

IRISH NEUROLOGICAL ASSOCIATION

58th Annual Meeting
May 12 – 13th 2022

Ormonde Hotel, Kilkenny.

President: Dr. Paul Crowley

THURSDAY 12th May

08.00 - 09.00 Arrival and Registration.
Tea and Coffee

09.00 Opening and Welcome Irish Neurological Association Meeting 2022
Dr. Paul Crowley, INA President.

09.10 – 11.00 SESSION I – Platform Presentations (General Neurology) Chair:.		
01	09.10	The Medical Brain Biopsy: A 12 Year Audit of Non Neoplastic Brain Biopsies in a Neuropathology Department. Lockhart A, Farrell M, Cryan J, Beausang A, Brett F.
02	09.21	A Regional, Retrospective Progressive Multifocal Leucoencephalopathy Case Series. Ramsay S, Pantelidou M, McMonagle P, McDonnell GV, Hughes SE.
03	09.32	Three cases of PSP presenting with a logopenic pattern of aphasia: expanding the phenotype of language impairment in PSP. Lyons S, Walsh R, Lynch T, O'Dowd ST.
04	09.43	A Retrospective Review of the Pathology of Epilepsy Surgeries at a Tertiary Referral Centre in Ireland. Doyle M, McElligott L, Tallon E, Moloney P, El-Naggar H, Widdess-Walsh P, Kilbride R, Farrell M, O'Brien D, Cavalleri GL, Delanty N.
05	09.54	Meningiomas with optic canal invasion: A case series illustrating clinical and radiological diagnostic pitfalls Browne S, Amoo M, Javadpour M.
06	10.05	An Audit of the Management of Idiopathic Intracranial Hypertension in a Tertiary Neurological Referral Centre. O'Donnell MM, McGuigan CP.
07	10.16	No More Maggie Thatcher: an ACE for Ireland Kelly E, Dookhy J, McHale C, McDermott G, Kennelly S, Finnegan M, O'Dowd S.
08	10.27	Potential Eligibility for Aducanumab Therapy in an Irish Specialist Cognitive Service – Utilising CSF Biomarkers and Appropriate Use Criteria. Togher Z, Dolphin H, Russell C, Ryan M, Kennelly SP, O Dowd S.
09	10.38	Implementation of RT-QuIC testing for suspect Sporadic Creutzfeldt Jakob Disease in the Republic of Ireland. Howley R, Fearon C, Looby S, Beausang A, Cryan J, Devadass A, Farrell M, O'Dowd S, Brett F.
010	10.49	Migraine Referrals to Neurology OPD-an audit of. Loughman P, Lefort V, Gaughan M.

11.00 – 11.30 **Tea and Coffee**

11.30 – 12.45 SESSION II– Platform Presentations (Epilepsy) Chair: Dr. Ged O'Connor		
Developments in Epilepsy: what we may have missed during the COVID-19 period Dr. Ged O'Connor, University Hospital Waterford.		
O11	11.40	Adjunctive cenobamate in severe drug-resistant epilepsy: an early-access retrospective cohort study. Moloney P, Peña-Ceballos J, Munteanu T, Doyle M, Colleran N, Breen A, Donlon E, Liggan B, Murphy S, El-Naggar H, Widdess-Walsh P, Delanty N.
O12	11.53	A Retrospective Study of the Correlation Between Duration of Monitoring in Epilepsy Monitoring Unit and Diagnostic Yield. Adenan H, Khalil M, Loh K, Kelly L, Shukralla A, Klaus S, Kilbride R, Mullins G, Widdess- Walsh P, Kinney M, Delanty N, El-Naggar H
O13	12.06	Cavum Septum Pellucidum on MRI is a marker of bilateral tonic-clonic seizures in individuals with epilepsy. Dolan E, Khalil M, Adenan H, Kilbride R.
O14	12.19	Provoked seizures in the Cork region- A 3 year follow up. Murphy M, Maloney E, Costello DJ.
O15	12.32	The impact of driving restriction on patients with epilepsy in Ireland. Klaus SP, Murphy P, Delanty N.

