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BSC6.02	Elective Percutaneous Coronary Intervention (PCI)								
Original Policy Date:	April 17, 2017	Effective Date:	September 1, 2023						
Section:	7.0 Surgery	Page:	Page 1 of 23						

#### **Policy Statement**

The medical necessity criteria outlined in this document govern the appropriate use of non-emergent coronary revascularizations in general but focuses on non-emergent percutaneous coronary interventions (PCI) in particular.

This medical policy is not intended to address prior authorization of PCI for acute coronary syndrome (ACS) meeting the definitions as noted in the Policy Guidelines section below for more details. However, services provided without prior authorization (including inpatient care) are subject to post service review and are also subject to the criteria and definitions in this policy. Documentation of why the individual is thought to have ACS or other acute indications are required to meet criteria.

- I. **Elective** (NOT emergent) coronary revascularization utilizing percutaneous coronary intervention for non-acute, stable coronary artery disease may be considered **medically necessary** when **both** of the following criteria are met:
  - A. Documentation of clinical evaluation includes **all** of the following<sup>2,3,4,5</sup>:
    - The individual exhibits chronic symptoms of Class I, II, III or IV angina (Canadian Cardiovascular Society [CCS] Grading of Angina Pectoris, Class I, II, III or IV, [see <u>Policy</u> <u>Guidelines</u> section]), that persist despite optimal antianginal medical therapy (OAMT;) (see <u>Policy Guidelines</u> section), as tolerated, which includes at minimum use of three of four anti-anginal classes of agents (i.e., beta blockers, calcium channel blockers, sodium channel blockers, nitrates)
    - Symptomatic individuals with 1 or more severe (greater than or equal to 70% diameter) epicardial (non-left main) artery or intermediate (50 to 69% diameter) left main coronary artery stenosis detected by diagnostic coronary angiography (see <u>Policy Guidelines</u> section), or with a Fractional Flow Reserve (FFR) using Coronary Computed Tomography Angiography (CCTA) of less than or equal to 0.80
  - B. Utilizing the ACC/AATS/AHA/ASE/ASNC/SCAI/SCCT/STS 2017 Appropriate Use Criteria (AUC) for Coronary Revascularization in individuals with Stable Ischemic Heart Disease (SIHD), a rated level of appropriateness and the specific clinical scenario (e.g., one-vessel disease, two-vessel disease, three-vessel disease, left main disease, SIHD with prior CABG) must be documented in the medical record:
    - 1. The "appropriate use" score is rated level 7 9
    - 2. The "appropriate use" score is rated level is 4 6 ("may be appropriate") or 1 3 ("rarely appropriate") and includes a brief narrative in the medical record describing the clinical scenario(s) justifying the revascularization procedure. Clinical risk factors which may support the procedure include prior PCI or CABG procedure.
- II. Elective coronary revascularization for non-acute, stable coronary artery disease is considered **not medically necessary** for all other indications, including if the individual is unwilling to comply with recommended medical therapy, or if the individual is unlikely to benefit from the proposed procedure (e.g., limited life expectancy from concomitant disease).

NOTE: Refer to <u>Appendix A</u> to see the policy statement changes (if any) from the previous version.

#### **Policy Guidelines**

# Emergent catheterization to treat an acute coronary syndrome does NOT require prior authorization.

**Percutaneous coronary interventions (PCI)** are non-surgical procedures performed using vascular access through skin which restores patency of diseased coronary arteries, performed with or without coronary stent implantation. For the sake of this policy, this includes coronary atherectomy for the treatment of coronary artery disease (CAD). Elective surgical revascularization procedures, (e.g., coronary artery bypass grafting [CABG] procedures), if reviewed, must meet these elective coronary revascularization criteria, and also meet appropriateness criteria for use of the surgical approach (see Policy Guidelines section).

Acute indications for PCI are defined as those performed in the setting of an acute coronary syndrome, including unstable angina (see Policy Guidelines section below).<sup>7</sup> Findings from studies comparing PCI with coronary bypass grafting (CABG) suggest that in most individuals with acute CAD with multi-vessel disease or isolated proximal left anterior stenosis amenable to either treatment, CABG led to a significantly lower long-term incidence of ischemic events and the need for repeat interventions. CABG is recommended for individuals with more severe disease involving large areas of the myocardium supplied by occluded vessels or significant left main coronary artery disease.

#### Acute Coronary Syndrome

- ST-elevation myocardial infarction (STEMI)
- Non-ST elevation myocardial infarction (NSTEMI)
- Unstable angina

#### Unstable angina

- Typical\* (see table below) angina/ischemic symptoms suggestive of ACS but without troponin elevation (or only minimal elevation), with ECG (electrocardiogram) changes indicative of ischemia (e.g., ST segment depression or transient elevation; or new T wave inversion).
- Angina at rest: pain of typical\* nature but for prolonged periods of time (i.e., >20 minutes); CCS grade IV
- New onset angina: recent (i.e., < 2 months) onset of severe angina (CCS grade III). Angina
  that occurs for the first time with heavy or moderate exertion and subsides with rest would be
  considered to be CCS grade I or II (see below in Guidelines section) and should undergo
  maximal medical therapy as a first step.</li>
- Crescendo angina: previous typical angina that progressively increases over a short period of time in severity/intensity and at a lower level of exertion.

#### Note: Other types of angina are not considered to be unstable

#### Table PG1. Traditional Clinical Classification of Suspected Anginal Symptoms

*Typical angina	Meets the following three characteristics: (i) Constricting discomfort in the front of the chest or in the neck, jaw, shoulder, or arm; (ii) Precipitated by physical exertion; (iii) Relieved by rest or nitrates within 5 min.
Atypical angina	Meets two of these characteristics.
Non-anginal chest pain	Meets only one or none of these characteristics.

Related to clinical scenarios listed in this policy, a "significant" coronary stenosis for an epicardial (non-left main) artery is equal to or greater than 70% luminal diameter narrowing by visual assessment, as assessed in the "worst view" projection. For a left main stenosis, greater or equal to 50% narrowing is required.

If questions of the degree of stenosis by visual estimation are encountered, fractional flow reserve (FFR) across the stenosis may be used as an indicator of stenosis severity. With an FFR of 1.0 is widely accepted as normal, an FFR lower than 0.75-0.80 is generally considered to be associated with significant stenosis/myocardial ischemia. Intravascular plaque morphology resulting in significant stenosis may also be determined by intravascular ultrasound (IVUS).

This medical policy guidance is principally derived from a 2017 report of the American College of Cardiology Appropriate Use Criteria Task Force (ACC), American Association for Thoracic Surgery (AATS), American Heart Association (AHA), American Society of Echocardiography (ASE), American Society of Nuclear Cardiology (ASNC), Society for Cardiovascular Angiography Interventions (SCAI), Society of Cardiovascular Computed Tomography (SCCT), Society of Thoracic Surgeons (STS), **Appropriate Use Criteria (AUC) for Coronary Revascularization in Patients with Stable Ischemic Heart Disease (SIHD),** as published in the Journal of the American College of Cardiology.<sup>1</sup>

#### Preferential Use of Coronary Artery Bypass Grafting Over Percutaneous Coronary Interventions

In certain complex clinical circumstances, including but not limited to two-vessel disease including left anterior descending stenosis, three-vessel disease, left main stenosis, or prior bypass surgery, revascularization itself is generally thought to be appropriate, but the use of percutaneous procedures may or may not be considered medically appropriate (See Tables listed in the Policy Guidelines section below). In these cases, coronary artery bypass surgery becomes medically necessary instead of PCI, therefore, additional documentation is required to justify use of PCI over CABG.

