Hypertensive Crises in Adolescent

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Male, 16 years old came to ER in hospital with blured vision in his left eye. No other symptoms. There were no history of head trauma, hypertension, diabetes, heart disease, and renal disease. Ophthalmologist diagnosed as hypertensive retinopathy OS grade III and hypertensive retinopathy OD grade II. His BP was 240/180 mmHg (both arms and legs), heart rate was regular with gallop sounds. There was increase in serum creatinine level after administering ACE-inhibitor. ECG showed LV strain. Chest X-ray showed cardiomegaly. Renal ultrasonography was normal, Renal Doppler Ultrasound shows suspicious of right renal artery stenosis (RAR 2.78). He was suspected of having renovascular hypertension. Later on, coronary and renal arteriography was done with normal result. Regarding these findings, the conclusion was this patient got essential hypertension.