 2009-2011: Academic Foundation Trainee – South-East Scotland

Membership of professional and research organisations

- 2010-present: Scottish Renal Association (SRA)
- 2010-present: Royal College of Physicians of Edinburgh (RCPE)
- 2016-present: European Renal Association (ERA)
- 2016-present: ERA Young Nephrologists' Platform
- 2018-present: Chronic Kidney Disease Prognosis Consortium (CKD-PC)
- 2021-present: UK Kidney Association (UKKA)
- 2018-present: UK Renal Trials Network (UKRTN)
- 2022-present: UKKA eGFR group
- 2022-present: UKKA Renal Data Science Network

Publications

- **Publications:** 57 (48% first author; 36% corresponding author; 10% last author)
- **H-index:** Web of Science 13, Google Scholar 15.
- **Citation count:** 846.
- **ORCID:** <https://orcid.org/0000-0001-6331-0178>
- **Highest Altmetrics scores:** 810*** (ref #22), 808** (ref #19), 167*(ref #10)

Original research

1. Dawson J, **Lees JS**, Chang T-P, Walters MR, Ali M, David SM, Diener H-C, Lees KR and for the GAIN and VISTA Investigators. "Association between disability measures and healthcare costs after initial treatment for acute stroke". *Stroke* (2007); 38(6): 1893-1898
2. Quinn TJ, Dawson J, **Lees JS**, Chang TP, Walters MR, Lees KR, and for the GAIN and VISTA investigators. "Time spent at home post stroke: "Home-time" - a meaningful and robust outcome measure for stroke trials". *Stroke* (2008); 39(1): 231-233
3. **Lees JS**, Mishra NK, Saini M, Lyden PD, Shuaib A. "Low body temperature does not significantly compromise therapeutic effect of alteplase". *Stroke* (2011); 42(9): 2618-2621
4. **Lees JS**, McQuarrie EP, Mordi N, et al. "Risk factors for bleeding complications after nephrologist-performed native renal biopsy". *Clin Kidney J* (2017); 10(4): 573-577
5. Stoumpos S, **Lees J**, Welsh P, et al. "The utility of anti-Mullerian hormone in women with chronic kidney disease, on haemodialysis and after kidney transplantation". *Reprod Biomed Online* (2018); 36(2): 219-226
6. Gillis KA, **Lees JS**, Ralston MR, et al. "Interaction between socioeconomic deprivation and likelihood of pre-emptive transplantation: influence of competing risks and referral characteristics – a retrospective study". *Transpl Int* (2018); doi: 10.1111/tri.13336
7. **Lees JS**, Findlay M, Mark PB, Geddes CC. "The impact of coronary angiography on renal transplant function". *QJM* (2018); 112(1): 23-27
8. Elyan BMP, **Lees JS**, Gillis KA, et al. "Obesity is not associated with progression to end stage renal disease in patients with biopsy-proven glomerular diseases". *BMC Nephrol* (2019); 20(1): 237
9. Grant CH, Gillis KA, **Lees JS**, et al. "Proton pump inhibitor use and progression to major adverse renal events: a competing risk analysis". *QJM* (2019); doi: 10.1093/qjmed/hcz166
10. ***Lees JS**, Welsh CE, Celis-Morales C, et al. "Glomerular filtration rate by differing measures, albuminuria and prediction of cardiovascular disease, mortality and end-stage kidney disease". *Nat Med* (2019); 25: 1753-1760. Author correction: *Nat Med* (2020); 26(8): 1308.
11. **Lees JS**, Mangion K, Rutherford E, et al. "Vitamin K for kidney transplant organ recipients: investigating vessel stiffness (ViKTORIES): study rationale and protocol of a randomised controlled trial". *Open Heart* (2020); 7: e001070. doi: 10.1136/openhrt-2019-001070
12. Witham MD, **Lees JS**, White M, et al. "Vitamin K supplementation to improve vascular stiffness in chronic kidney disease - the K4Kidneys randomised controlled trial". *J Am Soc Nephrol* (2020); 31(10): 2434-2445
13. Rankin AJ, Zhu L, Mangion K, et al (**middle author**). "Global longitudinal strain by feature-tracking cardiovascular magnetic resonance imaging predicts mortality in patients with end-stage kidney disease". *Clin Kidney J* (2021); 14(10): 2187-2196
14. O'Sullivan E, **Lees JS**, Howie KL, et al. "Prolonged SARS-CoV-2 viral shedding in patients with chronic kidney disease". *Nephrology* (2021); 26 (4): 328.322
15. **Lees JS**, Rankin AJ, Gillis KA, et al. "The ViKTORIES trial: a randomised, double-blind, placebo-controlled trial of vitamin K supplementation to improve vascular health in kidney transplant recipients". *Am J Transplant* (2021); 21(10): 3356-3368
16. Sullivan M, Jani B, **Lees JS**, et al. "Multimorbidity and the risk of major adverse kidney events: findings from the UK Biobank cohort". *Clin Kidney J* (2021); 14(11): 2409-2419
17. Li KK, Woo YM, Stirrup O, et al (**middle author**). "Genetic epidemiology of SARS-CoV-2 transmission in renal dialysis units – a high risk community-hospital interface." *J Infection* (2021); 83(1): 96-103
18. Edy E, Rankin AJ, **Lees JS**, et al. "Cardiovascular MRI for the detection of thoracic aorta calcification in patients with end-stage renal disease". *J Cardiovasc Magn Reson* (2021); 23(1): 85

