	Interna	at couling)
[Clinic name]		
	[Contact information]	
RADIOLOGY REQUEST FORM: TOTAL KIDNEY	VOLUME (TKV)	
Patient Information	Date of Birth:	Appointment Information
Patient Name:		
Sex: Height: Weight: Phone Number	PF:	
Referring Doctor:		Time:
MRI CT		
Measurements needed to determine TKV: Measure both the left and right kidneys, cyst edge to cor atypical* PKD (if typical, calculate TKV)	yst edge, and review image to deter	mine typical*
Left kidney dimensions (mm):	Right kidney dimensions (mm	1):
Maximal kidney length on the coronal plane	Maximal kidney length on the cor	onal plane
Maximal kidney width on the transverse (axial) plane	Maximal kidney width on the tran	nsverse (axial) plane
Maximal kidney depth on the transverse (axial) plane	Maximal kidney depth on the trai	nsverse (axial) plane
TKV (mL):		
-weighted imaging is preferred for better visualization	of cysts.¹	
Radiologist's contact information		
Name:		
Email:		
Telephone:		
Fax:		
octor's Signature:		
Pate of Request:		
•		

*Bilateral and diffuse distribution, with mild, moderate, or severe replacement of kidney tissue by cysts, where all cysts contribute similarly to TKV.² †Unilateral, segmental, asymmetric, or lopsided presentation, or a bilateral presentation with acquired unilateral atrophy and significant renal

*Unilateral, segmental, asymmetric, or lopsided presentation, or a bilateral presentation with acquired unilateral atrophy and significant renal enlargement or bilateral kidney atrophy without significant renal enlargement.²

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[Clinic name]	[Internal coding]
	[Contact information]

There are 2 techniques to addressing a TKV order:

Determine raw maximal bilateral kidney dimensions:

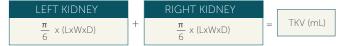
- Trace kidney outline onto cross-sectional images
- Multiply all traced areas by slice thickness
- Combine slice volumes

Calculate a TKV Measurement (if not provided)

Use the ellipsoid formula to calculate TKV based on the maximal bilateral kidney dimensions²

Calculate a TKV measurement (if not provided) using the ellipsoid formula based on the maximal bilateral kidney dimensions

• TKV-using the ellipsoid formula



Calculate htTKV







Electronically calculate TKV and htTKV using the QxMD calculator.

Scan the QR code or visit **QxMD.com**.

L=length; W=width; D=depth.

Units for kidney dimensions are in mm. To get kidney volume in mL, multiply by 0.001.

TKV in mL and height in m for a htTKV in mL/m.

References: 1. Zhang W, Blumenfeld JD, Prince MR. MRI in autosomal dominant polycystic kidney disease. *J Magn Reson Imaging.* 2019;50(1):41-51. **2.** Magistroni R, Corsi C, Martí T, Torra R. A review of the imaging techniques for measuring kidney and cyst volume in establishing autosomal dominant polycystic kidney disease progression. *Am J Nephrol.* 2018;48(1):67-78. doi:10.1159/000491022

