



## Treatment of Hypertension by Renal Artery Stenting

Uri Rosenschein MD, Yuri Kaganovich MD, Nabil Machoul MD and Shimon Storch MD

Department of Cardiology, Bnai Zion Medical Center, Haifa

**Key words:** hypertension, renal artery stenting

IMAJ 2004;6:445

A 63 year old man with "essential hypertension" for the last 20 years was treated with full doses of angiotensin-converting enzyme inhibitors, beta-blockers, calcium antagonists, and diuretics. His blood pressure on multiple doctors' office visits was  $183 \pm 7 / 100 \pm 5$  mmHg. Creatinine levels were 1.6 mg/dl. Magnetic resonance angiography suggested right renal artery stenosis. The patient was referred for renal angiography. Angiography revealed 99% ostial stenosis of the right renal artery [Figure 1]. Stent deployment was uneventful [Figure 2].

At the 1 month follow-up visit the patient was treated only with beta-blockers (atenolol 25 mg/day). Ambulatory 24 hours blood pressure recording revealed blood pressure of  $132 \pm 18 / 74 \pm 9$  mmHg. Creatinine levels did not change from baseline.

In selected cases renal artery stenting can dramatically reduce medication intake and even "cure" hypertensive patients.

outcome of therapy for renal-artery stenosis. *N Engl J Med* 2001;344(6):410-17.

2. Leertouwer TC, Gussenhoven EJ, Bosch JL, et al. Stent placement for renal arterial stenosis: where do we stand? A meta-analysis. *Radiology* 2000;216(1):78-85.

**Correspondence:** Dr. U. Rosenschein, Director of Cardiology, Bnai Zion Medical Center, P.O. Box 4940, Haifa 31048, Israel.  
Fax: (972-4) 837-2991  
Phone: (972-4) 835-9387  
email: Uri.rosenschein@b-zion.org.il

### References

1. Radermacher J, Chavan A, Bleck J, et al. Use of Doppler ultrasonography to predict the



**Figure 1.** Renal angiography revealed 99% ostial stenosis of the right renal artery (arrow).



**Figure 2.** After uneventful stent deployment in the right renal artery there was no residual stenosis.

*Education is the best provision for old age*

*Aristotle (384-322 BC), Greek philosopher and scientist, and founder of the Lyceum, a research community complete with library and museum at Athens. He wrote over 400 books on every branch of learning, including logic, ethics, politics, metaphysics, biology, physics, psychology, poetry and rhetoric.*