PROSPECTIVE, RANDOMIZED, SINGLE CENTER STUDY TO EVALUATE EFFICACY OF NOVEL RED DICHROMATIC IMAGING (RDI) IN ACHIEVING HEMOSTASIS DURING PERORAL ENDOSCOPIC MYOTOMY (POEM): A PILOT STUDY

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A randomized trial of 103 achalasia patients found that red dichromatic imaging during peroral endoscopic myotomy significantly reduced hemostasis time and total procedural time compared to white light imaging.

KEY POINTS

- Total hemostasis time was significantly shorter with red dichromatic imaging (7.9±12.02 seconds) compared to white light imaging (18.92±25.89 seconds, p=0.02).
- Total procedural time was significantly reduced in the red dichromatic imaging group (54.7±23.93 minutes) versus white light imaging (63.33±23.13 minutes, p=0.02).
- Red dichromatic imaging provided significant advantages in ease of mucosal entry (p=0.0001) and reduced operator psychological stress (p=0.028).
- Red dichromatic imaging did not significantly reduce mucosal entry point bleeding compared to white light imaging (p=0.18), and adverse events were similar between groups.
- This single-center randomized study is relevant to endoscopists performing peroral endoscopic myotomy who seek to optimize hemostasis management.

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