12.45 – 13.45 Lunch

13.45 – 14.15 SESSION III –Poster Viewing Session Expert led poster tours		
Poster Section	Category	Guided Tour Time
Tour A	Neuroinflammation / Multiple Sclerosis	Thursday 12th 13.45
Tour B	Neurovascular and Stroke	Friday
Tour C	Neurogenetics	Friday
Tour D	Cognitive Impairment and FND	Thursday 12th 13.45
Tour E	Neuropathology	Friday
Tour F	Neuromuscular and Neurophysiology	Thursday, 12th 14.10
Tour G	Movement Disorder	Thursday, 12th 14.00
Tour H	Epilepsy	Thursday, 12th 14.00
Tour I	Neuroinfection	Friday,
Tour J	General Interest	Friday

14.15 – 15.45 SESSION IV –Platform Presentations (Multiple Sclerosis) Chair: Dr. Maria Gaughan		
Developments in Multiple Sclerosis: what we may have missed during the COVID-19 period. Dr. Maria Gaughan, St. Vincent’s University Hospital		
016	14.25	Audit of the National Stem Cell Transplant Meeting. Reynolds A, McGuigan C, Lonergan R, Gaughan M.
017	14.38	Evaluation of efficacy and safety outcomes achieved with the use of off-label, low-dose rituximab for multiple sclerosis at the Mater Misericordiae University Hospital. Tuthill J, Kehoe B, O’Driscoll M, Crowley E, Melling J, Allison P, Brown J, Lonergan R, O’Rourke K.
018	14.51	Burden of autoimmune and infectious encephalitis: a single-centre five-year retrospective study. Gilligan M, Burke S, McDermott S, Wallace E, Kinsella J, O’Riordan S, Tubridy T, McGuigan C.
019	15.04	A clinical audit looking at JCV seroconversion rates in a cohort of patients being treated with natalizumab for relapsing remitting MS. Lynch SJ, Leahy T, Counihan T, McGrath, E.
020	15.17	Screening for Depression in Adult Patients with Multiple Sclerosis using the Beck’s Depression Inventory-Fast Screen. Macken E, Munteanu T, Redmond J.
021	15.30	Cladribine use and efficacy in a Multiple Sclerosis (MS) centre. McFarlane R, Costelloe L.

15.45 - 16.15 Tea and Coffee

16.15 – 16.45 SESSION V – INA Business Meeting (Members Only) Chair: Dr. Paul Crowley	16.15 – 18.00 SESSION VI - Trainee Session Neurology Trainees
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FRIDAY 13th May

08.00 – 09.00 Registration, Tea and Coffee

Novartis Sponsored Symposium Chair: Dr. Brian Sweeney Guest Speaker via Zoom: Prof. Martin Weber.	
08.00 – 09.00	<i>“The role of B (and T) cells in multiple sclerosis – lessons learned in the anti-CD20 journey”</i> Prof. Martin Weber, Professor for Translational Neuroinflammation Institute of Neuropathology and Department of Neurology, Universitätsmedizin Göttingen, Germany. Head of the interdisciplinary Clinical Multiple Sclerosis Center.

09.15 – 10.45 SESSION VII– Platform Presentations Chair: Professor Sinead Murphy		
Developments in Neuromuscular Disease: what we may have missed during the COVID-19 period. Professor Sinead Murphy, Tallaght University Hospital		
022	09.30	Genetic Neuropathies in an Irish clinic-based population. Ryan M, Togher Z, Bermingham J, McHugh J, Alexander M, Murphy SM.
023	09.41	Does specificity of electrodiagnostic test referrals predict for test outcome in children? McHugh JC, O’Flaherty E, Daly N.
024	09.52	The Neurophysiology of CANVAS: a case series. Gorman C, Ryder E, Kelly MJ, Bogdanova-Mihaylova P; Reilly MM, Houlden H, Cortese A, McHugh JC, Alexander M, Walsh R, Murphy SM.
025	10.03	Extracellular Vesicle Sphingomyelins as Diagnostic Biomarkers in Motor Neurone Diseases. McCluskey G, Mihalovova E, Costello C, Dumonceaux J, Donaghy C, Morrison K, Malaspina A, Pradat PF, Duddy W, Duguez S.
026	10.14	Differing aetiologies of anterior interosseous neuropathy – a case series. Mooney S, Dolan R, Connolly S.
027	10.25	Risdiplam for the Treatment of Adults with Spinal Muscular Atrophy: Experience of the Northern Ireland Neuromuscular Service. McCluskey G, Lamb S, Mason S, NicFhirleinn G, Tirupathi S, Morrison K, McConville J.
028	10.36	The patient journey towards a diagnosis of hereditary transthyretin amyloidosis – an Irish perspective. Togher Z, Coyle H, Russell C, Ryan M, Alexander M, McHugh JC, Murphy SM.

