

Recommendations for Device Selection as Intended Definitive Therapy in Aorto-Iliac Arterial Interventions

Adapted from the SCAI Guidelines on Device Selection in Aorto-Iliac Arterial Interventions

Aorto-iliac bifurcation

Focal CIA lesion

Diffuse CIA lesion

Device Type	COR	LOE
PTA	IIb (weak)	B-R (randomized)
Specialty balloons	III (no benefit)	C-EO (expert opinion)
DCB	III (no benefit)	C-EO (expert opinion)
BMS (self-expanding)	IIa (moderate)	B-R (randomized)
BMS (balloon expanding)	I (strong)	B-R (randomized)
Covered stents (self-expanding)	IIb (weak)	C-LD (limited data)
Covered stents (balloon expanding)	I (strong)	B-R (randomized)
DES	III (no benefit)	C-EO (expert opinion)
Atherectomy	III (harm)	C-EO (expert opinion)

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Focal EIA lesion

Chronic total occlusion, focal lesion

Moderate to severe calcified, focal lesion

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ISR, focal lesion

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Key

Class (Strength) of Recommendation	Class I (Strong) Benefit >>> Risk (&Cost) -Device is recommended -Device is indicated/useful/beneficial/cost-effective	Class IIa (Moderate) Benefit >> Risk (&Cost) -Device is reasonable -Device can be useful/beneficial/cost-effective	Class IIb (Weak) Benefit ≥ Risk (&Cost) -Device may/might be useful -Device may/might be considered -Device usefulness/cost-effectiveness is unknown/unclear/uncertain or not well established	Class III: No Benefit (Moderate) Benefit = Risk (&Cost) -Device is not recommended -Device is not indicated/useful/beneficial/cost-effective	Class III: Harm (Strong) Risk > Benefit (&Cost) -Device is potentially harmful -Device can cause harm -Device is associated with excess morbidity/mortality
Level (Quality) of Evidence	Level A -High-quality evidence from >1 RCT -Meta-analyses of high-quality RCTs -One or more RCTs corroborated by high-quality registry studies	Level B-R (randomized) -Moderate quality evidence from 1 or more RCTs -Meta-analysis of moderate quality RCTs	Level B-NR (nonrandomized) -Moderate-quality evidence from 1 or more well-designed, well-executed nonrandomized, observational or registry studies -Meta-analyses of such studies	Level C-LD (limited data) -Randomized or nonrandomized observational or registry studies with limitations of design or execution -Meta-analyses of such studies -Physiological or mechanistic studies in human subjects	Level C-EO (expert opinion) -Consensus of expert opinion based on clinical experience