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EXPERIENCES WITH ISOPRENALINE INDUCED MYO- CARDIAL NECROSIS IN THE RAT

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PLATES XXII-XXV

It has been known for some time that sympathomimetic amines at dose levels which would be lethal for humans produce extensive necrosis in the rat myocardium (Rona *et al.*, 1959). The lesions and those produced in the same species by hypoxia have morphological features in common (Niles, Zavin and Morikado, 1968) though this, of course, does not mean that the underlying pathogenetic mechanisms are the same. We have been interested in this model since we thought that it might prove a useful tool for assessing the effects on myocardial susceptibility of certain environmental factors which are believed to have an incremental effect on the mortality from coronary artery disease. Before it could be so used it was considered necessary to carry out pilot studies in order to determine the degree of damage produced in the rat myocardium by such amines and to do this by reproducible objective quantitative methods. This paper records our experiences.

MATERIALS AND METHOD

Four hundred and twenty-five male albino rats weighing approximately 250 g were used in the study. One hundred and forty were of the Sprague-Dawley strain, 85 were of the Wistar strain and 200 were Charles River CD strain.

The amine chosen was isoprenaline and this has been variously administered as the racemate isoprenaline sulphate (Burroughs Wellcome & Co. Ltd, Evans Medical Ltd and Ward Blenkinsop & Co. Ltd), the racemate hydrochloride (Ward Blenkinsop & Co. Ltd) and as a 99 per cent. pure laevo form of isoprenaline hydrochloride supplied by Aldrich Chemical Company, Inc.

The amine was dissolved in distilled water and was given by subcutaneous injection into the right flank. The sulphate and racemate hydrochloride were given as a 100 mg per ml solution, the laevo hydrochloride at a strength of 10 mg per ml. Electrocardiography was carried out on 20 animals and these were sedated with intraperitoneal methohexitone before inserting subcutaneous electrodes. Animals were killed at intervals after injection ranging

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Pathology Annual 1976

Ying Liu



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Pathology Annual Sheldon C. Sommers,1975-01-01 *Pathology Annual* ,1980 **United States Navy Medical Newsletter** ,1975 **U.S. Navy Medicine** ,1975 Current Catalog National Library of Medicine (U.S.),1982 First multi year cumulation covers six years 1965 70 **Annual Report - American Board of Medical Specialties** American Board of Medical Specialties,1977 **Plant Pathology Annual Summary of Activities, 1976 & 1977** North Carolina State University. Department of Plant Pathology,1977 CSU-PHS Collaborative Radiological Health Laboratory Collaborative Radiological Health Laboratory,1977 **The Publishers' Trade List Annual** ,1981 *National Library of Medicine Current Catalog* National Library of Medicine (U.S.), *2017 CFR Annual Print Title 42 Public Health Part 482 to End* Office of The Federal Register,2017-07-01 DHEW Publication ,1978 Annual Report - Administrator of Veteran Affairs United States. Veterans Administration,1974 *Ophthalmic Pathology* William H. Spencer,1985 **The Immunopathology of Lymphoreticular Neoplasms** J. Twomey,2012-12-06 Until recently understanding of the lymphomas was limited and largely descriptive Attention has been focused for the most part upon morphological issues and clinical matters Although useful this approach has many shortcomings The true cytoidentity of primary neoplastic cells was not established by these methods nor could their clonal nature be recognized The more overt changes in immunological function such as monoclonal gammopathies and immunodeficiencies were appreciated as important components of these diseases However subtle immunological perturbations were not recognized Furthermore associations were not established between the lymphoreticular neoplasms on the one hand and both primary and secondary immunological abnormalities on the other There has been considerable recent progress in the fields of immunobiology cytology and immunochemistry These new approaches have proved readily applicable to studies on the lymphomas The term lymphoma has been applied to a heterogeneous group of neoplasms that involve lymphoid tissues This term is not altogether satisfactory since it implies that cells of primarily the lymphoid series are involved in the neoplastic process Some neoplasms heretofore classified as lymphomas now appear from the results of penetrating analysis using newer methodology to be malignancies of the macrophage series rather than of the lymphocytic series These neoplasms include Hodgkin's disease and a minority of neoplasms previously referred to as histiocytic lymphomas The majority of these histiocytic lymphomas are now known to be lymphoid malignancies involving the B cell series *Annual Report* United States. Veterans Administration,1974 **Crime and Circumstance** Suzanne Bell,2008-06-30 Today there is more interest in forensic science than ever before *Crime and Circumstance* weaves an intriguing tale of how an obscure corner of medicine dating back to ancient times matured into modern forensic science The author explores the scientific and social threads that created forensic science and continue to drive its evolution in an entertaining narrative that introduces readers to intriguing cases and personalities across history countries and cultures and helps readers translate what they encounter in popular media into the reality of forensic science and laboratory investigation

Through historical and contemporary examples Bell illustrates how cutting edge research migrates to forensic laboratories a transfer that is more indirect than people might expect Although science and the judicial system both pursue truth the interface between them is anything but seamless This unique historical approach focuses on personalities from scientific law enforcement and emphasizes the myriad discoveries made over the years Through these stories the reader is introduced to the underlying science in an interesting lively and accessible way *The Physician's Guide to Diving Medicine* C.B.

