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## Pośmiertne badanie obrazowe TK w przypadku domniemanego utonięcia – opis przypadku

### Postmortem CT examination in a case of alleged drowning – a case report

Z Katedry Medycyny Sądowej UJ CM

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Autorzy przedstawiają analizę wyników pośmiertnego badania obrazowego TK w przypadku utonięcia młodej osoby w rzece. Obraz radiologiczny porównywany jest do wyników konwencjonalnej sądowo-lekarskiej sekcji zwłok. Analizę ilustrują rekonstrukcje 2D i przestrzenne na podstawie plików DICOM z akwizycji TK.

The authors present an analysis of postmortem CT examination in a case of drowning in fresh water of a young male. Both the results of conventional forensic autopsy and radiologic examination have been compared. The analysis is illustrated by two-dimensional and three-dimensional reconstructions based on the DICOM files obtained during postmortem CT examination.

**Słowa kluczowe:** pośmiertne badanie TK, utonięcie, sądowo-lekarska sekcja zwłok

**Key words:** postmortem CT examination, drowning, forensic autopsy

#### WSTĘP

Diagnostyka przyczyny zgonu z powodu utonięcia nie stanowi dla medyków sądowych

łatwego zadania [1, 2, 3]. W konwencjonalnym („klasycznym”) badaniu pośmiertnym wniosek taki przyjmuje się bowiem przede wszystkim poprzez wykluczenie innej przyczyny zgonu, a ani obraz makroskopowy, ani mikroskopowy płuc nie przesądza rozpoznania, chociaż w tym zakresie ciągle prowadzone są badania [4, 5, 6, 7, 8, 9, 10]. Przedstawiane są także rozmaite pośmiertne badania biochemiczne, których wyniki mają dowodzić zgonu wskutek utonięcia [11, 12, 13, 14, 15, 16, 17, 18, 19]. W piśmiennictwie postulowane jest poszukiwanie obecności mikroorganizmów [20, 21, 22, 23, 24, 25, 26]. Wprowadzone z początkiem bieżącego stulecia do praktyki sądowo-lekarskiej pośmiertne badania obrazowe TK również dają szansę wykazania zmian, które można byłoby odnieść do mechanizmu zgonu w wyniku utonięcia.

#### MATERIAŁ I METODY

Pośmiertnemu badaniu tomografii komputerowej (TK) poddano zwłoki młodego mężczyzny, który wg zeznań – miał wskoczyć do rzeki Wisły i już z niej nie wypłynął, został wyłowiony bez oznak życia – wezwany zespół pogotowia ra-

# Postmortem Report For Drowning

**CO Houle**



## **Postmortem Report For Drowning:**

Case Studies in Drowning Forensics Kevin Gannon,D. Lee Gilbertson,2018-12-07 When a corpse is found in a body of water authorities generally presume that the manner of death was either an accident or a suicide They do not treat the recovery site as a potential crime scene or homicide so many cases remain unsolved Case Studies in Drowning Forensics investigates the cases of 13 bodies recovered from water in similar circu *Izmirli, My Last Love* Firat Sunel,2025-01-20 The last love is like the last hanging threads of hope at times dearer than life Can it ever be forgotten Eylu l a young lawyer within the turn of a night moved to Istanbul from Germany after her mother s sudden drowning Her beautiful mother left behind a prestigious law firm and a daunting legacy As life pulls Eylu l in tethers the demands of the law firm highlight her unpreparedness but she can only obsess over her mother s unconvincing drowning thanks to an old letter which seems to belong to her mother What begins is a complex odyssey as she chases after an Izmirli with one thought did Izmirli cause her mother s death As Eylu l delves deeper into the mysteries of her mother s past and her love life it becomes unclear what is Izmirli Is her mother s past and Eylu l s present one of the same has memory and reality merged into one Each discovery reveals a bigger and darker hole in a seemingly endless tunnel Izmirli is a compelling psychological thriller and romance and a gripping narrative of personal discovery but also an exploration of the complexities of human relationships Highly gripping psychological thriller An engaging read with unpredictable twists and turns An intense drama transporting away from reality Perfect for reads who enjoy books like The Gone Girl and The Silent Patient Perfect read for the weekend nights and a reading group **Forensic and Legal Medicine** Jason Payne-James,Roger Byard,2023-12-20 A comprehensive and accessible resource covering all aspects of forensic and legal medicine The text provides a foundation for those working in both the clinical and forensic aspects of care and will also be an asset to those involved in the police or judicial systems Including clear guidelines for practical applications and further enhanced by its many illustrations and case examples this text is a valuable resource in an increasingly complex field The authoritative work is written by those who have extensive experience for a wide audience including but not limited to forensic pathologists general pathologists pediatric pathologists forensic physicians forensic scientists coroners emergency department physicians judges and legal practitioners Chapter 62 of this book is freely available as a downloadable Open Access PDF at <http://www.taylorfrancis.com> under a Creative Commons Attribution Non Commercial No Derivatives CC BY NC ND 4 0 license **Report on Decompression Illness, Diving Fatalities and Project Dive Exploration** ,1999 **Relating Suicide** Anne Whitehead,2023-01-12 Writing against the prevailing narrativization of suicide in terms of why it happened Whitehead turns instead to the questions of when how and where calling attention to suicide s materiality as well as its materialization By turns provocative and deeply affecting this book brings suicide into conversation with the critical medical humanities extending beyond individual pathology and the medical institution to think about subjective and social perspectives and to open up the various sites scenes and interactions

