

## Curriculum Vitae (CV) for Dr. Scott Williams

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Date of Birth: 3<sup>rd</sup> June 1988 (age 35 years)

GMC number: 7274723 (Fully registered with a license to practice)

Introduction:

I have from an early stage, even before starting medical school at The University of Sheffield shown an interest in medicine. Prior to starting University, I was a hospital volunteer at The Royal Liverpool University Hospital. This opportunity made me want to learn more about their illness and treatment, and I really enjoyed being part of the team.

Throughout my medical course, I was committed to gaining a broad experience of patients presenting with a wide range of different medical conditions. This has included spending two months gaining experience in the Emergency Medicine department of The Royal London Hospital during an elective placement. This made me realize how fascinated I was by the variety of medical diagnoses and subsequent treatments available.

My long-term aim is to practice Endocrinology and Diabetes with General Internal Medicine in a hospital environment and to pursue an additional interest in medical education.

Education

2001-2006

Wirral Grammar School for Boys, Cross Lane, Bebington, Wirral CH63 3AQ

A level Biology grade A

A level Physics grade A

A level Chemistry grade A

A level General Studies grade A

2006-2012

University of Sheffield, Western Bank, Sheffield, South Yorkshire S10 2TN

BMedSci with 1<sup>st</sup> class honours 2011

MbChB 2012

MRCP full diploma (UK) (London) 2015 passed

SCE Diabetes and Endocrinology 2020 passed

### Employment History

1st August 2012 to 4 <sup>th</sup> December 2012	F1 to Mr Barben, Colorectal surgery, Aintree University Hospital
5 <sup>th</sup> December 2012 to 2 <sup>nd</sup> April 2013	F1 to Dr Albert, Respiratory medicine, Aintree University Hospital
3 <sup>rd</sup> April 2013 to 30 <sup>th</sup> July 2013	F1 to Dr Burgess, Cardiology, Aintree University Hospital
1 <sup>st</sup> August 2013 to 3 <sup>rd</sup> December 2013	F2 to Dr Diwan, Medicine for the Elderly, Aintree University Hospital
4 <sup>th</sup> December 2013 to 1 <sup>st</sup> April 2014	F2 to Dr Holt, Neurology and Neurosurgery, The Walton Centre for Neurology and Neurosurgery
2 <sup>nd</sup> April 2014 to 5 <sup>th</sup> August 2014	F2 to Dr Armstrong, Emergency Medicine, Aintree University Hospital
6 <sup>th</sup> August 2014 to 2 <sup>nd</sup> December 2014	CT1 to Dr Cullen, Stroke Medicine, Aintree University Hospital
3 <sup>rd</sup> December 2014 to 31 <sup>st</sup> March 2015	CT1 to Dr Moore, Neurology, The Walton Centre for Neurology and Neurosurgery
1 <sup>st</sup> April 2015 to 4 <sup>th</sup> August 2015	CT1 to Dr Khand, Cardiology, Aintree University Hospital
5 <sup>th</sup> August 2015 to 1 <sup>st</sup> December 2015	CT2 to Dr Ponnuswamy, Respiratory medicine, Countess of Chester Hospital
2 <sup>nd</sup> December 2015 to 6 <sup>th</sup> April 2016	CT2 to Dr Ewins, Endocrinology and Diabetes, Countess of Chester Hospital
7 <sup>th</sup> April 2016 to 2 <sup>nd</sup> August 2016	CT2 to Dr McEwen, Acute Medicine, Countess of Chester Hospital
3 <sup>rd</sup> August 2016 to 1 <sup>st</sup> August 2017	Junior Clinical Fellow in Intensive Care Medicine, Countess of Chester Hospital Supervisor- Dr Wilson
2 <sup>nd</sup> August 2017 to 2 <sup>nd</sup> April 2018	ST3 in Diabetes and Endocrinology, Royal Liverpool University Hospital Supervisor- Dr Weston
3 <sup>rd</sup> April 2018 to 2 <sup>nd</sup> April 2019	ST3/4 in Diabetes and Endocrinology, Countess of Chester Hospital Supervisor- Dr Ahmed
3 <sup>rd</sup> April 2019 to 4 <sup>th</sup> August 2020	ST4/5 in Diabetes and Endocrinology, Leighton Hospital Supervisor- Dr Qureshi
5 <sup>th</sup> August 2020 to August 2022	ST6 to ST7 in Diabetes and Endocrinology, Aintree University Hospital Arrowe Park Hospital Supervisor- Prof. Thomas Dr Leong
22 <sup>nd</sup> August 2022 to Present	Endocrine and Diabetes Consultant (with General Internal Medicine) Countess of Chester Hospital  Appraiser- Dr Nair