According to Singh et al other factors may influence the choice of revascularization procedures, and may be considered in appropriateness decision-making. In general, CABG is preferred in cases in which significant blockage is present in several sites in the same artery, where SYNTAX scores (see below for definition) are high, and in individuals in whom there is a history of diabetes, excessive bleeding, aspirin (or clopidogrel) allergy, or left ventricular systolic dysfunction (with an ejection fraction of less than 45% or documented diastolic dysfunction). On the other hand, in cases of high stroke risk, dementia, previous CABG, or significant pulmonary disease, PCI may be preferable.<sup>6</sup>

#### Canadian Cardiovascular Society Grading of Angina Pectoris

The reference standard used for the grading of angina severity is the Canadian Cardiovascular Society system:

- **Grade I**: Ordinary physical activity does not cause angina, such as walking and climbing stairs. Angina with strenuous or rapid or prolonged exertion at work or recreation.
- **Grade II**: Slight limitation of ordinary activity. Walking or climbing stairs rapidly, walking uphill, walking or stair climbing after meals, or in cold, or in wind, or under emotional stress, or only during the few hours after awakening. Walking more than two blocks on the level and climbing more than one flight of ordinary stairs at a normal pace and in normal conditions.
- **Grade III**: Marked limitation of ordinary physical activity. Walking one or two blocks on the level and climbing one flight of stairs in normal conditions and at normal pace.
- **Grade IV**: Inability to carry on any physical activity without discomfort, anginal syndrome may be present at rest.

#### Optimal Intensity of Anti-Anginal Therapy

Maximal anti-anginal therapy (referred to as "Optimal Medical Therapy" elsewhere in this document) consists of the continuous use of drugs from at least three of four anti-anginal classes (beta blockers,

#### **BSC6.02** Elective Percutaneous Coronary Intervention (PCI) Page 4 of 23

calcium channel blockers, sodium channel blockers, nitrates) titrated to maximal efficacy and/or tolerance. Minimal therapy is use of one class of anti-anginal drugs. ACC/AHA guidelines suggest that beta-blockers should be considered as initial therapy for chronic stable angina. Current practice guidelines indicate low- risk individuals with chronic stable angina should be treated initially with optimal medical therapy (OMT) and lifestyle modification. An assumption is made that agents to treat hypertension and hyperlipidemia, as well as anti-platelet agents, are in use as indicated and are also titrated to maximally efficacious and/or tolerated effect.

#### Table PG2: Anti-Anginal Therapy and Optimal Dose Range<sup>\*</sup>

\*in individuals without kidney impairment, liver impairment, or rhythm related disorders

Therapeutic Class	Medication Name and Optimal Dose Range
Beta Blockers	<ul> <li>Metoprolol Tartrate: 50-200mg twice daily</li> <li>Metoprolol Succinate: 100-400mg daily</li> <li>Atenolol: 50-200mg daily</li> <li>Carvedilol: 25 to 50mg total daily dose</li> <li>Bisoprolol: 2.5-10mg daily</li> <li>Propranolol: 80-320mg total daily dose</li> <li>Nadolol: 40-240mg daily</li> <li>Pindolol (off-label): 5mg-30mg twice daily</li> <li>Acebutolol (off-label): 200mg three times daily, 1200mg maximum daily dose</li> </ul>
	60
Non-Dihydropyridine Calcium Channel Blockers	<ul> <li>Diltiazem: 240-360mg total daily dose</li> <li>Verapamil (Extended Release): 180-480mg total daily dose</li> <li>Goal: Titrate to maximum tolerated dose, resolution of angina, resting heart rate &lt; 60</li> </ul>
Dihydropyridine Calcium Channel Blockers	<ul> <li>Amlodipine: 5-10mg daily</li> <li>Felodipine: 5-10mg daily</li> <li>Nifedipine: 30-120mg daily</li> <li>Isradipine (off-label): 2.5mg-10mg twice daily</li> <li>Nicardipine: 20-40mg three times daily</li> </ul> Goal: Titrate to maximum tolerated dose, resolution of angina
Nitrates	<ul> <li>Isosorbide Mononitrate (Extended Release): 60-120mg daily</li> <li>Isosorbide Dinitrate (Immediate Release): 10-80mg three times daily</li> <li>Isosorbide Dinitrate (Sustained Release): 40-160mg daily</li> </ul> Goal: Titrate to maximum tolerated dose, resolution of angina
Sodium channel blockers	Ranolazine 500mg-1000mg twice daily
	Goal: Titrate to maximum tolerated dose or resolution of angina

#### Appropriate Use Criteria for Coronary Revascularization

The table below is taken directly from the "ACC/AATS/AHA/ASE/ASNC/SCAI/SCCT/STS 2017 Appropriate Use Criteria (AUC) for Coronary Revascularization in patients with Stable Ischemic Heart Disease (SIHD)" and is to be used for the determination of "appropriate use" in this policy. In the "Appropriate Use Score" columns, Roman numerals I, II, III and IV refer to Canadian Cardiovascular Society angina scores.<sup>1</sup> BSC6.02 Elective Percutaneous Coronary Intervention (PCI) Page 5 of 23

#### Appropriate Use Criteria for Coronary Revascularization abbreviations

- AA = antianginal
- ACS = acute coronary syndrome
- AUC = appropriate use criteria
- BB = beta-blockers
- CABG = coronary artery bypass graft
- CAD = coronary artery disease
- FFR = fractional flow reserve
- IMA = internal mammary artery
- LAD = left anterior descending coronary artery
- LVEF = left ventricular ejection fraction
- PCI = percutaneous coronary intervention
- SIHD = stable ischemic heart disease

#### Table PG3. Revascularization to Improve Survival Compared with Medical Therapy

Anatomic	COR				
Setting					
UPLM or comple	ex CAD				
CABG and PCI	I—Heart Leam approach recommended	C			
CABG and PCI	IIa—Calculation of STS and SYNTAX scores	В			
CABG	I	В			
	<ul> <li>IIa—For SIHD when both of the following are present:</li> <li>Anatomic conditions associated with a low risk of PCI procedural complications and a high likelihood of good long-term outcome (e.g., a low SYNTAX score of ≤22, ostial or trunk left main CAD)</li> <li>Clinical characteristics that predict a significantly increased risk of adverse surgical outcomes (e.g., STS-predicted risk of operative mortality ≥5%)</li> </ul>	В			
	IIa—For UA/NSTEMI if not a CABG candidate	В			
PCI	IIa—For STEMI when distal coronary flow is TIMI flow grade <3 and PCI can be performed more rapidly and safely than CABG	С			
	<ul> <li>IIb—For SIHD when both of the following are present:         <ul> <li>Anatomic conditions associated with a low to intermediate risk of PCI procedural complications and an intermediate to high likelihood of good long-term outcome (e.g., low-intermediate SYNTAX score of &lt;33, bifurcation left main CAD)</li> <li>Clinical characteristics that predict an increased risk of adverse surgical outcomes (e.g., moderate—severe COPD, disability from prior stroke, or prior cardiac surgery; STS-predicted operative mortality &gt;2%)</li> </ul> </li> </ul>	В			
	III: Harm—For SIHD in patients (versus performing CABG) with unfavorable anatomy for PCI and who are good candidates for CABG	В			
3-vessel disease	with or without proximal LAD artery disease*				
		B			
CABG	IIa—It is reasonable to choose CABG over PCI in patients with complex 3-vessel CAD (e.g., SYNTAX score >22) who are good candidates for CABG.	В			
PCI	IIb—Of uncertain benefit	В			
2-vessel disease	with proximal LAD artery disease*				
CABG	1	В			
PCI	IIb—Of uncertain benefit	В			
2-vessel disease	without proximal LAD artery disease*				
CABG	IIa—With extensive ischemia	В			
-	IIb—Of uncertain benefit without extensive ischemia	С			
PCI	IIb—Of uncertain benefit	В			

**BSC6.02** Elective Percutaneous Coronary Intervention (PCI) Page 6 of 23

Anatomic Setting	COR	LOE
1-vessel proximo	Il LAD artery disease	
CABG	IIa—With LIMA for long-term benefit	В
PCI	IIb—Of uncertain benefit	В
1-vessel disease	without proximal LAD artery involvement	
CABG	III: Harm	В
PCI	III: Harm	В
LV dysfunction		
CABG	IIa—EF 35% to 50%	В
CABG	IIb—EF <35% without significant left main CAD	В
PCI	Insufficient data	
Survivors of sude	den cardiac death with presumed ischemia-mediated VT	
CABG	I construction of the second se	В
PCI	I	С
No anatomic or	physiological criteria for revascularization	
CABG	III: Harm	В
PCI	III: Harm	В