19. ****Lees JS**, Ho F, Parra-Soto S, et al. "Kidney function and cancer risk: an analysis using creatinine and cystatin C in a cohort study". *EClinicalMedicine* (2021); 38: 101030
20. Sullivan MK, **Lees JS**, Drake TM, et al. "Acute kidney injury in patients hospitalised with COVID-19 from the ISARIOC WHO CCP-UK Study". *Nephrol Dial Transplant* (2021) [online ahead of print]
21. Rankin AJ, Mangion K, **Lees JS**, et al. "Myocardial changes on 3T cardiovascular magnetic resonance imaging in response to haemodialysis with fluid removal". *J Cardiovasc Magn Reson* (2021); 23(1): 125
22. *****Sullivan MK**, Jani B, Rutherford E, ... **Lees JS (senior author)**. "Potential impact of NICE guidelines on referrals from primary care to nephrology". *Br J Gen Practice* (2022); 73(727): e141-147
23. Morrow AJ, Sykes R, McIntosh A, et al (**consortium member**). "A multi-system cardio-renal investigation of post-COVID-19 illness. *Nat Med* (2022); 28(6): 1303-1313.
24. Mayne KJ, Shemilt R, Keane DF, **Lees JS (joint senior author)**, Mark PB, Herrington WG. "Bioimpedance indices of fluid overload and cardiorenal outcomes in heart failure and chronic kidney disease: a systematic review". *J Card Fail* (2022) [in press]
25. **Lees JS**, Hanlon P, Butterly E, et al. "The impact of age, sex and morbidity count on trial attrition: a meta-analysis of individual participant-level data from phase 3/4 industry-funded clinical trials". *BMJ Medicine* (2022) 1(1): e000217
26. **Lees JS**, Rutherford E, Stevens KI, et al. "Assessment of Cystatin C for risk stratification in adults with chronic kidney disease". *JAMA Netw Open* (2022); 5(1): e2238300
27. Mayne KJ, **Lees JS**, Rutherford E et al. "Neutrophil-to-lymphocyte and platelet-to-lymphocyte ratios: associations with mortality in a haemodialysis cohort." *Clin Kidney J* (2022) 16(3): 512-520
28. Lithgow H, Johnston L, Ho FK et al (**Lees JS, middle author**). "Protocol for a randomised controlled trial to investigate the effects of vitamin K2 on recovery from muscle damaging resistance exercise in young and older adults – the TAKEOVER study." *Trials* (2022) 23(1): 1026
29. Chen DC, **Lees JS**, Lu K et al. "Differential associations of cystatin C versus creatinine based kidney function with risks of cardiovascular event and mortality among South Asian individuals in the UK Biobank". *J Am Heart Assoc* (2022) 12(3): e027079
30. **Lees JS**, De La Mata N, Sullivan MK et al. "Sex differences in associations between creatinine and cystatin C-based kidney function measures with stroke and major bleeding". *European Stroke Journal* (2023); 8(3): 756-768
31. Mangion K, Morrow AJ, Sykes R et al (**Lees JS, consortium member**). "Post-COVID-19 illness and associations with sex and gender". *BMA Cardiovasc Disord* (2023); 23(1): 389
32. McGovern D, **Lees JS**, Traynor JP et al. "Outcome in ANCA-associated vasculitis in Scotland: validation of the renal risk score in a complete national cohort". *Kidney International Reports* (2023); 8(8): 1648-1656
33. Grams ME, Coresh J, Matsushita K et al (**Lees JS, middle author**). "Estimated glomerular filtration rate, albuminuria and adverse outcomes: an individual participant meta-analysis". *Journal of the American Medical Association* (2023) 330(13): 1266-1277.
34. Jani BD, Sullivan MK, Hanlon P et al (**Lees JS, middle author**). "Personalised Lung Cancer Risk Stratification and Lung Cancer Screening: Do General Practice Electronic Medical Records have a Role?". *British Journal of Cancer* (2023) 129(12): 1968-1977
35. Mayne KJ, Staplin N, Keane D et al (**Lees JS, middle author**). "Effects of Empagliflozin on Fluid Overload, Weight and Blood Pressure in Chronic Kidney Disease". *J Am Soc Nephrol* (2023) [online ahead of print]
36. Bate S, McGovern D, Costigliolo F et al (**Lees JS, middle author**). "The Improved Kidney Risk Score in ANCA Vasculitis for Clinical Practice and Trials". *J Am Soc Nephrol* (2023) [online ahead of print]

