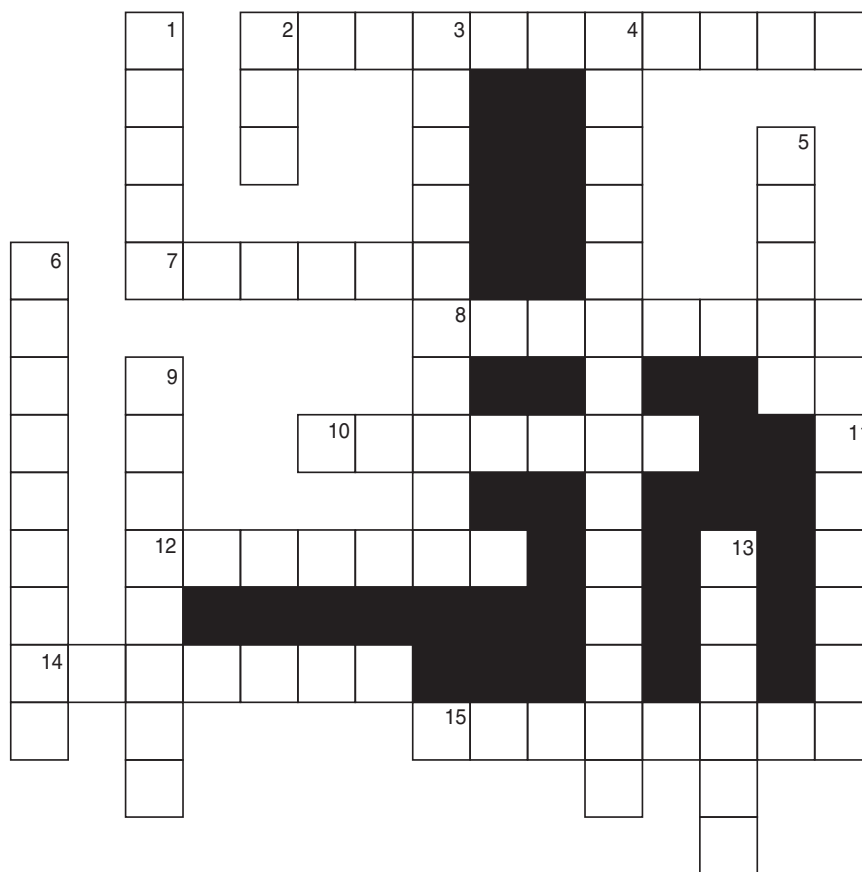


Nephrology Crossword: Interventional nephrology—dialysis access and beyond!

Kellie N. Calderon¹, Mala B. Sachdeva¹, Prabir T. Roy-Chaudhury² and Kenar D. Jhaveri¹

¹Division of Kidney Diseases and Hypertension, Hofstra North Shore LIJ School of Medicine, Great Neck, New York, USA and ²Division of Nephrology and Hypertension, Department of Internal Medicine, University of Cincinnati, Cincinnati, Ohio, USA

Correspondence: Kenar D. Jhaveri, Division of Kidney Diseases and Hypertension, Hofstra North Shore LIJ School of Medicine, Great Neck, New York 11021, USA. E-mail: kjhaveri@nshs.edu or kdj200@gmail.com



ACROSS

- Stenosis of arteriovenous fistula (AVF) and arteriovenous graft (AVG) occurs late typically located at areas of turbulence near the graft-vein _____.
- This infection requires intravenous antibiotics, removal of the catheter, and placement of the catheter in a new site.
- On exam, the thrill heard over an AVG is usually strongest over the _____ anastomosis.
- _____ failure: an access that can never be used for dialysis.
- The vascular surgeon holding an ultrasound and 'Google': both provide this.
- Lack of dilatation of the _____ vein is a cause of maturation failure in AVF.
- Antibiotic lock therapies, 2% chlorhexidine gluconate use, polysporin triple antibiotic ointment; all can reduce incidence of _____-related bacteremia.

DOWN

- Snuff box, _____ or elbow.
- Infections of these, especially, when non-functional can be missed in dialysis and transplant patients.
- Central vein stenosis is more common with frequent _____ vein catheterization.
- Thenar wasting and numbness in the thumb, second, and middle digits worsened during dialysis differentiates carpal tunnel from uremic _____.
- Robbery of blood and peripheral ischemia.
- This surgical intervention can treat distal steal syndrome.
- KDOQI 'rule of 6s' for functional vascular access: blood flow 600 ml/min, _____ 0.6 cm and <0.6 cm below the surface of the skin.
- A minimally invasive technique to manage distal hypoperfusion ischemic syndrome.
- When George Haas performed hemodialysis of a uremic patient in 1924, he cannulated the radial and carotid artery and this vein.

Nephrology Crossword Answers: Interventional nephrology—dialysis access and beyond!

	W ¹	A ²	N	A	S ³	T	O	M ⁴	O	S	I	S			
	R	V			U			O							
	I	G			B			N			S ⁵				
	S				C			O			T				
	T ⁷	U	N	N	E	L		N			E				
P ⁶						A ⁸	R	T	E	R	I	A	L		
L						V		U				L			
I	D ⁹														
C	I					P ¹⁰	R	I	M	A	R	Y	M ¹¹		
A	A					A		O					I		
T	M ¹²	A	P	P	I	N	G	P			P ¹³		L		
I	E							A			O		L		
O ¹⁴	U	T	F	L	O	W		T			R		E		
N								C ¹⁵	A	T	H	E	T	E	R
	R										Y		A		
													L		