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dag {  
bb="0,0,1,1"  
"Age at onset" [exposure,pos="0.746,0.924"]  
"Age at surgery" [exposure,pos="0.850,0.942"]  
"CNS infections" [exposure,pos="0.524,0.574"]  
"Clinical uncertainty" [latent,pos="0.419,0.576"]  
"Complete excision" [exposure,pos="0.371,0.740"]  
"Damaged anti-epileptogenic networks" [latent,pos="0.730,0.757"]  
"Degree of multimodal concordance" [exposure,pos="0.432,0.484"]  
"Duration of epilepsy" [exposure,pos="0.869,0.823"]  
"Duration of follow-up" [outcome,pos="0.927,0.604"]  
"E, O or ME" [adjusted,pos="0.317,0.213"]  
"Engel Class" [outcome,pos="0.787,0.296"]  
"Epilepsia partialis continua" [adjusted,pos="0.125,0.688"]  
"Epileptic spasms" [exposure,pos="0.266,0.783"]  
"Extensive or multilobar resection" [exposure,pos="0.590,0.854"]  
"FCD and subtypes" [exposure,pos="0.301,0.121"]  
"Febrile convulsions" [exposure,pos="0.695,0.117"]  
"Focal > Multifocal > Generalised" [latent,pos="0.636,0.321"]  
"Focal FDG-PET" [exposure,pos="0.225,0.484"]  
"Focal MRI abnormality" [exposure,pos="0.441,0.201"]  
"Focal ictal EEG" [exposure,pos="0.049,0.497"]  
"Focal interictal EEG" [exposure,pos="0.078,0.590"]  
"Focal pathology" [exposure,pos="0.333,0.380"]  
"Focal seizure semiology" [exposure,pos="0.215,0.609"]  
"Genetics: e.g. mTOR pathway" [exposure,pos="0.135,0.027"]  
"Geographical location of surgery" [adjusted,pos="0.264,0.961"]  
"H1 spectroscopic abnormality" [adjusted,pos="0.097,0.328"]  
"Hippocampal Sclerosis" [exposure,pos="0.386,0.040"]  
"History of head injury" [exposure,pos="0.546,0.134"]  
"ILAE scale" [outcome,pos="0.764,0.359"]
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"Intraoperative EEG" [adjusted,pos="0.452,0.650"]
"Invasive EEG" [exposure,pos="0.258,0.881"]
"Lateralised EEG" [exposure,pos="0.069,0.399"]
"New or change in seizure semiology" [exposure,pos="0.573,0.943"]
"New seizure-focus" [latent,pos="0.893,0.705"]
"Number of cortical tubers" [adjusted,pos="0.508,0.270"]
"Postoperative discharges" [outcome,pos="0.926,0.374"]
"Postsurgical Seizure Freedom" [outcome,pos="0.879,0.518"]
"Presence of limited EZ" [latent,pos="0.740,0.452"]
"Proportion of EZ resected" [latent,pos="0.749,0.659"]
"SISCOM abnormalities" [exposure,pos="0.478,0.341"]
"Seizure frequency" [exposure,pos="0.602,0.510"]
"Severe learning disability" [exposure,pos="0.665,0.220"]
"Side of resection" [adjusted,pos="0.410,0.961"]
"Surgical technique" [exposure,pos="0.387,0.834"]
"TL vs ET resections" [exposure,pos="0.546,0.772"]
"Theoretical \"focal lesion\"" [latent,pos="0.222,0.270"]
"Vascular lesions" [adjusted,pos="0.415,0.132"]
"Video-EEG telemetry" [adjusted,pos="0.076,0.781"]
"Without APOS" [outcome,pos="0.893,0.272"]
"sEEG vs subdural grid" [exposure,pos="0.123,0.866"]
Astrocytoma [pos="0.078,0.280"]
Encephalomalacia [pos="0.555,0.064"]
Neuromigrational [adjusted,pos="0.068,0.137"]
Sex [adjusted,pos="0.246,0.063"]
Tumours [exposure,pos="0.126,0.188"]
"Age at onset" -> "Duration of epilepsy"
"Age at surgery" -> "Duration of epilepsy"
"CNS infections" -> "Focal > Multifocal > Generalised" [pos="0.576,0.374"]
"CNS infections" -> "Focal pathology" [pos="0.576,0.385"]
"Clinical uncertainty" -> "Intraoperative EEG"

"Clinical uncertainty" -> "Invasive EEG" [pos="0.169,0.713"]

"Complete excision" -> "Proportion of EZ resected"

"Damaged anti-epileptogenic networks" -> "New seizure-focus"

"Damaged anti-epileptogenic networks" -> "Postsurgical Seizure Freedom"

"Damaged anti-epileptogenic networks" -> "Seizure frequency"

"Damaged anti-epileptogenic networks" <-> "Focal > Multifocal > Generalised" [pos="0.665,0.562"]

"Degree of multimodal concordance" -> "Clinical uncertainty"