COR: Class of Recommendation; LOE: Level of Evidence

#### Table PG3.1 One-Vessel Disease

#### Appropriate Use Score (1-9)

One-Vessel Disease								
		Asympt	omatic		ls	chemic S	ympto	ms
	Not o Therapy AA Th	on AA / or With ierapy	Not The	on AA erapy	On 1 A (BB Pro	On 1 AA Drug (BB Preferred)		≥2 AA ugs
Indication	PCI	CABG	PCI	CABG	PCI	CABG	PCI	CABG
No Proximal LAD or Proximal Left Dominant	LCX Inv	olvemen	t					
<ol> <li>■ Low-risk findings on noninvasive testing</li> </ol>	R (2)	R (3)	R (3)	R (2)	M (4)	R (3)	A (7)	M (5)
<ol> <li>Intermediate- or high-risk findings on noninvasive testing</li> </ol>	M (4)	R (3)	M (5)	M (4)	M (6)	M (4)	A (8)	M (6)
<ul> <li>3. ■ No stress test performed or, if performed results are indeterminate</li> <li>■ FFR ≤0.80*</li> </ul>	, M (4)	R (2)	M (5)	R (3)	M (6)	M (4)	A (8)	M (6)
Proximal LAD or Proximal Left Dominant LC	X Involve	ement Pr	esent					
4. ■ Low-risk findings on noninvasive testing	M (4)	R (3)	M (4)	M (4)	M (5)	M (5)	A (7)	A (7)
<ol> <li>Intermediate- or high-risk findings on noninvasive testing</li> </ol>	M (5)	M (5)	M (6)	M (6)	A (7)	A (7)	A (8)	A (8)
<ul> <li>6. ■ No stress test performed or, if performed, results are indeterminate</li> <li>■ FFR ≤0.80</li> </ul>	M (5)	M (5)	M (6)	M (6)	M (6)	M (6)	A (8)	A (7)

The number in parentheses next to the rating reflects the median score for that indication. \*iFR measurements with appropriate normal ranges may be substituted for FFR.

A indicates appropriate; AA = antianginal; BB = beta blockers; CABG = coronary artery bypass graft; FFR = fractional flow reserve; iFR = instant wave-free ratio; LAD = left anterior descending coronary artery; LCX = left circumflex artery; M = may be appropriate; PCI = percutaneous coronary intervention; and R = rarely appropriate.

#### Table PG3.2 Two-Vessel Disease

Appropriate Use Score (1-9)

Two-Vessel Disease

			Asympto	omatic		lso	chemic S	ymptor	ns
		Not o Therapy AA Th	on AA or With erapy	Not on AA Therapy		On 1 AA Drug (BB Preferred)		On ≥2 AA Drugs	
Inc	lication	PCI	CABG	PCI	CABG	PCI	CABG	PCI	CABG
Nc	Proximal LAD Involvement								
7.	■ Low-risk findings on noninvasive	R (3)	R (2)	M (4)	R (3)	M (5)	M (4)	A (7)	M (6)
	testing								
8.	■ Intermediate- or high-risk findings	M (5)	M (4)	M (6)	M (5)	A (7)	M (6)	A (8)	A (7)
	on noninvasive testing								
9.	No stress test performed or, if	M (5)	M (4)	M (6)	M (4)	A (7)	M (5)	A (8)	A (7)
	performed, results are indeterminate								
	■FFR≤0.80* in both vessels								
Pro	oximal LAD Involvement and No Diabete	s Present							
10.	Low-risk findings on noninvasive	M (4)	M (4)	M (5)	M (5)	M (6)	M (6)	A (7)	A (7)
	testing								
11.	Intermediate- or high-risk findings on	M (6)	M (6)	A (7)	A (7)	A (7)	A (7)	A (8)	A (8)
	noninvasive testing								
12.	No stress test performed or, if	M (6)	M (6)	M (6)	M (6)	A (7)	A (7)	A (8)	A (8)
	performed, results are indeterminate								
	■FFR ≤0.80 in both vessels								
Pro	oximal LAD Involvement with Diabetes Pr	resent							
13.	Low-risk findings on noninvasive	M (4)	M (5)	M (4)	M (6)	M (6)	A (7)	A (7)	A (8)
	testing								
14.	Intermediate- or high-risk findings on	M (5)	A (7)	M (6)	A (7)	A (7)	A (8)	A (8)	A (9)
	noninvasive testing								
15.	■ No stress test performed or, if performed,	M (5)	M (6)	M (6)	A (7)	A (7)	A (8)	A (7)	A (8)
	results are indeterminate								
	n FFR ≤0.80 in both vessels*								

The number in parentheses next to the rating reflects the median score for that indication. \*iFR measurements with appropriate normal ranges may be substituted for FFR.

A indicates appropriate; AA, antianginal; BB, beta blockers; CABG, coronary artery bypass graft; FFR, fractional flow reserve; iFR, instant wave-free ratio; LAD, left anterior descending coronary

artery; M, may be appropriate; PCI, percutaneous coronary intervention; and R, rarely appropriate.

#### Table PG3.3 Three-Vessel Disease

Appropriate Use Score (1-9) Three-Vessel Disease								
		Asympto	matic		lse	chemic S	ympto	ms
	Not c Therapy AA Th	on AA or With erapy	Not o The	on AA rapy	On 1 A (BB Pre	A Drug eferred)	On ≌ Dr	≥2 AA ugs
Indication	PCI	CABG	PCI	CABG	PCI	CABG	PCI	CABG
Low Disease Complexity (e.g., Focal Stenos	is, SYNTA	X <b>≤</b> 22)						
<ul> <li>■ Low-risk findings on noninvasive testing</li> <li>■ No diabetes</li> </ul>	M (4)	M (5)	M (5)	M (5)	M (6)	M (6)	A (7)	A (7)
<ul> <li>17. ■ Intermediate- or high-risk findings on noninvasive testing</li> <li>■ No diabetes</li> </ul>	M (6)	A (7)	A (7)	A (7)	A (7)	A (8)	A (8)	A (8)
<ul> <li>18. ■ Low-risk findings on noninvasive testing</li> <li>■ Diabetes present</li> </ul>	M (4)	M (6)	M (5)	M (6)	M (6)	A (7)	A (7)	A (8)

#### Table PG3.3 Three-Vessel Disease (Cont.)

#### Appropriate Use Score (1-9)

Three-Vessel Disease								
		Asympto	omatic		lso	chemic S	ymptor	ns
	Not on AA Therapy or With AA Therapy		Not o The	on AA On 1 A rapy (BB Pr		A Drug eferred)	On ≧ Dru	2 AA Jgs
Indication	PCI	CABG	PCI	CABG	PCI	CABG	PCI	CABG
Low Disease Complexity (e.g., Focal Stenos	is, SYNTA	X <b>≤</b> 22)						
<ul> <li>19. ■ Intermediate- or high-risk findings on noninvasive testing</li> <li>■ Diabetes present</li> </ul>	M (6)	A (7)	M (6)	A (8)	A (7)	A (8)	A (7)	A (9)
Intermediate or High Disease Complexity ( SYNTAX >22)	e.g. Multip	ole Featu	res of Co	omplexi	ty as No	ted Prev	iously,	
<ul> <li>20. ■ Low-risk findings on noninvasive testing</li> <li>■ No diabetes</li> </ul>	M (4)	M (6)	M (4)	A (7)	M (5)	A (7)	M (6)	A (8)
<ul> <li>21. ■ Intermediate- or high-risk findings on noninvasive testing</li> <li>■ No diabetes</li> </ul>	M (5)	A (7)	M (6)	A (7)	M (6)	A (8)	M (6)	A (9)
<ul><li>22. ■ Low-risk findings on noninvasive testing</li><li>■ Diabetes present</li></ul>	M (4)	A (7)	M (4)	A (7)	M (5)	A (8)	M (6)	A (9)
<ul> <li>23. ■ Intermediate- or high-risk findings on noninvasive testing</li> <li>■ Diabetes present</li> </ul>	M (4)	A (8)	M (5)	A (8)	M (5)	A (8)	M (6)	A (9)

The number in parentheses next to the rating reflects the median score for that indication. A indicates appropriate; AA = antianginal; BB = beta blockers; CABG = coronary artery bypass graft; M = may be appropriate; PCI = percutaneous coronary intervention; and SYNTAX = Synergy between PCI with Taxus and

#### Table PG3.4 Left Main Coronary Artery Stenosis Appropriate Use Score (1-9)

#### Left Main Disease

Cardiac Surgery trial.

