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## Quantitative Doppler Assessment of Acute Scrotal Inflammation<sup>1</sup>

**PURPOSE:** To establish quantitative Doppler criteria for acute unilateral epididymitis and/or orchitis.

**MATERIALS AND METHODS:** Triplex ultrasonography (US) was used to prospectively evaluate 31 patients with acute hemiscrotal pain and 15 asymptomatic control subjects. Morphology and perfusion were assessed, and peak systolic velocities (PSVs) were recorded. Ratios of PSV were calculated by using values from the right and left sides.

**RESULTS:** PSVs in control subjects differed significantly from those in patients ( $P < .0001$ ). A PSV  $\geq 15$  cm/sec produced diagnostic accuracy of 90% for orchitis and 93% for epididymitis. Five of six false-negative findings were in patients younger than age 15 years. Epididymal PSV ratios  $\geq 1.7$  or testicular ratios  $\geq 1.9$  were diagnostic of acute inflammation ( $P < .0001$ ). In three cases, morphologic and color Doppler findings were normal and only the PSV ratios were diagnostic.

**CONCLUSION:** PSV and PSV ratios provide diagnostic criteria for acute unilateral epididymitis and/or orchitis that are more accurate than morphologic evaluation and color flow imaging either alone or in combination.

**Index terms:** Epididymitis, 84.214 • Orchitis, 84.214 • Ultrasound (US), Doppler studies, 84.12983

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The acutely painful scrotum poses a difficult diagnostic challenge, because the clinical findings are frequently nonspecific. Although inflammatory disease is the most common cause of scrotal pain, testicular torsion must be diagnosed or excluded promptly, since surgical therapy is necessary to maximize organ salvage. Conventional high-resolution gray-scale ultrasonography (US) with use of high-frequency transducers allows excellent visualization of morphologic changes associated with scrotal disease but is limited in that it does not allow assessment of perfusion. The morphologic changes that accompany acute inflammatory disease have been well described, characteristically consisting of decreased echogenicity and increased size in both the testis and epididymis. Skin thickening and reactive hydrocele are variably present (1-5). However, it has also been shown that the gray-scale appearance may be normal even in the presence of acute epididymitis and/or orchitis (6).

Testicular morphology may also be normal or suggestive of inflammation in cases of torsion. Typical morphologic changes in acute torsion include increased size and heterogeneous echotexture. However, with increasing duration of ischemia, the testis may become small and increasingly echogenic. Patients with testicular tumors also show variable morphologic changes that may be focal or diffuse and can mimic both inflammation and torsion. Six cases of documented subacute torsion in which gray-scale US findings did not sup-

port surgical findings were reviewed by Pryor et al (7). Morphologic findings were variable, often misleading, and resulted in delay in surgery or surgery performed with a presumptive diagnosis of tumor in four cases. Accurate diagnosis therefore must rely on evaluation of perfusion characteristics.

Color flow imaging, in conjunction with duplex Doppler imaging, allows visualization of morphology and parenchymal blood flow characteristics and has become increasingly important in recent years, largely replacing testicular scintigraphy, which had been the examination of choice in patients with suspected torsion.

Although the hyperemia seen on color flow images in inflammatory disease of the scrotum has been well described (6,8-14), variable equipment sensitivity may substantially affect the results. In addition, there is substantial variation in perfusion characteristics among normal male patients. Spectral analysis of the Doppler waveform allows quantitative assessment of perfusion and should allow more meaningful evaluation than subjective assessment of color Doppler characteristics in differentiating normal from acutely inflamed testes and epididymides and in excluding torsion. Patients with inflammatory disease should demonstrate normal and symmetric perfusion after therapy, and Doppler studies can document this resolution. If focal Doppler abnormalities persist or velocities remain asymmetric, an underlying neoplasm or incompletely resolved inflammation must be considered.

We prospectively studied the quantitative aspects of testicular and epi-

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## **Table of Contents Prac Quantitative Doppler**

1. Understanding the eBook Prac Quantitative Doppler
  - The Rise of Digital Reading Prac Quantitative Doppler
  - Advantages of eBooks Over Traditional Books
2. Identifying Prac Quantitative Doppler
  - 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 Prac Quantitative Doppler
  - User-Friendly Interface
4. Exploring eBook Recommendations from Prac Quantitative Doppler
  - Personalized Recommendations
  - Prac Quantitative Doppler User Reviews and Ratings
  - Prac Quantitative Doppler and Bestseller Lists
5. Accessing Prac Quantitative Doppler Free and Paid eBooks

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