### Undergraduate Experience and Postgraduate Clinical Experience

During the Foundation Programme completed and Core Medical Training, I have undertaken rotations in Endocrinology and Diabetes, Respiratory Medicine, Cardiology, Care of the Elderly, Stroke

Medicine and Neurology at a specialist centre for Neurosciences. I have obtained Foundation competencies in full. These placements have developed my interest in the medical specialties and stimulated me to progress my career in this direction by completing the MRCP diploma in full in 2015.

I am a certified Advanced Life Support (ALS) Provider (since September 2012) and I successfully re validated my ALS in April 2016 and September 2020 (valid until September 2024).

Diabetes and Endocrinology is a specialty which I first became interested in during my second year of medical school in 2008. I chose an endocrinology project for my audit rotation, which was examining the investigation of patients diagnosed with an adrenal incidentaloma. This retrospective audit, which is in my portfolio, was accepted for two abstracts and displayed as an international and national poster presentation.

I then had an excellent opportunity during my Intercalated BMedSci year 2010-2011 to undertake a clinical research project. I chose a project examining the electrophysiological effects of hypoglycaemia in patients with Type 1 and Type 2 Diabetes. I spent considerable time with many diabetic patients, for this research and observing in clinics, getting to know how they coped with their condition.

My project, written up as a thesis, earned me the award of first-class honours in the intercalated year which I was very proud of. It has also led to the publication of two peer reviewed journal publications, two national poster presentations and one international poster presentation which are included in my portfolio. A further national abstract has been submitted for review.

I enjoyed the whole of this experience so much that it confirmed to me that to pursue a career in diabetes and endocrinology would be the right career choice for me.

As a result, I requested a CMT year 2 placement in diabetes and endocrinology for four months. On this placement, I undertook many outpatient clinics, in which the approach of the diabetes multidisciplinary team, always striving to optimise patients' control of their condition was very appealing to me. This made me want to continue in the longer term to be a part of that team. I also enjoyed spending time in the diabetic clinic with patients receiving insulin pump therapy. At the end of this placement, I received a lot of positive comments and feedback in my Multi Source Feedback (MSF) in my portfolio and I think this partially happened because I felt it was the right speciality for me.

Whilst I was rotating through my placements in CT2 I was successful in passing the MRCP examinations in full, passing the PACES on my first attempt and have completed my CMT competences in full.

From August 2016 to August 2017, I gained experience in Intensive Care Medicine as a junior clinical fellow. This has been an opportunity to gain skills in managing critically unwell patients including those with endocrine emergencies, Diabetic Ketoacidosis and severe hyponatraemia with seizures. It has also allowed me to develop my practical skills, becoming competent in central venous cannulation, arterial line insertion, and further developing my skills in chest drain insertion.

I attended the Diabetes UK (DUK) Annual Conference in Manchester in March 2017 with a poster presentation, to gain further knowledge in this fascinating area of medicine, and enjoyed undertaking an oral and poster presentation in DUK London March 2018.

Diabetes and Endocrinology remains a rapidly developing area of medicine with new treatments coming along together with innovations for patient care. Using the knowledge and skills as a doctor to be able to make a long term positive health difference to someone's life I find highly fulfilling and rewarding. My chosen specialty offers the opportunity to work closely with teams from other areas of medicine and surgery and contribute towards the best care of the patient. The multi organ nature of endocrine disease also fits well with my desire to remain an all-rounder and contribute to general medicine in its broadest sense.

On a personal note, I have seen at close hand in a family member the effects of a diagnosis of type 1 diabetes and the ensuing ongoing treatment and implications. This has enabled me to have much greater empathy with patients with diabetes.

#### Additional Achievement

- I received a bursary which was awarded from The University of Sheffield for completion of an Intercalated BMedSci clinical research project August 2010 to July 2011.

