MICHIGAN DEPARTMENT OF COMMUNITY HEALTH AND HUMAN SERVICES

CERTIFICATE OF NEED (CON) REVIEW STANDARDS FOR CARDIAC CATHETERIZATION SERVICES

(By authority conferred on the CON Commission by Section 22215 of Act No. 368 of the Public Acts of 1978, as amended, and sections 7 and 8 of Act No. 306 of the Public Acts of 1969, as amended, being sections 333.22215, 24.207 and 24.208 of the Michigan Compiled Laws.)

Section 1. Applicability

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Sec. 1. (1) These standards are requirements for approval of the initiation, replacement, expansion, or acquisition of cardiac catheterization services, and the delivery of these services under Part 222 of the Code. Pursuant to Part 222 of the Code, cardiac catheterization services are a covered clinical service. The Department shall use these standards in applying Section 22225(1) of the Code, being Section 333.22225(1) of the Michigan Compiled Laws and Section 22225(2)(c) of the Code, being Section 333.22225(2)(c) of the Michigan Compiled Laws.

Section 2. Definitions

Sec. 2. (1) For purposes of these standards:

(a) <u>"ADULT CARDIAC CATHETERIZATION SERVICE" MEANS PROVIDING CARDIAC</u>
 CATHETERIZATION SERVICES ON AN ORGANIZED, REGULAR BASIS TO PATIENTS AGE 18 AND
 ABOVE, AND FOR ELECTROPHYSIOLOGY PROCEDURES TO PATIENTS AGE 15 AND OLDER.
 (b) "Cardiac catheterization laboratory" or "laboratory" means an individual radiological room
 equipped with a variety of x-ray machines and devices such as electronic image intensifiers, high speed
 film changers and digital subtraction units to assist in performing diagnostic or therapeutic cardiac catheterizations or electrophysiology studies.

28 29 (bc) "Cardiac catheterization procedure" means any cardiac procedure, including diagnostic. 30 therapeutic, and electrophysiology studies, performed on a patient during a single session in a laboratory. 31 Cardiac catheterization is a medical diagnostic or therapeutic procedure during which a catheter is 32 inserted into a vein or artery in a patient; subsequently the free end of the catheter is manipulated by a 33 physician to travel along the course of the blood vessel into the chambers or vessels of the heart. X-rays 34 and an electronic image intensifier are used as aides in placing the catheter tip in the desired position. 35 When the catheter is in place, the physician is able to perform various diagnostic studies and/or 36 therapeutic procedures in the heart. This term does not include "float catheters" that are performed at the 37 bedside or in settings outside the laboratory or the implantation of cardiac permanent pacemakers and 38 implantable cardioverter defibrillators (ICD) devices that are performed in an interventional radiology 39 laboratory or operating room IN A LICENSED HOSPITAL. 40

(ed) "Cardiac catheterization service" means the provision of one or more of the following types of procedures: adult diagnostic cardiac catheterizations; adult therapeutic cardiac catheterizations; and pediatric/CONGENITAL cardiac catheterizations.

(e) "CARDIAC CATHETERIZATION SESSION" MEANS A CONTINUOUS TIME PERIOD DURING WHICH A PATIENT MAY UNDERGO ONE OR MORE DIAGNOSTIC OR THERAPEUTIC CARDIAC OR PERIPHERAL PROCEDURES IN A CARDIAC CATHETERIZATION LABORATORY. THE TERM SESSION APPLIES TO BOTH ADULT AND PEDIATRIC/CONGENITAL CATHETERIZATIONS.

(df) "Certificate of Need Commission" or "Commission" means the Commission created pursuant to Section 22211 of the Code, being Section 333.22211 of the Michigan Compiled Laws.

(eg) "Code" means Act No. 368 of the Public Acts of 1978, as amended, being Section 333.1101 et seq. of the Michigan Compiled Laws.

