

شبكة المعلومات الجامعية







شبكة المعلومات الجامعية التوثيق الالكتروني والميكروفيلم



شبكة المعلومات الجامعية

جامعة عين شمس

التوثيق الالكتروني والميكروفيلم

قسم

نقسم بالله العظيم أن المادة التي تم توثيقها وتسجيلها على هذه الأفلام قد أعدت دون أية تغيرات



يجب أن

تحفظ هذه الأفلام بعيدا عن الغبار في درجة حرارة من ١٥-٥٠ مئوية ورطوبة نسبية من ٢٠-٠٠% To be Kept away from Dust in Dry Cool place of 15-25- c and relative humidity 20-40%



بعض الوثائـــق الإصليــة تالفــة



بالرسالة صفحات لم ترد بالإصل

CYUY

Histopathological Features of Extranodal Lymphoma

A Retrospective Statistical Study

Thesis

Submitted for the Fulfillment of Master Degree (M.Sc) in Pathology

By

Dina Fauzi Yossef El-Yassergi

(M.B.B.CH, Faculty of Medicine, Cairo University)

Supervisors

Prof. Dr. Ahmed M. Abd Al-Aziz

Professor of Pathology

Faculty of Medicine

Cairo University

Prof. Dr. Samira Abd-Allah Mahmoud

Professor of Pathology

Faculty of Medicine

Cairo University

Dr. Sahar Abd El-Hamid Tabak

Lecturer of Pathology

Faculty of Medicine

Cairo University

Faculty of Medicine

Cairo University

2010

ACKNOWLEGEMENT

With all faith, would never accomplish this study without mercy and help of God.

I would like to express my sincere gratitude and appreciation to Prof. Dr. Ahmed Mahmoud Abd Al-Aziz, Professor of Pathology, Cairo University for his generous supervision and valuable advices.

I am very much indebted to Prof. Dr. Samira Abd-Allah Mahmoud, Professor of Pathology, Cairo University for her kind supervision, constructive criticism and great help throughout this work.

I would like to express my sincere gratitude and appreciation to Dr. Sahar Abd El-Hamid Tabak, Lecturer of Pathology, Cairo University, for her meticulous supervision, and valuable criticism.

With all my love and respect, never to forget to send my deeply heart thanks to my father's spirit, the person who supported and encouraged me through my whole entire life, and I really wished if he could be here to give him happiness and proudness. God bless his soul.

Great thanks to my ideal mother who bearded a lot, and still so helpful and cooperative up till this moment.

Finally, special appreciation to my lovely husband, who enabled me to stand here today on this stage and many thanks for all what he did for me.

The candidate

ABSTRACT

This study aimed at registering the primary extranodal lymphoma (ENL) cases received by the pathology department in Kasr El-Aini Hospital during the period from January, 2005 to December, 2009. Eighty two cases were collected, 96.3% of them (79 cases) had extranodal non-Hodgkin lymphoma (EN-NHL), and 3.7% (3 cases) had extranodal Hodgkin lymphoma (EN-HL). Age ranged from 3 to 78 years. There was slight male predominance representing 52.4% of the total number of primary ENL cases. The involved primary extranodal sites were gastrointestinal tract (GIT), waldeyer's ring (WR), spleen, nasal cavity, liver, salivary glands, bone, larynx, skin, orbit, lung, mediastinum (thymus), central nervous system, paranasal sinuses, testis, breast, kidney, and female genital tract. The GIT was the most frequently involved site, followed by the WR representing 29.3% and 20.7% of the total number of primary ENL cases, respectively. Statistical results were obtained.

Key words: Extranodal lymphoma (ENL).

LIST OF ABBREVIATION

αβ : Alpha beta.

ABC : Activated B-cell like.

AIDS : Acquired immunodeficiency syndrome.

ALCL : Anaplastic large cell lymphoma.

ALK : Anaplastic lymphoma kinase.

BCR : B-cell receptor.

BL : Burkitt lymphoma.

BM : Bone marrow.

C-ALCL : Cutaneous anaplastic large cell lymphoma.

CHL: Classical Hodgkin lymphoma.

CLA : Cutaneous lymphocyte antigen.

CLL/SLL : Chronic lymphocytic leukaemia/Small lymphocytic lymphoma.

CNS : Central nervous system.

CTCL : Cutaneous T-cell lymphomas.

DLBCL : Diffuse large B-cell lymphoma.

DLBCL/NOS: Diffuse large B-cell lymphoma/not otherwise specified.

EATL : Enteropathy-associated T-cell lymphoma.