Reviews/meta-analysis

37. **Lees JS**, Sena ES, Egan K, et al. "Stem cell-based therapy for experimental stroke: a systematic review and meta-analysis". *Int J Stroke* (2012); 7(7): 582-528
38. Antonic A, Sena ES, **Lees JS**, et al. "Stem cell transplantation in traumatic spinal cord injury: a systematic review and meta-analysis of animal studies." *PLoS Biol* (2013); 11(12) e1001738

39. **Lees JS**, Mark PB, Jardine AG. "Cardiovascular complications of chronic kidney disease." *Medicine* (2015); 43 (8): 469-473.
40. **Lees JS**, Chapman FA, Witham MD, Jardine AG, Mark PB. "Vitamin K status, supplementation and vascular disease: a systematic review and meta-analysis". *Heart* (2019); 105(12): 938-945
41. **Lees JS**, Mark PB, Witham MD. "Vitamin K and vascular calcification" *Curr Opin Nephrol Hypertens* (2021); 30(4): 430-436
42. **Lees JS**, Elyan BMP, Herrmann SM, et al. "The 'other' big complication: how chronic kidney disease impacts on cancer risks and outcomes". *Nephrol Dial Transplant* (2023) 38(5): 1071-1079
43. Mayne KJ, **Lees JS**, Mark PB. "Cardiovascular complications of chronic kidney disease." *Medicine* (2022).
44. Mayne KJ, **Lees JS**, Herrington WG. "Bioimpedance in CKD: an untapped resource?". *Nephrol Dial Transplant* (2023) 38(3): 583-585
45. Mayne KJ, Shemilt R, Kean DF, **Lees JS (joint senior author)**, Mark PB, Herrington WG. "Bioimpedance indices of fluid overload and cardiorenal outcomes in heart failure and chronic kidney disease: a systematic review". *J Card Fail* (2022) 29(11): 1628-1641
46. **Lees JS**, Dobbin SJH, Elyan BMP, Gilmour DF, Tomlinson LP, Lang NN, Mark PB. "A systematic review and meta-analysis of the effect of intravitreal VEGF inhibitors on cardiorenal outcomes." *Nephrol Dial Transplant* (2023) 38(7): 1666-1681
47. Grant CH, Salim E, **Lees JS**, Stevens KI. Deprivation and chronic kidney disease: a review of the evidence. *Clin Kidney J* (2023) 16(7): 1081-1091
48. Elyan BMP, Rankin S, Jones R, Lang NN, Mark PB, **Lees JS [senior author]**. "Kidney Disease Patient Representation in Trials of Combination Therapy With VEGF-Signaling Pathway Inhibitors and Immune Checkpoint Inhibitors: A Systematic Review". *Kidney Medicine* (2023) 5(7): 100672
49. Mayne KJ, Sullivan MK, **Lees JS [senior author]**. "Sex and gender differences in the management of chronic kidney disease and hypertension". *Journal of Human Hypertension* (2023) 37(8): 649-653
50. Rankin S, Elyan BMP, Jones RC et al (**Lees JS, middle author**). "Cardiovascular eligibility criteria and adverse event reporting in combined immune checkpoint and VEGF inhibitor trials". *JACC Cardio-Oncology* 2024 [in press]