(h) "COMPLEX THERAPEUTIC SESSION" MEANS A CONTINUOUS TIME PERIOD DURING
 WHICH A PATIENT UNDERGOES ONE OR MORE OF THE FOLLOWING PROCEDURES:
 (i) PCI FOR CHRONIC TOTAL OCCLUSION

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54	(ii) TAVR, MITRAL/PULMONARY/TRICUSPID VALVE REPAIR OR REPLACEMENT,
55	PARAVALVULAR LEAK CLOSURE
56	(iii) ABLATION FOR ATRIAL FIBRILLATION (AF) OR VENTRICULAR TACHYCARDIA (VT),
57	PACEMAKER OR ICD LEAD EXTRACTION
58	(fi) "Department" means the Michigan Department of Community Health AND HUMAN SERVICES
59	(MD <mark>GH<u>HS</u>).</mark>
60	(j) "DIAGNOSTIC CARDIAC CATHETERIZATION PROCEDURE" INCLUDES RIGHT HEART
61	CATHETERIZATION, LEFT HEART CATHETERIZATION, CORONARY ANGIOGRAPHY, CORONARY
62	ARTERY BYPASS GRAFT ANGIOGRAPHY, INTRACORONARY ADMINISTRATION OF DRUGS,
63	FRACTIONAL FLOW RESERVE (FFR), INTRA-CORONARY IMAGING SUCH AS INTRAVASCULAR
64	ULTRASOUND (IVUS), OPTICAL COHERENCE TOMOGRAPHY (OCT), OR NEAR-INFRARED
65	SPECTROSCOPY (NIRS) WHEN PERFORMED WITHOUT A THERAPEUTIC PROCEDURE, CARDIAC
66	BIOPSY, INTRA-CARDIAC ECHOCARDIOGRAPHY, AND ELECTROPHYSIOLOGY STUDY.
67	(gk) "Diagnostic cardiac catheterization service" means providing diagnostic cardiac catheterization
68	procedures on an organized, regular basis in a laboratory to diagnose anatomical and/or physiological
69	problems in the heart. Procedures include the intra coronary administration of drugs; left heart
70	catheterization; right heart catheterization; coronary angiography; diagnostic electrophysiology studies;
71	and cardiac biopsies (echo-guided or fluoroscopic). A hospital that provides diagnostic cardiac
72	catheterization services may also perform implantations of cardiac p ermanent pacemaker s and ICD
73	devices IMPLANTATION (THERAPEUTIC PROCEDURES).
74	(I) "DIAGNOSTIC CARDIAC CATHETERIZATION SESSION" MEANS A CONTINUOUS TIME
75	<u>PERIOD DURING WHICH A PATIENT MAY UNDERGO ONE OR MORE DIAGNOSTIC CARDIAC</u>
76	CATHETERIZATION PROCEDURES.
77	(m) "DIAGNOSTIC PERIPHERAL PROCEDURE" INCLUDES ANGIOGRAPHY OR HEMODYNAMIC
78	MEASUREMENTS IN THE ARTERIAL OR VENOUS CIRCULATION (EXCLUDING THE HEART).
79	(n) "DIAGNOSTIC PERIPHERAL SESSION" MEANS A CONTINUOUS TIME PERIOD DURING
80	WHICH A PATIENT MAY UNDERGO ONE OR MORE DIAGNOSTIC PERIPHERAL PROCEDURES IN
81	A CARDIAC CATHETERIZATION LABORATORY.
82	(ho) "Elective percutaneous coronary intervention (PCI)" means a PCI procedure performed on a non-
83	emergent basis.
84	(ip) "Elective PCI services without on-site open heart surgery (OHS)" means performing PCI,
85	percutaneous transluminal coronary angioplasty (PTCA), and coronary stent implantation on an
86	organized, regular basis in a hospital having a diagnostic cardiac catheterization service and a primary
87	PCI service but not having OHS on-site and adhering to patient selection as outlined in the
88	SCAI/ACC/AHA Expert Consensus Document: 2014 Update on PCI Without On-Site Surgical Backup
89	and published in <u>circulation Circulation</u> 2014, 129:2610-2626 and its update or further guideline changes.
90	A HOSPITAL THAT PROVIDES ELECTIVE PCI WITHOUT ON-SITE OHS MAY ALSO PERFORM
91	RIGHT-SIDED CARDIAC ABLATION PROCEDURES INCLUDING RIGHT ATRIAL FLUTTER, AV
92	REENTRY, AV NODE REENTRY, RIGHT ATRIAL TACHYCARDIA, AND AV NODE ABLATION.
93	(jq) "Electrophysiology study" means a study of the electrical conduction activity of the heart and
94 05	characterization of atrial and ventricular arrhythmias obtained by means of a cardiac catheterization
95	procedure. The term also includes the implantation of permanent pacemakers and ICD devices.
96	(kr) "Hospital" means a health facility licensed under Part 215 of the Code.
97	(Is) "Medicaid" means title XIX of the social security act, chapter 531, 49 Stat. 620, 42 U.S.C. 1396 to
98	1396g and 1396i to 1396u.
99 100	(mt) "Pediatric/CONGENITAL cardiac catheterization service" means providing cardiac AND
100	ELECTROPHYSIOLOGY catheterization services on an organized, regular basis to infants and children
101	ages 18 and below, except for electrophysiology studies that are offered and provided to infants and ability and others DATIENTS ROBN with congenital beart discours as defined by
102	children ages 14 and below, and others-PATIENTS BORN with congenital heart disease as defined by
103	the ICD-9-CM codes (See Appendix B for ICD-10-CM Codes) of 426.7 (anomalous atrioventricular
104	excitation), 427.0 (cardiac dysrythmias), and 745.0 through 747.99 (bulbus cordis anomalies and
105	anomalies of cardiac septal closure, other congenital anomalies of heart, and other congenital anomalies
106	of circulatory system) .