		Asympt	omatic		ls	chemic S	symptor	ns
	Not	on AA						
	There	apy or	Noto	on AA	On 1 A	A Drug	On ≥	2 AA
	W	ith	The	rapy	(BB Pro	eferred)	Dru	Jgs
	AA Therapy							
Indication	PCI	CABG	PCI	CABG	PCI	CABG	PCI	CABG
24. ■ Isolated LMCA disease	M (6)	A (8)	A (7)	A (8)	A (7)	A (9)	A (7)	A (9)
Ostial or midshaft stenosis								
25. ■ Isolated LMCA disease	M (5)	A (8)	M (5)	A (8)	M (5)	A (9)	M (6)	A (9)
Bifurcation involvement								
26. ■ LMCA disease	M (6)	A (8)	M (6)	A (9)	A (7)	A (9)	A (7)	A (9)
Ostial or midshaft stenosis								
Concurrent multivessel disease								
■ Low disease burden (e.g., 1–2 additional								
focal stenosis, SYNTAX score >22)								
27. ■ Ostial or midshaft stenosis	M (4)	A (9)	M (4)	A (9)	M (4)	A (9)	M (4)	A (9)
Concurrent multivessel disease								
Intermediate or high disease burden								
(e.g., 1–2 additional bifurcation stenosis, long								
stenosis, SYNTAX score >22)								
28. ■ LMCA disease	M (4)	A (8)	M (5)	A (8)	M (5)	A (9)	M (6)	A (9)
Bifurcation involvement								
Low disease burden in other vessels (e.g.,								
1–2 additional focal stenosis, SYNTAX score								
<i>≤</i> 22)								

### Table PG3.4 Left Main Coronary Artery Stenosis (Cont.) Appropriate Use Score (1-9)

Left Main Disease								
		Asympt	omatic		ls	chemic S	Symptoi	ns
	Not	on AA						
	Therapy or		Note	on AA	On 1 A	On 1 AA Drug		2 AA
	With		The	rapy	(BB Preferred)		Drugs	
	AA Therapy				, i i			
Indication	PCI	CABG	PCI	CABG	PCI	CABG	PCI	CABG
29. ■ LMCA disease	R (3)	A (8)	R (3)	A (9)	R (3)	A (9)	R (3)	A (9)
Bifurcation involvement								
Intermediate or high disease burden in								
other vessels (e.g., 1–2 additional bifurcation steposis, long steposis, SYNTAX score >22)								

The number in parentheses next to the rating reflects the median score for that indication. A indicates appropriate; AA = antianginal; BB = beta blockers; CABG = coronary artery bypass graft; LMCA = left main coronary artery; M = may be appropriate; PCI = percutaneous coronary intervention; R = rarely appropriate; and SYNTAX = Synergy between PCI with Taxus and Cardiac Surgery trial.

# Table PG4.1 Internal Mammary Artery to Left Anterior Descending Coronary Artery Patent and without Significant Stenosis

		Asympt	omatic		ls	chemic S	ymptoi	ms
	Not	on AA						
	There	apy or	Not	on AA	On 1 A	A Drug	On ≧	≥2 AA
	W	'ith	The	rapy	(BB Pre	eferred)	Dr	ugs
	AA Th	nerapy						
Indication	PCI	CABG	PCI	CABG	PCI	CABG	PCI	CABG
Stenosis Supplying 1 Territory Disease (Bypass Graft or Native Artery) to Territory Other Than Anterior								
30. ■ Low-risk findings on noninvasive testing	R (3)	R (1)	R (3)	R (2)	M (6)	R (3)	A (7)	M (4)
31. ■ Intermediate- or high-risk findings on	M (5)	R (3)	M (5)	R (3)	A (7)	M (4)	A (8)	M (5)
noninvasive testing								
32. ■ No stress test performed or, if	M (4)	R (3)	M (4)	R (3)	M (6)	M (4)	A (8)	M (5)
performed, results are indeterminate								
■ FFR ≤ 0.80*								
Stenosis Supplying 2 Territories (Bypass Graft	t or Nati	ive Artery	, Either	2 Separ	ate Ves	sels or Se	quenti	al Graft
Supplying 2 Territories) Not Including Anterio	r Territo	ry						

33. ■ Low-risk findings on noninvasive testing	R (3)	R (2)	M (4)	R (3)	M (6)	R (3)	A (7)	M (5)
34. ■ Intermediate- or high-risk findings on	M (5)	R (3)	M (5)	M (4)	A (7)	M (5)	A (8)	M (6)
noninvasive testina								

The number in parentheses next to the rating reflects the median score for that indication. \*iFR measurements with appropriate normal ranges may be substituted for FFR.

A indicates appropriate; AA = antianginal; BB = beta blockers; CABG = coronary artery bypass graft; FFR = fractional flow reserve; iFR = instant wave-free ratio; IMA = internal mammary artery; LAD = left anterior descending coronary artery; LCX = left circumflex artery; M = may be appropriate; PCI = percutaneous coronary intervention; and R = rarely appropriate.

#### Table PG4.2 Internal Mammary Artery to Left Anterior Descending Coronary Artery Not Patent Appropriate Use Score (1-9)

	Asymptomatic				ls	chemic Symptoms			
	Not on AA								
	There	Therapy or		Not on AA		On 1 AA Drug		2 AA	
	W	ïth	Ther	apy	(BB Preferred)		Dr	ugs	
	AA Th	nerapy							
Indication	PCI	CABG	PCI	CABG	PCI	CABG	PCI	CABG	
Stenosis Supplying 1 Territory Disease (Bypass Graft or Native Artery)–Anterior (LAD) Territory									
35. ■ Low-risk findings on noninvasive testing	M (5)	R (3)	M (5)	R (3)	M (6)	M (4)	A (7)	M (5)	
36. ■ Intermediate- or high-risk findings on	M (6)	M (4)	M (6)	M (4)	A (7)	M (5)	A (8)	M (6)	
noninvasive testing									
37. ■ No stress test performed or, if	M (5)	M (4)	M (6)	M (4)	A (7)	M (5)	A (8)	M (6)	
performed, results are indeterminate									
■ FFR ≤ 0.80*									
Stenosis Supplying 2 Territories (Bypass Graf	t or Nati	ive Artery	, Either	2 Separ	ate Ves	sels or Se	equenti	al Graft	
Supplying 2 Territories) LAD Plus Other Territory									
38. ■ Low-risk findings on noninvasive testing	M (5)	M (4)	M (6)	M (4)	A (7)	M (5)	A (7)	M (6)	
39. ■ Intermediate- or high-risk findings on	M (6)	M (5)	A (7)	M (6)	A (7)	A (7)	A (8)	A (8)	
noninvasive testing									
Stenosis Supplying 3 Territories (Bypass Graf	t or Nat	ive Arteri	ies, Sepc	arate Ve	ssels, Se	equential	Grafts	, or	
Combination Thereof) LAD Plus 2 Other Territories									
40. ■ Low-risk findings on noninvasive testing	M (5)	M (5)	M (6)	M (5)	M (6)	M (6)	A (7)	A (7)	
41. ■ Intermediate- or high-risk findings on	A (7)	A (7)	A (7)	A (7)	A (7)	A (7)	A (8)	A (8)	
noninvasive testing									
The number in parentheses next to the rating reflects the median score for that indication. *iFR measurements									

with appropriate normal ranges may be substituted for FFR.

A indicates appropriate; AA = antianginal; BB = beta blockers; CABG = coronary artery bypass graft; FFR = fractional flow reserve; iFR = instant wave-free ratio; IMA = internal mammary artery; LAD = left anterior descending coronary artery; LCX = left circumflex artery; M = may be appropriate; PCI = percutaneous coronary intervention; and R = rarely appropriate.

