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Ratio of involved/uninvolved immunoglobulin quantification by HevyliteTM assay: clinical and prognostic impact in multiple myeloma

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Abstract.

Background: HevyLite™ is a new, recently developed method that facilitates separate quantification of the kappaand lambda-bounded amounts of a given immunoglobulin (lig). Using this method, we measured intact immunoglobulin (heavy/light chain; HLC) IgG-kappa, IgG-lambda, IgA-kappa, IgA-lambda individually, as well as their deriving ratios (HLCR) in a series of IgG or IgA multiple myeloma (MM) patients, to investigate and assess the contribution of these tests to disease evaluation.

Patients and methods: HevyLiteTM assays were used in sera from 130 healthy individuals (HI) and 103 MM patients, at time of diagnosis. In patients, the level of paraprotein was IgG in 78 (52 IgG-kappa, 26 IgG-lambda) and IgA in 25 (13 IgA-kappa, 12 IgA-lambda). Durie-Salmon and International Stagling System stages were evenly distributed. Symptomatic patients (n = 77) received treatment while asymptomatic ones (n = 26) were followed. Patients' median follow-up was at 32.6 months. HLCR was calculated with the involved Ig (either G or A) as numerator.

Results: In HI, median IgG-kappa was 6.85, IgG-lambda 3.81, IgA-kappa 1.19 and IgA-lambda 0.98 g/L. The corresponding median involving HLC values in MM patients were 25.8, 23.45, 28.9 and 36.4 g/L. HLC-IgG related to anemia, high serum free light chain ratio and extensive bone marrow infiltration, while high HLCR correlated with the same plus increased β2-microglobulin. In addition, increased HLCR and the presence of immunoparesis correlated with time to treatment. Patients with HLCR had a significantly shorter survival (ρ = 0.022); HLCR retained its prognostic value in multivariate analysis.

Conclusions: HLC and HLCR quantify the precise amount of the involved immunoglobulin more accurately than other methods; moreover, they carry prognostic information regarding survival in MM patients.

Keywords: Multiple myeloma, Prognosis, Serum immunoglobulin, Heavy/light chain measurements, HLCR

Introduction

Multiple myeloma (MM) is characterized by bone marrow (BM) plasma cell infiltration and the presence of serum/urine monoclonal immunoglobulin (Ig). Disease manifestations and behavior vary widely, while survival ranges from a few months to more than a decade. Serum monoclonal Ig quantification is part of MM diagnostic criteria, and one of Durie and Salmon (DS) staging system's risk factors [1]. It is also used for monitoring response and relapse. However, MM aggressiveness is not related to the amount of Ig secretion, and newer staging systems did not retain Ig quantity as a risk parameter [2].

The poor utility of IgG and IgA measurements may be related to the following:1) Changes in hematocrit and blood volume occur in MM leading serum Ig concentrations to vary by 50% or more, independently of changes in tumor production [3]: 2) Serum IgG concentrations

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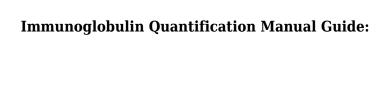
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Immunoglobulin Quantification Manual Guide

M Tight



This book delves into Immunoglobulin Quantification Manual Guide. Immunoglobulin Quantification Manual Guide is a crucial topic that needs to be grasped by everyone, from students and scholars to the general public. The book will furnish comprehensive and in-depth insights into Immunoglobulin Quantification Manual Guide, encompassing both the fundamentals and more intricate discussions.

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- 1. Understanding the eBook Immunoglobulin Quantification Manual Guide
 - The Rise of Digital Reading Immunoglobulin Quantification Manual Guide
 - Advantages of eBooks Over Traditional Books
- 2. Identifying Immunoglobulin Quantification Manual Guide
 - 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 Immunoglobulin Quantification Manual Guide
 - User-Friendly Interface
- 4. Exploring eBook Recommendations from Immunoglobulin Quantification Manual Guide
 - Personalized Recommendations
 - Immunoglobulin Quantification Manual Guide User Reviews and Ratings
 - Immunoglobulin Quantification Manual Guide and Bestseller Lists
- 5. Accessing Immunoglobulin Quantification Manual Guide Free and Paid eBooks
 - Immunoglobulin Quantification Manual Guide Public Domain eBooks
 - Immunoglobulin Quantification Manual Guide eBook Subscription Services
 - Immunoglobulin Quantification Manual Guide Budget-Friendly Options
- 6. Navigating Immunoglobulin Quantification Manual Guide eBook Formats
 - ePub, PDF, MOBI, and More
 - Immunoglobulin Quantification Manual Guide Compatibility with Devices
 - Immunoglobulin Quantification Manual Guide Enhanced eBook Features
- 7. Enhancing Your Reading Experience
 - Adjustable Fonts and Text Sizes of Immunoglobulin Quantification Manual Guide
 - Highlighting and Note-Taking Immunoglobulin Quantification Manual Guide
 - Interactive Elements Immunoglobulin Quantification Manual Guide

- 8. Staying Engaged with Immunoglobulin Quantification Manual Guide
 - Joining Online Reading Communities
 - Participating in Virtual Book Clubs
 - Following Authors and Publishers Immunoglobulin Quantification Manual Guide
- 9. Balancing eBooks and Physical Books Immunoglobulin Quantification Manual Guide
 - Benefits of a Digital Library
 - Creating a Diverse Reading Collection Immunoglobulin Quantification Manual Guide
- 10. Overcoming Reading Challenges
 - Dealing with Digital Eye Strain
 - Minimizing Distractions
 - Managing Screen Time
- 11. Cultivating a Reading Routine Immunoglobulin Quantification Manual Guide
 - Setting Reading Goals Immunoglobulin Quantification Manual Guide
 - Carving Out Dedicated Reading Time
- 12. Sourcing Reliable Information of Immunoglobulin Quantification Manual Guide
 - Fact-Checking eBook Content of Immunoglobulin Quantification Manual Guide
 - Distinguishing Credible Sources
- 13. Promoting Lifelong Learning
 - Utilizing eBooks for Skill Development
 - Exploring Educational eBooks
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