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107	(u) "PERCUTANEOUS CORONARY INTERVENTION" (PCI) MEANS A THERAPEUTIC CARDIAC
108	CATHETERIZATION PROCEDURE TO RESOLVE ANATOMIC AND/OR PHYSIOLOGIC PROBLEMS IN
109	THE CORONARY ARTERIES OF THE HEART. A PCI SESSION MAY INCLUDE SEVERAL
110	PROCEDURES INCLUDING BALLOON ANGIOPLASTY, ATHERECTOMY, LASER, STENT
111	IMPLANTATION AND THROMBECTOMY. THE TERM DOES NOT INCLUDE THE INTRACORONARY
112	ADMINISTRATION OF DRUGS, FFR OR IVUS WHERE THESE ARE THE ONLY PROCEDURES
113	PERFORMED.
114	(v) "PERIPHERAL CATHETERIZATION SESSION" MEANS A CONTINUOUS TIME PERIOD
115	DURING WHICH A PATIENT MAY UNDERGO ONE OR MORE DIAGNOSTIC OR THERAPEUTIC
116	PROCEDURES IN THE ARTERIAL OR VENOUS CIRCULATION (EXCLUDING THE HEART) WHEN
117	PERFORMED IN A CARDIAC CATHETERIZATION LABORATORY.
118	(aw) "Primary percutaneous coronary intervention (PCI)" means a PCI performed on an EMERGENT
119	BASIS ON A acute myocardial infarction (AMI) patient with confirmed ST-SEGMENT elevation, or new
120	left bundle branch block on an emergent basis, ECG EVIDENCE OF TRUE POSTERIOR MI, OR
121	CARDIOGENIC SHOCK.
122	(ex) "Primary PCI service without on-site OHS" means performing primary PCI on an emergent basis
123	in a hospital having a diagnostic cardiac catheterization service. A HOSPITAL THAT PROVIDES
124	PRIMARY PCI WITHOUT ON-SITE OHS MAY ALSO PERFORM RIGHT-SIDED CARDIAC ABLATION
125	PROCEDURES INCLUDING RIGHT ATRIAL FLUTTER, AV REENTRY, AV NODE REENTRY, RIGHT
126	ATRIAL TACHYCARDIA, AND AV NODE ABLATION.
127	(py) "Procedure equivalent" means a unit of measure that reflects the relative average length of time
128	one patient spends in one session in a CARDIAC CATHETERIZATION laboratory based on the type of
129	procedures being performed. IF A DIAGNOSTIC AND THERAPEUTIC PROCEDURE IS PERFORMED
130	IN THE SAME SESSION, THE HIGHER PROCEDURE EQUIVALENT WEIGHTING WILL BE USED TO
131	EVALUATE UTILIZATION.
132	(z) "STRUCTURAL HEART PROCEDURE" MEANS A THERAPEUTIC CARDIAC
132	CATHETERIZATION PROCEDURE TO RESOLVE ANATOMIC AND/OR PHYSIOLOGIC PROBLEMS
134	OF THE HEART VALVES OR CHAMBERS. PROCEDURES INCLUDE: BALLOON VALVULOPLASTY,
135	BALLOON ATRIAL SEPTOSTOMY, TRANSCATHETER VALVE REPAIR, TRANSCATHETER VALVE
136	IMPLANTATION, PARAVALULAR LEAK CLOSURE, LEFT ATRIAL APPENDAGE OCCLUSION,
137	PFO/ASD/VSD/PDA CLOSURE, ALCOHOL ABLATION OF CARDIAC TISSUE, EMBOLIZATION OF
138	CORONARY FISTULAE AND ABNORMAL VASCULAR CONNECTIONS IN THE HEART.
139	(qaa) "Therapeutic cardiac catheterization service" means providing therapeutic cardiac
140	catheterizations on an organized, regular basis in a laboratory to treat and resolve anatomical and/or
141	physiological problems in the heart. Procedures include PCI, PTCA, atherectomy, stent, laser, cardiac
142	valvuloplasty, balloon atrial septostomy, catheter ablation, cardiac permanent pacemaker, ICD device
143	implantations, transcatheter valve, other structural heart disease procedures, PTCA with coronary stent
144	implantation and left sided arrhythmia therapeutic procedures. The term does not include the intra
145	coronary administration of drugs where that is the only therapeutic intervention.
146	(bb) "THERAPEUTIC CARDIAC CATHETERIZATION SESSION" MAY INCLUDE: PCI (ELECTIVE,
147	EMERGENT), PERICARDIOCENTESIS, PERMANENT PACEMAKER IMPLANTATION, ICD
148	IMPLANTATION (ENDOVASCULAR OR SUBCUTANEOUS), PACEMAKER OR ICD GENERATOR
149	CHANGE, PACEMAKER OR ICD LEAD REVISION, CARDIAC ABLATION, AND/OR STRUCTURAL
150	HEART PROCEDURE. THIS ALSO INCLUDES IMPLANTATION OF A CIRCULATORY SUPPORT
150	DEVICE SUCH AS IABP, IMPELLA, ECMO OR TANDEMHEART WHERE THIS IS THE ONLY
151	THERAPEUTIC PROCEDURE. WHEN PCI IS PERFORMED IN MORE THAN ONE CORONARY
152	ARTERY DURING THE SAME SETTING, THIS IS COUNTED AS ONE SESSION.
155	(cc) "THERAPEUTIC PERIPHERAL PROCEDURE" MEANS A THERAPEUTIC CATHETERIZATION
154	PROCEDURE TO RESOLVE ANATOMIC AND/OR PHYSIOLOGIC PROBLEMS IN THE ARTERIAL OR
155	VENOUS CIRCULATION (EXCLUDING THE HEART). PROCEDURES MAY INCLUDE
150	PERCUTANEOUS TRANSLUMINAL ANGIOPLASTY (PTA), ATHERECTOMY, DRUG ELUTING
157	BALLOON, LASER, STENT IMPLANTATION, IVC FILTER IMPLANTATION OR RETRIEVAL,
158	CATHETER-DIRECTED ULTRASOUND/THROMBOLYSIS, AND THROMBECTOMY.
ロリフ	CATHETER-DIRECTED ULTRASOUND/THROWDULTSIS, AND THROWDECTOWIT.

