

PAI AUC - Final Round of Rating	Rater 1	Rater 2	Rater 3	Rater 4	Rater 5	Rater 6	Rater 7	Rater 8	Rater 9	Rater 10	Rater 11	Rater 12	Rater 13
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SECTION 1: RENAL ARTERY STENOSIS (RAS)

Table 1.1: Chronic Kidney Disease

Hemodynamically Significant RAS [with a Severe (70%-99%) RAS or 50% to 69% RAS with Hemodynamic Significance]																
Indication	Intervention Option	AUC Score													Median	Rating
1. Unilateral smaller kidney (<7cm pole to pole)	Continue or Intensify Medical Therapy	9	9	9	9	9	8	9	8	9	7	8	8	9	9	A
	Renal stent placement (primary stenting) – Atherosclerotic lesions	3	2	3	2	4	2	1	1	2	1	2	2	1	2	R
2. Accelerating decline in renal function; Unilateral RAS	Continue or Intensify Medical Therapy	9	8	9	9	9	8	9	9	9	7	8	8	9	9	A
	Renal stent placement (primary stenting) – Atherosclerotic lesions	4	3	3	4	2	3	4	3	4	5	4	3	4	4	M
3. Accelerating decline in renal function; Bilateral RAS or a solitary viable kidney with RAS	Renal stent placement (primary stenting) – Atherosclerotic lesions	6	6	7	7	5	8	6	3	5	8	7	7	8	7	A

Table 1.2: Hypertension

Hemodynamically Significant RAS [with a Severe (70%-99%) RAS or 50% to 69% RAS with Hemodynamic Significance]																
Indication	Intervention Option	AUC Score													Median	Rating
4. New onset; No medical management	Continue or Intensify Medical Therapy	9	9	8	9	9	9	9	9	9	7	9	9	9	9	A
	Renal stent placement (primary stenting) – Atherosclerotic lesions	1	1	1	2	3	6	3	1	1	1	1	1	1	1	R
5. Well-controlled blood pressure on ≥ two anti-hypertensive medications	Continue or Intensify Medical Therapy	9	9	8	9	9	9	9	9	9	7	9	8	9	9	A
	Renal stent placement (primary stenting) – Atherosclerotic lesions	1	1	3	2	2	2	1	2	1	1	1	1	1	1	R

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6. Uncontrolled on < 3 anti-hypertensive medications	Continue or Intensify Medical Therapy	9	9	8	9	9	9	9	5	9	7	9	9	9	9	A
	Renal stent placement (primary stenting) – Atherosclerotic lesions	2	3	6	2	5	3	4	6	1	3	2	2	1	3	R
7. Failure to control blood pressure on 3 maximally tolerated medications, one of which is a diuretic	Renal stent placement (primary stenting) – Atherosclerotic lesions	7	6	6	7	5	6	6	4	6	8	5	6	7	6	M

Table 1.3: Cardiac Destabilization

Hemodynamically Significant RAS [with a Severe (70%-99%) RAS or 50% to 69% RAS with Hemodynamic Significance]																
Indication	Intervention Option	AUC Score													Median	Rating
8. Recurrent heart failure; Uncontrolled on maximal medical therapy	Renal stent placement (primary stenting) – Atherosclerotic lesions	6	5	7	7	7	5	6	7	5	4	8	5	7	6	M
9. Sudden-onset flash pulmonary edema	Renal stent placement (primary stenting) – Atherosclerotic lesions	6	4	7	7	7	5	7	7	5	4	7	5	7	7	A
10. Uncontrolled unstable angina despite maximal medical therapy	Renal stent placement (primary stenting) – Atherosclerotic lesions	6	3	7	7	6	5	6	7	4	3	7	5	8	6	M

Table 1.4: Incidentally Discovered RAS

Hemodynamically Significant RAS [with a Severe (70%-99%) RAS or 50% to 69% RAS with Hemodynamic Significance]																
Indication	Intervention Option	AUC Score													Median	Rating
11. Unilateral RAS	Continue or Intensify Medical Therapy	9	9	9	9	9	7	9	7	2	7	9	8	9	9	A
	Renal stent placement (primary stenting) – Atherosclerotic lesions	1	2	3	1	4	2	3	5	2	1	1	2	1	2	R
12. Bilateral RAS or a solitary viable kidney with RAS	Continue or Intensify Medical Therapy	9	7	9	9	9	7	9	7	3	7	9	8	9	9	A
	Renal stent placement (primary stenting) – Atherosclerotic lesions	1	2	2	2	6	4	5	5	3	3	2	2	1	2	R

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Table 1.5: Borderline (50% to 69%) RAS without hemodynamic confirmation of severity