Editorial/commentary

51. **Lees JS**, McQuarrie EP, Mackinnon B. "Renal biopsy: it is time for pragmatism and consensus". *Clin Kidney J* (2018); 11(5): 605-609
52. **Lees JS**, Mark PB. "Cystatin C to predict renal disease and cardiovascular risk". *Nephrol Dial Transplant* (2020); 36 (1): 39-41
53. **Lees JS** and Mark PB. "Fruit for thought: lifestyle interventions to reduce the risk of future chronic kidney disease". *Nephrol Dial Transplant* (2021); 36(6): 963-965
54. **Lees JS** and Mark PB. "Insights into vitamin K metabolism in chronic kidney disease: more complicated than kale deficiency". *Kidney Int* (2022); 101(2): 216-219
55. **Lees JS** and Shlipak MG. "Age-adapted eGFR thresholds underestimate risks beyond kidney failure associated with CKD in older populations". *J Am Geriatr Soc* (2022) 70(12): 3660-3664
56. Stevens KI, Graham-Brown M, **Lees JS (senior author)**. "Let's get physical: considering and overcoming the barriers to physical activity in CKD". *Nephrol Dial Transplant* (2022) 38(6): 1405-1407
57. Stevens KI and **Lees JS (senior author)**. "Measure and risk: Cystatin C, creatinine and controversy in CKD". *Nephrol Dial Transplant* (2023) 38(8): 1785-1788
58. Radley A, **Lees JS**, Stevens KI. "Cardiovascular disease in older women with CKD". *Clin Kidney J* (2023); 16(12): 2304-2308
59. **Lees JS** and Mark PB. "GFR slope as a surrogate marker for future kidney failure". *Nature Reviews Nephrology* (2023) 19(10): 625-626

Case reports

60. **Lees JS**, Church N, Langdale-Brown B, Bellamy C, Gibson P, Watson S. "IgG4-related disease: a novel, important but easily missed condition." *J R Coll Physicians Edinb.* (2013); 43(2): 126-33.

61. Groome C, Doak A, Stirling C, **Lees JS (senior author)**. "Under pressure". Hypertension Journal (2023) 7(2): 99-102

Book chapters

- **Lees JS**, Jardine AG. "Chapter 30: Cardiovascular Disease in Renal Transplantation", Kidney Transplantation – Principles and Practice 8th Edition, Elsevier [2019]
- Shemilt R, **Lees JS**, Mark PB. "Chapter 30: Cardiovascular Disease in Renal Transplantation", Kidney Transplantation – Principles and Practice 9th Edition, Elsevier [in press]

International Presentations

Oral

1. **Lees JS**, Sena ES, Howells DW, Koblar SA, Macleod MR. "A Systematic Review of Stem Cell Therapies in Animal Models of Focal Ischemia". European Stroke Conference, 2008.
2. **Lees JS** et al. "ViKTORIES trial results" European Renal Association Congress 2020
3. **Lees JS** et al. "Kidney function measures and risk of cancer incidence, cancer death and all-cause mortality" European Renal Association Congress 2021
4. **Lees JS** et al. "Cystatin C testing improves risk stratification associated with chronic kidney disease without adopting age-adapted diagnostic thresholds: a UK Biobank study" ERA Congress 2022, Paris
 - a. **Top 10 scoring abstract** of the conference
5. **Lees JS** et al. "Measuring clinical judgement in prospective kidney transplant recipients: a feasibility study." European Renal Association Congress 2023

