

A doubling of albuminuria from baseline to two years, seen in 28% of participants, was associated with a "dramatic" increase in mortality of almost 50% (HR 1.47; p<0.0001), Schmieder said, while a decrease in albuminuria (at least halving), noted in 21% of people, was associated with reduced mortality (HR 0.85; p=0.025), compared with those with lesser, minor changes in albuminuria, even after adjustment for confounding factors.

Doubling of albuminuria was also associated with significant increases in cardiovascular death (HR 1.54), the primary composite outcome (HR 1.38), and renal outcomes—dialysis or doubling of serum creatinine—(HR 1.54).

However, halving of albuminuria was not so strongly associated with reductions in cardiovascular death (HR 0.88, not significant), composite outcome (HR 0.85; p=0.0512), or renal outcomes (no

association). But this was likely due to the low number of people who experienced reductions of albuminuria of this magnitude, Schmieder said.

But which patients did experience a fall in albuminuria?

Ruilope said that in order to interpret these results properly it will be important to know whether the reduction in albuminuria was seen across the board, in everybody, or in specific groups—were they found, for example, among the 40% of patients who were ACE-inhibitor-naive before entering the study? The latter question, he says, "has to be explained and is extremely important."

Also, it appears that protein in the urine was only checked "a limited number of times"—namely, at baseline and at two years, he noted, yet definitive conclusions have been drawn from this. And it would be useful to know whether the patients who experienced large increases or reductions in albuminuria were taking statins or not, he said.

When heartwire put these questions to Schmieder, he said: "No further data and comments can be released. The study is not yet published."

Reassess guidelines on how often to test for albuminuria

Schmieder said, "To illustrate very clearly" what these new results mean in absolute terms, "there would be 20 deaths more in 10 years for a doubling of albuminuria, which is a strong message."

"What we have learned is that albuminuria is some kind of indicator of endothelial dysfunction, a vascular marker, and we can measure it very easily, very cheaply, in the urine," he added.

He said that the 2007 European guidelines on hypertension recommended that microalbuminuria be measured at baseline in every hypertensive patient, and "now with these data, I think we should reassess this parameter after six months or a year of treatment, to see how successful treatment has been in reducing the vascular risk overall."

Bakris disclosed being a consultant or advisor to Abbott, Merck, Gilead, Forest, Novartis, Takeda, CVRx, Boehringer Ingelheim, Servier, and the FDA. He has received grant or research support from GlaxoSmithKline and Forest and has served on speakers' bureaus for Novartis and Forest. Ruilope has served as advisor or speaker in the past 12 months for AstraZeneca, Otsuka, Pfizer, Daiichi Sankyo, Takeda, Novartis, and Boehringer Ingelheim. Schmieder had not responded to heart wire's request for disclosures when this article was published.

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# 1 of 2	July 8, 2010 07:51 (EDT)
Landi Anna	Associatioon of PAD and albuminuria In the Hoorn study the mikroalbuminuria of PAD patients had a high association cardiovascular events. In the ARIC study there was a relation of renal failer and develpment of PAD. In the other paper (J.Am. Soc.Nephrol.2007.18: 1872-79) 1940 PAD patients were exemined and followed up for 8 years, association was shown ankle/arm index and renal status.
# 2 of 2 James Adrian	July 11, 2010 07:56 (EDT) Doesn't test for albuminuria I am ready to be educated. If I take a beating and it improves the care that I deliver, I can handle it. I have resisted testing for albuminuria for years based
	on the premise that I am treating all my diabetics vigorously. I see no purpose in knowing their albuminuria level. If they have no albumin, am I supposed to ease off? I don't think so. And if I am already hitting them hard as I can, how does knowing the level of albumin help me? Added together, these tests are costing someone a lot of money.

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