Hypertension at a young age: beware of the unexpected

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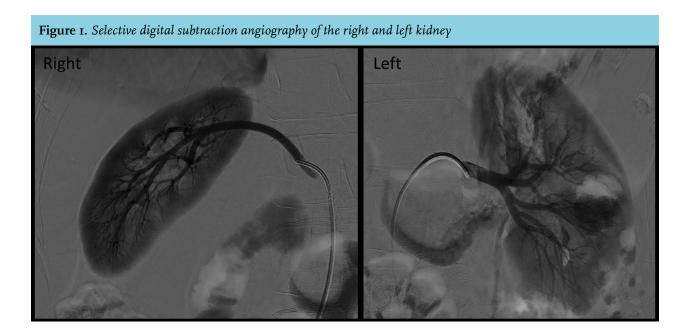
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CASE REPORT

A 25-year-old man with a clear medical record was referred because of accidentally discovered hypertension. He had a normal lifestyle and body mass index (20.4 kg/m²) and was not using any medication or other substances. A thorough physical examination was normal, except for high blood pressure (220/95 mmHg). Although 24-hour ambulatory blood pressure measurements showed a white coat effect, his blood pressure was nevertheless elevated: 151/101 mmHg. Routine laboratory tests, including serum potassium level, were normal and the estimated glomerular filtration rate was 85 ml/ min/1.73m². As echocardiography revealed left ventricular hypertrophy, treatment with valsartan 80 mg daily was initiated, resulting in a decrease in the blood pressure to 130/75 mmHg. Given his young age and the presence of left ventricular hypertrophy, we suspected renovascular hypertension (e.g. due to fibromuscular dysplasia) and performed an invasive renal digital subtraction angiography (*figure 1*).

WHAT IS YOUR DIAGNOSIS?

See page 389 for the answer to this photo quiz.



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