with which suicide is associated Suicide is related forward from the point of death rather than taking a retrospective view Combining critical and textual analysis with personal reflection based on her own experience of her sister s suicide Whitehead examines the days months and years following a death by suicide This pivoting of attention to what happens in the wake of suicide brings to light the often surprising ways in which suicide is woven into the everyday places that we inhabit and in which it is related to all of us albeit with varying degrees of proximity and kinship

**Forensic Imaging of Trauma**  
Silke Grabherr,Sarah Heinze,Tony Fracasso,2024-05-15 Forensic Imaging is increasingly gaining importance in post mortem and medico legal investigations particularly in cases of trauma Indeed the digitization of a body serving as evidence in court has become standard practice in many countries To analyze forensic images effectively one must possess expertise not only in radiological interpretation but also in understanding post mortem changes as well as the morphology of lesions and their medico legal implications Neither of the two disciplines involved Radiology and Forensic Medicine can fully provide the necessary knowledge individually Hence Forensic Radiology is now recognized as a discipline that integrates both specializations This book aims to bridge the gap between these two fields by elucidating the morphology of specific trauma related lesions It seeks to assist in identifying these lesions in forensic images and interpreting them accurately from a medico legal perspective The introductory chapter clarifies the distinctions between radiological interpretation and medico legal imaging interpretation It subsequently presents various techniques used in Forensic Imaging outlining their respective advantages and limitations Furthermore this book is the first to comprehensively cover various types of trauma encountered in forensic medicine including blunt trauma sharp trauma ballistic trauma thermal trauma and explosions A separate chapter is dedicated to each of them Additionally it addresses specific commonly observed cases such as traffic accidents asphyxia and child abuse in dedicated chapters Each chapter provides a concise summary of the essential medico legal background and knowledge crucial for the final interpretation It then outlines the appropriate radiological techniques for investigating the specific trauma and offers practical tips for image acquisition Radiological findings are subsequently listed and illustrated in corresponding figures Finally the book explains the medico legal interpretation of the observed findings and provides guidance on how to report them This book represents a pioneering effort to amalgamate the knowledge of forensic medicine and radiology regarding the interpretation of various trauma cases It serves as a valuable handbook for every practitioner in this field offering practical insights from image acquisition to the ultimate interpretation of collected data

**Post Mortem CT for Non-Suspicious Adult Deaths**  
Ayeshea Shenton,Peter Kralt,S. Kim Suvama,2021-05-17 This book is an ideal introduction to the specialty of post mortem computed tomography PMCT It will serve as a comprehensive yet accessible guide to the understanding and interpretation of whole body studies for both hospital and community settings Both normal post mortem appearances and findings associated with a wide range of diagnoses encountered in real cases from the coronial service are presented with the aid of numerous images The coverage encompasses not only findings in all anatomic regions

but also the imaging appearances in cases following targeted coronary angiography attempted cardiopulmonary resuscitation and various special circumstances such as suicide The inclusion of many practical tips and possible pitfalls will support the radiologist to become more confident when reporting PMCT while for the more experienced practitioner the wealth of examples will serve as a useful resource In addition to radiologists the book will be of value for pathologists at all levels of experience and anyone needing to understand the role and limitations of PMCT