160	(dd) "THERAPEUTIC PERIPHERAL SESSION" MEANS A CONTINUOUS TIME PERIOD DURING
161	WHICH A PATIENT MAY UNDERGO ONE OR MORE THERAPEUTIC PERIPHERAL PROCEDURES IN
162	A CARDIAC CATHETERIZATION LABORATORY.
163	(ee) "THERAPEUTIC PEDIATRIC/CONGENITAL CARDIAC CATHETERIZATION SESSION" MAY
164	INCLUDE: STRUCTURAL HEART PROCEDURE (AS LISTED ABOVE), PULMONARY ARTERY
165	ANGIOPLASTY/STENT IMPLANTATION, PULMONARY VALVE PERFORATION,
166	ANGIOPLASTY/STENT IMPLANTATION FOR AORTIC COARCTATION, CARDIAC ABLATION,
167	PACEMAKER/ICD IMPLANTATION, AND PCI.
168	(0) Tarres defined in the Oada have the same recentions when word in these standards
169 170	(2) Terms defined in the Code have the same meanings when used in these standards.
170	Section 3. Requirements to initiate cardiac catheterization services
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173	Sec. 3. An applicant HOSPITAL proposing to initiate cardiac catheterization services shall
174	demonstrate the following, as applicable to the proposed project.
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176	(1) An applicant HOSPITAL proposing to initiate an adult diagnostic cardiac catheterization service
177	shall demonstrate the following as applicable to the proposed project:
178	(a) An applicant HOSPITAL proposing to initiate a diagnostic cardiac catheterization service with a
179	single laboratory in a rural or micropolitan statistical area county shall project a minimum of 500
180	procedure equivalents including 300 procedure equivalents in the category of diagnostic cardiac
181	catheterization procedures based on data from the most recent 12-month period preceding the date the
182	application was submitted to the Department.
183	(b) An applicant <u>HOSPITAL</u> proposing to initiate a diagnostic cardiac catheterization service with a
184	single laboratory in a metropolitan statistical area county shall project a minimum of 750 procedure
185 186	equivalents that includes 300 procedure equivalents in the category of diagnostic cardiac catheterization procedures based on data from the most recent 12-month period preceding the date the application was
180	submitted to the Department.
188	(c) An applicant HOSPITAL proposing to initiate a diagnostic cardiac catheterization service with two
189	or more laboratories shall project a minimum of 1,000 procedure equivalents per laboratory that includes
190	300 procedure equivalents in the category of diagnostic cardiac catheterization procedures based on data
191	from the most recent 12-month period preceding the date the application was submitted to the
192	Department.
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194	(2) An applicant HOSPITAL proposing to initiate an adult therapeutic cardiac catheterization service
195	shall demonstrate the following:
196	(a) The applicant HOSPITAL provides, is approved to provide, or has applied to provide adult
197	diagnostic cardiac catheterization services at the hospital. The applicant <u>HOSPITAL</u> must be approved
198	for adult diagnostic cardiac catheterization services in order to be approved for adult therapeutic cardiac
199	catheterization services.
200	(b) An applicant <u>HOSPITAL</u> operating an adult diagnostic cardiac catheterization service has
201	performed a minimum of 300 procedure equivalents in the category of adult diagnostic cardiac
202 203	catheterizations during the most recent 12-month period preceding the date the application was submitted
203	to the Department if the service has been in operation more than 24 months. (c) The applicant <u>HOSPITAL</u> has applied to provide adult OHS services at the hospital. The
204	applicant <u>HOSPITAL</u> must be approved for an adult OHS service in order to be approved for an adult
205	therapeutic cardiac catheterization service.
200	(d) The applicant <u>HOSPITAL</u> shall project a minimum of 300 procedure equivalents in the category of
208	adult therapeutic cardiac catheterizations based on data from the most recent 12-month period preceding
209	the date the application was submitted to the Department.
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211	(3) An applicant HOSPITAL proposing to initiate a pediatric/CONGENITAL cardiac catheterization
212	service shall demonstrate the following:

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- 213 (a) The applicant HOSPITAL has a board certified pediatric cardiologist with training in 214 pediatric/CONGENITAL catheterization procedures to direct the pediatric catheterization laboratory. 215 (b) The applicant HOSPITAL has standardized biplane equipment as defined in the most current 216 American Academy of Pediatrics (AAP) and American College of Cardiology Foundation (ACCF)/Society 217 for Cardiovascular Angiography and Interventions (SCAI) guidelines for pediatric cardiovascular centers. 218 (c) The applicant HOSPITAL has on-site pediatric and neonatal ICU as outlined in the most current 219 AAP and ACCF/SCAI guidelines above. 220 (d) The applicant HOSPITAL has applied to provide pediatric OHS services at the hospital. The 221 applicant HOSPITAL must be approved for a pediatric OHS service in order to be approved for $\bar{222}$ pediatric/CONGENITAL cardiac catheterization services. 223 (e) The applicant HOSPITAL has on-site pediatric extracorporeal membrane oxygenation (ECMO) 224 capability as outlined in the most current ACCF/SCAI guidelines. 225 (f) A pediatric/CONGENITAL cardiac catheterization service shall have a quality assurance plan as 226 outlined in the most current ACCF/SCAI guidelines. 227 (g) The applicant HOSPITAL shall project a minimum of 600 procedure equivalents in the category of 228 pediatric/CONGENITAL cardiac catheterizations based on data from the most recent 12-month period 229 preceding the date the application was submitted to the Department. 230 231 Section 4. Requirements to initiate primary or elective PCI Services without on-site OHS services 232 233 Sec. 4. An applicant HOSPITAL proposing to initiate primary or elective PCI services without on-site 234 OHS services shall demonstrate the following: 235 236 (1) The applicant HOSPITAL operates an adult diagnostic cardiac catheterization service that has 237 performed a minimum of 500 procedure equivalents that includes 400 procedure equivalents in the 238 category of cardiac catheterization procedures during the most recent 12 months preceding the date the 239 application was submitted to the Department. 240 241 (2) The applicant HOSPITAL has at least two interventional cardiologists to perform the PCI 242 procedures and each cardiologist has performed at least 50 PCI sessions annually as the primary 243 operator during the most recent 24-month period preceding the date the application was submitted to the 244 Department. 245 246 (3) The nursing and technical catheterization laboratory staff: are experienced in handling acutely ill 247 patients and comfortable with interventional equipment; have acquired experience in dedicated 248 interventional laboratories at an OHS hospital; and participate in an un-interrupted 24-hour, 365-day call 249 schedule. Competency shall be documented annually. 250 251 (4) The laboratory or laboratories are equipped with optimal imaging systems, resuscitative 252 equipment, and intra-aortic balloon pump (IABP) support, and stocked with a broad array of interventional 253 equipment. 254 255 (5) The cardiac care unit nurses are adept in hemodynamic monitoring and IABP management. 256 Competency shall be documented annually. 257 258 (6) A written agreement with an OHS hospital that includes all of the following: 259 (a) Involvement in credentialing criteria and recommendations for physicians approved to perform 260 PCI procedures. 261 (b) Provision for ongoing cross-training for professional and technical staff involved in the provision of 262 PCI to ensure familiarity with interventional equipment. Competency shall be documented annually. 263 (c) Provision for ongoing cross training for emergency department, catheterization laboratory, and 264 critical care unit staff to ensure experience in handling the high acuity status of PCI patient candidates.
- 265 Competency shall be documented annually.266 (d) Regularly held joint cardiology/cardia
 - (d) Regularly held joint cardiology/cardiac surgery conferences to include review of all PCI cases.

