

Article

Relationship of Post-Transplant Lymphoproliferative Disorders (PTLD) Subtypes and Clinical Outcome in Pediatric Heart Transplant Recipients: A Retrospective Single Institutional Analysis/Experience of 558 Patients

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Citation: Liu, Y.; Wang, B.C.; Zuppan, C.W.; Chau, P.; Fitts, J.; Chinnock, R.; Wang, J. Relationship of Post-Transplant Lymphoproliferative Disorders (PTLD) Subtypes and Clinical Outcome in Pediatric Heart Transplant Recipients: A Retrospective Single Institutional Analysis/Experience of 558 Patients. *Cancers* **2023**, *15*, 976. <https://doi.org/10.3390/cancers15030976>

Academic Editor: José Tomás Navarro

Received: 29 November 2022

Revised: 19 January 2023

Accepted: 2 February 2023

Published: 3 February 2023



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Simple Summary: Post-transplant lymphoproliferative disorders (PTLD) are heterogeneous lymphoproliferative disorders that develop in immunosuppressed transplant recipients. We performed a retrospective review of PTLD occurring in pediatric heart transplant recipients and sought to determine the correlation of PTLD subtypes with different characteristics. Our single institution retrospective study found that compared to older children, infant heart transplant recipients were less likely to develop PTLD. Infant heart transplant recipients who developed PTLD were diagnosed later than older children and had a lower rate of more aggressive PTLD. The overall survival of patients with more aggressive PTLD was significantly lower than patients with low-grade PTLD. Proper classification of the type of PTLD is important, as the subtypes of PTLD showed a significant correlation with the outcome.

Abstract: Post-transplant lymphoproliferative disorders (PTLD) are heterogeneous lymphoproliferative disorders that develop as a consequence of immunosuppression in transplant recipients. We sought to determine if subtypes of PTLD correlated with different outcomes. We performed a retrospective review of PTLD occurring in pediatric heart transplant recipients. A total of 558 children and infants underwent cardiac transplantation at our institution between 1985 and 2019 and were followed until March 2021. Forty-nine of 558 patients developed PTLD (8.8%). As compared to older children (>one year of age), infant recipients (<three months of age) were less likely to develop PTLD. Monomorphic PTLDs (M-PTLD, 61%) was the most common subtype at initial diagnosis, followed by non-destructive (21%), polymorphic (14%), and classic Hodgkin lymphoma (cHL, 4%). Patients who underwent transplantation at a young age (<three months) had significantly lower rates of M-PTLD or cHL and a longer time from transplant to PTLD diagnosis as compared to children older than one year at transplant ($p = 0.04$). Although not reaching statistical significance, patients with a shorter time to PTLD diagnosis showed a trend toward higher rates of M-PTLD or cHL. As expected, the overall survival (OS) of patients with M-PTLD or cHL was significantly lower than patients with non-destructive or polymorphic PTLD.

Lymphoproliferative Disorders Clinical Immunological And Morphological Correlation

**Barbara Detrick, John L.
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Lymphoproliferative Disorders Robert J. Lukes, John Redfernd Craig, 1979 Current Catalog National Library of Medicine (U.S.), 1979 Includes subject section name section and 1968 1970 technical reports Clinical Immunology, Principles and Practice (Expert Consult - Online and Print), 4 Thomas A. Fleisher, William T. Shearer, Anthony J. Frew, Harry W. Schroeder, Jr., Cornelia M. Weyand, 2013-01-01 Written and edited by international leaders in the field this book has through two best selling editions been the place to turn for authoritative answers to your toughest challenges in clinical immunology Now in full color and one single volume the 3rd Edition brings you the very latest immunology knowledge so you can offer your patients the best possible care The user friendly book and the fully searchable companion web site give you two ways to find the answers you need quickly and regular online updates keep you absolutely current Leading international experts equip you with peerless advice and global best practices to enhance your diagnosis and management of a full range of immunologic problems A highly clinical focus and an extremely practical organization expedite access to the answers you need in your daily practice Cutting edge coverage of the human genome project immune modifier drugs and many other vital updates keeps you at the forefront of your field A new organization places scientific and clinical material side by side to simplify your research and highlight the clinical relevance of the topics covered A multimedia format allows you to find information conveniently both inside the exceptionally user friendly book and at the fully searchable companion web site Regular updates online ensure that you ll always have the latest knowledge at your fingertips Includes many new and improved illustrations and four color design Your purchase entitles you to access the web site until the next edition is published or until the current edition is no longer offered for sale by Elsevier whichever occurs first If the next edition is published less than one year after your purchase you will be entitled to online access for one year from your date of purchase Elsevier reserves the right to offer a suitable replacement product such as a downloadable or CD ROM based electronic version should access to the web site be discontinued *Clinical Immunology of the Dog and Cat* Michael Day, 2011-11-28 This second edition of a bestseller details the manifestations diagnosis and treatment of immune related disease in the dog and cat It is illustrated throughout in full color to show and explain to the reader as clearly as possible the complicated principles of disease and immunodiagnostic tests supported by clinical cases gross and histopatho