#### Research

- I have completed a clinical research project during medical school examining the 'The utility of the low dose dexamethasone suppression test in patients diagnosed with an adrenal incidentaloma'. The findings of this study were presented as an international poster presentation at the European congress of Endocrinology **2009**, Istanbul, Turkey and as an abstract in *Endocrine Abstracts* **2009**. Our recommendation aimed to improve the methods of investigation for this clinically important and prevalent endocrine disorder. Further analysis of the audit data subsequently led to a further abstract being presented as a national poster presentation at the British Endocrine Society **2010** conference, Manchester, UK.
- Towards the end of my undergraduate studies, I furthered my interest in clinical medicine by undertaking a year of clinical research as an intercalated BMedSci in Diabetes and Cardiology. I recruited patients for this clinical research project, and collected and analysed data during the year with the assistance of my supervisor and research team. The project was titled: "Exploring the role of glycaemic instability in Sudden Cardiac Death: How does the electrophysiological response to spontaneous hypoglycaemia differ between patients with Type 1 and Type 2 Diabetes?". Following completion of the year with the award of 1<sup>st</sup> class honours, data gathered during this year was presented as a poster presentation at Heart Rhythm Congress **2012**, Birmingham, UK and published as an abstract in *EP Europace* **2012**.
- Following further analysis of the data by the research team, the data gathered was accepted for publication as an original peer reviewed journal publication in *Diabetes*, which was printed in April **2014**.
- Further analysis of this data has been accepted as an original peer reviewed journal publication in *Diabetes Care*, to be printed in **2017**, and was presented as a poster publication in at the American Diabetes Association **2016** conference in New Orleans, USA and the Diabetes UK **2017** conference in Manchester, UK.

- Further data from the project has been presented at the EASD (European Association for the Study of Diabetes) **2017** conference in Lisbon, Portugal as a poster presentation and abstract.
- I have shown a poster titled "Are readmission and reoperation rates a good quality indicator of emergency surgical admissions?" at a national conference, The Association of Surgeons in Training (ASiT) conference **2013**. I produced the poster to present the results of a retrospective case note review of all patients having emergency colorectal surgery at Aintree University Hospital during a 3-month period in 2012. I collected this data with colleagues, Dr. L McGuiness, and Specialist Registrar in surgery Mr. T. Bullen. With the assistance of Miss. S. Slawik, we collectively analysed the data. We found that reoperation rates are a better indicator for quality post Emergency Surgical Operations than readmission rates.
- I had an excellent opportunity to write a review article with the research team at Aintree University Hospital in 2019 which has been published with the reference below. Cardiac autonomic neuropathy in obesity, the metabolic syndrome and prediabetes: a narrative review. SM Williams, A Eleftheriadou, U Alam, DJ Cuthbertson, JPH Wilding. Diabetes Therapy 2019 <https://doi.org/10.1007/s13300-019-00693-0>
- I have helped with data collection as an associate investigator for the ACCREDIT study in 2020. This is a very interesting study which is examining for risk factors to help assess the prognosis of patients with diabetes mellitus admitted to hospital with Covid-19 infection, which is being led by Dr. Nair at The Countess of Chester Hospital.

### Audit

- I have completed a clinical audit in 2013 project entitled, "A Clinical Audit Examining the Safe Transfer of Patients from the Accident and Emergency Department (AED) to the Clinical Decision Unit (CDU)".
- The aim of the audit was to determine the number of patients transferred from AED to CDU without regular medications, and/or VTE (Venous Thromboembolism) prophylaxis assessment or prescription. We then implemented an intervention aimed to increase the awareness of this important issue. This involved displaying posters in the AED, as well as meeting and emailing AED staff.
- I have completed the re-audit in 2014 to examine if there had been an improvement in medication and VTE prophylaxis prescribing in the AED. The results showed no significant improvement and this led to a recommendation for a redesign of the AED clerking proforma, to include a VTE and medication prescribing checklist.
- I am completing an audit currently monitoring the prevalence of Ventilator Acquired Pneumonia at The Countess of Chester Hospital in the Intensive Care Department. I have presented the results for the first six months of this local audit at a local meeting and continued to collect data for this until the end of July 2017.
- I have assisted with the recruiting of patients for the POPPI (Provision of Psychological Support for People in Intensive Care) study at The Countess of Chester Hospital, which is a multi-centre study in 2017.
- I was involved in an audit examining the use of Procalcitonin as a marker for infection in patients in the Intensive Care Department at The Countess of Chester Hospital in 2016. The audit has recommended changes in the regular recording of Procalcitonin results, including the use of a sticker in the notes, ensuring it can be used in the decision-making process on microbiology ward rounds and when prescribing antibiotics. I then completed the re audit to assess what impact the changes made, presenting this at a local meeting in May 2017.