"Degree of multimodal concordance" -> "Complete excision" [pos="0.344,0.598"]

"Degree of multimodal concordance" -> "Focal > Multifocal > Generalised"

"Degree of multimodal concordance" -> "Presence of limited EZ"

"Degree of multimodal concordance" -> "Proportion of EZ resected"

"Duration of epilepsy" -> "Damaged anti-epileptogenic networks"

"Duration of epilepsy" -> "New seizure-focus"

"Duration of epilepsy" -> "Severe learning disability" [pos="0.780,0.591"]

"Duration of epilepsy" <-> "TL vs ET resections" [pos="0.665,0.787"]

"Duration of follow-up" <-> "Postsurgical Seizure Freedom" [pos="0.921,0.556"]

"E, O or ME" -> "Focal MRI abnormality"

"Epilepsia partialis continua" <-> "Focal seizure semiology" [pos="0.124,0.653"]

"Epileptic spasms" -> "Focal seizure semiology" [pos="0.257,0.705"]

"Extensive or multilobar resection" -> "Damaged anti-epileptogenic networks"

"Extensive or multilobar resection" <-> "TL vs ET resections" [pos="0.609,0.797"]

"FCD and subtypes" -> "Focal pathology"

"FCD and subtypes" -> "Theoretical \"focal lesion\"" [pos="0.205,0.169"]

"Febrile convulsions" -> "Focal > Multifocal > Generalised" [pos="0.573,0.171"]

"Febrile convulsions" <-> "Focal MRI abnormality"

"Febrile convulsions" <-> "TL vs ET resections" [pos="0.774,0.366"]

"Focal > Multifocal > Generalised" -> "Clinical uncertainty" [pos="0.583,0.498"]

"Focal > Multifocal > Generalised" -> "Presence of limited EZ"

"Focal > Multifocal > Generalised" -> "Seizure frequency"

"Focal > Multifocal > Generalised" <-> "New seizure-focus" [pos="0.638,0.566"]

"Focal > Multifocal > Generalised" <-> "Severe learning disability" [pos="0.717,0.288"]

"Focal FDG-PET" -> "Degree of multimodal concordance"
"Focal MRI abnormality" -> "Degree of multimodal concordance" [pos="0.390,0.379"]
"Focal MRI abnormality" -> "Focal FDG-PET" [pos="0.269,0.325"]
"Focal MRI abnormality" -> "Focal ictal EEG"
"Focal MRI abnormality" -> "Focal interictal EEG" [pos="0.173,0.414"]
"Focal MRI abnormality" -> "Focal seizure semiology" [pos="0.412,0.402"]
"Focal MRI abnormality" -> "Number of cortical tubers" [pos="0.519,0.203"]
"Focal MRI abnormality" -> "Vascular lesions"
"Focal ictal EEG" -> "Degree of multimodal concordance" [pos="0.194,0.422"]
"Focal ictal EEG" -> "Focal seizure semiology"
"Focal ictal EEG" -> "Video-EEG telemetry" [pos="0.001,0.606"]
"Focal ictal EEG" <-> "Focal interictal EEG"
"Focal ictal EEG" <-> "Lateralised EEG"
"Focal interictal EEG" -> "Degree of multimodal concordance"
"Focal interictal EEG" -> "Video-EEG telemetry" [pos="0.036,0.641"]
"Focal interictal EEG" <-> "Lateralised EEG" [pos="0.110,0.470"]
"Focal pathology" -> "Complete excision" [pos="0.300,0.619"]
"Focal pathology" -> "Degree of multimodal concordance" [pos="0.275,0.434"]
"Focal pathology" -> "Focal FDG-PET"
"Focal pathology" -> "Focal MRI abnormality"
"Focal pathology" -> "Focal ictal EEG"
"Focal pathology" -> "Focal interictal EEG"
"Focal pathology" -> "Focal seizure semiology"
"Focal pathology" -> "H1 spectroscopic abnormality"
"Focal pathology" -> "Lateralised EEG"
"Focal pathology" -> "Vascular lesions" [pos="0.353,0.238"]
"Focal pathology" <-> "Theoretical \"focal lesion\""
"Focal seizure semiology" -> "Degree of multimodal concordance" [pos="0.334,0.548"]
"Focal seizure semiology" -> "Video-EEG telemetry" [pos="0.224,0.729"]
"Genetics: e.g. mTOR pathway" -> "Degree of multimodal concordance" [pos="0.267,0.465"]
"Genetics: e.g. mTOR pathway" -> "FCD and subtypes"

"Genetics: e.g. mTOR pathway" -> "Febrile convulsions" [pos="0.660,0.002"]

"Genetics: e.g. mTOR pathway" -> "Focal ictal EEG" [pos="0.001,0.162"]

"Genetics: e.g. mTOR pathway" -> "Focal interictal EEG" [pos="0.124,0.480"]

