

Contents

Welcome Note	2
Organizing Committee	3
Floor Plan	4
General Information	5
Information for Chairs and Speakers	
Program at a Glance	
WASPaLM Scientific Program	22
Abstracts	57
Authors Index	231
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P8-5 Setting of the new standard value of T lymphocyte subset in healthy subjects over the age of 60 years

Yuka Fujimoto-Satoh¹, Hatsue Ogawara¹, Tomoichirou Asami¹, Nobuo Kotajima¹, Hirofumi Kitamura², Yoshiharu Tokita³, Masumi Yanagawa⁴, Tetsuo Machida⁵, Masami Murakami⁵

¹Faculty of Health Science, Gunma PAZ College, Takasaki, Japan, ²Department of Clinical Laboratory, Hotaka Hospital, Tone-gun, Japan, ³Gunma University Graduate School of Health Sciences, Maebashi, Japan, ⁴NPO Gundaiclub, Maebashi, Japan, ⁵Department of Clinical Laboratory, Gunma University Hospital, Maebashi, Japan

P8-6 Evaluation of erythrocyte sedimentation rate measurement using starrsed ST

Hubertus H. Hayuanta, Agus S. Kosasih, Lyana Setiawan, Christine Sugiarto, Parida Aryani, Purbo Susilo

Dharmais Cancer Hospital, Indonesia

P8-7 Activation of platelets in the splenic red pulp induced by hypothermia

Kie Horioka¹, Hiroki Tanaka¹, Katsuhiro Okuda¹, Masaru Asari¹, Keiko Shimizu¹, Hiroshi Shiono¹, Katsutoshi Ogawa²

¹Department of Legal Medicine, Asahikawa Medical University, Japan, ²Department of Pathology, Asahikawa Medical University

P8-8 The application of a molecular clonality assay for assessing bone marrow involvement of B cell lymphomas

Hyeon-Ho Lim, In-Hwa Jeong, Gyu-Dae An, Kwang-Sook Woo, Kyeong-Hee Kim, Jeong-Man Kim, Jin-Yeong Han

Department of Laboratory Medicine, Dong-A University College of Medicine, Busan, Korea

P8-9 Experiences in promoting the quality of detecting plasma cell myeloma at a medical center in Taiwan

Kai Pei Huang, Ting-Chung Hung, Li-Ching Wu Department of Pathology, Chi-Mei Medical Center, Tainan, Taiwan

P8-10 Iron overload effects on liver function, kidney function and hemoglobin in β thalassemia major patients

Rini Riyanti^{1,2}, Muhammad Ali Shodikin^{3,4}, Lyanita Tantri¹, Kurnia Elka Vidyarni¹

¹Laboratorium of Clinical Pathology, Medical Faculty of Jember University, Jember, indonesia, ²Clinical Pathology Department, Dr. Soebandi General Hospital, Jember, Indonesia, ³Laboratorium of Microbiology, Medical Faculty of Jember University, Jember, Indonesia, ⁴Pediatric Department, Dr. Soebandi General Hospital, Jember, Indonesia

The role of mean platelet volume as detection marker in clinical acute appendicitis

Phey Liana¹, Maria Lisa Wijaya², Susilawati¹

¹Clinical Pathology Department, Sriwijaya University-Mohammad Hoesin Hospital Palembang, Indonesia, ²Faculty of Medicine, Sriwijaya University

P8-12 Immune checkpoint polymorphisms affect the susceptibility and clinical features of chronic immune thrombocytopenia

Tetsuhiro Kasamatsu¹, Rumi Ino¹, Yuya Kitamura¹, Kazuki Honma¹, Noriyuki Takahashi¹, Nanami Gotoh¹, Makiko Takizawa², Akihiko Yokohama³, Hiroshi Handa², Takayuki Saitoh¹, Hirokazu Murakami¹

¹Department of Laboratory Sciences, Graduate School of Health Sciences, Gunma University, Maebashi, Gunma, Japan, ²Department of Hematology, Gunma University Hospital, Maebashi, Gunma, ³Blood Transfusion Service, Gunma University Hospital, Maebashi, Gunma

P8-13 Utility of reticulocyte parameters for the diagnosis of hereditary spherocytosis