- I have helped with data collection for the ARK antibiotic prescribing audit at The Countess of Chester Hospital in October 2018 which was an interesting audit examining the antibiotic stewardship in the trust.
- I am currently conducting an audit examining the management of Diabetic Ketoacidosis (DKA) supervised by Dr. Samad at Aintree University Hospital. This will be really useful to examine how well DKA is managed according to the recently updated protocol including the emphasis on the use of early bedside ketone testing.

#### Quality Improvement Project

- I have completed a Quality Improvement (QI) Project titled "A Lumbar Puncture Kit" in April 2016. This project was a QI project which assessed the use of a Lumbar Puncture Kit using pre-and post-implementation questionnaires. The QI project showed by using the lumbar puncture kit, the time taken to obtain the objects required for a lumbar puncture was reduced by 25 minutes in the majority of cases (14 respondents). The lumbar puncture kit was felt to be a very useful improvement by the majority of respondents (15). I presented the QI project at a local medical meeting. The QI project recommended the implementation of a lumbar puncture kit (to be made up in the hospital laboratory). This was followed by questionnaires to assess its use at 12 months.

#### Teaching experience

- I have designed, organised and delivered a local medical teaching programme for 4th year medical students from The University of Liverpool Medical School at Aintree University Hospital in 2013-2014. Each session was 1 hour and 30 minutes in length, and covered: Respiratory Medicine for finals, Gastroenterology for finals, Renal Medicine for finals, and Delirium

Each session covered an initial explanation of the key anatomy and physiology of the system being covered, and a description of the history and examination. Finally, I explored different clinical cases to stimulate a group discussion.

The local medical teaching was well received with positive feedback from students. This has been recorded in my portfolio, together with the original PowerPoint presentations.

I organised the rota for a 30-minute weekly Wednesday lunchtime teaching session, which is for junior medical staff in the Intensive Care Department (ICU). This covers a wide variety of ICU clinical topics, and I regularly contribute to these teaching sessions. So far, this year, I have presented the following teaching sessions: Acute Kidney Injury (AKI), and Renal Replacement Therapy, the clotting cascade and cell-based model of coagulation, Sedation in the ICU, Neuroprotection and the management of Head Injuries in the ICU.

These have had positive feedback from attending trainees, which I have included in my portfolio with the original PowerPoint presentations.

I have previously collaborated with Dr G Thomas, who has founded a free to access medical education podcast service called FOAMDATION. This is a wide selection of podcasts covering medical topics aimed at Foundation House Officers nationally. So far, we have

created Podcasts (with an accompanying blog) on the website <https://foamdation.com> and accessible to listen to on I Tunes.

Currently, FOAMDATION covers the topics of 'Ward working' and 'On call working', and I have produced in collaboration with the cardiology department at The Countess of Chester Hospital a podcast covering 'Chest pain- Assessment, Management and Investigation'. In collaboration with support from the diabetes department, we have produced three further podcasts covering 'Diabetic Ketoacidosis', 'The use of Variable Rate Intravenous Insulin Infusions- VRIII' and 'The management of diabetes and surgery'.

As an extracurricular activity, I enjoy helping to teach the ALERT (Acute Life-Threatening Events Recognition and Treatment) course as a member of the course faculty 2016-2017 at The Countess of Chester Hospital.

I currently organise the regional endocrinology and diabetes registrar teaching for endocrinology and diabetes registrars in the Mersey deanery since June 2020. This is one teaching day every two months with specialist consultant speakers from across the region and nationally invited to present different topics covering the endocrinology and diabetes curriculum and three registrar case presentations per session.

### Training in Teaching

- I have recently developed an interest in medical education as I find the process of sharing knowledge and helping others with their medical training very satisfying. For this I am currently completing a Postgraduate Certificate in Medical Education at Edge Hill University with a view to furthering my studies in this area in the future. I have completed the first of three modules for this, titled "Teaching and learning in the medical workplace" and I am currently completing module two "Supporting the postgraduate learner in the medical workplace".
- I have completed four BMJ E learning modules titled "Small group teaching", "BMA Learning and Development: getting and giving useful feedback", "How to give a presentation" and "Teaching small groups". These are online E learning modules, with 2 of the modules taking 1 hour to complete, and 2 of the modules taking 30 minutes to complete, and covered:
  - Effective presentation skills
  - Awareness of group dynamics
  - Recognise the importance of evaluation
  - Basic principles of education theory related to teaching small groups
  - Feeling more confident in running a small group teaching sessionI have included the certificates of completion in my portfolio.

