



9TH PAN ARAB HEMATOLOGY ASSOCIATION CONGRESS

MADINAH, ARAB SAUDI

31 JANUARI – 4 FEBRUARI 2019

PROF. DR. ROSLINE HASSAN

PUSAT PENGAJIAN SAINS PERUBATAN UNIVERSITI SAINS MALAYSIA



Pan Arab Conference for Bleeding Disorders (Towards New Horizons in Comprehensive Management) Princess Haya Bint Turki Auditorium, Alfaisal University, Riyadh, Kingdom of Saudi Arabia 30 January – I February 2019

S SEC.

And

Middle East & North Africa Hematology Congress 8Th Pan Arab Hematology Association Congress 17Th Annual Meeting Of Saudi Society Of Hematology King Salman Convention Center Almadinah, Saudi Arabia 1-4 February 2019

Abstract

A-038: Excellent outcome of nodular lymphocyte predominant Hodgkin lymphoma in the Eastern Province of Saudi Arabia: A real-world case series of 49 consecutive patients treated at a referral center from 2006 to 2017

John Apostolidis, Nihad Mokhtar, Mohammed Darweesh, Enas Mutahar, Salman Harbi, Eshrak Shaibani, Mohammed Kawari, Ayman Abulhassan, Jenifer Bacal, Analie Estanislao, Heba Raslan¹, Afra Dawood¹, Asif Moinuddin², Ahmed Buali², Eman Debawy³, Taghreed Hindi³, Ayed Garni⁴, Panayotis Kaloyannidis, Khalid Anezi, Hani Hashmi

Departments of Adult Hematology and Stem Cell Transplantation, ¹Hematopathology, ²Nuclear Medicine, ³Radiation Oncology and ⁴Pathology, King Fahad Specialist⁻ Hospital, Dammam, Saudi Arabia

Nodular lymphocyte predominant Hodgkin lymphoma (NLPHL) is a rare HL-subtype and its optimal treatment is controversial. In this study we sought to evaluate and explore the contributing factors on the long-term outcome for patients with NLPHL. From 1/2006 to 12/2017, 49 consecutive NLPHL-patients treated in our institution. Their median age was 29 (16-56) years. At diagnosis 42 (86%) patients had typical histology, 4 (8%) variant, and 3 (6%) transformed type. Thirty-one (63%) were staged as I/ II, 18 (37%) as III/IV while approximately 10% of patients presented with B-symptoms, extranodal disease or splenic involvement. Bulky disease (≥5 cm) had 12%, and bone marrow involvement 4% of patients. The German Hodgkin Study Group (GHSG) risk-score was intermediate in 26 (53%) and high in 12 (24%) patients. Only radiotherapy [±Rituximab) (RT)] was given in 8 (16%), chemotherapy [±Rituximab, (CT)] in 21 (43%), combined modality [±Rituximab, (CMT)] in 13 (27%), Rituximab monotherapy in 3, (6%), and active surveillance (AS) in 4 (8%). For the 45 treated patients the overall response rate was 91% (complete responses: 69%) and 98% in the non-transformed histology cases at diagnosis. In a median F/U of 3 years all patients are alive; the 3- and 5-years progression-free survival (PFS) estimates of 80% and 75% while the current PFS is 98%. Two patients experienced transformation at relapse/progression and remain diseasefree for 24 and 35months following auto-SCT. The 5-years cumulative risk of transformation (excluding the transformed cases at diagnosis) was 6%. In univariate analysis the: high GHLG risk-score, bulky disease, splenic involvement, transformed histology at diagnosis, and non-RT treatment, identified as unfavorable factors for prolonged PFS (p<0.02), however in the multivariate analysis only the GHLG-score and non-RT approach retained their significance. None factor had any impact on overall survival. In our study, the overall outcome in NLPHL was excellent. Large prospective trials are warranted to determine the optimal treatment approach for NLPHL-patients.