#### Table PG5.1 Stable Ischemic Heart Disease Undergoing Procedures for Which Coronary Revascularization May Be Considered

Appropriate Use Score (1-9)

	A	Asymptomatic				Ischemic Symptoms			
	Not o	n AA							
	Thera	py or	Not on AA		On 1 AA Drug		On ≥2 AA		
	Wi	th	Therapy		(BB Preferred)		Drugs		
	AA The	erapy							
Indication	PCI	CABG	PCI	CABG	PCI	CABG	PCI	CABG	
Patients Undergoing Renal Transplantation, No I	Diabetes								
42. ■ One- or two-vessel CAD, no proximal LAD	R (3)	R (2)	Μ	R (3)	M (6)	M (4)	A (7)	M (5)	
involvement, with low-risk noninvasive findings			(4)						
43. ■ One- or two-vessel CAD, no proximal LAD	M (5)	M (4)	М	M (5)	A (7)	M (5)	A (8)	M (6)	
involvement, with intermediate- or high-risk			(6)						
noninvasive findings									
44. ■ One- or two-vessel CAD, including proximal	M (5)	M (4)	Μ	M (5)	M (6)	M (6)	A (8)	A (7)	
LAD, with low-risk noninvasive findings			(6)						
45. ■ One- or two-vessel CAD, including proximal	M (6)	M (6)	A (7)	A (7)	A (7)	A (7)	A (8)	A (8)	
LAD, with intermediate- or high-risk noninvasive									
findings									
46. ■ Left main and/or three-vessel disease, with	M (6)	A (7)	A (7)	A (7)	A (7)	A (7)	A (8)	A (8)	
intermediate- or high-risk noninvasive findings									
(e.g., SYNTAX <i>≤</i> 22)									
47. ■ Left main and/or three-vessel disease, with	M (5)	A (7)	Μ	A (8)	M (6)	A (8)	M (6)	A (9)	
intermediate- or high-risk noninvasive findings			(6)						
(e.g., SYNTAX >22)									

#### Table PG5.1 Stable Ischemic Heart Disease Undergoing Procedures for Which Coronary Revascularization May Be Considered (Cont.) Appropriate Use Score (1-9)

		Asympto	omatic		Ischemic Symptoms			
		Not on AA Therapy or With AA Therapy		Not on AA Therapy		On 1 AA Drug (BB Preferred)		⊧2 AA ugs
Indication	PCI	CABG	PCI	CABG	PCI	CABG	PCI	CABG
Patients Undergoing Renal Transplantation, Dic	betes	Present						
48. ■ One- or two-vessel CAD, no proximal LAD involvement, with low-risk noninvasive findings	R (3)	R (3)	M (4)	R (3)	M (5)	M (4)	A (7)	M (6)
49. ■ One- or two-vessel CAD, no proximal LAD involvement, with intermediate- or high-risk noninvasive findings	M (5)	M (4)	M (5)	M (4)	M (6)	M (5)	A (7)	A (7)
50. ■ One- or two-vessel CAD, including proximal LAD, with low-risk noninvasive findings	M (5)	M (5)	M (5)	M (6)	M (5)	A (7)	A (7)	A (7)
51. ■ One- or two-vessel CAD, including proximal LAD, with intermediate- or high-risk noninvasive findings	M (6)	M (6)	M (6)	A (7)	M (6)	A (7)	A (7)	A (8)
52. ■ Left main and/or three-vessel disease, with intermediate- or high-risk noninvasive findings (e.g., SYNTAX ≤22)	M (6)	A (8)	M (6)	A (8)	M (6)	A (8)	A (7)	A (9)
53. ■ Left main and/or three-vessel disease, with intermediate- or high-risk noninvasive findings (e.g., SYNTAX >22)	M (5)	A (8)	M (5)	A (8)	M (5)	A (9)	M (5)	A (9)
Patient Who Will Undergo a Percutaneous Valve	e Proce	edure (TA	VR, Mit	raClip, (	Others)			
54. ■ One- or two-vessel CAD, no proximal LAD involvement, with low-risk noninvasive findings	M (4)		M (4)		M (6)		A (8)	
55. ■ One- or two-vessel CAD, no proximal LAD involvement, with intermediate- or high-risk noninvasive findings	A (7)		A (7)		A (7)		A (8)	
56. ■ One- or two-vessel CAD, including proximal LAD, with low-risk noninvasive findings	M (6)		M (6)		A (7)		A (8)	
57. ■ One- or two-vessel CAD, including proximal LAD, with intermediate- or high-risk noninvasive findings	A (7)		A (7)		A (8)		A (9)	
<ul> <li>58. ■ Left main and/or three-vessel disease, with intermediate- or high-risk noninvasive findings (e.g., SYNTAX ≤22)</li> </ul>	A (8)		A (8)		A (8)		A (9)	
59. ■ Left main and/or three-vessel disease, with intermediate- or high-risk noninvasive findings (e.g., SYNTAX >22)	A (7)		A (7)		A (8)		A (9)	

The number in parentheses next to the rating reflects the median score for that indication. \*iFR measurements with appropriate normal ranges may be substituted for FFR.

A indicates appropriate; AA = antianginal; BB, beta blockers; CABG = coronary artery bypass graft; CAD = coronary artery disease; LAD = left anterior descending coronary artery; M = may be appropriate; PCI = percutaneous coronary intervention; and R = rarely appropriate; SYNTAX = Synergy between PCI with Taxus and Cardiac Surgery trial; and TAVR, transcatheter aortic valve replacement.

#### Syntax Scores

The SYNTAX Score is based on the SYNTAX (Synergy between PCI with TAXUS drug-eluting stent and Cardiac Surgery) trial, which was designed to compare revascularization with either CABG or PCI using paclitaxel-eluting stents for three-vessel disease or left main disease (either isolated left main disease or left main disease with one-, two-, or three-vessel disease involving other arteries). Based on review of coronary angiographic studies, the SYNTAX score considers 11 measures of coronary lesion complexity, including location of lesion, coronary arterial system dominance, length of lesions,

**BSC6.02** Elective Percutaneous Coronary Intervention (PCI) Page 12 of 23

presence of heavy calcification, thrombus, total occlusion or diffuse disease, number of diseased segments, vessel tortuosity, and location at a bifurcation, trifurcation or aorto-ostial locus. The SYNTAX trial results indicated that, for more severe CAD (SYNTAX scores greater than 22 for three-vessel or left main coronary disease), CABG offered a survival advantage over PCI, and it reduced the need for a repeat intervention and overall adverse cardiovascular events up to 4 years after revascularization.

#### Coding

The following list of CPT and HCPCS codes may be used for different types of coronary revascularization utilizing percutaneous coronary intervention, but this list of codes may not be all inclusive:

#### CPT

- **92920:** Percutaneous transluminal coronary angioplasty; single major coronary artery or branch
- **92921:** Percutaneous transluminal coronary angioplasty; each additional branch of a major coronary artery (List separately in addition to code for primary procedure)
- **92924:** Percutaneous transluminal coronary atherectomy, with coronary angioplasty when performed; single major coronary artery or branch
- **92925**: Percutaneous transluminal coronary atherectomy, with coronary angioplasty when performed; each additional branch of a major coronary artery (List separately in addition to code for primary procedure)
- **92928:** Percutaneous transcatheter placement of intracoronary stent(s), with coronary angioplasty when performed; single major coronary artery or branch
- **92929**: Percutaneous transcatheter placement of intracoronary stent(s), with coronary angioplasty when performed; each additional branch of a major coronary artery (List separately in addition to code for primary procedure)
- **92933:** Percutaneous transluminal coronary atherectomy, with intracoronary stent, with coronary angioplasty when performed; single major coronary artery or branch
- **92934:** Percutaneous transluminal coronary atherectomy, with intracoronary stent, with coronary angioplasty when performed; each additional branch of a major coronary artery (List separately in addition to code for primary procedure)
- **92937:** Percutaneous transluminal revascularization of or through coronary artery bypass graft (internal mammary, free arterial, venous), any combination of intracoronary stent, atherectomy and angioplasty, including distal protection when performed; single vessel
- **92938**: Percutaneous transluminal revascularization of or through coronary artery bypass graft (internal mammary, free arterial, venous), any combination of intracoronary stent, atherectomy and angioplasty, including distal protection when performed; each additional branch subtended by the bypass graft (List separately in addition to code for primary procedure)
- **92941:** Percutaneous transluminal revascularization of acute total/subtotal occlusion during acute myocardial infarction, coronary artery or coronary artery bypass graft, any combination of intracoronary stent, atherectomy and angioplasty, including aspiration thrombectomy when performed, single vessel
- **92943:** Percutaneous transluminal revascularization of chronic total occlusion, coronary artery, coronary artery branch, or coronary artery bypass graft, any combination of intracoronary stent, atherectomy and angioplasty; single vessel
- **92944:** Percutaneous transluminal revascularization of chronic total occlusion, coronary artery, coronary artery branch, or coronary artery bypass graft, any combination of intracoronary stent, atherectomy and angioplasty; each additional coronary artery, coronary artery branch, or bypass graft (List separately in addition to code for primary procedure)
- **92978:** Endoluminal imaging of coronary vessel or graft using intravascular ultrasound (IVUS) or optical coherence tomography (OCT) during diagnostic evaluation and/or therapeutic

intervention including imaging supervision, interpretation and report; initial vessel (List separately in addition to code for primary procedure)