10.45 – 11.15 Tea and Coffee

<p>11.15 – 12.00</p> <p>SESSION VIII – Plenary Session – (Cerebrovascular Neurology)</p> <p>Chair: Dr. Ferghal McVerry</p>
<p>Dr. Ferghal McVerry, Altnagelvin Hospital, Derry</p> <p><i>'Developments in Cerebrovascular Disease: what we may have missed during the COVID-19 period'.</i></p>
<p>Dr. Áine Merwick, Cork University Hospital</p> <p><i>'What is the matter with the white matter'.</i></p>
<p>Professor Peter Kelly, Mater Misericordiae University Hospital</p> <p><i>'Inflammation - the new risk factor and treatment target for stroke prevention'.</i></p>

<p>12.00 – 13.00</p> <p>SESSION IX – Noel Callaghan Guest Lecture</p> <p>Chair: Dr. Paul Crowley</p>
<p>Associate Professor Atte Meretoja, Helsinki University Hospital.</p> <p><i>"Treatment options in intracerebral hemorrhage – beliefs, evidence, and practice."</i></p>

13.00 – 14.15 Lunch

<p>14.15 – 15.00</p> <p>Session X –Poster Viewing Session</p> <p>Expert led Tours</p>		
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Tour A	Neuroinflammation / Multiple Sclerosis	Thursday
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Tour H	Epilepsy	Thursday
Tour I	Neuroinfection	Friday, 13th 14.15
Tour J	General Interest	Friday, 13th 14.30

15.00 – 16.00		
SESSION XI - Platform Presentations (Movement Disorders)		
Chair: Professor Timothy Counihan		
Developments in Movement Disorders: what we may have missed during the COVID-19 period. Professor Timothy Counihan, Galway University Hospital.		
029	15.00	A Ten Year Service Evaluation of Botulinum Toxin Type A Treatment for Cervical Dystonia. Bradley M, Ryan M, Molloy F.
030	15.13	Deep Brain Stimulation in Idiopathic Parkinson's Disease; 6 month Outcomes from the National Deep Brain Stimulation Service in Ireland Killian O, Ronan F, Garvey M, Belton A, Murphy E, Reynolds E, Austin N, Moran C, Walsh R.
031	15.26	Is the skin different in Parkinson's disease as compared to controls? Evaluation of sebum content hydration, and skin surface pH. Chaity D, Ronan F, Ennis C ¹ , Inocentes J, Walsh R, Olszewska D, Tobin D, Lynch T.
032	15.39	An Audit of the Clinical Use of Cerebrospinal Fluid Neurodegenerative Biomarkers. McKenna MC, Dunne J, Conlon N, Hutchinson S.

16.15 President's address

16.20 Announcement and Presentation of Awards

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| <ol style="list-style-type: none"> 1. Harold Millar Prize for best overall presentation. 2. John Kirker Prize for best Epilepsy related presentation. 3. Mark Gibson Medal for best Movement Disorder Presentation. 4. Hugh Staunton Medal for best Undergraduate or Intern Presentation. 5. Best Neurosurgical presentation – not currently named in anyone's honour 6. Dr. John Lynch Prize for best Poster presentation |
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16.45 Close of Meeting and depart

Poster Categories

- A. Neuroinflammation / Multiple Sclerosis**
- B. Neurovascular and Stroke**
- C. Neurogenetics**
- D. Cognitive Impairment and FND**
- E. Neuropathology**
- F. Neuromuscular and Neurophysiology**
- G. Movement Disorder**
- H. Epilepsy**
- I. Neuroinfection**
- J. General Interest**

