



Non-invasive Clinical Measurement of Ocular Rigidity and Comparison to Biomechanical and Morphological Parameters in Glaucomatous and Healthy Subjects

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Purpose: To assess ocular rigidity using dynamic optical coherence tomography (OCT) videos in glaucomatous and healthy subjects, and to evaluate how ocular rigidity correlates with biomechanical and morphological characteristics of the human eye.

Methods: Ocular rigidity was calculated using Friedenwald's empirical equation which estimates the change in intraocular pressure (IOP) produced by volumetric changes of the eye due to choroidal pulsations with each heartbeat. High-speed OCT video was utilized to non-invasively measure changes in choroidal volume through time-series analysis. A control-case study design was based on 23 healthy controls and 6 glaucoma cases. Multiple diagnostic modalities were performed during the same visit including Spectralis OCT for nerve head video, Pascal Dynamic Contour Tonometry for IOP and ocular pulse amplitude (OPA) measurement, Corvis ST for measuring dynamic biomechanical response, and Pentacam for morphological characterization.

Results: Combining glaucoma and healthy cohorts ($n = 29$), there were negative correlations between ocular rigidity and axial length (Pearson $R = -0.53$, $p = 0.003$), and between ocular rigidity and anterior chamber volume ($R = -0.64$, $p = 0.0002$). There was a stronger positive correlation of ocular rigidity and scleral stiffness (i.e., stiffness parameter at the highest concavity [SP-HC]) ($R = 0.62$, $p = 0.0005$) compared to ocular rigidity and corneal stiffness (i.e., stiffness parameter at the first applanation [SP-A1]) ($R = 0.41$, $p = 0.033$). In addition, there was a positive correlation between ocular rigidity and the static pressure-volume ratio (P/V ratio) ($R = 0.72$, $p < 0.0001$).

Conclusions: Ocular rigidity was non-invasively assessed using OCT video and OPA in a clinic setting. The significant correlation of ocular rigidity with biomechanical parameters, SP-HC and P/V ratio, demonstrated the validity of the ocular rigidity measurement. Ocular rigidity is driven to a greater extent by scleral stiffness than corneal stiffness. These *in vivo* methods offer an important approach to investigate the role of ocular biomechanics in glaucoma.

Keywords: ocular rigidity, glaucoma, ocular biomechanics, optical coherence tomography, stiffness parameter, pressure volume relationships

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Table of Contents Non Invasive Clinical Measurement

1. Understanding the eBook Non Invasive Clinical Measurement
 - The Rise of Digital Reading Non Invasive Clinical Measurement
 - Advantages of eBooks Over Traditional Books
2. Identifying Non Invasive Clinical Measurement
 - 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 Non Invasive Clinical Measurement
 - User-Friendly Interface
4. Exploring eBook Recommendations from Non Invasive Clinical Measurement
 - Personalized Recommendations
 - Non Invasive Clinical Measurement User Reviews and Ratings
 - Non Invasive Clinical Measurement and Bestseller Lists
5. Accessing Non Invasive Clinical Measurement Free and Paid eBooks
 - Non Invasive Clinical Measurement Public Domain eBooks

- Non Invasive Clinical Measurement eBook Subscription Services
- Non Invasive Clinical Measurement Budget-Friendly Options
- 6. Navigating Non Invasive Clinical Measurement eBook Formats
 - ePub, PDF, MOBI, and More
 - Non Invasive Clinical Measurement Compatibility with Devices
 - Non Invasive Clinical Measurement Enhanced eBook Features
- 7. Enhancing Your Reading Experience
 - Adjustable Fonts and Text Sizes of Non Invasive Clinical Measurement
 - Highlighting and Note-Taking Non Invasive Clinical Measurement
 - Interactive Elements Non Invasive Clinical Measurement
- 8. Staying Engaged with Non Invasive Clinical Measurement
 - Joining Online Reading Communities
 - Participating in Virtual Book Clubs
 - Following Authors and Publishers Non Invasive Clinical Measurement
- 9. Balancing eBooks and Physical Books Non Invasive Clinical Measurement
 - Benefits of a Digital Library
 - Creating a Diverse Reading Collection Non Invasive Clinical Measurement
- 10. Overcoming Reading Challenges
 - Dealing with Digital Eye Strain
 - Minimizing Distractions
 - Managing Screen Time
- 11. Cultivating a Reading Routine Non Invasive Clinical Measurement
 - Setting Reading Goals Non Invasive Clinical Measurement
 - Carving Out Dedicated Reading Time
- 12. Sourcing Reliable Information of Non Invasive Clinical Measurement
 - Fact-Checking eBook Content of Non Invasive Clinical Measurement
 - Distinguishing Credible Sources
- 13. Promoting Lifelong Learning
 - Utilizing eBooks for Skill Development
 - Exploring Educational eBooks

14. Embracing eBook Trends

- Integration of Multimedia Elements
- Interactive and Gamified eBooks

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web feb 24 2007 the radial bean seed meter is a mechanical meter to be used in conjunction with the finger pickup meter soybeans is the only crop compatible with the radial meter customers who are currently using the feed cup or competitive brush meters for soybeans and desire improved spacing and population control should consider the

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web jan 28 2016 like others have said they kinze are a 60 cell plate so multiply your corn population by 5 to get your bean population the deere radial bean meters have a knockout wheel that prevents seed from sticking in any of their cells and is better than the kinze meter in that particular situation 45deere9670 posted 1 28 2016 11 59

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