**Providential Dictates: As You Sow, So Shall You Reap** DR SHAMBHU SHARAN SHRIVASTAVA and DR MADHURI SHRIVASTAVA, According to dictates of the Holy Vedas Anything born must die You do not die before your assigned time But die not a thousand deaths before your destiny gives you a call Atharva 5 30 6 Such a sermon has been echoed in the Holy Gita as well Providential Dictates provides the reader with a cocktail of tragedies and comedies romances and contradictions of caste and cultural bias prevailing in the Indian society This professional and emotional memoir also incorporates entertaining profiles of signs of progress in the lives of respectable medical men Why does Rupashree the only child of the Dean of a Medical Institution a glamorous woman born and brought up in opulence and sophistication take her own life in spite of being married to a handsome officer as graceful as a Greek God What are the social contradictions or the mythological aberrations which impede progress and happiness in the society What is the truth behind glittering lives of medical men in the society Are these patrons of clubs and mall culture really as generous and moralizing as they are meant to be One has to read on to find out

**Forensics** Harry A. Milman PhD, 2020-10-29 Carrie Fisher also known as Princess Leia from Star Wars had been abusing cocaine and other pharmaceuticals for many years so when it was announced that she died from sleep apnea I was skeptical A more plausible explanation would have been that she died from a drug overdose A review of the medical examiner's report revealed that the Fisher family refused to give permission for an autopsy and toxicology tests to be done Constrained by these limitations the coroner labeled the manner of death undetermined

**FORENSICS The Science behind the Deaths of Famous People** is an analysis and description of how coroners determine the cause and manner of death An investigation of twenty three deaths of famous people was conducted based on a review of publicly available autopsy and toxicology reports as well as published scientific and lay articles Drug use was implicated in 70 percent of the deaths Four celebrity deaths were the result of suicide or homicide Four others were from natural causes

**Encyclopedia of Underwater Investigation, 2nd Edition** Robert Teather, 2013-06-01 The First Edition of the Encyclopedia of Underwater Investigations published in 1994 was a groundbreaking addition to diving literature To this day it remains one of the preeminent publications in the area of underwater forensics and investigations The manual demystifies and clarifies underwater investigative procedures providing a clear descriptive step by step instruction manual for the public safety dive team and underwater investigators The Second Edition of Corporal Robert Gordon Teather's pinnacle text is now updated to include new tools and technologies used by today's underwater investigators Many individuals working in the fields of investigation and public safety diving have

supplied their expertise to update Robert Teather's original text thus creating an enduring resource for public safety divers and underwater investigators for years to come *Handbook of Autopsy Practice* Brenda L. Waters, 2010-05-19 *Handbook of Autopsy Practice* Fourth Edition is divided into three parts Part I contains six new chapters in which the reader will find an assortment of tools that will increase the value of the autopsy Included in the section are valuable resources and tools such as a sample next of kin letter a quality assurance worksheet new discourse on the dissection procedure which is accompanied by a worksheet and template for the gross description There is also a new detailed discussion of the safe handling of sharps complete with photographs and the reader will also find the updated requirements of the Eye Bank of America and the U S Food and Drug Administration for ocular tissue transplantation Part II has been updated with new diseases and recent references added Practicing autopsy pathologists residents and students are invited to review this alphabetical listing of disorders before each autopsy in order to reacquaint themselves with what they might encounter Part III provides a series of tables providing organ weights and body measurements for fetuses children and adults *Handbook of Autopsy Practice* Fourth Edition is an essential resource for clinicians pathologists residents and students who strive to hone their trade and increase the value of the autopsies they perform *Case Studies in Drowning Forensics* Kevin Gannon, D. Lee Gilbertson, 2014-03-07 When a corpse is found in a body of water authorities generally presume that the manner of death was either an accident or a suicide They do not treat the recovery site as a potential crime scene or homicide so many cases remain unsolved *Case Studies in Drowning Forensics* investigates the cases of 13 bodies recovered from water in similar circumstances and one survivor The product of intensive field investigation and archival research this is the first book that presents and explains forensic autopsy evidence associated with the Smiley Face murders Each chapter begins with background information on the victim in the case and discusses when and where the victim was last seen and how the body was recovered This is followed by in depth analysis of the evidence found and the peculiarities of each case Gannon and Gilbertson challenge authorities determinations regarding cause and manner of death by critically examining autopsy toxicology and law enforcement reports and photographs They also reveal evidence not previously made public including search efforts cell phone records GPS data and additional drug tests Building on each successive case study they explain relationships among postmortem artifacts in a graphic format Presenting the inside truth on the circumstances and the evidence the book enables readers to determine for themselves whether the deaths of these young men were accidents or homicides *Diagnostic Pathology: Forensic Autopsy E-Book* Mary Ann Sens, Rhome Hughes, 2021-02-17 This expert volume in the *Diagnostic Pathology* series is an excellent point of care resource for practitioners at all levels of experience and training Specifically designed to assist hospital pathologists and assistants forensic pathology fellows pathology residents and medical examiners it provides a comprehensive authoritative discussion of key topics in forensic autopsy Richly illustrated and easy to use *Diagnostic Pathology Forensic Autopsy* is a one stop reference on the performance of procedures in this challenging field ideal as a day to day reference or