EBER : Epstein-Barr virus-encoded small RNA.

EBNA : Epstein-Barr nuclear antigen.

EBV : Epstein-Barr virus.

EMA : Epithelial membrane antigen.

EMZL : Extranodal marginal zone lymphoma.

EN : Extranodal.

ENL: Extranodal lymphoma.
ENL: Extranodal lymphomas.

EN-HL : Extranodal Hodgkin lymphoma.

EN-NHL : Extranodal non-Hodgkin lymphoma.

FL: Follicular lymphoma.

FOXP1 : Forkhead box P1 protein.

GC: Germinal center.

GCB: Germinal center B-cell like.

GIT : Gastrointestinal tract.

H&E: Hematoxylin and eosin.

H.pylori : Helicobacter pylori.

HBV : Hepatitis B virus.

HCD : Heavy chain diseases.

HCV : Hepatitis C virus.

HHV-8: Human herpes virus-8.

HIV : Human immunodeficiency virus.

HL: Hodgkin lymphoma.

HRS: Hodgkin and Reed-Sternberg cells.

HSTL: Hepatosplenic T-cell lymphoma.

IELSG: International Extranodal Lymphoma Study Group.

Ig : Immunoglobulin.

IHC: Immunohistochemistry.

IPSID : Immunoproliferative small intestinal disease.

ISH : In-situ hybridization.

IVL : Intravascular lymphoma.

IVLBCL : Intravascular large B-cell lymphoma.

LDCHL: Lymphocyte-depleted classical Hodgkin lymphoma.

LELs : Lymphoepithelial lesions.

LMP : Latent membrane protein.

LP cells : Lymphocyte predominant cells.

LPD : Lymphoproliferative disorder.

LRCHL: Lymphocyte-rich classical Hodgkin lymphoma.

LYG: Lymphomatoid granulomatosis.

LyP : Lymphomatoid papulosis.

MALT : Mucosa-associated lymphoid tissue.

MCCHL: Mixed cellularity classical Hodgkin lymphoma.

MCL : Mantle cell lymphoma.

MF : Mycosis fungoides.

MUM1/IRF4 : Multiple Myeloma 1/Interferon Regulatory Factor 4.

MZL : Marginal zone lymphoma.

NHL : Non-Hodgkin lymphoma.

NHLs : Non-Hodgkin lymphomas.

NK : Natural killer cell.

NLPHL: Nodular lymphocyte predominant Hodgkin lymphoma.

Non-GCB: Non-Germinal center B-cell like.

NSCHL: Nodular sclerosis classical Hodgkin lymphoma.

PAL : Pyothorax-associated lymphoma.

PB : Peripheral blood.

PBL : Plasmablastic lymphoma.

PCFCL: Primary cutaneous follicle center lymphoma.

PCGD-TCL: Primary cutaneous gamma/delta T-cell lymphoma.

PCLBCL: Primary cutaneous diffuse large B-cell lymphoma.

PCNSL : Primary central nervous system lymphoma.

PCR : Polymerase chain reaction.

PEL: Primary effusion lymphoma.

PMBL : Primary mediastinal large B-cell lymphoma.

PTCL: Peripheral T-cell lymphoma.

PTLD : Post-transplant lymphoproliferative disease.

RS : Reed-Sternberg cells.

SMZL : Splenic marginal zone lymphoma.

SPTCL: Subcutaneous panniculitis-like T-cell lymphoma.

SS : Sézary syndrome.

TCR : T-cell receptor.

TCRBCL: T-cell rich B cell lymphoma.

TIA-1 : T-cell intracellular antigen.

WHO : World Health Organization.

WR : Waldeyer's ring.

γδ : Gamma delta.

LIST OF TABLES

Table (1): Lymphoid neoplasms in the WHO 4rd edition.

Table (2): DLBCL: variants, subgroups, and subtypes/entities.

Table (3): Annual distribution of primary ENL cases.

Table (4): Types of primary ENL.

Table (5): Annual distribution of EN-HL and EN-NHL cases.

Table (6): Age distribution in primary ENL.

Table (7): Age distribution in primary EN-NHL.

Table (8): Incidence of different sites of primary ENL.

Table (9): Age distribution in primary lymphoma of the GIT.

Table (10): Age distribution in primary gastric lymphoma.

Table (11): Age distribution in primary small bowel lymphoma.

Table (12): Age distribution in primary colonic lymphoma.

Table (13): Age distribution in primary lymphoma of the WR.

Table (14): Age distribution in primary tonsillar lymphoma.

Table (15): Age distribution in primary nasopharyngeal lymphoma.