### Interests

I have always tried to maintain my physical fitness and involvement with sport since being a teenager. This commenced with playing rugby for my school, and I continued to play at University in Sheffield.

I currently enjoy jogging all year round. I find that regular jogging from my home after work helps me to relax after busy days in medicine. This has also led to fundraising achievements where I have raised money for The Anthony Nolan Trust and Sheffield Children's Hospital.

I ran the New York Marathon in November 2016 which raised over £1000 for the charity Sightsavers, which funds sight saving operations in developing countries worldwide. This was very satisfying to achieve. I enjoyed running the Chicago marathon in October 2017 and currently enjoy running for Penny Lane Striders running club.

Skiing is my third passion and I aim to go once a year with family or friends. I enjoy tackling difficult runs and exploring.

### Publications

- The utility of the low dose dexamethasone suppression test in patients diagnosed with an adrenal incidentaloma. Debono, M; Durrington, C; Williams, S; Newell-Price, J. *Endocrine Abstracts* **2009**, 20, P34. Displayed as a poster presentation at The European Congress of Endocrinology, 25<sup>th</sup>-29<sup>th</sup> April 2009, Istanbul, Turkey.
- Dexamethasone testing and visceral: subcutaneous fat ratios in patients with adrenal incidentalomas. Debono, M; Hughes, T; Durrington, C; Williams, S; Newell-Price, J. *Endocrine Abstracts* **2010**, 21, P345. Displayed as a poster presentation at the Society for Endocrinology BES (British Endocrine Society) conference, 15<sup>th</sup>-18<sup>th</sup> March **2010**, Manchester, UK.
- Effect of low glucose on risk of arrhythmia in Type 2 diabetic patients with cardiovascular risk. Chow, E; Bernjak, A; Williams, S; Fawdry, RA; Hibbert, S; Heller, SRH; Sheridan, PJ. *EP Europace* **2012**, 14 (supplement 4): iv14-iv17. Displayed as a national poster presentation at Heart Rhythm Congress, 23-26<sup>th</sup> September 2012, Birmingham, UK
- "Are readmission and reoperation rates a good quality indicator of emergency surgical admissions?" Williams, S. McGuinness, L. Bullen, T. Slawik, SD. *The International Journal of Surgery* **2013**, 11, pp686-745. Displayed as a national poster presentation at The Association of Surgeons in Training (ASIT) conference, 5-7<sup>th</sup> April **2013**, Manchester, UK.
- Exploring the role of glycaemic instability in sudden nocturnal cardiac death in type 1 diabetes. Fawdry, RA. Williams, S. Chow, E. Heller, S. Bernjak, A. Hibbert, S. Sheridan, P. *Diabetic Medicine* **2013** 30 (supplement 1), 1-29. Oral presentation by R Fawdry and displayed as a national poster presentation at Diabetes UK **2013** conference.
- Risk of cardiac arrhythmias during hypoglycemia in patients with type 2 diabetes and cardiovascular risk. Heller, S. Chow, E. Bernjak, A. Williams, S. Fawdry, R. Hibbert, S. Freeman, J. Sheridan, P. *Diabetes* **2014** 63: 1738-1747.
- Risk of Cardiac Arrhythmias and Electrophysiological responses during Spontaneous Hypoglycaemia in Young People with Type 1 Diabetes. Novodvorsky P, Bernjak A, Chow E, Iqbal A, Sellors L, Williams S, Fawdry, RA, Parekh B, Jacques RM, Marques JLB, Sheridan

PJ, Heller SR. International Poster presentation at American Diabetes Association 76<sup>th</sup> Scientific Sessions **2016**, June 10<sup>th</sup>-14<sup>th</sup> New Orleans, United States of America.