Indication	Intervention Option	AUC Score													Median	Rating
13. Unilateral RAS, bilateral RAS, or a solitary viable kidney with RAS	Continue or Intensify Medical Therapy	9	8	9	9	9	7	9	7	9	7	9	8	9	9	A
	Renal stent placement (primary stenting) – Atherosclerotic lesions	1	1	1	3	4	2	2	3	1	2	6	2	1	2	R

SECTION 2: LOWER EXTREMITY DISEASE

Table 2.1: Intermittent Claudication; No Prior Guideline-Directed Medical Therapy

Indication	Intervention Option	AUC Score													Median	Rating
14. Any lower extremity disease	Initiate Medical Therapy	9	9	9	9	9	8	9	9	9	8	9	9	9	9	A
	Endovascular Treatment	2	1	3	1	3	3	2	6	1	4	2	2	1	2	R
	Surgical Treatment	1	1	1	1	2	2	2	3	1	1	2	1	1	1	R

Table 2.2: Intermittent Claudication, Despite Guideline-Directed Medical Therapy -- Stenotic Lesions

Indication	Intervention Option	AUC Score													Median	Rating
15. Aortoiliac	Continue or Intensify Medical Therapy	9	5	9	9	9	8	9	9	9	7	9	8	9	9	A
	Endovascular Treatment	9	7	8	8	9	6	8	6	5	4	8	8	8	8	A
	Surgical Treatment	1	2	4	8	5	6	8	2	4	4	6	2	3	4	M
16. SFA and Popliteal Artery	Continue or Intensify Medical Therapy	9	7	9	9	9	8	9	9	9	7	9	8	9	9	A
	Endovascular Treatment	9	5	7	8	7	6	8	6	4	4	8	7	7	7	A
	Surgical Treatment	6	5	6	8	5	7	6	4	7	9	6	8	8	6	M
17. Below the Knee	Continue or Intensify Medical Therapy	9	7	9	9	9	8	9	9	9	7	9	8	9	9	A
	Endovascular Treatment	2	3	6	7	5	5	8	3	1	1	7	7	6	5	M
	Surgical Treatment	1	4	3	4	6	5	8	2	3	1	4	1	3	3	R

Table 2.3: Intermittent Claudication, Despite Guideline-Directed Medical Therapy -- Chronic Total Occlusion

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Indication	Intervention Option	AUC Score													Median	Rating
18. Aortoiliac	Continue or Intensify Medical Therapy	9	7	9	9	9	8	9	6	9	4	9	8	9	9	A
	Endovascular Treatment	8	7	8	7	7	5	8	7	4	5	7	7	8	7	A
	Surgical Treatment	4	4	6	8	7	6	8	5	4	4	7	7	6	6	M
19. SFA and Popliteal Artery	Continue or Intensify Medical Therapy	9	8	9	9	9	8	9	7	9	4	9	8	9	9	A
	Endovascular Treatment	8	5	7	6	6	4	8	7	4	4	6	7	7	6	M
	Surgical Treatment	5	4	7	8	7	6	8	5	4	4	7	4	6	6	M
20. Below the Knee	Continue or Intensify Medical Therapy	9	9	9	9	9	8	9	8	9	4	9	8	9	9	A
	Endovascular Treatment	2	3	6	6	5	4	8	5	1	1	4	7	4	4	M
	Surgical Treatment	1	3	3	4	5	5	8	5	3	2	3	2	4	3	R

SECTION 3: CRITICAL LIMB ISCHEMIA (CLI)

Table 3.1: Critical Limb Ischemia

Indication	Intervention Option	AUC Score													Median	Rating
21. Aortoiliac	Endovascular Treatment	9	9	9	8	9	8	8	9	8	6	8	9		8.5	A
	Surgical Treatment	8	7	9	8	9	6	8	8	8	6	8	7		8	A
22. SFA and Popliteal Artery	Endovascular Treatment	7	9	9	7	9	8	8	8	8	6	8	8		8	A
	Surgical Treatment	8	9	9	8	9	8	8	8	8	6	8	8		8	A
23. Below the Knee	Endovascular Treatment	7	9	9	7	8	7	8	8	8	6	8	7		8	A
	Surgical Treatment	9	9	9	7	6	8	8	9	8	6	8	9		8	A

SECTION 4: ASYMPTOMATIC ARTERY DISEASE

Table 4.1: Access in Support of Other Life-Saving Interventions

Indication	Intervention Option	AUC Score													Median	Rating
24. Access for coronary intervention	Endovascular Treatment	6	8	7	7	5	6	7	7	7	5	2	3	7	7	A
	Surgical Treatment	7	8	8	8	8	7	6	5	9	9	9	8	8	8	A
25. Access for hemodynamic support	Endovascular Treatment	7	8	7	7	6	6	6	7	7	5	3	3	7	7	A