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- 267 (e) Development and ongoing review of patient selection criteria for PCI patients and implementation 268 of those criteria.
- 269 (f) A mechanism to provide for appropriate patient transfers between facilities and an agreed plan for 270 prompt care.

271 (g) Written protocols, signed by the applicant HOSPITAL and the OHS hospital, for the immediate 272 transfer within 60 minutes travel time from the cardiac catheterization laboratory to evaluation on site in 273 the OHS hospital, of patients requiring surgical evaluation and/or intervention 365 days a year. If the 274 applicant HOSPITAL meets the requirements of subsection (13)(c), then the OHS hospital can be more 275 than 60 minutes travel time from the proposed site. The protocols shall be reviewed and tested on a 276 quarterly basis.

277 (h) Consultation on facilities, equipment, staffing, ancillary services, and policies and procedures for 278 the provision of interventional procedures. 279

(7) A written protocol must be established and maintained for case selection for the performance of PCI.

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(8) A system to ensure prompt and efficient identification of potential primary PCI patients and rapid transfer from the emergency department to the cardiac catheterization laboratory must be developed and maintained so that door-to-balloon targets are met.

287 (9) At least two physicians credentialed to perform PCI must commit to functioning as a coordinated 288 group willing and able to provide this service at the hospital on a 24-hour per day, 365 day per year call 289 schedule, with ability to be on-site and available to operate within 30 minutes of identifying the need for 290 primary PCI. These physicians must be credentialed at the facility and actively collaborate with 291 administrative and clinical staff in establishing and implementing protocols, call schedules, and quality 292 assurance procedures pertaining to PCI designed to meet the requirements for this certification and in 293 keeping with the current guidelines for the provision of PCI without on-site OHS services promulgated by 294 the American College of Cardiology and American Heart Association. 295

296 (10) The applicant hospital shall participate in a data registry administered by the Department or its 297 designee as a means to measure guality and risk adjusted outcomes within PCI services without on-site 298 OHS services, and the applicant hospital shall identify a physician point of contact for the data registry. 299

(11) Cath lab facility requirements and collaborative cardiologists-heart surgeon relationship requirements shall conform to all SCAI/ACC Guidelines for PCI Services Without On-Site OHS including the SCAI/ACC/AHA Expert Consensus Document. The applicant hospital shall be liable for the cost of demonstrating compliance with these criteria in their application.

(12) The applicant HOSPITAL shall project the following based on data from the most recent 12month period preceding the date the application was submitted to the Department, as applicable.

(a) If the applicant HOSPITAL is applying for a primary PCI service without open heart surgery, the applicant HOSPITAL shall project a minimum of 36 primary PCI procedures per year.

(b) If the applicant HOSPITAL is applying for an elective PCI service without on-site OHS, the applicant HOSPITAL shall project a minimum of 200 PCI procedures per year.

(13) If the applicant HOSPITAL is applying for an elective PCI service without on-site OHS, the applicant HOSPITAL also shall demonstrate the following:

(a) The applicant HOSPITAL operated a primary PCI service for at least one year prior to the date of application.

316 (b) The applicant HOSPITAL submitted data to a data registry administered by the Department or its 317 designee and been found to have acceptable performance as compared to the registry benchmarks for 318 the most recent 12 months prior to the date of application.