- Risk of Cardiac Arrhythmias and Electrophysiological responses during Spontaneous Hypoglycaemia and Hyperglycaemia in Young People with Type 1 Diabetes. Novodvorsky P, Bernjak A, Chow E, Iqbal A, Sellors L, Williams S, Fawdry, RA, Parekh B, Jacques RM, Marques JLB, Sheridan PJ, Heller SR. National poster presentation at Diabetes UK **2017**, Manchester, 8-10<sup>th</sup> March 2017.
- Diurnal Differences in Risk of Cardiac Arrhythmias during Spontaneous Hypoglycaemia in Young People with Type 1 Diabetes. Novodvorsky P, Bernjak A, Chow E, Iqbal A, Sellors L, Williams S, Fawdry, RA, Parekh B, Jacques RM, Marques JLB, Sheridan PJ, Heller SR. *Diabetes Care* **2017**
- Risk of Cardiac Arrhythmias and Electrophysiological responses during Spontaneous Hyperglycaemia in Young People with Type 1 Diabetes. Novodvorsky P, Bernjak A, Chow E, Iqbal A, Sellors L, Williams S, Fawdry, RA, Parekh B, Jacques RM, Marques JLB, Sheridan PJ, Heller SR. International poster presentation at the European Association for the Study of Diabetes (EASD) Lisbon, Portugal **2017**, in abstract supplements from EASD in Diabetologia.
- The use of point of care capillary blood glucose testing analysis reports to track improvements in the management of hypoglycaemia: Our experience in a secondary and tertiary care hospital. Williams S, Meldon A, Watson L, Groves T, Lucock C, Ward K, Cawley L, Maitland W, Kalathil D. National poster and oral presentation at Diabetes UK **2018**, London 14-16<sup>th</sup> March 2018.
- An unhappy baby helps diagnose maternal Diabetic Ketoacidosis (DKA). S Williams. K Bishop. SH Ahmed. December 2018 issue Practical Diabetes.  
1st named author on a case report published in Practical Diabetes.
- Datix incident reporting system to evaluate inpatient management of hypoglycaemia in a university teaching hospital. L Watson, S Williams, J Panicker, A Meldon, T Bragg, L Cawley, K Ward, T Groves, C Lucock, D Kalathil.  
2nd named author Diabetes UK poster 2019.
- Improving adherence with SGLT2 inhibitors by reducing the risk of genital mycotic infections: the outcomes of personal hygiene advice. SH Ahmed, P Thu, K Bishop, SM Williams.  
4th named author Diabetes UK poster 2019
- Estimating the burden of hypoglycaemia-the costs to a University teaching hospital. J Panicker, S Williams, M Thompson, W Maitland, T Bragg, A Meldon, D Kalathil.  
2nd named author Diabetes UK poster 2019
- Measuring and demonstrating improvements in inpatient hypoglycaemia management. S Williams, A Meldon, M Thompson, W Maitland, L Watson, T Groves, C Lucock, K Ward, L Cawley, D Kalathil.  
1<sup>st</sup> named author Diabetes UK poster 2019

- Examining the relationship between total daily insulin dose and the burden of diabetes complications in patients with type 1 diabetes mellitus. SM Williams, P Thu, J Bassett, C Widdows, S Nair.  
1st named author Diabetes UK poster 2019
- Cardiac autonomic neuropathy in obesity, the metabolic syndrome and prediabetes: a narrative review. SM Williams, A Eleftheriadou, U Alam, DJ Cuthbertson, JPH Wilding.  
*Diabetes Therapy* 2019 <https://doi.org/10.1007/s13300-019-00693-0>  
1st named author in an international peer reviewed review article
- The prevalence of cardiac autonomic neuropathy in prediabetes: a systematic review. Eleftheriadou, A., Williams, S., Nevitt, S. *et al. Diabetologia* **64**, 288–303 (2021).  
<https://doi.org/10.1007/s00125-020-05316-z>  
2<sup>nd</sup> named author in an international peer reviewed article
- Cardiac arrhythmias and electrophysiologic responses during spontaneous hyperglycaemia in adults with type 1 diabetes mellitus. Bernjak A, Novodvorsky P, Chow E, Iqbal A, Sellors L, Williams S, Fawdry RA, Marques JLB, Jacques RM, Campbell MJ, Sheridan PJ, Heller SR. *Diabetes Metab.* 2021 Feb 26:101237. doi: 10.1016/j.diabet.2021.101237. Epub ahead of print. PMID: 33647473.  
6<sup>th</sup> named author in an international peer reviewed article

#### Case in Neurological textbook

- I have written up a neurological case of a patient presenting with ophthalmic shingles with meningism for presentation in the following textbook- Michael, BD, Kneen, R , Miller, A and Solomon, T . *Case Studies in Central Nervous System Infections.* (2014) Cambridge University Press 2014.

#### References

- Prof Cecil Thomas, Consultant Physician in Endocrinology and Diabetes  
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