Contents – Poster Presentations

A –Neuroinflammation / Multiple sclerosis

- A1. But It Twist And Turns.
Bansal D, Craig J.
- A2. Patterns of use and effectiveness of analgesics and cannabinoids for pain relief among patients with Multiple Sclerosis in an Irish population.
Daly D, Sweeney B.
- A3. Lupus related Longitudinal Extensive Transverse Myelitis.
Hick M, Wan Ahmad M, Armstrong N, Hilmi H, Friers D, Boers P.
- A4. Fingolimod and skin cancer: are we cutting it?
Hughes S, Kilpatrick L, Turley N, Cartmill G, Ramsay S, Kennedy F, McDonnell G, Kee R.
- A5. A Chronic Case of NMDAr-Ab Encephalitis?
Kelly M, Clarke S, Keogan M, Delanty N.
- A6. LGI-1 antibody-associated encephalitis.
Kennelly L, Fullam S, Finegan E, Kinsella J.
- A7. All that glitters is not CLIPPERS.
Mulcahy L, Delaney S, Fanning N, Bermingham N, Sweeney B.
- A8. Autoimmune Neurological Phenomenon In A Patient with Chronic Lymphocytic Leukemia.
Tan LYJ, Ero A, McHugh J, Wan Ahmad M, Clifford R, Yacoob Y.
- A9. Effect of reduced blood monitoring frequency in patients on dimethyl fumarate during the COVID-19 pandemic.
Vaughan D, Orazulume O, Fugger M, Brownlee W.
- A10. Establishing and developing the role of a coordinator for Multiple Sclerosis services in Belfast.
Ramsay S, Kennedy F, Hughes S, Turley N, Kilpatrick L, McDonnell GV.

B – Neurovascular and Stroke.

- B1. Case of a 25-year-old lady with eye swelling and headache.
Hehir A, Gilmore R, Power S, McGrath ER, Monaghan TS.
- B2. Amyloid without microhaemorrhage – a case of atypical imaging and classic histology.
Klaus SP, Charania S, Byrne D, Cryan J, Laffan A.
- B3. A pilot study investigating the effect of vascular comorbidities on cognition in multiple sclerosis.
Lee K, Field RH, Lockhart A, Hutchinson S, Redmond J, Kearney H.
- B4. Early Onset Cerebral Amyloid Angiopathy following Neonatal Exposure to Cadaveric Dura.
O'Connor A, Adams-Carr K, Liu R, Jabeen F, Kennedy J.
- B5. Ischaemic Lumbosacral Plexopathy following Infrarenal Aortic Thrombosis.
Quigley S, Troy E, Jansen M, Bermingham N, Ryan AM.
- B6. Post Stroke Epilepsy: Risk Factors, Management, and Outcomes for patients admitted to a Level One Rehabilitation Hospital.
Shanahan J, Roberts K.

C – Neurogenetics

- C1. Rare heterozygous missense variant in the SPTBN2 gene causing SCA5.
Power A, Delaney S, O'Toole O.

- C2. Stiff legs post-partum: Hereditary spastic paraplegia type 76 (SPG 76) due to a homozygous mutation in CAPN1.
McElligott L, Gillan D, Mullins G, O'Hare A, McGovern E.

- C3. A Case of ATP1A2 Familial Hemiplegic Migraine Presenting with Unilateral Encephalopathy and a Cytotoxic Corpus Callosum Lesion.
Troy E, Reynolds A, McNamara B, Merwick Á.

D – Cognitive Impairment and FND

- D1. Neuropsychological profile of a cohort with Parkinsons disease offered Deep Brain Stimulation; preliminary comparison of preoperative data with 12 month follow up.
Austin N, Belton A, Garvey M, Ronan F, Moran C, Walsh R.
- D2. Dementia and Polypathology with Features Suggestive of Prion-like Propagation Following Traumatic Brain Injury.
Brennan D, Delaney C, Farrell M, Campbell M, Doherty CP.
- D3. Cefalexin-Induced Electroencephalography Changes Mimicking Creutzfeldt-Jakob disease.
Delaney S, O'Sullivan P, Dineen J, McNamara B, O'Toole O
- D4. Clinical characteristics of patients with functional neurological disorders receiving a physiotherapy delivered intervention as part of a cross specialty multidisciplinary team approach to improved functioning.
Doherty K, Crowley S, O'Sullivan L, Gallagher S, Cassidy EM, Kinahan J, Campbell F, Sweeney B, Kelleher E.
- D5. Right Temporal Variant Frontotemporal Dementia: A Case Series of an Under-recognised Entity
Finnegan M, Hutchinson S, O'Dowd S.
- D6. Integrating Psychiatry into Neurology Cognitive Clinics: description of the first cross-disciplinary Fellowship in Young Onset Dementia
Finnegan M, O'Dowd S, Hutchinson S, Lynch A.
- D7. Psychiatric Onset of Familial Alzheimer's Disease in a 29-year-old Somali woman: a case report and review of the literature.
Kelly S, Klaus S, Asad M, Crumlish N, Hutchinson S.
- D8. Young onset dementia: a case of inherited prion disease'.
McKenna MC, Mead S, Hutchinson S.
- D9. First presentation with neuropsychiatric symptoms in familial Alzheimer's disease: The Dominantly Inherited Alzheimer's Network Study.
O'Connor A, Howard R, Reeves S, Fox NC.

