Does every second really count when it comes to renal ischemia during nephron sparing surgery?

Serge Ginzburg, MD,1,2 Alexander Kutikov, MD2
1Department of Urology, Albert Einstein Medical Center, Einstein Healthcare Network, Philadelphia, Pennsylvania, USA
2Department of Surgical Oncology, Fox Chase Cancer Center, Philadelphia, Pennsylvania, USA

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Jabaji and colleagues present data that support the growing notion that the relative impact of ischemia time on long term renal function may be less than previously thought.1 The investigators propose that size and tumor complexity, as captured by the RENAL Nephrometry Score, are an independent predictor of long term renal function. The authors appropriately recognize that the RENAL Nephrometry Score is likely a surrogate for the degree of parenchymal preservation, which appears to be a significantly more robust predictor of long-term renal function than ischemia.2,3 These findings are consistent with emerging data that show the human kidney to tolerate global ischemia remarkably well.4 As such, this work contributes to a growing body of literature that should give pause to recent trends that may add unnecessary complexity to nephron sparing surgery. Indeed, before techniques such as selective segmental vessel microdissection5 or controlled hypotension6 are widely adopted, harms of global ischemia must first be proven.

References