Carlston,R.A. Mathias,C.W. Shilling,2012-12-06 This book is designed to be a physician s guide for those interested in diving and hyperbaric environments It is not a detailed document for the erudite researcher rather it is a source of information for the scuba diving physician who is searching for answers put to him by his fellow nonmedical divers Following the publication of *The Underwater Handbook A Guide to Physiology and Performance for the Engineer* there were frequent requests for a companion volume for the physician This book is designed to fill the void Production of the book has been supported by the Office of Naval Research and by the Bureau of Medicine and Surgery Research and Development Command under Navy Contract No NOOOOI4 78 C 0604 Our heartfelt thanks go to the many authors without whose contributions the book could not have been produced These articles are signed by the responsible authors and the names a e also listed alphabetically in these preliminary pages Every chapter was officially reviewed by at least one expert in the field covered and these reviewers are also listed on these pages Our thanks go to them for their valuable assistance We are grateful to Marthe Beckett Kent for editing Chapter III Our thanks also go to Mrs Carolyn Paddon for typing and retyping the manuscripts and to Mrs Catherine Coppola who so expertly handled the many fiscal affairs **Environmental Assessment of the Alaskan Continental**

Shelf ,1980 Comprehensive Bibliography ,1990

The book delves into Pathology Annual 1976. Pathology Annual 1976 is a crucial topic that must be grasped by everyone, ranging from students and scholars to the general public. This book will furnish comprehensive and in-depth insights into Pathology Annual 1976, encompassing both the fundamentals and more intricate discussions.

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The book is crafted in an easy-to-understand language and is complemented by engaging illustrations. It is highly recommended for anyone seeking to gain a comprehensive understanding of Pathology Annual 1976.

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Table of Contents Pathology Annual 1976

1. Understanding the eBook Pathology Annual 1976
 - The Rise of Digital Reading Pathology Annual 1976
 - Advantages of eBooks Over Traditional Books
2. Identifying Pathology Annual 1976
 - Exploring Different Genres
 - Considering Fiction vs. Non-Fiction
 - Determining Your Reading Goals
3. Choosing the Right eBook Platform
 - Popular eBook Platforms
 - Features to Look for in an Pathology Annual 1976
 - User-Friendly Interface
4. Exploring eBook Recommendations from Pathology Annual 1976
 - Personalized Recommendations
 - Pathology Annual 1976 User Reviews and Ratings
 - Pathology Annual 1976 and Bestseller Lists
5. Accessing Pathology Annual 1976 Free and Paid eBooks
 - Pathology Annual 1976 Public Domain eBooks
 - Pathology Annual 1976 eBook Subscription Services
 - Pathology Annual 1976 Budget-Friendly Options
6. Navigating Pathology Annual 1976 eBook Formats
 - ePub, PDF, MOBI, and More
 - Pathology Annual 1976 Compatibility with Devices
 - Pathology Annual 1976 Enhanced eBook Features
7. Enhancing Your Reading Experience
 - Adjustable Fonts and Text Sizes of Pathology Annual 1976
 - Highlighting and Note-Taking Pathology Annual 1976
 - Interactive Elements Pathology Annual 1976
8. Staying Engaged with Pathology Annual 1976

- Joining Online Reading Communities
- Participating in Virtual Book Clubs
- Following Authors and Publishers Pathology Annual 1976
- 9. Balancing eBooks and Physical Books Pathology Annual 1976
 - Benefits of a Digital Library
 - Creating a Diverse Reading Collection Pathology Annual 1976
- 10. Overcoming Reading Challenges
 - Dealing with Digital Eye Strain
 - Minimizing Distractions
 - Managing Screen Time
- 11. Cultivating a Reading Routine Pathology Annual 1976
 - Setting Reading Goals Pathology Annual 1976
 - Carving Out Dedicated Reading Time
- 12. Sourcing Reliable Information of Pathology Annual 1976
 - Fact-Checking eBook Content of Pathology Annual 1976
 - Distinguishing Credible Sources
- 13. Promoting Lifelong Learning
 - Utilizing eBooks for Skill Development
 - Exploring Educational eBooks
- 14. Embracing eBook Trends
 - Integration of Multimedia Elements
 - Interactive and Gamified eBooks

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