319 (c) If the applicant HOSPITAL was not approved as a primary PCI service prior to September 14, 320

2015, then, in addition, the applicant HOSPITAL shall demonstrate that there is no PCI or OHS service

321 within 60 radius miles or 60 minutes travel time from the proposed site.

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323 (14) If the applicant HOSPITAL is currently providing OHS services and therapeutic cardiac 324 catheterization services and is proposing to discontinue OHS services and therapeutic cardiac 325 catheterization services, then the applicant <u>HOSPITAL</u> shall apply to initiate primary or elective PCI 326 services without on-site OHS using this section. The applicant HOSPITAL shall demonstrate all of the 327 requirements in this section except for subsection (13) and is subject to all requirements in Section 10. 328 329 Section 5. Requirements to replace an existing cardiac catheterization service or laboratory 330 331 Sec. 5. Replacing a cardiac catheterization laboratory means a change in the angiography x-ray 332 equipment or a relocation of the service to a new site. The term does not include a change in any of the 333 other equipment or software used in the laboratory. An applicant HOSPITAL proposing to replace a 334 cardiac catheterization laboratory or service shall demonstrate the following as applicable to the proposed 335 project: 336 337 (1) An applicant HOSPITAL proposing to replace cardiac catheterization laboratory equipment shall 338 demonstrate the following: 339 The existing laboratory or laboratories to be replaced are fully depreciated according to generally (a) 340 accepted accounting principles or demonstrates either of the following: 341 (i) The existing angiography x-ray equipment to be replaced poses a threat to the safety of the 342 patients. 343 (ii) The replacement angiography x-ray equipment offers technological improvements that enhance 344 quality of care, increases efficiency, and reduces operating costs. 345 The existing angiography x-ray equipment to be replaced will be removed from service on or 346 before beginning operation of the replacement equipment. 347 348 (2) An applicant HOSPITAL proposing to replace a cardiac catheterization service to a new site shall 349 demonstrate the following: 350 (a) The proposed project is part of an application to replace the entire hospital. 351 (b) The applicant HOSPITAL has performed the following during the most recent 12-month period 352 preceding the date the application was submitted to the Department as applicable to the proposed 353 project: 354 (i) A minimum of 300 procedure equivalents in the category of adult diagnostic cardiac 355 catheterization procedures. 356 (ii) A minimum of 300 procedure equivalents in the category of adult therapeutic cardiac 357 catheterization procedures. 358 (iii) A minimum of 600 procedure equivalents in the category of pediatric/CONGENITAL cardiac 359 catheterization procedures. 360 (iv) A minimum of 500 procedure equivalents for a hospital in a rural or micropolitan county with one 361 laboratory. 362 (v) A minimum of 750 procedure equivalents for a hospital in a metropolitan county with one 363 laboratory. 364 (vi) A minimum of 1,000 procedure equivalents per cardiac catheterization laboratory for a hospital 365 with two or more laboratories. 366 (c) The existing cardiac catheterization service has been in operation for at least 36 months as of the 367 date the application has been submitted to the Department. 368 369 (3) AN APPLICANT HOSPITAL PROPOSING TO REPLACE A CARDIAC CATHETERIZATION 370 SERVICE TO A NEW SITE SIMULTANEOUSLY WITH AN OPEN HEART SURGERY SERVICE SHALL

371 <u>DEMONSTRATE THE FOLLOWING:</u>
 372 (a) <u>THE EXISTING CARDIAC CATHETERIZATION SERVICE TO BE REPLACED HAS BEEN IN</u>
 373 <u>OPERATION FOR AT LEAST 36 MONTHS AS OF THE DATE AN APPLICATION IS SUBMITTED TO</u>
 374 THE DEPARTMENT.