Ruchee Khanna, Athira Sasidharan, Chethan Manohar Kasturba Medical College, Karnataka, India

The Hema-Plot: A novel diagnostic tool for therapy monitoring and differential diagnosis of anemic patients

Andreas Weimann

Labor Berlin - Charité Vivantes GmbH, Berlin, Germany

P8-9 Experiences in promoting the quality of detecting plasma cell myeloma at a medical center in Taiwan

Kai Pei Huang, Ting-Chung Hung, Li-Ching Wu Department of Pathology, Chi-Mei Medical Center, Tainan, Taiwan

Introduction: Plasma cell myeloma is one of the most common hematologic malignancies. It's incidence in Taiwan has dramatically increased in recent vears. To give reliable reports, our lab make efforts with three approaches. Methods: Firstly, we change the method from agarose gel electrophoresis to capillary electrophoresis. By using this method, we can separate the constituents in serum and type the monoclonal immunoglobulin if it exists. Secondly, we discuss special cases with the clinicians and medical technicians in our lab as well as specialists. Thirdly, we comment on every report to provide the medical team with some suggestions about this case. One of these comments includes a suggestion to clinicians to follow up protein electrophoresis due to an unclear monoclonal gammopathy pattern. Another may involve the display of the quantification of a monoclonal peak to evaluate the patient's prognosis or treatment. Results: 585 reports had been finished in our lab. These cases can be clearly divided into five groups, 23.4% polyclonal gammopathy, 18.5% monoclonal gammopathy, 0.6% oligoclonal gammopathy, 9.3% normal pattern and 48.2% others. Among these cases, there were 26 cases with unclear monoclonal gammopathy pattern; after follow up, 12 cases had been developing monoclonal gammopathy. It is worth noting that some cases with a polymerization of immunoglobulin was clarified as two monoclonal immunoglobulins when \(\beta \) mercaptoethanol is used. We also learn how to quantify a monoclonal peak by different patterns. Conclusion: Early detection of plasma cell myeloma is urgent. It is a duty for us to take good care of these patients and the above depends on the efforts and coordination between clinicians, specialists and medical technicians.

P8-10 Iron overload effects on liver function, kidney function and hemoglobin in β thalassemia major patients

Rini Riyanti^{1,2}, Muhammad Ali Shodikin^{3,4} Lyanita Tantri¹, Kurnia Elka Vidyarni¹

- 1) Laboratorium of Clinical Pathology, Medical Faculty of Jember University, Jember, indonesia,
- 2) Clinical Pathology Department, Dr. Soebandi General Hospital, Jember, Indonesia,
- 3) Laboratorium of Microbiology, Medical Faculty of Jember University, Jember, Indonesia,
- 4) Pediatric Department, Dr. Soebandi General Hospital, Jember,

 β thalassemia, a hereditary anemia affects multiple organs. Children with β thalassemia major need a regular transfusion to maintain growth and development at normal. They also are at risk of developing severe complications related to post transfusion iron overload, which can be prevented by iron chelation. In Indonesia, transfusion program and iron chelation therapy are regular treatment for them, but we still need to monitor the iron concentration. Because of the damaging effects of iron overload, knowing its effect to kidney, liver, and hemoglobin is needed. The aim was to determine the relationship of serum ferritin levels with AST, ALT, BUN, serum creatinine and hemoglobin and if they can be used as a tool to monitor the health of the patients.

This study used an analytic cross sectional approach and recruited all β thalassemia major patients, who received regular transfusion and iron chelation therapy. This study was conducted at dr. Soebandi General Hospital, Jember, Indonesia in October-November 2016. These samples included 15 patients.

The results was a significant correlation between serum ferritin levels with AST (p=0.013). No significant correlation was obtained between serum ferritin levels with ALT (p=0.080), serum ferritin levels with BUN (p=0.795) and serum ferritin levels with serum creatinine (p=0.537). And also there is negative correlation between serum ferritin levels with hemoglobin (t count=3.192, r count =-0.7966 and r²=0.63).

The conclusions is a significant relationship between elevated levels of serum ferritin to AST and low hemoglobin. But there is no significant relationship between elevated levels of serum ferritin to ALT, BUN and serum creatinine.

Keywords : β thalassemia major, ferritin, AST, ALT, BUN, serum creatinine, hemoglobin