

NEW!

Combines clinical data with animal models for a more complete picture

Sudden Death in Epilepsy

Forensic and Clinical Issues

*In-depth
investigation
of this tragically
under-reported
phenomenon*

Edited by

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Though it is one of the most common causes of death in epilepsy patients, SUDEP is still infrequently and even reluctantly named on autopsy reports. This under-reporting equates to a lack of attention and earnest investigation into the cause, predisposition, and prevention of SUDEP. There is as yet little effort to establish an actionable strategy in the mitigation of these potentially fatal arrhythmias.

Expanding on the 1990 book *Epilepsy and Sudden Death*, edited by Lathers and Schraeder, **Sudden Death in Epilepsy: Forensic and Clinical Issues** reviews the basic science of epilepsy as it relates to SUDEP. Clinical chapters study the sophisticated simultaneous ambulatory EKG and EEG telemetry and respiratory function monitoring of patients at risk for sudden death that will help identify cardiac, respiratory, and epileptogenic interactions involved. Chapters on animal models evaluate new data from studies that build on previously used models and emphasize that multiple models are needed to investigate the pathophysiology of SUDEP, to hypothesize about effective treatments, to develop pilot studies in persons with epilepsy, and to conduct confirmatory large-scale clinical trials.

Contributions discuss the interaction between the central and peripheral autonomic nervous systems and the cardiopulmonary systems; proposed mechanistic factors in SUDEP; risk categories of arrhythmogenic, respiratory, and hypoxia related cardiac death; psychological, emotional, and stress related factors; the role of alcohol and drugs in seizures; and the potential mitigating properties of antiepileptic medication.

Adopting a global, multidisciplinary focus to address the mystery of SUDEP, this important work provides clinicians, researchers, patients, and families with the knowledge to freely discuss the phenomenon and thereby discover the preventive treatment regimens to decrease the occurrence of SUDEP.

FEATURES

- Draws attention to one of the most common yet least reported causes of death in epilepsy patients
- Encourages open discussion and knowledge sharing among neurologists and cardiologists
- Emphasizes the need for multiple models to truly understand this tragic phenomenon
- Evaluates a range of possible causes, genetic predispositions, and drug treatment strategies
- Investigates lifestyle factors including drugs, alcohol, exercise, and emotional and physical stress levels

CONTENTS

Forensics of Sudden Death

- Neurocardiologic Mechanistic Risk Factors in Sudden Unexpected Death in Epilepsy: *C.M. Lathers, P.L. Schraeder, and M.W. Bungo*
- Forensic Considerations and Sudden Unexpected Death in Epilepsy: *J.E. Leestma*
- Omega-3 Fatty Acids in Sudden Unexpected Death in Epilepsy: Guardian of the Brain-Heart Connection: *F.A. Scorza, E.A. Cavaleiro, R.M. Arida, V.C. Terra, C.A. Scorza, E.Y.F. Sonoda and R.M. Cysneiros*
- Unanswered Questions: SUDEP Studies Needed: *C.M. Lathers, P.L. Schraeder and M.W. Bungo*
- Medullary Serotonergic Abnormalities in Sudden Infant Death Syndrome: Implications in SUDEP: *D.S. Paterson*
- Forensic Case Identification: *P.L. Schraeder, E.L. So and C.M. Lathers*
- Sudden Unexpected Death in Epilepsy: Future Research Directions: *S. Parvulescu-Codrea*
- Forensic Postmortem Examination of Victims of Sudden Unexpected Death in Epilepsy: *C.M. Lathers, P.L. Schraeder, S.A. Koehler and C.H. Wecht*
- One-Year Postmortem Forensic Analysis of Deaths in Persons with Epilepsy: *S.A. Koehler, P.L. Schraeder, C.M. Lathers and C.H. Wecht*
- Drug Abuse and SUDEP: *S.B. Karch*