• **92979:** Endoluminal imaging of coronary vessel or graft using intravascular ultrasound (IVUS) or optical coherence tomography (OCT) during diagnostic evaluation and/or therapeutic intervention including imaging supervision, interpretation and report; each additional vessel (List separately in addition to code for primary procedure)

#### HCPCS

- **C9600**: Percutaneous transcatheter placement of drug eluting intracoronary stent(s), with coronary angioplasty when performed; single major coronary artery or branch
- **C9601:** Percutaneous transcatheter placement of drug-eluting intracoronary stent(s), with coronary angioplasty when performed; each additional branch of a major coronary artery (list separately in addition to code for primary procedure)
- **C9602:** Percutaneous transluminal coronary atherectomy, with drug eluting intracoronary stent, with coronary angioplasty when performed; single major coronary artery or branch
- **C9603**: Percutaneous transluminal coronary atherectomy, with drug-eluting intracoronary stent, with coronary angioplasty when performed; each additional branch of a major coronary artery (list separately in addition to code for primary procedure)
- **C9604**: Percutaneous transluminal revascularization of or through coronary artery bypass graft (internal mammary, free arterial, venous), any combination of drug-eluting intracoronary stent, atherectomy and angioplasty, including distal protection when performed; single vessel
- **C9605**: Percutaneous transluminal revascularization of or through coronary artery bypass graft (internal mammary, free arterial, venous), any combination of drug-eluting intracoronary stent, atherectomy and angioplasty, including distal protection when performed; each additional branch subtended by the bypass graft (list separately in addition to code for primary procedure)
- **C9607**: Percutaneous transluminal revascularization of chronic total occlusion, coronary artery, coronary artery branch, or coronary artery bypass graft, any combination of drug-eluting intracoronary stent, atherectomy and angioplasty; single vessel
- **C9608**: Percutaneous transluminal revascularization of chronic total occlusion, coronary artery, coronary artery branch, or coronary artery bypass graft, any combination of drugeluting intracoronary stent, atherectomy and angioplasty; each additional coronary artery, coronary artery branch, or bypass graft (list separately in addition to code for primary procedure)

#### Description

Percutaneous coronary interventions (PCI) is a non-surgical procedure used to treat narrowing (stenosis) of the coronary arteries of the heart found in coronary artery disease. After accessing the blood stream through the femoral or radial artery, the procedure uses coronary catheterization to visualize the blood vessels on X-ray imaging, which allows an interventional cardiologist to perform a coronary angioplasty, using a balloon catheter in which a deflated balloon is advanced into the obstructed artery and inflated to relieve the narrowing, performed with or without coronary stent implantation.

#### **Related Policies**

• Cardiac Applications of Positron Emission Tomography Scanning

#### **Benefit Application**

Benefit determinations should be based in all cases on the applicable contract language. To the extent there are any conflicts between these guidelines and the contract language, the contract language will control. Please refer to the member's contract benefits in effect at the time of service to determine coverage or non-coverage of these services as it applies to an individual member.

Some state or federal mandates (e.g., Federal Employee Program [FEP]) prohibits plans from denying Food and Drug Administration (FDA)-approved technologies as investigational. In these instances, plans may have to consider the coverage eligibility of FDA-approved technologies on the basis of medical necessity alone.

#### **Regulatory Status**

Percutaneous coronary interventions (PCI) are surgical procedures, therefore are not regulated by the U.S. Food and Drug Administration (FDA).

#### Rationale

#### Background

The medical necessity criteria outlined in this document govern the appropriate use of non-emergent coronary revascularizations in general, but focus on non-emergent percutaneous coronary interventions (PCI) in particular.

Percutaneous coronary interventions (PCI) are non-surgical procedures performed using vascular access through skin which restores patency of diseased coronary arteries, performed with or without coronary stent implantation. For the sake of this policy, this includes coronary atherectomy for the treatment of coronary artery disease (CAD). Elective surgical revascularization procedures, (e.g., coronary artery bypass grafting [CABG] procedures), if reviewed, must meet these elective coronary revascularization criteria, and also meet appropriateness criteria for use of the surgical approach (see Policy Guidelines section).

#### This medical policy is not intended to address PCI for acute coronary syndrome (ACS).

Acute indications for PCI are defined as those performed in the setting of an acute coronary syndrome, including all myocardial infarctions (ST-segment elevation and non– ST-segment elevation), as well as unstable angina (see Policy Guidelines section).<sup>7</sup> Findings from studies comparing PCI with coronary bypass grafting (CABG) suggest that in most patients with acute CAD with multi-vessel disease or isolated proximal left anterior stenosis amenable to either treatment, CABG led to a significantly lower long-term incidence of ischemic events and the need for repeat interventions. CABG is recommended for patients with more severe disease involving large areas of the myocardium supplied by occluded vessels or significant left main coronary artery disease.

This medical policy is principally derived guidance from a 2017 report of the American College of Cardiology Appropriate Use Criteria Task Force (ACC), American Association for Thoracic Surgery (AATS), American Heart Association (AHA), American Society of Echocardiography (ASE), American Society of Nuclear Cardiology (ASNC), Society for Cardiovascular Angiography Interventions (SCAI), Society of Cardiovascular Computed Tomography (SCCT), Society of Thoracic Surgeons (STS), **Appropriate Use Criteria (AUC) for Coronary Revascularization in Patients with Stable Ischemic Heart Disease (SIHD)**, as published in the Journal of the American College of Cardiology.<sup>1</sup>

#### **Literature Review**

Optimal antianginal medical therapy is defined as the use of at least 2 classes of therapies to reduce anginal symptoms. ACC/AHA guidelines suggest that beta-blockers should be considered as initial

**BSC6.02** Elective Percutaneous Coronary Intervention (PCI) Page 15 of 23

therapy for chronic stable angina. Current practice guidelines indicate low-risk patients with chronic stable angina should be treated initially with optimal medical therapy (OMT) and lifestyle modification.<sup>26-31</sup>

Current guidelines for the management of stable angina emphasize risk factor modification, namely smoking cessation, exercise, diabetes mellitus management, lipid lowering, antianginal, and antihypertensive therapies. Despite the best efforts of the clinician, all patients may not achieve target goals for risk factor modification. However, a plan of care to address risk factors is assumed to be occurring in patients represented in the indications.<sup>31</sup>

Hospitals and clinicians are encouraged to contribute PCI data to a national Cardiovascular Data Registry (The NCDR CathPCI Registry).

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#### Documentation for Clinical Review

#### Please provide the following documentation:

- History and physical and/or consultation notes including:
  - Angina description (Canadian Cardiovascular Society Grading of Angina Pectoris, Class I, II, III or IV)
  - Documentation of 1 or more severe (greater than or equal to 70% diameter) epicardial (non-left main) artery or intermediate (50 to 69% diameter) left main coronary artery stenosis detected by diagnostic coronary angiography, or with a Fractional Flow Reserve (FFR) using Coronary Computed Tomography Angiography (CCTA) of less than or equal to 0.80
- 2017 "Appropriate Use Criteria for Coronary Revascularization" (AUC) score documented by the requesting provider
  - If the AUC score is 7 9 ("appropriate use"), (the cardiologist must document the score and indication in the medical records)

- If the AUC score is 4 6 ("may be appropriate") or 1 3 ("rarely appropriate"), the cardiologist must also include a brief narrative describing the clinical scenario(s) justifying the revascularization procedure. Clinical risk factors which may support the procedure include one or more of the following:
  - Unusual location of obstruction(s), unusual coronary anatomy, or unusual flow dynamics noted by the cardiologist
  - Intercurrent cardiac disease (e.g., congestive heart failure, myocardial disease, arrhythmia, valvular disease)
  - Current or recent smoking history (within one year)
  - Cardiologist documentation of difficult-to-control uncontrolled hypertension on maximal therapy or uncontrolled dyslipidemia on maximal therapy
  - Diabetes mellitus with a first or second degree relative with premature coronary artery disease (i.e., age less than 65, MI or coronary intervention)
  - Strong family history of coronary artery disease
  - Prior PCI or CABG procedure
- Pertinent past procedural and surgical history
- Radiology report(s) (i.e., MRI, FFRCT, CCTA)

#### Post Service (in addition to the above, please include the following):

- In addition to the required Prior Authorization documentation, please include:
  - Results/reports of tests done to support the need for PCI
  - o Procedure report for PCI

#### Coding

This Policy relates only to the services or supplies described herein. Benefits may vary according to product design; therefore, contract language should be reviewed before applying the terms of the Policy.