E – Neuropathology.

- E1. Brain tumour Diagnostics in Cork University Hospital, A Five-Year review.
Fives C, Jansen M, Bermingham N.

- E2. Brain Mosaic Mutations as a cause of drug-resistant epilepsy including hippocampal sclerosis.
Doyle M, Benson K, Carton R, Kearney H, O'Brien D, Henshall D, Cavalleri GL, Delanty N.

F. Neuromuscular and Neurophysiology.

- F1. Dorsal root ganglionopathy with retained H-reflexes in CANVAS.
McKenna MC, Kinsella J, Houlden H, Connolly S.
- F2. A Case of Miller Fisher Syndrome with Delayed Onset Facial Nerve Palsy.
Kehoe C, Hunt I, McGuigan C.
- F3. Evaluation of autonomic function in patients with “long-COVID”.
Claffey N, McCann K, Mallon P, Connolly S.
- F4. Painful Legs Moving Toes Syndrome with Anti-Mi2 Beta Antibody
Seropositive Dermatomyositis
Delaney S, Power A, Ryan J, Ryan A.

G – Movement Disorder

- G1. Dance Therapy for Parkinson's disease during the COVID-19 Pandemic.
McElligott L, Bradley M, Lyons O, Delanty N, Healy D, Byrne S, Costelloe L, McGovern E.
- G2. Mimicry or multiplicity: two patients with a PSP phenotype and underlying rare genetic neurodegenerative disorders.
Lyons S, Walsh R, Lynch T, O'Dowd S.
- G3. A multi-disciplinary clinic and support group for patients with newly diagnosed PD: an integrated approach to patient care.
Gillan D, Diaz M, Doyle L, Campbell M, Tattersall R, Duignan E, O'Dea A, Pender N, McGovern E.
- G4. Examining the Effects of Deep Brain Stimulation on Vocal volume and Quality in patients with Parkinson's Disease (PD) in an Irish cohort; Speech Outcomes at 6 months post-operatively.
Garvey M, Belton A, Ronan F, Austin N, Moran C, Walsh R.
- G5. Does Metformin impact on the progression of Parkinson's disease in patients with Diabetes Mellitus?: a Retrospective Observational Pilot Study.
Craughwell M, Counihan T, Newell J.
- G6. Remote Multi-domain Monitoring of Motor parameters in Parkinson's Disease as a Surrogate for Face-to-Face Review during Deep Brain Stimulation Programming.
Belton A, Murphy E, Reynolds E, Ronan F, Austin N, Garvey M, Moran C, Walsh R.
- G7. Balance Assessment Before and After Bilateral Subthalamic Nucleus Deep Brain Stimulation in a Cohort with Parkinson's disease; 6 month follow-up data.
Belton A, Murphy E, Reynolds E, Ronan F, Garvey M, Austin N, Moran C, Walsh R.

H – Epilepsy

- H1. Epilepsy in Older People: A survey to Geriatric Trainees in Northern Ireland.
Ryan K, Joyce N, Kinney M.
- H2. Patient Awareness and Management of Bone health in Epilepsy Patients.
Russell C, Kelly M, Togher Z, Cunningham D, Murphy SM, O'Dowd S, McCarthy A, O'Connell K.
- H3. A service development evaluation of the regional paediatric to adult epilepsy transition service.
Pereira P, Hewitt K, Tirupathi S, Hanrahan D, Kinney M.
- H4. Psychogenic Non-epileptic Seizures and Lockdown – has the incidence increased?
Mooney S, Connolly S.
- H5. An audit of patient safety in the Epilepsy Monitoring Unit.
Irving E, Munteanu T, El Naggat H, Kilbride R, Widdess-Walsh P, Delanty N.
- H6. Painful Todd's Paresis: A Case Report.
Dolan E, Kilbride R.
- H7. First Seizure Clinic Outcomes from first 6 months of a non-consultant delivered clinic.
Alabi O, Weir A, Crawford K, Cuthbert C, McKeever E, Booth R, Forbes R.