Morphology of Blood Disorders Giuseppe d'Onofrio, Gina Zini, 2014-10-21 Morphology of Blood Disorders 2nd edition is an outstanding atlas with over 800 high quality digital images covering the whole spectrum of blood and bone marrow morphology with particular emphasis on malignant haematology Originally written in the Italian language by two world leaders in the field the book has been expertly translated by the renowned haematologist and teacher Barbara Bain This book explores the major topics of haematological pathology blending classical teaching with up to date WHO classification and terminology Each image in this book is derived from material obtained for diagnostic purposes from patients with serious

haematological conditions Morphological details are supplemented by detailed descriptions of the output and role of automated instruments in disorders of the blood Morphology of Blood Disorders 2nd edition is an essential reference source for diagnosis in the haematology laboratory designed to be the go to guide for anyone with an interest in blood cell morphology **Manual of Molecular and Clinical Lab Immunology** Barbara Detrick,Robert G. Hamilton,James D. Folds,2006-03-10 Introduces new material that reflects the significant advances and developments in the field of clinical laboratory immunology Provides a comprehensive and practical approach to the procedures underlying clinical immunology testing Emphasizes molecular techniques used in the field of laboratory immunology Updates existing chapters and adds significant new material detailing molecular techniques used in the field Presents guidelines for selecting the best procedures for specific situations and discusses alternative procedures Covers aspects of immunology related disciplines such as allergy autoimmune diseases cancers and transplantation immunology **Cumulated Index Medicus** ,1974

Hematopathology, An Issue of Surgical Pathology Clinics, E-Book Aliyah R. Sohani,2023-05-09 In this issue guest editors bring their considerable expertise to this important topic Contains 15 practice oriented topics including new entities and challenges in pediatric hematopathology IgG4 related lymphadenopathy and lymphoproliferative disorders the changing landscape of follicular lymphoma new variants and related entities breast implant associated lymphomas controversies in splenic histiocytic dendritic and stromal cell lesions and more Provides in depth clinical reviews on hematopathology offering actionable insights for clinical practice Presents the latest information on this timely focused topic under the leadership of experienced editors in the field Authors synthesize and distill the latest research and practice guidelines to create clinically significant topic based reviews **Manual of Molecular and Clinical Laboratory Immunology** Barbara Detrick,John L. Schmitz,Robert G. Hamilton,2020-07-16 THE authoritative guide for clinical laboratory immunology For over 40 years the Manual of Molecular and Clinical Laboratory Immunology has served as the premier guide for the clinical immunology laboratory From basic serology testing to the present wide range of molecular analyses the Manual has reflected the exponential growth in the field of immunology over the past decades This eighth edition reflects the latest advances and developments in the diagnosis and treatment of patients with infectious and immune mediated disorders The Manual features detailed descriptions of general and specific methodologies placing special focus on the interpretation of laboratory findings and covers the immunology of infectious diseases including specific pathogens as well as the full range of autoimmune and immunodeficiency diseases cancer and transplantation Written to guide the laboratory director the Manual will also appeal to other laboratory scientists especially those working in clinical immunology laboratories and pathologists It is also a useful reference for physicians mid level providers medical students and allied health students with an interest in the role that immunology plays in the clinical laboratory **Flow Cytometry, Immunohistochemistry, and Molecular Genetics for Hematologic Neoplasms** Tsieh Sun,2012-01-19 Immunophenotyping is the most powerful tool in the routine diagnosis of

hematologic neoplasms Immunohistochemical technique is used in histology labs for this purpose while flow cytometry is used in clinical labs Although separately these 2 techniques are very useful in detecting lymphomas and leukemias the combination of both creates a very powerful and definitive diagnostic tool The addition of molecular genetics to the book makes it an all encompassing reference text **Bibliography of Medical Reviews** ,1976 **Master Medicine:**

Immunology J. David M. Edgar,2006-01-25 This title is directed primarily towards health care professionals outside of the United States This series of books reflects the trend towards a core curriculum and self directed learning The content is restricted to the must know core information presented in a synoptic style The diagrams that support the text are in a style that the reader can remember and reproduce in examinations Each chapter ends with a selection of self assessment material and full explanatory answers These consolidate and expand on the chapter contents This volumes presents an integrated coverage of basic and clinical immunology Despite the use of problem and or topic based curricula students still respond to the security of a well ordered presentation of the basic information by traditional discipline Concise text of the essential core material Accompanying self assessment material ideal for self directed learning Simple line drawings of a style that can be easily reproduced in examinations New smaller format to fit on bookshop shelves New internal design to look more up to date Much stronger series cover design to encourage bookshops to display as a series Increased self assessment Includes the new OSCE style questions that are increasingly used in examinations More consistent use of learning objectives **Subject Index of Current Research Grants and Contracts Administered by the National Heart, Lung and Blood Institute**