The following codes are included below for informational purposes. Inclusion or exclusion of a code(s) does not constitute or imply member coverage or provider reimbursement policy. Policy Statements are intended to provide member coverage information and may include the use of some codes for clarity. The Policy Guidelines section may also provide additional information for how to interpret the Policy Statements and to provide coding guidance in some cases.

Туре	Code	Description
	02020	Percutaneous transluminal coronary angioplasty; single major coronary
	52520	artery or branch
		Percutaneous transluminal coronary angioplasty; each additional
	92921	branch of a major coronary artery (List separately in addition to code
		for primary procedure)
	92924	Percutaneous transluminal coronary atherectomy, with coronary
		angioplasty when performed; single major coronary artery or branch
С₽Т®		Percutaneous transluminal coronary atherectomy, with coronary
CFI	02025	angioplasty when performed; each additional branch of a major
92:	92925	coronary artery (List separately in addition to code for primary
		procedure)
		Percutaneous transcatheter placement of intracoronary stent(s), with
	92928	coronary angioplasty when performed; single major coronary artery or
		branch
	02020	Percutaneous transcatheter placement of intracoronary stent(s), with
92929		coronary angioplasty when performed; each additional branch of a

Туре	Code	Description
		major coronary artery (List separately in addition to code for primary
		procedure)
	-	Percutaneous transluminal coronary atherectomy, with intracoronary
	92933	stent, with coronary angioplasty when performed; single major
		coronary artery or branch
	-	Percutaneous transluminal coronary atherectomy, with intracoronary
	0207/	stent, with coronary angioplasty when performed; each additional
	92954	branch of a major coronary artery (List separately in addition to code
		for primary procedure)
	-	Percutaneous transluminal revascularization of or through coronary
	02077	artery bypass graft (internal mammary, free arterial, venous), any
	92957	combination of intracoronary stent, atherectomy and angioplasty,
		including distal protection when performed; single vessel
		Percutaneous transluminal revascularization of or through coronary
		artery bypass graft (internal mammary, free arterial, venous), any
	02079	combination of intracoronary stent, atherectomy and angioplasty,
	92950	including distal protection when performed; each additional branch
		subtended by the bypass graft (List separately in addition to code for
		primary procedure)
		Percutaneous transluminal revascularization of acute total/subtotal
		occlusion during acute myocardial infarction, coronary artery or
	92941	coronary artery bypass graft, any combination of intracoronary stent,
		atherectomy and angioplasty, including aspiration thrombectomy
		when performed, single vessel
		Percutaneous transluminal revascularization of chronic total occlusion,
	020/.7	coronary artery, coronary artery branch, or coronary artery bypass
	92945	graft, any combination of intracoronary stent, atherectomy and
		angioplasty; single vessel
		Percutaneous transluminal revascularization of chronic total occlusion,
		coronary artery, coronary artery branch, or coronary artery bypass
	929/1/1	graft, any combination of intracoronary stent, atherectomy and
	52544	angioplasty; each additional coronary artery, coronary artery branch,
		or bypass graft (List separately in addition to code for primary
		procedure)
		Endoluminal imaging of coronary vessel or graft using intravascular
		ultrasound (IVUS) or optical coherence tomography (OCT) during
	92978	diagnostic evaluation and/or therapeutic intervention including
		imaging supervision, interpretation and report; initial vessel (List
		separately in addition to code for primary procedure)
		Endoluminal imaging of coronary vessel or graft using intravascular
		ultrasound (IVUS) or optical coherence tomography (OCT) during
	92979	diagnostic evaluation and/or therapeutic intervention including
		imaging supervision, interpretation and report; each additional vessel
		(List separately in addition to code for primary procedure)
	C1874	Stent, coated/covered, with delivery system
		Percutaneous transcatheter placement of drug eluting intracoronary
	C9600	stent(s), with coronary angioplasty when performed; single major
HCPCS		coronary artery or branch
		Percutaneous transcatheter placement of drug-eluting intracoronary
	C9601	stent(s), with coronary angioplasty when performed; each additional
		branch of a major coronary artery (list separately in addition to code
		for primary procedure)

Туре	Code	Description
		Percutaneous transluminal coronary atherectomy, with drug eluting
	C9602	intracoronary stent, with coronary angioplasty when performed; single
		major coronary artery or branch
		Percutaneous transluminal coronary atherectomy, with drug-eluting
	C9603	intracoronary stent, with coronary angioplasty when performed; each
	0000	additional branch of a major coronary artery (list separately in addition
		to code for primary procedure)
		Percutaneous transluminal revascularization of or through coronary
	C9604	artery bypass graft (internal mammary, free arterial, venous), any
	0,000	combination of drug-eluting intracoronary stent, atherectomy and
		angioplasty, including distal protection when performed; single vessel
		Percutaneous transluminal revascularization of or through coronary
		artery bypass graft (internal mammary, free arterial, venous), any
	C9605	combination of drug-eluting intracoronary stent, atherectomy and
	23003	angioplasty, including distal protection when performed; each
		additional branch subtended by the bypass graft (list separately in
		addition to code for primary procedure)
		Percutaneous transluminal revascularization of chronic total occlusion,
	C9607	coronary artery, coronary artery branch, or coronary artery bypass
	0,000	graft, any combination of drug-eluting intracoronary stent,
		atherectomy and angioplasty; single vessel
		Percutaneous transluminal revascularization of chronic total occlusion,
		coronary artery, coronary artery branch, or coronary artery bypass
	C9608	graft, any combination of drug-eluting intracoronary stent,
	25000	atherectomy and angioplasty; each additional coronary artery,
		coronary artery branch, or bypass graft (list separately in addition to
		code for primary procedure)

#### Policy History

This section provides a chronological history of the activities, updates and changes that have occurred with this Medical Policy.

Effective Date	Action
04/17/2017	Custom Policy
12/01/2017	Policy revision without position change
02/01/2018	Policy revision without position change
	Title change from Elective Revascularization Utilizing Percutaneous Coronary
02/01/2019	Intervention for Non-Acute, Stable Coronary Artery Disease
	Policy revision without position change
10/01/2019	Administrative update
12/01/2019	Policy revision without position change
0/1/2020	Annual review. Policy statement, guidelines, and documentation for clinical
04/01/2020	review updated. Coding update.
04/01/2021	Annual review. No change to policy statement.
05/01/2022	Annual review. Policy guidelines updated.
11/01/2022	Policy statement and guidelines updated.
12/01/2022	Administrative update. Policy statement, guidelines and literature updated.
09/01/2023	Annual review. Policy statement and guidelines updated.

#### **Definitions of Decision Determinations**

**Medically Necessary:** Services that are Medically Necessary include only those which have been established as safe and effective, are furnished under generally accepted professional standards to treat illness, injury or medical condition, and which, as determined by Blue Shield, are: (a) consistent with Blue Shield medical policy; (b) consistent with the symptoms or diagnosis; (c) not furnished primarily for the convenience of the patient, the attending Physician or other provider; (d) furnished at the most appropriate level which can be provided safely and effectively to the patient; and (e) not more costly than an alternative service or sequence of services at least as likely to produce equivalent therapeutic or diagnostic results as to the diagnosis or treatment of the Member's illness, injury, or disease.