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	Surgical Treatment	4	5	3	6	3	6	5	4	7	3	2	3	3	4	M
26. Access for large vascular or valvular intervention	Endovascular Treatment	7	8	7	8	6	6	7	7	5	5	3	3	7	7	A
	Surgical Treatment	4	5	3	6	4	6	7	6	7	4	2	3	8	5	M

SECTION 5: OPTIONS FOR ENDOVASCULAR TREATMENT WHEN DEEMED APPROPRIATE OR MAY BE APPROPRIATE

Table 5.1: Isolated Common Iliac Artery

Indication	Intervention Option	AUC Score													Median	Rating
27. Discrete stenosis	Atherectomy	1	2	1	1	3	3	3	1	3	2	2	1	4	2	R
	Balloon Angioplasty	6	6	7	7	7	7	7	7	4	4	9	8	7	7	A
	Stent	7	8	8	8	8	7	8	8	3	7	7	8	9	8	A
28. Diffuse disease or multiple stenoses of the CIA	Atherectomy	1	2	1	1	4	3	3	1	2	2	2	1	3	2	R
	Balloon Angioplasty	5	3	7	6	6	6	7	6	5	4	9	6	6	6	M
	Stent	7	8	8	8	8	8	8	7	4	7	3	8	9	8	A

Table 5.2: Isolated External Iliac Artery

29. Discrete stenosis	Atherectomy	1	3	1	2	3	2	2	1	1	2	1	3	7	2	R
	Balloon Angioplasty	6	6	7	7	8	7	7	5	4	4	9	7	6	7	A
	Stent	7	8	8	8	8	7	8	8	5	7	2	8	9	8	A

Table 5.3: Diffuse Common Iliac Artery and External Iliac Artery

30. Unilateral EIA stenosis with multiple CIA stenoses	Atherectomy	1	2	1	2	3	3	2	1	1	3	2	3	3	2	R
	Balloon Angioplasty	5	3	7	7	6	3	7	3	5	4	8	3	5	5	M
	Stent	7	8	8	8	8	5	8	8	5	7	2	7	8	8	A
31. Chronic total occlusion	Atherectomy	1	2	1	1	6	3	2	1	1	3	2	3	4	2	R
	Balloon Angioplasty	4	3	7	5	6	3	3	3	5	4	9	3	3	4	M
	Stent	7	8	8	8	7	5	8	8	6	7	8	7	9	8	A

Table 5.4: Superficial Femoral Artery (SFA) and Popliteal Artery

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32. Length < 100 mm	Atherectomy	6	7	7	7	5	5	8	3	3	6	5	6	7	6	M
	Balloon Angioplasty	6	3	7	6	8	7	8	5	5	6	9	7	9	7	A
	Drug Coated Balloon (DCB)	6	8	7	7	7	7	8	7	3	5	7	7	9	7	A
	Bare Metal Stent (BMS)	5	7	7	8	7	7	7	7	4	4	6	7	9	7	A
	Drug Eluting Stent (DES)	6	7	8	8	6	7	8	8	5	4	3	7	9	7	A
	Covered Stent	4	6	7	6	6	6	7	7	2	4	7	3	9	6	M
33. Length ≥ 100 mm	Atherectomy	6	5	6	5	5	5	8	2	3	6	5	6	7	5	M
	Balloon Angioplasty	5	1	4	5	7	3	7	4	4	6	9	3	9	5	M
	Drug Coated Balloon (DCB)	7	4	7	7	7	6	7	7	4	5	6	3	9	7	A
	Bare Metal Stent (BMS)	6	7	7	8	6	7	8	7	4	4	8	3	9	7	A
	Drug Eluting Stent (DES)	7	5	6	8	7	7	8	8	4	4	4	3	9	7	A
	Covered Stent	5	6	7	6	7	5	7	8	1	4	7	3	9	6	M

Table 5.5: Below the Knee

34. Length < 100 mm	Atherectomy	6	3	4	4	5	4	5	1	3	4	4	1	1	4	M
	Balloon Angioplasty	6	5	7	7	8	7	8	7	5	6	9	8	9	7	A
	Drug Coated Balloon (DCB)	2	3	5	2	3	6	3	6	4	5	7	1	9	4	M
	Bare Metal Stent (BMS)	2	3	5	6	7	6	5	3	3	5	7	4	5	5	M
	Drug Eluting Stent (DES)	6	5	7	8	7	7	6	7	4	4	7	6	9	7	A
	Covered Stent	1	1	3	2	5	6	3	3	1	4	4	6	3	3	R
35. Length ≥ 100 mm	Atherectomy	6	1	4	2	6	6	5	1	4	4	5	1	1	4	M
	Balloon Angioplasty	5	4	7	7	7	7	7	7	3	6	9	4	9	7	A
	Drug Coated Balloon (DCB)	2	3	5	2	3	6	2	5	4	5	7	1	9	4	M
	Bare Metal Stent (BMS)	2	5	5	6	5	6	3	3	3	4	7	3	5	5	M
	Drug Eluting Stent (DES)	6	5	5	6	8	6	6	6	4	4	4	6	9	6	M
	Covered Stent	1	1	1	2	5	6	3	2	1	4	4	3	3	3	R