Poster

1. **Lees JS**, Sena ES, Howells DW, Koblar SA, Macleod MR. "A Systematic Review of Stem Cell Therapies in Animal Models of Focal Ischemia". Mt Lofty Stem Cell Workshop, 2007.
2. **Lees JS**, Mishra NK, Saini M, Lyden PD, Shuaib A, on behalf of the VISTA collaborators. "Low body temperature does not significantly compromise therapeutic effect of alteplase". Poster presentation, International Stroke Conference, 2011.
3. **Lees JS**, Graham C, Turner AN, on behalf of the VISTA collaborators. "Baseline chronic kidney disease does not influence outcome following acute stroke". Moderated poster presentation, International Stroke Conference, 2013.
4. **Lees JS**, McQuarrie E, Mordi N, Fox JG, Geddes C, Mackinnon B. "Risk factors associated with bleeding complications after native renal biopsy". Poster presentation, European Renal Association, 2016.
5. **Lees JS**, Fox JG, Geddes C, Mackinnon B, McQuarrie E. "Glomerular disease in obese patients: not always FSGS". Poster presentation, European Renal Association, 2016.
6. **Lees JS**, Findlay M, Clouston J, Geddes C. "The impact of coronary angiography on renal transplant function". Poster presentation, European Renal Association, 2016.
7. **Lees JS**, Gillis KA, Mark PB, Jardine AG, Traynor JP. "Predicting mortality before renal replacement therapy in chronic kidney disease patients". Poster Presentation, European Renal Association, 2017
8. **Lees JS**, Chapman FA, Witham MD, Mark PB. "Vitamin K and vascular health: a systematic review and meta-analysis". Poster Presentation, American Society of Nephrology, 2017
9. **Lees JS**, Ralston MR, Traynor JP, Witham MD, Mark PB. "Factors associated with vascular calcification in chronic kidney disease: baseline assessments from a clinical trial". Poster Presentation, European Renal Association, 2018
10. **Lees JS**, Rutherford A, Roditi G, Jardine AG, Mark PB. "Factors associated with coronary artery calcification score in renal transplant recipients". Poster Presentation, American Society of Nephrology, 2018
11. **Lees JS**, Rankin AR, Gillis KA, Rutherford E, Roditi GH, Jardine AG, Mark PB. "Correlation of arterial stiffness, calcification and left ventricular mass index in renal transplant recipients: baseline assessments from a clinical trial". Poster Presentation, European Renal Association, 2019

National presentations

Oral

1. **Lees JS**, Sena E, Howells DW, Koblar S, Macleod M. "A Systematic Review of Stem Cell Therapies in Animal Models of Focal Ischemia". Scottish Association of Neurological Sciences, October 2007.
2. **Lees JS**, Goddard J, Metcalfe W. "Aetiology of staphylococcus aureus bacteraemia in patients receiving renal replacement therapy". Scottish Renal Association, 2011
3. **Lees JS**, Bellamy C, Gibson P, Neary J, Church N, Langdale-Brown B, Watson S. "IgG4-Related Disease: an under-diagnosed but reversible cause of advanced, progressive CKD". Scottish Renal Association, 2012.
4. **Lees JS**, McQuarrie E, Mordi N, Fox J, Geddes C, Mackinnon B. "Risk of major complications with percutaneous ultrasound guided nephrologist performed native renal biopsy". Scottish Renal Association, 2015.
5. **Lees JS**, Findlay M, Clouston J, Geddes C. "The impact of coronary angiography on renal transplant function." Scottish Renal Association, 2015.
6. **Lees JS**, Shilliday I, Brennan G. "Foot for thought: a missed opportunity for diabetic haemodialysis patients". Scottish Renal Association, 2016
7. **Lees JS**, Chapman FA, Witham M, Jardine AG, Mark PB. "Vitamin K and vascular health: a systematic review and meta-analysis". Scottish Renal Association, 2017

Poster

1. **Lees JS**, Shilliday I, Brennan G. "Unmet care need in a high-risk diabetic population". Scottish Society of Physicians, 2017
2. **Lees JS**, Rankin AJ, Gillis KA, Rutherford E, Jardine AG, Mark PB. "Association between dietary components and vascular stiffness: assessments from renal transplant recipients participating in a clinical trial". Moderated poster presentation, UKKW 2019
3. **Lees JS**, Rankin AJ, Gillis KA, Rutherford E, Roditi GH, Jardine AG, Mark PB. "Relationship between aortic distensibility, coronary artery calcification and left ventricular mass in renal transplant recipients: assessments from a clinical trial". Moderated poster presentation, UKKW 2019
4. **Lees JS**, Rankin AJ, Gillis KA, Zhu LY, Mangion K, Rutherford E, Witham MD, Jardine AG, Mark PB. "A randomised, double-blind, placebo-controlled trial of vitamin K supplementation to improve vascular health in kidney transplant recipients". Moderated poster presentation, British Transplant Society annual meeting 2020