**Investigational/Experimental:** A treatment, procedure, or drug is investigational when it has not been recognized as safe and effective for use in treating the particular condition in accordance with generally accepted professional medical standards. This includes services where approval by the federal or state governmental is required prior to use, but has not yet been granted.

**Split Evaluation**: Blue Shield of California/Blue Shield of California Life & Health Insurance Company (Blue Shield) policy review can result in a split evaluation, where a treatment, procedure, or drug will be considered to be investigational for certain indications or conditions, but will be deemed safe and effective for other indications or conditions, and therefore potentially medically necessary in those instances.

#### Prior Authorization Requirements and Feedback (as applicable to your plan)

Within five days before the actual date of service, the provider must confirm with Blue Shield that the member's health plan coverage is still in effect. Blue Shield reserves the right to revoke an authorization prior to services being rendered based on cancellation of the member's eligibility. Final determination of benefits will be made after review of the claim for limitations or exclusions.

Questions regarding the applicability of this policy should be directed to the Prior Authorization Department at (800) 541-6652, or the Transplant Case Management Department at (800) 637-2066 ext. 3507708 or visit the provider portal at <u>www.blueshieldca.com/provider</u>.

We are interested in receiving feedback relative to developing, adopting, and reviewing criteria for medical policy. Any licensed practitioner who is contracted with Blue Shield of California or Blue Shield of California Promise Health Plan is welcome to provide comments, suggestions, or concerns. Our internal policy committees will receive and take your comments into consideration.

For utilization and medical policy feedback, please send comments to: MedPolicy@blueshieldca.com

Disclaimer: This medical policy is a guide in evaluating the medical necessity of a particular service or treatment. Blue Shield of California may consider published peer-reviewed scientific literature, national guidelines, and local standards of practice in developing its medical policy. Federal and state law, as well as contract language, including definitions and specific contract provisions/exclusions, take precedence over medical policy and must be considered first in determining covered services. Member contracts may differ in their benefits. Blue Shield reserves the right to review and update policies as appropriate.

## Appendix A

POLICY STATEMENT						
BEFORE	AFTER					
<u>Red font</u> : Verbiage removed	Blue font: Verbiage Changes/Additions					
Elective Percutaneous Coronary Intervention (PCI) BSC6.02	Elective Percutaneous Coronary Intervention (PCI) BSC6.02					
<b>Policy Statement:</b> The medical necessity criteria outlined in this document govern the appropriate use of non-emergent coronary revascularizations in general but focuses on non-emergent percutaneous coronary interventions (PCI) in particular.	<b>Policy Statement:</b> The medical necessity criteria outlined in this document govern the appropriate use of non-emergent coronary revascularizations in general but focuses on non-emergent percutaneous coronary interventions (PCI) in particular.					
This medical policy is not intended to address prior authorization of PCI for acute coronary syndrome (ACS) meeting the definitions as noted in the Policy Guidelines section below for more details. However, services provided without prior authorization (including inpatient care) are subject to post service review and are also subject to the criteria and definitions in this policy. Documentation of why the patient is thought to have ACS or other acute indications are required to meet criteria.	This medical policy is not intended to address prior authorization of PCI for acute coronary syndrome (ACS) meeting the definitions as noted in the Policy Guidelines section below for more details. However, services provided without prior authorization (including inpatient care) are subject to post service review and are also subject to the criteria and definitions in this policy. Documentation of why the individual is thought to have ACS or other acute indications are required to meet criteria.					
<ul> <li>I. Elective (NOT emergent) coronary revascularization utilizing percutaneous coronary intervention for non-acute, stable coronary artery disease may be considered medically necessary when both of the following criteria are met:</li> <li>A. Documentation of clinical evaluation includes all of the following<sup>2,3,4,5</sup>: <ol> <li>The patient exhibits chronic symptoms of Class I, II, III or IV angina (Canadian Cardiovascular Society [CCS] Grading of Angina Pectoris, Class I, II, III or IV, [see Policy Guidelines section]), that persist despite optimal antianginal medical therapy (OAMT;) (see Policy Guidelines section), as tolerated, which includes at minimum use of three of four anti-anginal classes of agents (i.e., beta blockers, calcium channel blockers, sodium channel blockers, nitrates)</li> </ol> </li> <li>2. Symptomatic individuals with 1 or more severe (greater than or equal to 70% diameter) epicardial (non-left main) artery or intermediate (50 to 69% diameter) left main coronary artery stenosis detected by diagnostic coronary</li> </ul>	<ul> <li>I. Elective (NOT emergent) coronary revascularization utilizing percutaneous coronary intervention for non-acute, stable coronary artery disease may be considered medically necessary when both of the following criteria are met:</li> <li>A. Documentation of clinical evaluation includes all of the following<sup>2,3,4,5</sup>:</li> <li>1. The individual exhibits chronic symptoms of Class I, II, III or IV angina (Canadian Cardiovascular Society [CCS] Grading of Angina Pectoris, Class I, II, III or IV, [see Policy Guidelines section]), that persist despite optimal antianginal medical therapy (OAMT;) (see Policy Guidelines section), as tolerated, which includes at minimum use of three of four anti-anginal classes of agents (i.e., beta blockers, calcium channel blockers, sodium channel blockers, nitrates)</li> <li>2. Symptomatic individuals with 1 or more severe (greater than or equal to 70% diameter) epicardial (non-left main) artery or intermediate (50 to 69% diameter) left main coronary artery stenosis detected by diagnostic coronary</li> </ul>					

POLICY STATEMENT						
BEFORE	AFTER					
<u>Red font</u> : Verbiage removed	Blue font: Verbiage Changes/Additions					
<ul> <li>angiography (see Policy Guidelines section), or with a Fractional Flow Reserve (FFR) using Coronary Computed Tomography Angiography (CCTA) of less than or equal to 0.80</li> <li>B. Utilizing the ACC/AATS/AHA/ASE/ASNC/SCAI/SCCT/STS 2017 Appropriate Use Criteria (AUC) for Coronary Revascularization in patients with Stable Ischemic Heart Disease (SIHD), a rated level of appropriateness and the specific clinical scenario (e.g., one-vessel disease, two-vessel disease, three-vessel disease, left main disease, SIHD with prior CABG) must be documented in the medical record: <ol> <li>The "appropriate use" score is rated level 7 – 9</li> <li>The "appropriate use" score is rated level is 4 – 6 ("may be appropriate") or 1 – 3 ("rarely appropriate") and includes a brief narrative in the medical record describing the clinical scenario(s) justifying the revascularization procedure. Clinical risk factors which may support the procedure include prior PCI or CABG procedure.</li> </ol> </li> </ul>	<ul> <li>angiography (see <u>Policy Guidelines</u> section), or with a Fractional Flow Reserve (FFR) using Coronary Computed Tomography Angiography (CCTA) of less than or equal to 0.80</li> <li>B. Utilizing the ACC/AATS/AHA/ASE/ASNC/SCAI/SCCT/STS 2017 Appropriate Use Criteria (AUC) for Coronary Revascularization in individuals with Stable Ischemic Heart Disease (SIHD), a rated level of appropriateness and the specific clinical scenario (e.g., one-vessel disease, two-vessel disease, three-vessel disease, left main disease, SIHD with prior CABG) must be documented in the medical record: <ol> <li>The "appropriate use" score is rated level 7 – 9</li> <li>The "appropriate use" score is rated level is 4 – 6 ("may be appropriate") or 1 – 3 ("rarely appropriate") and includes a brief narrative in the medical record describing the clinical scenario(s) justifying the revascularization procedure. Clinical risk factors which may support the procedure include prior PCI or CABG procedure.</li> </ol> </li> </ul>					
II. Elective coronary revascularization for non-acute, stable coronary artery disease is considered <b>not medically necessary</b> for all other indications, including if the <b>patient</b> is unwilling to comply with recommended medical therapy, or if the <b>patient</b> is unlikely to benefit from the proposed procedure (e.g., limited life expectancy from concomitant disease).	II. Elective coronary revascularization for non-acute, stable coronary artery disease is considered <b>not medically necessary</b> for all other indications, including if the individual is unwilling to comply with recommended medical therapy, or if the individual is unlikely to benefit from the proposed procedure (e.g., limited life expectancy from concomitant disease).					