



GOVINDA MEDICENTRE & ULTRASOUND

27B/4, Basement, New Rohtak Road, Opp. Sarai Rohilla Station, Karol Bagh,
Near Anand Parbat, New Delhi-110005

Mob.: 8527277404, 9650398127

Better Doctors Better Care

FACILITIES : 3D/4D Ultrasound, X-Ray, Color Doppler, 2D ECHO, Stress ECHO, DSE Fully Automated Pathology Laboratory

NAME OF PATIENT: [REDACTED]

DATE: 20/04/2026

REFD BY: DR. VIJAYANT G. GUPTA

AGE : 44 YRS/M

PENILE DOPPLER STUDY FOR ERECTILE DYSFUNCTION

Clinical Details:

Evaluation of erectile dysfunction / vascular status of penis.

Technique:

High-frequency linear transducer used **GE LOGIQ V5**. Pre- and post-intracavernosal injection Doppler assessment of penile vasculature performed. Morphological and vascular parameters evaluated.

Findings:

1. Morphological Characteristics of Penis:

Corpora cavernosa: Normal echotexture, no focal lesions or fibrosis.

Corpus spongiosum: Normal appearance, no abnormality detected.

Tunica albuginea: Intact, no thickening or calcification.

Peyronie's plaques: Not visualized.

Penile shaft: No deformity, masses, or abnormal curvature.

Urethra: Visualized, normal course, no dilatation or stricture.



This is not meant for medico legal purpose the ultrasound findings should always be considered in correlation with other clinical investigation findings when applicable.



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2. Vascular Assessment (Tabulate): Study shows increase in the arterial diameter with mild increase in the peak systolic velocity of the corpus cavernosal artery on both sides. The right corpus cavernosal artery shows a diameter of 0.9 mm and the left 0.8 mm. The maximum PSV obtained in the right corpus cavernosal artery was 22cm/sec and in the left corpus cavernosal artery was 20cm/sec. The RI obtained in the right corpus cavernosal artery was 0.87 cm/sec and in the left corpus cavernosal artery was 0.89 cm/sec.- These features are suggestive of arteriogenic cause of impotency.

Parameter	Normal Values	Pre- Injection	Post- Injection
Cavernous artery diameter (mm)	>0.7 mm	0.3mm Rt 0.4 mm Lt	0.9mm Rt 0.8 mm Lt
Peak Systolic Velocity (PSV, cm/sec)	>35 cm/sec (post-injection)	06cm/sec Rt 04 cm/sec Lt	22 cm/sec Rt 20 cm/sec Lt
Resistive Index (RI)	0.8 - 1.0		0.87 (Right) 0.89 (Left)



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3. Grading of Penile Erection (Post-Injection):

Grade	Description
Grade 0	No response
Grade 1	Enlargement without rigidity
Grade 2	Partial rigidity
Grade 3	Full rigidity

Observed grade: 2

4. Venous Leak Evaluation:

No evidence of early diastolic reversal or persistent high diastolic flow suggestive of venous leak.

5. Adjacent Structures:

Scrotal contents and perineum appear normal.

Pre-natal sex Determination is not done in this hospital.

Dr. ASHWANI JAIN
MBBS, MD (Radio-Diagnosis)
Consultant Radiologist

DMC: 17274
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