"Genetics: e.g. mTOR pathway" -> "Focal pathology" [pos="0.309,0.255"]

"Genetics: e.g. mTOR pathway" -> "Hippocampal Sclerosis"

"Genetics: e.g. mTOR pathway" -> "Lateralised EEG" [pos="0.014,0.199"]

"Genetics: e.g. mTOR pathway" -> "Theoretical \"focal lesion\""

"Genetics: e.g. mTOR pathway" -> Astrocytoma [pos="0.181,0.263"]

"Genetics: e.g. mTOR pathway" -> Neuromigrational

"Genetics: e.g. mTOR pathway" -> Sex

"Genetics: e.g. mTOR pathway" -> Tumours

"Geographical location of surgery" <-> "Surgical technique"

"Hippocampal Sclerosis" -> "Febrile convulsions"

"Hippocampal Sclerosis" -> "Focal MRI abnormality" [pos="0.488,0.082"]

"Hippocampal Sclerosis" -> "Theoretical \"focal lesion\"" [pos="0.170,0.090"]

"History of head injury" -> "Focal > Multifocal > Generalised"

"History of head injury" -> "Focal MRI abnormality"

"History of head injury" -> "Theoretical \"focal lesion\"" [pos="0.234,0.154"]

"History of head injury" -> Encephalomalacia

"Intraoperative EEG" <-> "Surgical technique" [pos="0.477,0.695"]

"Invasive EEG" -> "Degree of multimodal concordance" [pos="0.169,0.770"]

"Invasive EEG" -> "sEEG vs subdural grid"

"Lateralised EEG" -> "Degree of multimodal concordance" [pos="0.206,0.402"]

"Lateralised EEG" -> "Focal seizure semiology"

"New seizure-focus" -> "New or change in seizure semiology" [pos="0.855,0.767"]

"New seizure-focus" -> "Postsurgical Seizure Freedom" [pos="0.850,0.627"]

"Postoperative discharges" -> "Without APOS" [pos="0.867,0.342"]

"Postsurgical Seizure Freedom" -> "Engel Class"

"Postsurgical Seizure Freedom" -> "ILAE scale"

"Postsurgical Seizure Freedom" -> "Postoperative discharges"

"Postsurgical Seizure Freedom" -> "Without APOS" [pos="0.832,0.352"]

"Presence of limited EZ" -> "Postsurgical Seizure Freedom" [pos="0.790,0.480"]

"Presence of limited EZ" -> "Proportion of EZ resected"

"Proportion of EZ resected" -> "Damaged anti-epileptogenic networks"

"Proportion of EZ resected" -> "New seizure-focus"

"Proportion of EZ resected" -> "Postsurgical Seizure Freedom"

"SISCOM abnormalities" -> "Degree of multimodal concordance"

"Side of resection" -> "Surgical technique"

"Side of resection" -> "TL vs ET resections" [pos="0.479,0.850"]

"Surgical technique" -> "Damaged anti-epileptogenic networks" [pos="0.518,0.684"]

"Surgical technique" -> "Extensive or multilobar resection"

"Surgical technique" -> "Proportion of EZ resected" [pos="0.484,0.652"]

"Surgical technique" <-> "TL vs ET resections"

"TL vs ET resections" -> "Damaged anti-epileptogenic networks"

"TL vs ET resections" -> "Proportion of EZ resected"

"Theoretical \"focal lesion\"" -> "Complete excision" [pos="0.299,0.516"]

"Theoretical \"focal lesion\"" -> "Focal > Multifocal > Generalised"

"Theoretical \"focal lesion\"" -> "Focal FDG-PET"

"Theoretical \"focal lesion\"" -> "Focal MRI abnormality"

"Theoretical \"focal lesion\"" -> "Focal ictal EEG" [pos="0.231,0.372"]

"Theoretical \"focal lesion\"" -> "Focal interictal EEG" [pos="0.191,0.324"]

"Theoretical \"focal lesion\"" -> "Focal seizure semiology"

"Theoretical \"focal lesion\"" -> "H1 spectroscopic abnormality"

"Theoretical \"focal lesion\"" -> "SISCOM abnormalities"

"sEEG vs subdural grid" -> "Degree of multimodal concordance" [pos="0.345,0.553"]

Astrocytoma -> Tumours

Encephalomalacia -> "Focal MRI abnormality" [pos="0.486,0.095"]

Encephalomalacia -> "Focal pathology" [pos="0.496,0.074"]

Neuromigrational -> "Focal MRI abnormality" [pos="0.292,0.154"]

Neuromigrational -> "Focal pathology" [pos="0.095,0.297"]

Neuromigrational -> "Severe learning disability" [pos="0.559,0.164"]

Neuromigrational -> "Theoretical \"focal lesion\"" [pos="0.219,0.168"]

Tumours -> "E, O or ME" [pos="0.193,0.207"]

Tumours -> "Focal pathology" [pos="0.119,0.283"]

Tumours -> "Theoretical \"focal lesion\""

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