as a reliable training resource Provides expert guidance on accurate diagnoses of the findings and patterns encountered in the forensic autopsy as well as cause of death procedures Covers key topics such as opioid and drug deaths including new drugs and their toxicology deaths and investigations in custody infant and child deaths including SIDS and overlaying and infant and child neck trauma including shaken baby syndrome Contains the necessary information to aid in the performance of both routine and complicated forensic autopsies Features hundreds of high quality images throughout including full color illustrations and clinical and gross pathology photographs all carefully annotated to highlight the most diagnostically significant factors Features a templated highly formatted design concise bulleted text key facts in each chapter and an extensive index for easy reference Offers authoritative readable coverage for those who need to learn and understand important aspects of forensic autopsy including coroners medico legal death investigators and legal investigators Includes the enhanced eBook version which allows you to search all text figures and references on a variety of devices

**Essentials of Autopsy Practice** Guy N. Ruty, 2012-10-19 Essentials of Autopsy Practice Innovations Updates and Advances in Practice is the fifth volume in the Essentials in Autopsy Practice series covering topics of current and future interest Designed to keep all involved in the investigation of death abreast of changes within the field this volume covers a wide range of topical areas which can be encountered around the world Essentials of Autopsy Practice Innovations Updates and Advances in Practice covers death by drowning deaths from extreme temperature the radioactive autopsy chemical contamination and the autopsy blast injuries forensic odontology identification and determination of the force used to cause an injury Useful to both trainees and consultants in all specialty areas within pathology including forensic pathology Essentials of Autopsy Practice Innovations Updates and Advances in Practice also serves as a guide to all those involved in death investigation i e nurses lawyers paramedics and police officers

**Forensic Pathoradiology of Virtual Autopsy** Sudhir K Gupta, 2023-12-06 Virtual autopsy is a burgeoning field that employs imaging methods to find the cause of death This book critically analyses and compares different post mortem features and their radiological appearance in diverse cases It orients the forensic doctors trained in traditional autopsy to understand the radiological appearance of their gross findings and the radiologists to comprehend the pathology in an imaging study Further it provides the standard operating protocols to be followed in different cases This can be an alternative to standard autopsies for broad and systemic examination of the whole body as it saves time aids better diagnosis and respects religious sentiments Key features Provides the reader with an in depth review of the value of a CT directed virtual autopsy complementing a regular autopsy and how it can enhance the quality of medico legal death investigation in a jurisdiction Bridges the gap between the specialties of Forensic Medicine and Radiology and helps the readers co relate and understand the concept of Virtual Autopsy Features over 500 original autopsy photographs and CT images with over 100 case reports including a stepwise approach to each case along with comparative radiological images