Editorial positions

- 2023-present: Biomarkers/Formulas Editor, Nephrology Dialysis Transplantation
- 2019-present: Visual abstracts Editor, Nephrology Dialysis Transplantation
- 2021-2023: Co-host, European Renal Association Online Journal Club
- 2022: Editorial Board, European Renal Association Neph-Manual
 - Chapter editor: "Slowing progression and preventing complications of CKD"

Reviewing

Journal manuscripts

- I have reviewed manuscripts for several high-impact journals, including the Lancet, The BMJ, Nature Medicine, Journal of the American Society of Nephrology, American Journal of Kidney Diseases, Stroke and Atherosclerosis.
- My review to publication ratio is 0.9:1 – more than double the median.

Grant panels

- I have reviewed grant and fellowship applications for UK national grant panels, including the Medical Research Council (UK) and Kidney Research UK

Awards and grants

Personal fellowships

- **Wellcome Trust Early Career Award (301005/Z/23/Z): £1,119,039**
 - “Kidney function as a complicator of cancer treatment”
 - 05/2024 – 05/2029
- NHS Education for Scotland/Chief Scientist Office Postdoctoral Lectureship Scheme (PCL/20/10)
 - “Defining the bi-directional relationship between cancer and kidney disease”
 - 08/2020 – 08/2022
- Kidney Research UK Training Fellowship (TF_013_20161125): £171,115
 - “Vitamin K in Transplanted kidney Organ Recipients: Investigating vEssel Stiffness (ViKTORIES)”
 - 06/2017 – 08/2019
- British Heart Foundation Centre of Research Excellence Award (RE/13/5/30177)
 - 08/2016 – 06/2017

International Prizes

- **Eberhard-Ritz Award**, European Renal Association (2022): Young Investigator Award for Clinical Science
- **Top 10 Abstract** submitted to European Renal Association Congress (2022): “Cystatin C testing improves risk stratification associated with chronic kidney disease without adopting age-adapted diagnostic thresholds: a UK Biobank study”

National Prizes

- **Raine Award**, UK Kidney Association (2022): for significant contribution to renal research by a researcher who has not reached consultant grade
- 1st Prize – Oral presentation – Scottish Renal Association (2021)
- National Societies Award for Scotland (awarded for best abstract) – European Renal Association/Scottish Renal Association (2019)
- 2nd Prize – Oral presentation – Scottish Renal Association (2019)
- Best Poster Prize – Association of Physicians of Great Britain and Ireland (2022)

Local awards and recognition

- University of Glasgow “People Make Research: CAREERS” (2022)
 - Recognised by University of Glasgow colleagues for making a positive difference to their career journey

Project grants

- Kidney Research UK Project Grant (RP_015_20221129): £80,869
 - “Kidney-related adverse events associated with intravitreal VEGF-inhibitor use: a national cohort Study”, 2023-2024.
 - Co-Investigator. 2% FTE.

- British Geriatric Society Student Grant (2007): £500
- Chest Heart and Stroke Scotland, Minor Research Award (2007): £1300
- 2nd Neural Stem Cell Workshop Bursary for Early Clinical Researcher (2007): £170
- Chest Heart and Stroke Scotland, Travel Award (March 2008): £120
- Centre for Clinical Brain Sciences, Travel Grant (April 2008): £200
- Brain, Travel Grant (2008): £500
- Chest Heart and Stroke Scotland, Minor Research Award (2010): £2300
- Chest Heart and Stroke Scotland, Travel Grant (2010): £1100
- Chest Heart and Stroke Scotland, Minor Research Award (2012): £4150
- Chest Heart and Stroke Scotland, Travel Grant (2012): £775

Invited lectures

Invited lectures at international meetings

- 2024 (upcoming): European Renal Association Annual Congress (Stockholm)
 - “The role of eGFR slope analyses in trials: an update”
- 2023: World Congress of Nephrology (Bangkok)
 - Women in Nephrology “Rising Stars in Nephrology” session
 - “Cystatin C in Chronic Kidney Disease”
- 2023: European Society of Hypertension (Milan/Hybrid)
 - Joint ESH/European Renal Association Session
 - “GFR, Cystatin C and Cardiovascular Disease in CKD”
- 2023: Pre-hypertension, Hypertension and Cardiometabolic Syndrome (Prague/Hybrid)
 - “GFR, Cystatin C and Cardiovascular Disease in CKD”
- 2022: European Renal Association Annual Congress (Paris)
 - Plenary lecture
 - “Eberhard Ritz Award for Clinical Science”
- 2021: European Renal Association Annual Congress (Virtual)
 - Continuous Education and Professional Development: Hypertension and cardiovascular disease
 - “A death knell for vitamin K supplementation for vascular stiffness in CKD?”