SECTION 6: SECONDARY TREATMENT OPTIONS FOR LOWER EXTREMITY DISEASE

Table 6.1: In-Stent Restenosis

Indication	Intervention Option	AUC Score											Median	Rating
Recurrent Symptoms														

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36. Focal stenosis	Continue or Intensify Medical Therapy	9	5	9	8	9	8	9	6	9	4	9	9	3	9	A
	Endovascular Treatment	8	7	9	8	9	7	7	7	6	6	8	7	9	7	A
	Surgical Treatment	4	3	6	6	5	6	4	6	5	4	4	3	5	5	M
37. Diffuse stenosis	Continue or Intensify Medical Therapy	9	7	9	8	9	8	9	6	9	4	9	9	3	9	A
	Endovascular Treatment	7	7	9	8	8	6	7	7	6	5	8	6	9	7	A
	Surgical Treatment	5	6	7	6	6	7	7	6	5	5	7	7	5	6	M
Asymptomatic																
38. Focal stenosis	Continue or Intensify Medical Therapy	9	9	9	8	9	8	9	9	9	5	9	8	3	9	A
	Endovascular Treatment	5	3	4	4	8	3	5	6	1	1	7	7	5	5	M
	Surgical Treatment	1	1	3	2	4	2	3	3	1	1	2	3	3	2	R
39. Diffuse stenosis	Continue or Intensify Medical Therapy	9	8	9	8	9	8	9	9	9	5	9	8	3	9	A
	Endovascular Treatment	5	3	4	4	6	3	4	4	1	1	5	6	5	4	M
	Surgical Treatment	1	1	4	2	4	2	3	3	1	1	3	4	3	3	R
Table 6.2: Venous Bypass Graft Failure																
Indication	Intervention Option	AUC Score													Median	Rating
Stenotic lesions developing after 30 days																
40. Focal stenosis	Endovascular Treatment: Balloon Angioplasty, Stenting, and/or Catheter-Directed Thrombolysis	7	7	8	8	9	6	6	7	5	7	9	7	9	7	A
	Surgical Treatment: Vein Patch Angioplasty or Interposition Graft	3	4	3	6	6	6	6	7	5	5	2	4	7	5	M
41. Diffuse stenosis	Endovascular Treatment: Balloon Angioplasty, Stenting, and/or Catheter-Directed Thrombolysis	6	4	7	7	8	5	6	6	5	3	9	6	5	6	M

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	Surgical Treatment: Vein Patch Angioplasty or Interposition Graft	4	7	5	6	6	6	5	7	5	5	2	7	9	6	M
42. Thrombosed graft	Endovascular Treatment: Balloon Angioplasty, Stenting, and/or Catheter-Directed Thrombolysis	3	5	6	6	7	3	4	7	5	6	7	2	7	6	M
	Surgical Treatment: Vein Patch Angioplasty or Interposition Graft	4	7	6	3	6	6	3	9	5	5	3	8	9	6	M

Table 6.3: Prosthetic Bypass Graft Failure

Indication	Intervention Option	AUC Score													Median	Rating
Stenotic lesions developing after 30 days																
43. Focal stenosis	Endovascular Treatment: Balloon Angioplasty, Stenting, and/or Catheter-Directed Thrombolysis	7	7	8	8	9	5	4	7	4	5	8	4	9	7	A
	Surgical Treatment: Vein Patch Angioplasty or Interposition Graft	3	5	3	6	3	6	6	7	5	5	2	7	7	5	M
44. Diffuse stenosis	Endovascular Treatment: Balloon Angioplasty, Stenting, and/or Catheter-Directed Thrombolysis	6	3	7	7	8	5	4	6	4	1	8	1	6	6	M
	Surgical Treatment: Vein Patch Angioplasty or Interposition Graft	4	7	4	6	5	6	6	7	5	5	3	8	9	6	M
45. Thrombosed graft	Endovascular Treatment: Balloon Angioplasty, Stenting, and/or Catheter-Directed Thrombolysis	3	5	6	7	7	3	4	6	4	5	5	1	9	5	M

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	Surgical Treatment: Vein Patch Angioplasty or Interposition Graft	4	7	6	3	6	6	3	8	5	4	2	8	9	6	M