**Cold as Ice** Carlton Smith, 2010-08-31 Please note This ebook edition does not contain the photos found in the

print edition Kathleen Savio was married to Drew Peterson for eleven years before filing for divorce in 2003 The next year she was found dead in her bathtub Her drowning appeared to be an accident and for years no one had reason to question it But when Peterson s next wife Stacy thirty years younger went missing the tough talking and wise cracking former Illinois cop came under suspicion With Stacy Peterson missing and presumed dead authorities exhumed Kathleen Savio s body looking for answers A new autopsy pointed to homicide and a 2002 letter was revealed in which Savio wrote that Drew knows how to manipulate the system and his next step is to take my children away Or kill me instead He was arrested for Kathleen s murder and is a prime suspect in Stacy s disappearance Peterson continues to protest his innocence New York Times bestselling author Carlton Smith digs deep into the mystery behind the two Peterson wives and sheds some light on one of the most complex crime cases in modern American history

**Pleural Diseases: Advances in Research and Treatment: 2011 Edition** ,2012-01-09 Pleural Diseases Advances in Research and Treatment 2011 Edition is a ScholarlyBrief that delivers timely authoritative comprehensive and specialized information about Pleural Diseases in a concise format The editors have built Pleural Diseases Advances in Research and Treatment 2011 Edition on the vast information databases of ScholarlyNews You can expect the information about Pleural Diseases in this eBook to be deeper than what you can access anywhere else as well as consistently reliable authoritative informed and relevant The content of Pleural Diseases Advances in Research and Treatment 2011 Edition has been produced by the world s leading scientists engineers analysts research institutions and companies All of the content is from peer reviewed sources and all of it is written assembled and edited by the editors at ScholarlyEditions and available exclusively from us You now have a source you can cite with authority confidence and credibility More information is available at <http://www.ScholarlyEditions.com>

**Armed Forces Special Power Act** Dr. U C Jha,2015-03-01 The Armed Forces Special Powers Act AFSPA has become one of the most controversial laws both in India and the world A few NGOs and human rights activists have described it as draconian alleging that it gives the armed forces unrestricted power to arrest without warrant destroy property and shoot to kill besides providing them with complete immunity The loud and continuous clamour against the Act has drawn the attention of various international organizations The UN Special Rapporteur on Extrajudicial Summary or Arbitrary Executions Christof Heyns has recently called for the repeal of the law stating AFSPA allows the state to override rights Such a law has no role in a democracy and should be scrapped On the other hand the armed forces hold that the AFSPA is necessary for tackling the growing menace of militancy and protecting their men from the unnecessary harassment caused by litigation General V K Singh the former chief of army staff and now a cabinet minister has emphasized that the AFSPA is a functional requirement of the armed forces This is the first book in India not only to attempt a complete analysis of the various provisions of the AFSPA but also to provide an insight into the legislative efforts of other democracies to meet the challenges of growing terrorism It delves into cases of human rights violations in which members of the armed forces have been implicated and at the same time argues that it is



equally important to safeguard the human rights of the members of the armed forces In order to help find an amicable solution the author makes a few recommendations for the consideration of the government and armed forces     Handbook of Autopsy Practice Jurgen Ludwig,2002-07-18 The second edition of Handbook of Autopsy Practice appeared in 1979 under the title Current Methods of Autopsy Practice W B Saunders Company that edition was out of print in the early 1980s Now over 20 years later it appeared timely to thoroughly update the material in a third edition by adding what we have learned in the meantime and eliminating text that has become obsolete There is an acute need for a complete and readily accessible resource for autopsy work because few pathologists still specialize in autopsy practice and as a consequence expertise in autopsy technology and autopsy pathology has declined Our colleagues in the forensic field have remained the only large group of autopsy practitioners For most other pathologists the economic situation time constraints and the steadily decreasing autopsy rates have made a career in autopsy pathology unattractive This state of affairs is perpetuated by a lack of interest among many of our young colleagues partly because the teaching of autopsy pathology and autopsy techniques during most residencies is insufficient Numerous articles have been moaned this situation but the trend I fear is irreversible Still autopsies will be requested particularly in complex and difficult situations where the questions remaining after the death of the patient might challenge even experienced autopsy pathologists Under these circumstances this Handbook of Autopsy Practice should meet a particular need by providing the prosecutor with a source of information when it is most required in the autopsy room     *The Coroner's Autopsy* Bernard Knight,1983

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