I – Infection

- I1. Acute and Chronic Demyelinating Polyneuropathy post AstraZeneca Covid-19 Vaccine.
Freir D, Kelly S, Hudson A, Richard G, Mullins G, Chalissery A, Lefter S.
- I2. “Dancing Fever” - Streptococcal infection in an adult presenting as acute hemichorea.
Mulcahy L, Delaney S, Costello D.
- I3. Human herpesvirus 6 limbic encephalitis: a rare cause of viral encephalitis in immunosuppressed host.
Kalaszi M, Coffey J, McMonagle E, Wan Ahmad M, Boers P, Ryan J.
- I4. Brachial neuritis following BNT162b2 COVID-19 vaccination'.
Zann Gan S, Togher Z, McHugh JC, Murphy SM.
- I5. Post -covid headache in healthcare workers: a case series from Tallaght University Hospital headache clinic
Hannon C, Moran S, Bogdanova-Mihalylova P.
- I6. The investigation of acute optic neuritis: a five-year audit.
Manahan L, Gilligan M, Gaughan M, Tubridy N, McGuigan C.
- I7. Recurrent Miller Fisher syndrome associated with SARS CoV-2 infection.
Armstrong N, Wan Ahmad M, Hicks M, Hilmi H, Frier D, Dineen J, Yacoob Y, Boers P.
- I8. Meningoencephalomyelitis in an immunosuppressed adult: GBV-C virus identified in brain tissue upon metagenomic assessment.
Kirk C, McCorry L, Kinney M, McCaughey C, Hunter M, Herron B, Breuer J, Kearney S

J – General Interest.

- J1. “FixodoZn’t”: Copper Deficiency Myelopathy secondary to Dietary Copper Deficiency and Zinc Excess.
O’Donnell MM, Kelly A, Penugonda M, Kehoe C, Reynolds A, Kinsella K, Tubridy N.
- J2. Audit of the National Stem Cell Transplant Meeting.
Reynolds A, McGuigan C, Lonergan R, Gaughan M.
- J3. A ‘Gas time’, but no laughing matter!
Ryan M, Dowling L, Togher Z, Walsh R, 2, Hennigan B, Alexander M, McCarthy A.
- J4. LOTS in the Needle Examination.
Togher Z, Gan SZ, Ryan M, McHugh JC, O’Dowd S, Murphy SM.
- J5. A Case of Migrainous Infarction in a 40year Old Male with a History of Spontaneous Coronary Artery Dissection.
Troy E, Quigley S, Walker L, Ryan AM.
- J6. An audit of headache presentations to the Emergency Department: Diagnosis and Management.
Warfield N, Kehoe C, Gaughan M.
- J7. An audit of clinician documentation of lumbar puncture procedures in a tertiary neurology department before and after the introduction of a standardised lumbar puncture documentation proforma.
Mulcahy L, O Leary A, Delaney S, Vaughan D, Durcan R, Munteanu T, Merwick A, Lefter S.
- J8. Everolimus targeted therapy for DEPDC5 mTORopathy.
Moloney P, Kearney H, Doyle M, White M, Grealley M, Costello D, Lynch B, Gorman K, Benson K, Cavalleri GL, Delanty N.
- J9. Subacute combined degeneration of the cord secondary to recreational nitrous oxide use – a high followed by a new low.
Klaus SP, McDonnell C, Dennehy G, Crowley K, Gander L, Kelly S, Langan Y, Kearney H
- J10. Metronidazole induced encephalopathy: case report and imaging features.
King B, McPartland T, Booth R, Alabi O, Forbes R.

- J11. Lost in Translation: Telephone Referrals to a Tertiary Neurology Referral Centre.
Fullam S, Bradley M, Delaney S, Troy E, Sweeney B.
- J12. The use of calcitonin gene-related peptide (CGRP) receptor monoclonal antibodies for the prevention of migraine episodes in patients with chronic migraine at St. Vincent's University Hospital, Dublin.
Dunphy A, Tubridy N.
- J13. Outcomes Of Elective Lumbar Puncture In A District General Hospital: First Year Of New Service.
Alabi O, Booth R, Forbes R.