Invited lectures at national meetings

- 2012: Royal College of Physicians of Edinburgh, Annual Renal Symposium
 - “Things that worry nephrologists”
- 2022: UK Kidney Association Raine Award Lecture given by young nephrologist who has made a significant contribution to renal research
 - “CKD, cardiovascular disease and cancer: the scenic route”
- 2024 (upcoming): UK Kidney Association, Journal Club Gold session
 - Title tbc

Leadership and Management

International

- 2023-present: European Renal Association Young Nephrologists' Platform Mentor
- 2018-present: European Renal Association Electronic Communications Community
 - I am member of the team reforming electronic communication strategy including redesigning and updating the website, advising on design and content, updating the format of congress presentations and dissemination of other association material using new initiatives (e.g., podcasts).
- 2019-2023: European Renal Association Social Media Team
 - I contributed to promotion of ERA activities through use of social media, predominantly Twitter: live-tweeting at the Congress, running "Tweeterials"

National

- 2016-2018: Organising Chair of Medical Trainees' Conferences on behalf of the Royal College of Physicians of Edinburgh
 - National conferences held in Newcastle (2017) and Manchester (2018)
- 2015-2018: Chair of the Evening Medical Update Programme on behalf of the Royal College of Physicians of Edinburgh
 - National in-person and internationally web-streamed educational content held monthly.

Regional/Local

- 2023-present: Data Science Lead, School of Cardiovascular and Metabolic Health, University of Glasgow
- 2023-present: Patient and Public Involvement and Engagement, scoping review and steering committee, College of Medical and Veterinary Life Science, University of Glasgow
- 2021-present: Senate Committee, University of Glasgow
- 2019: Leadership and Management Course, NHS Education for Scotland
- 2014-2018: Elected member of the Trainees and Members Committee, Royal College of Physicians of Edinburgh
 - I took an active role in organizing College teaching events and examinations and influencing the Trainees and Members response to important trainee issues, including the Shape of Training Review/Internal Medicine Curriculum
- 2015-2019: Rota master for middle grade renal rota at Queen Elizabeth University Hospital
 - I coordinated the rota for trainees in the renal unit from FY to senior registrar level, including managing the on-call rota and planning the day-to-day activities of junior staff within the unit.
- 2013-2014: "Rota Champion" at Inverclyde Royal Hospital
 - Trainee liaison for rota issues during my placement. I actively redesigned the middle grade rota to ensure a balance between safe cover for inpatient medical areas and trainee satisfaction.

Teaching, Examining, Mentoring and Supervision

International

- 2018, 2023: Hands-on line insertion course – Faculty/Demonstrator
 - European Renal Association Annual Congress, Milan (2023)
 - European Renal Association Annual Congress, Copenhagen (2018)
- 2022: Hands-on renal biopsy course - Faculty/Demonstrator
 - European Renal Association Annual Congress, Paris

National

- 2016-2018: Faculty/Demonstrator, Renal biopsy cadaver course
 - Royal College of Physicians and Surgeons of Glasgow
- 2019: Invited author of “Oxygen Prescribing” module
 - British Pharmacological Society “Prescribe” project

