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**Sonographic evaluation of prostatic artery embolization: Far beyond size measurements**

Moschouris H *et al.* Sonography of prostatic artery embolization

Hippocrates Moschouris, Andreas Dimakis, Anastasia Anagnostopoulou, Konstantinos Stamatiou, Katerina Malagari

### Abstract

Prostatic artery embolization (PAE) has gained acceptance as a minimally invasive, safe and effective treatment of symptomatic benign prostatic hyperplasia. Radiologic imaging is an indispensable part of post-interventional evaluation of PAE and serves both clinical and investigational purposes. In this context, ultrasonography (US) has a central and multifaceted role. Grey-scale US is routinely utilized for measurement of significant

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Embolization with two or three individual microspheres 700–900 µm in diameter (Embosphere Microspheres; BioSphere Medical Inc.; Rockland, MA) flushed into the ICA occluded some branches, usually the **middle cerebral artery (MCA)** and/or **anterior cerebral artery (ACA)**.

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**Median overall prostate volume** was 100 ml (range: 89–128). **Median estimated blood loss** was 200 ml (range: 150–300). An intraoperative transfusion was required in 3.5% of cases, an intraoperative complication was recorded in 2.2% of cases, and the **conversion rate** was 3%.

**Cited by:** 92 **Author:** Riccardo Autorino, Homayoun Zargar, Mira...**Publish Year:** 2015

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Most (19) were studied on another two occasions (at 33-and 43-day intervals) to estimate reproducibility of the **prostate size (dimensions, volume) measurement**. **Prostatic dimensions** were measured ...

### Can Doppler Ultrasonographic Indices of the Renal Artery ...

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In **sonographic examination**, the presence of the main **renal artery** with a diameter smaller than usual in a kidney with normal dimensions is indicative of the presence of an accessory **renal artery**.

### Dodecafluoropentane Emulsion Decreases Infarct Volume in a ...

<https://www.sciencedirect.com/science/article/pii/S1051044311013510>

**Seven-hour groups** included control (n = 6) and DDFPe at 1 hour (n = 8) and 6 hours after stroke (n = 5). DDFPe dose was a 2% weight/volume intravenous injection (0.6 mL/kg) repeated every 90 minutes as time allowed. After euthanasia, infarct volume was determined by vital stains on brain sections.

**Cited by:** 22 **Author:** William C. Culp, Sean D. Woods, Robert D. ...**Publish Year:** 2012

### Imaging and diagnostic advances for intracranial meningiomas

<https://www.ncbi.nlm.nih.gov/pmc/articles/PMC6347083>

Untreated meningiomas below the size of 25 mm in maximum diameter tend to show a benign behavior in a 5-year follow up period. 59, 62 Nevertheless, even for small tumors an increase in **tumor size** >10% is significantly associated with the development of clinical symptoms, underscoring the importance of follow-up imaging especially in the first years. 59 A weighted **scoring system for estimating** the risk of ...

**Cited by:** 6 **Author:** Raymond Y Huang, Wenya Linda Bi, Brent ...**Publish Year:** 2019



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Several lines of evidence suggest that in **carotid atherosclerotic disease**, **brain atrophy** and vascular cognitive impairment may be related, suggesting that **symptomatology** may exist **far beyond** the clinically recognized visual, sensory, motor or speech deficits of transient ischemic attacks (TIA) and fixed stroke 4, 5.

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The 7-hour model shows that the damage has progressed too **far** for statistically significant therapeutic benefit with these **small sample sizes** at 6 hour administration. Importantly, this model shows that administration at 1-hour can be carried successfully to 7 hours with multiple doses, a point **beyond** most current thrombolysis protocols now in use.

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In humans, carotid **artery** atherosclerosis is **far** more common than the major strokes, i.e. sudden motor, sensory, visual and speech deficits, which clinicians recognize from carotid embolic disease 26, 27. Proliferation of smooth muscle cells, formation of connective tissue, cholesterol deposition, calcification and extravasation of inflammatory ...

**Cited by:** 57

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