National Heart, Lung, and Blood Institute,1978 Manual of Blood Platelets: Morphology, Physiology and Pharmacology
Gundu HR Rao,2018-11-30 Platelets are tiny blood cells that help the body form clots to stop bleeding Antiplatelet medications such as aspirin and clopidogrel are commonly used to thin the blood which limits clotting and reduces the risk of heart attack This book is a comprehensive guide to blood platelets for haematologists Beginning with discussion on platelet structure morphology function and physiology the next chapters cover the role of calcium in platelet activation and calcium modulation by cyclic nucleotides The following sections explain the pharmacology of antiplatelet drugs antiplatelet therapies aspirin resistance and the association of diabetes mellitus with major platelet dysfunction The book concludes with chapters on acute coronary problems interaction between endothelial cells and platelets and blood biocompatibility studies Authored by a Minneapolis based expert in the field the text is further enhanced by clinical photographs diagrams and tables Key points Comprehensive guide to blood platelets for haematologists Extensive coverage of antiplatelet drugs and resistance Recognised author from University of Minnesota Highly illustrated with clinical photographs diagrams and tables

Chronic Lymphocytic Leukemia Robert Peter Gale,Kanti R. Rai,1987 Annual Report - National Cancer Institute, Division of Cancer Research Resources and Centers National Cancer Institute (U.S.). Division of Cancer Research Resources and Centers,1976 **Oncology** Alfred E. Chang,Patricia A. Ganz,Daniel F. Hayes,Timothy Kinsella,Harvey I. Pass,Joan H.

Schiller, Richard M. Stone, Victor Strecher, 2007-12-08 Title consistently uses the evidence based approach Evidence based tables make documentation of care plan easy Interdisciplinary orientation all aspects of patient care are covered Only book that involves experts from the entire range of cancer treatment in the fields of medical surgical and radiation oncology Includes hot topics such as prevention and breast cancer Offers ground breaking sections on the latest research and clinical applications in cancer survivorship Chapter on PET addresses imaging issues and how to get the best results Most comprehensive sections on the biology and epidemiology of cancer as compared to competitors **Morphology Methods**

Ricardo V. Lloyd, 2001-06-15 The past several decades have witnessed an impressive array of conceptual and technological advances in the biomedical sciences Much of the progress in this area has developed directly as a result of new morphology based methods that have permitted the assessment of chemical enzymatic immunological and molecular parameters at the cellular and tissue levels Additional novel approaches including laser capture microdissection have also emerged for the acquisition of homogeneous cell populations for molecular analyses These methodologies have literally reshaped the approaches to fundamental biological questions and have also had a major impact in the area of diagnostic pathology Much of the groundwork for the development of morphological methods was established in the early part of the 19 century by Francois Vincent Raspail generally acknowledged as the founder of the science of histochemistry The earliest work in the field was primarily in the hands of botanists and many of the approaches to the understanding of the chemical composition of cells and tissues involved techniques such as microincineration which destroyed structural integrity The development of aniline dyes in the early 20 century served as a major impetus to studies of the structural rather than chemical composition of tissue Later in the century however the focus returned to the identification of chemical constituents in the context of intact cell and tissue structure Fundamentals of Toxicologic Pathology Matthew A. Wallig, Wanda M Haschek, Colin G. Rousseaux, 2009-11-23 Toxicologic pathology integrates toxicology and the disciplines within it such as biochemistry pharmacodynamics and risk assessment to pathology and its related disciplines such as physiology microbiology immunology and molecular biology Fundamentals of Toxicologic Pathology Second Edition updates the information presented in the first edition including five entirely new chapters addressing basic concepts in toxicologic pathology along with color photomicrographs that show examples of specific toxicant induced diseases in animals The current edition also includes comparative information that will prove a valuable resource to practitioners including diagnostic pathologists and toxicologists 25% brand new information fully revised throughout New chapters Veterinary Diagnostic Toxicologic Pathology Clinical Pathology Nomenclature Terminology for Morphologic Alterations Techniques in Toxicologic Pathology New color photomicrographs detailing specific toxicant induced diseases in animals Mechanistic information integrated from both toxicology and pathology discussing basic mechanisms of toxic injury and morphologic expression at the subcellular cellular and tissue levels *Research Awards Index*, 1978

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