Regional/local – postgraduate

- 2021-present: PhD supervisor, University of Glasgow
 - 3 current students, all in progress (0.65 FTE)
- 2018-present: MSc project supervisor, Cardiovascular Science, University of Glasgow
 - 3 students successfully completed
- 2023: Academic Training Afternoon, Kings College London, London
 - “Creatinine and cystatin C: risk versus reward”
- 2021: Academic Training Afternoon, Barts, London
 - “Should we prescribe kale? Vitamin K as a risk factor for cardiovascular disease in CKD”
- 2021: Online teaching for Acute Care course, NHS Lanarkshire
 - “AKI and CKD in hospital”
- 2021: National Academic Foundation Year teaching programme
 - “How to get into data research”
- 2020: Online teaching for nurse practitioners in NHS Lanarkshire
 - “AKI for Advanced Nurse Practitioners”
- 2020: Hospital Grand Rounds, NHS Lanarkshire
 - “Cystatin C and cardiovascular disease”
- 2019: West of Scotland Renal teaching day
 - “Biopsy basics”
- 2019: Hospital Grand Rounds, Queen Elizabeth University Hospital, Glasgow
 - “Why you should eat more kale: cardiovascular risk factors in CKD”
- 2016: Examiner, clinical examination OSCE, Hospital Emergency Care Team nurses, NHS Lanarkshire
- 2011-2012: Member of the Royal College of Physicians “PACES” examination co-ordinator

Regional/local – undergraduate

- 2020-present: BSc Cardiovascular Medicine course, University of Glasgow
 - Lectures, exam setting and marking
- 2019-present: BSc project supervisor
 - Primary supervisor 2022-2023: 1 student successfully completed. Outputs presented at a national meeting and international meeting. One anticipated publication.
 - Secondary supervisor 2019-2022: 2 students successfully completed. Outputs presented at national and international meetings. Both projects published.

- 2016-present: Tutor – Case Based Learning (Nephrology) – University of Glasgow Year 3 MBChB
- 2016: Tutor – Case Based Learning – University of Glasgow Year 2 MBChB
- 2015: Tutor – Bedside teaching – University of Glasgow Year 2 MBChB
- 2013: Voted “Best Undergraduate Tutor” (Best Trainee Doctor) in NHS Fife
- 2012: Examiner - Clinical Examination (OSCE) – University of Edinburgh Year 3 MBChB
- 2012-2013: Clinical Tutor Associate – University of Edinburgh MBChB

Additional research training and experience

- Current valid GCP certificate (March 2016, renewed 2018 and 2023)
- MRC Research, GDPR and Confidentiality (December 2020)

Clinical trials

- Principal Investigator (Glasgow): SYNCHRONIZE-CVOT trial (NCT06077864; 2024-present)
 - International, multi-centre, randomised, double-blind, placebo-controlled trial to test effect of Survodutide on cardiovascular safety in people with overweight or obesity.
 - Sponsored by Boehringer Ingelheim
- Chief Investigator: VIKTORIES trial (ISRCTN22012044; 2017-2019)
 - Single centre, randomised, double-blind placebo-controlled trial of vitamin K supplementation in kidney transplant recipients
 - Funded by Kidney Research UK
 - Published: **Lees JS** et al, “The VIKTORIES trial: a randomised, double-blind, placebo-controlled trial of vitamin K supplementation to improve vascular health in kidney transplant recipients”. *Am J Transplant* (2021); doi:10.1111/ajt.16566
- Co-investigator: K4Kidneys trial (ISRCTN21444964; 2016-2018)
 - Dual-centre, randomised, double-blind placebo-controlled trial of vitamin K supplementation in patients with CKD 3b/4
 - Study visits, safety assessment, results review, blinded outcome analysis & meta-analysis
 - Funded by British Heart Foundation
 - Published: Witham MD, **Lees JS**, et al. “Vitamin K supplementation to improve vascular stiffness in chronic kidney disease - the K4Kidneys randomised controlled trial”. *J Am Soc Nephrol* (2020); 31(10): 2434-2445
- Additional investigator or recruitment experience:
 - Sub-investigator on international multicentre trials:
 - ALXN1210-aHUS-311 (Local PI Dr Neal Padmanabhan; 2018)
 - ASCEND and ASCEND-ND (Local PI Dr Rajan Patel; 2019)
 - PIVOTAL (Local PI Dr Peter Thomson; 2017)
 - Local recruiter: PEDAL trial NCT02222402 (2016)
 - Local recruiter: RECOVERY trial NCT04381936 (2020)
- Participant: SIREN study 2020-2021

Laboratory experience:

- University of Cambridge (2006)
 - Tissue preparation using sledge microtome, tissue fixing, immunoprecipitation, Western blotting, immunohistochemistry, confocal and fluorescence microscopy.
- BHF Glasgow Clinical Research Centre (2015)
 - Isolating exosomes from urine/plasma, measuring exosomes (NanoSight technology), miRNA extraction.