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**LIST OF ABBREVIATIONS**

AED	antiepileptic drug
ASD	autism spectrum disorder
BFSS	Behavioral Risk Factor Surveillance System
CHIS	California Health Interview Survey
CHS	Community Health Survey
CI	confidence interval
COD	cause of death
COPD	chronic obstructive pulmonary disease
DM	diabetes mellitus
EEG	electroencephalography
EPIC	Epilepsy Comorbidities and Health Survey
ES	epilepsy-specific
ESI	Epilepsy Specific Index
GAD	glutamic acid decarboxylase
GAD-A	glutamic acid decarboxylase antibodies
GO	gastrointestinal
GP	general practitioner
GPRD	General Practice Research Database
HR	hazard ratio
ICD	International Classification of Diseases
ICPC	International Classification of Primary Care
IGE	idiopathic generalised epilepsy

IHD	ischemic heart disease
ILAE	International League Against Epilepsy
IQR	interquartile range
KM	Kaplan-Meier
MD	medical doctor
MRI	magnetic resonance imaging
N	no
NA	not applicable
NGPSE	National General Practice Study of Epilepsy
NHIS	National Health Interview Survey
NHS	National Health Service
NPHS	National Population Health Survey
NR	not reported
OR	prevalence odds ratio
PMR	proportionate mortality ratio
PR	prevalence ratio
PWE	people with epilepsy
SD	standard deviation
T1DM	type 1 diabetes mellitus
T2DM	type 2 diabetes mellitus
TIA	transient ischemic attack
Y	yes

**LIST OF PUBLICATIONS**

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## CURRICULUM VITAE

Mark Keezer was born on 6<sup>th</sup> October 1976 in Montreal, Quebec, Canada. He began his secondary education at Institution Charlemagne Inc in Montreal before moving to Stone Mountain, Georgia, USA in August 1992. In 1994, he completed secondary school at Tucker High School in Tucker, Georgia.

In 1994, Mark began his university career at Georgia State University in Atlanta, Georgia. In 1998 he completed a Bachelor's degree of arts, with majors in history and anthropology. After spending one year living in London, England and working for the local education authority of the London Borough of Hammersmith and Fulham, Mark returned to Montreal and attended McGill University. Mark completed a Bachelor's degree of science, with a major in biology in 2003 after which he completed his undergraduate medical training (2007 graduation), post-graduate medical training in neurology (2012 graduation), and a Master's degree of science in epidemiology (under the supervision of Prof Christina Wolfson; 2014 graduation), all at McGill University in Montreal. Mark obtained his specialist certificate in neurology from, and became a fellow of, the Royal College of Physicians and Surgeons of Canada in July 2012.

In December 2013, Mark began a clinical research fellowship in neuro-epidemiology and epilepsy at the Institute of Neurology, University College London, and the National Hospital for Neurology and Neurosurgery, Queen Square, under the supervision of Prof Josemir Sander. In June 2015 Mark began a 6-month clinical fellowship in electroencephalography at Hôpital Notre Dame (Centre hospitalier de l'Université de Montréal) under the supervision of Dr Dang Nguyen.

In December 2015, Mark was made an honorary research assistant at the NIHR University College London Hospitals Biomedical Research Centre, UCL Institute of Neurology, Queen Square. In December 2015, he also began his PhD in translational neuroscience at Leiden University and based at Stichting Epilepsie Instellingen Nederland (SEIN), working under the supervision of Prof Michel Ferrari. In January 2016, Mark joined the department of neurology at Hôpital Notre Dame as a clinical epileptologist and was made *professeur adjoint de clinique* (clinical assistant professor) in the Department of neurosciences at Université de Montréal.

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