Keywords: Hodgkin, lymphocyte, lymphoma

A-039: Expression level of pro-apoptotic genes determine disease severity of HbE/ beta thalassemia

Heba Alsaleh, Nur Natasya Rasidi, Sarina Sulong¹, Saovaros Svasti², Alisa Tubsuwan², Thongperm Munkongdee², Rosline Hassan

Departments of Hematology and ¹Human Genome, School of Medical Science, Universiti Sains Malaysia, Kubang Kerian, Kelantan, Malaysia, ²Thalassemia Research Centre, Institute of Molecular Biosciences, Mahidol University, Thailand

Introduction: Beta thalassemia syndromes are inherited disorders that occur as a result of abnormal synthesis of β -globin. As a result, the life span of erythrocytes is shortened. Imbalance of pro-apoptotic and anti-apoptotic genes could result in imbalance of cell survival. BAX and BAK1 are proapoptotic genes induced Cyt c release and caspase activation that will lead to cell apoptosis. Ineffective erythropoiesis has been studied in thalassemia, however the underlying apoptotic mechanism is unclear. Objectives: To determine the expression of pro-apoptotic genes namely in HbE/B thalassemia with different clinical severity. Methods: Hbe/ Beta thalassemia were classified into different clinical severity based on scoring system adapted from Sripichai, Makarasara et al. (2008). Two ml of blood was collected. Reticulocyte were isolated using Ficoll-Paque followed by filtration using cellulose column to remove the remaining WBCs. Reticulocyte RNA then was extracted by Trizol isolation reagent. RT2 profiler PCR array kit from Qiagen was used to evaluate the expression of genes. The pro-apoptotic genes analysis such as Cytochrome C (Cyt c) and the related BAX and BAK1 genes were done using Qiagen Data analysis center online software. Results: These three genes were upregulated in severe form of HbE/Beta thalassemia patients. BAX, BAK1 and Cyt c gene expression showed ranged of 2-2.7-fold upregulated. While in mild type, they were downregulated by 0.31. Conclusion: This preliminary result showed increased pro-apoptotic genes expression in reticulocytes have a role to the underlying mechanism of ineffective erythropoiesis and determine disease severity of HbE/Beta thalassemia. Further evaluation and validation using more samples is needed.

Keywords: Genes, pro-apoptotic, thalassemia

A-040: FLT3 receptor/CD135 expression by flow cytometry in acute myeloid leukemia: Relation to *FLT3* gene mutations and mRNA transcripts

Mohamed Amin Mekawy, Deena Samir Eissa, Mohamed Tarif Hamza, Gehan Mostafa Hamed, Mariam Karam Youssef Department of Clinical Pathology, Faculty of Medicine, Ain Shams University, Cairo, Egypt

Background: Alterations of the FLT3 gene are the most frequent molecular aberrations seen at diagnosis of acute myeloid

S16



iddle East And North Africa Hematology Congress 2019 8th PAN ARAB HEMATOLOGY ASSOCIATION CONGRESS 17th Annual Meeting OF SAUDI SOCIETY OF HEMATOLOGY



SESSION 8B: THALASSEMIA DISORDERS ORAL ABSTRACTS

MODERATORS: MORTHADA HUSSAIN (IRAQ) - WAHEED TURKOSTANI (KSA)

🛛 15:20 - 15:35

CLINICAL AND LABORATORY WORKUP OF A PATIENT WITH WHIM SYNDROME

nabab elhawary (egypt)

🛙 15:35 - 15:50

ASSOCIATION BETWEEN GENOTYPE AND DISEASE COMPLICATIONS IN EGYPTIAN PATIENTS WITH BETA THALASSEMIA

🖞 TAMER HASSAN (EGYPT)

☑ 15:50 - 16:05

EXPRESSION LEVEL OF PRO-APOPTOTIC GENES DETERMINE DISEASE SEVERITY OF HBE/BETA THALASSEMIA

🖢 ROSLINE HASSAN (MALAYSIA)