See reverse side for continuation of Contents and ordering information

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- Cocaine-Induced Seizures, Arrhythmias, and Sudden Death: *C.M. Lathers, M.M. Spino, I. Agarwal, L.S.Y. Tyau and W.B. Pickworth*
- Risk Factors for Sudden Death in Epilepsy: *T. Walczak*
- EEG Findings in SUDEP: *M. Nei and N. Simpkins*
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- Not Seizure but Syncope: *S. Sharma, T. Ho and B.K. Kantharia*
- Syncope, Seizures, and SUDEP: Case Histories: *C.M. Lathers, P.L. Schraeder and M.W. Bungo*
- Sudden Death in Epilepsy: Relationship to the Sleep-Wake Circadian Cycle and Fractal Physiology: *J.D. Hughes and S. Sato*
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- SUDEP Animal Models**
- MECHANISMS OF RISKS**
- Sudden Death: Animal Models to Study Nervous System Sites of Action for Disease and Pharmacological Intervention: *C.M. Lathers*
- Synaptic Plasticity of Autonomic Ganglia: Role of Chronic Stress and Implication in Cardiovascular Diseases and Sudden Death: *K.A. Alkadhi and K.H. Alzoubi*
- Animal Model for Sudden Cardiac Death: Autonomic Cardiac Sympathetic Nonuniform Neural Discharge: *C.M. Lathers*
- Animal Model for Sudden Unexpected Death in Persons with Epilepsy: *C.M. Lathers and P.L. Schraeder*
- A Characterization of the Lockstep Phenomenon in Phenobarbital-Pretreated Cats: *J.M. Dodd-O and C.M. Lathers*
- Relationship of the Lockstep Phenomenon and Precipitous Changes in Blood Pressure: *A.Z. Stauffer, J.M. D.O and C.M. Lathers*
- Interspike Interval Histogram Characterization of Synchronized Cardiac Sympathetic Neural Discharge and Epileptogenic Activity in the Electrocardiogram of the Cat: *D.K. O'Rourke and C.M. Lathers*
- Power Spectral Analysis: A Procedure for Assessing Autonomic Activity Related to Risk Factors for Sudden and Unexplained Death in Epilepsy: *S.R. Quint, J.A. Messenheimer and M.B. Tennison*
- Animal Model for Sudden Cardiac Death: Sympathetic Innervation and Myocardial Beta-Receptor Densities: *C.M. Lathers and R.M. Levin*
- Antiepileptic Activity of Beta-Blocking Agents: *C.M. Lathers, K.F. Jim, W.H. Spivey, C. Kahn, K. Dolce and W.D. Matthews*
- Arrhythmias Associated with Epileptogenic Activity Elicited by Penicillin: *C.M. Lathers and P.L. Schraeder*
- Role of Neuropeptides in the Production of Epileptogenic Activity and Arrhythmias: *C.M. Lathers*
- Sudden Epileptic Death in Experimental Animal Models: *O. Marneli and M.A. Caria*
- Sympathetic Nervous System Dysregulation of Cardiac Function and Myocyte Potassium Channel Remodeling in Rodent Seizure Models: Candidate Mechanisms for SUDEP: *S.L. Bealer, C.S. Metcalf, J.G. Little, M. Vatta, A. Brewster and A. Anderson*
- The Urethane/Kainate Seizure Model as a Tool to Explore Physiology and Death Associated with Seizures: *M. Stewart*
- Acute Cardiovascular Response during Kindled Seizures: *J.H. Goodman, R.W. Homan and I.L. Crawford*
- DBA Mice as Models of Sudden Unexpected Death in Epilepsy: *C.L. Faingold, S. Tupal, Y. Mhaskar and V.V. Uteshev*
- Clinical Issues of Sudden Death**
- Cardiac and Pulmonary Risk Factors and Pathomechanisms of Sudden Unexplained Death in Epilepsy Patients: *J. Finsterer and C. Stöllberger*
- Neurocardiac Interactions in Sudden Unexpected Death in Epilepsy: Can Ambulatory Electrocardiogram-Based Assessment of Autonomic Function and T-Wave Alternans Help to Evaluate Risk?: *R.L. Verrier and S.C. Schachter*
- Arrhythmogenic, Respiratory, and Psychological Risk Factors for Sudden Unexpected Death and Epilepsy: Case Histories: *C.M. Lathers*
- Sudden Arrhythmic Death Syndrome: Underlying Cardiac Etiologies, Their Implications, and the Overlap with SUDEP: *P.S. Dhillon and E.R. Behr*
- Odds Ratios Study of Antiepileptic Drugs: A Possible Approach to SUD EP Prevention?: *C.M. Lathers, P.L. Schraeder and H.G. Claycamp*
- Antiepileptic Drugs Benefit/Risk Clinical Pharmacology: Possible Role in Cause and/or Prevention of SUDEP: *C.M. Lathers and P.L. Schraeder*
- Clinical Pharmacology and SUDEP: *C.M. Lathers and P.L. Schraeder*
- Experience-Based Teaching of Therapeutics and Clinical Pharmacology of Antiepileptic Drugs: Sudden Unexplained Death in Epilepsy: Do Antiepileptic Drugs Have a Role?: *C.M. Lathers and P.L. Schraeder*
- Clinical Pharmacology of Antiepileptic Drug Use: Clinical Pearls about the Perils of Patty: *P.L. Schraeder and C.M. Lathers*
- Compliance with Antiepileptic Drug Treatment and the Risk of Sudden Unexpected Death in Epilepsy: *T. Tomson*
- SUDEP Clinical Case Histories: Typical and Atypical: *P.L. Schraeder*
- Cardiac Antiarrhythmic Agents: Pharmacological Basis for their Antiarrhythmic and Proarrhythmic Effects: *S. Sharma, T. Ho and B.K. Kantharia*
- Could Beta-Blocker Antiarrhythmic and Antiseizure Activity Help Prevent SUD EP?: *C.M. Lathers*
- Decision Analysis and Risk Management: *H.G. Claycamp*
- Epilepsy Surgery and the Prevention of SUDEP: *R.S. Hays and M.R. Sperling*
- Challenges in Overcoming Ethical, Legal, and Communication Barriers in SUDEP: *J. Hanna and R. Panelli*
- Bereavement and Sudden Unexpected Death in Epilepsy: *L. Nashef and L. Sahlholdt*
- SUDEP: A Clinical and Communicative Conundrum: *P.L. Schraeder and C.M. Lathers*
- Epilepsy and SUD EP: Lessons Learned: Scientific and Clinical Experience: *C.M. Lathers and P.L. Schraeder*
- SUDEP: A Mystery Yet to Be Solved: *C.M. Lathers and P.L. Schraeder*
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- Index

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