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(b) THE PROPOSED NEW SITE IS A HOSPITAL THAT IS OWNED BY, I	
CONTROL OF, OR HAS A COMMON PARENT AS THE APPLICANT HOSPIT	
(c) THE PROPOSED NEW SITE IS THE SAME SITE WHERE THE EXIS	
TO BE LOCATED WHICH IS WITHIN THE SAME PLANNING AREA AS THE	
WITHIN 5 MILES OF THE EXISTING OHS AND CARDIAC CATHETERIZATIO	
N A METROPOLITAN STATISTICAL AREA COUNTY OR WITHIN 10 MILES	
ND CARDIAC CATHETERIZATION SERVICE IF LOCATED IN A RURAL OF	<u> </u>
STATISTICAL AREA COUNTY.	
(d) THE EXISTING CARDIAC CATHETERIZATION SERVICE TO BE REI	
AT LEAST THE APPLICABLE MINIMUM NUMBER OF CARDIAC CATHETER	
FORTH IN SECTION 10 AS OF THE DATE AN APPLICATION IS DEEMED S	<u>ORWITTED BY THE</u>
DEPARTMENT.	
Section 6. Requirements to expand a cardiac catheterization service	
Section 6. Requirements to expand a caldiac camelenzation service	
Sec. 6. An applicant HOSPITAL proposing to add a laboratory to an existing	a cardiac catheterization
service shall demonstrate the following:	g baralao bathotonzation
(1) The applicant HOSPITAL has performed the following during the most	recent 12-month period
preceding the date the application was submitted to the Department as applica	
project:	
(a) A minimum of 300 procedure equivalents in the category of adult diagr	nostic cardiac
catheterization procedures.	
(b) A minimum of 300 procedure equivalents in the category of adult thera	peutic cardiac
catheterization procedures.	
(c) A minimum of 600 procedure equivalents in the category of pediatric/C	ONGENITAL cardiac
catheterization procedures.	
·	
(2) The applicant HOSPITAL has performed a minimum of 1,400 procedur	re equivalents per existing
and approved laboratories during the most recent 12-month period preceding the	
submitted to the Department.	
Section 7. Requirements to acquire a cardiac catheterization service	
Sec. 7. Acquiring a cardiac catheterization service and its laboratories mea	ans obtaining possession
and control by contract, ownership, lease or other comparable arrangement or	renewal of a lease for
existing angiography x-ray equipment. An applicant HOSPITAL proposing to a	<mark>icquire a cardiac</mark>
catheterization service or renew a lease for equipment shall demonstrate the fo	ollowing as applicable to
the proposed project:	
(1) An applicant <u>HOSPITAL</u> proposing to acquire a cardiac catheterization	service shall demonstrate
the following:	
(a) The proposed project is part of an application to acquire the entire hosp	
(b) An application for the first acquisition of an existing cardiac catheteriza	tion service after February
27, 2012 shall not be required to be in compliance with the applicable volume r	equirements in Section 10
The cardiac catheterization service shall be operating at the applicable volume	s set forth in the project
delivery requirements in the second 12 months of operation of the service by the	ne applicant <u>HOSPITAL</u>
and annually thereafter.	
(c) For any application proposing to acquire an existing cardiac catheterization	ation service, except the
first application approved pursuant to subsection (b), an applicant HOSPITAL s	
document that the cardiac catheterization service to be acquired is operating in	
volume requirements set forth in section 10 of these standards applicable to an	
catheterization service on the date the application is submitted to the Departme	-
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- 435 angiography system permitting minimally invasive procedures of the heart and blood vessels with full 436 anesthesia capabilities. An applicant HOSPITAL proposing to add one or more hybrid OR/CCLs at an 437 existing cardiac catheterization service shall demonstrate each of the following: 438 439 440 CON Review Standards for OHS Services. 441 442 443 with sectionS 53(2) AND 10(4) of these standards. 444 445 446 at the facility, the applicant HOSPITAL is in compliance with Section 6 of these standards. 447 448 449 the applicant <u>HOSPITAL</u> is in compliance with the provisions of Section 5, if applicable. 450 451 452 Surgical Services. 453 454 455 456 457 (7) For each hybrid OR/CCL, a facility shall have 0.5 excluded from its inventory of cardiac 458 459 will not be limited to the number of hybrid ORCCLs within a single licensed facility. 460 461 Section 9. Requirement for Medicaid participation 462 463 464 465 466 467 468 Section 10. Project delivery requirements and terms of approval for all applicants 469 470 471 all existing and approved laboratories shall be delivered in compliance with the following terms of 472 approval: 473 474 (1) Compliance with these standards. 475 476 (2) Compliance with the following quality assurance standards: 477 equipment to manage cardiovascular emergencies. permit regular scheduled hours of operation and continuous 24-hour on-call availability. CON Review Standards for Cardiac Catheterization Services For CON Commission Final Action on June 14, 2018 Proposed Substantive Amendment Highlighted in Blue
 - (1) The applicant <u>HOSPITAL</u> operates an OHS service which is in full compliance with the current

(2) An applicant HOSPITAL proposing to renew a lease for existing angiography x-ray equipment

Section 8. Requirements for a hybrid operating room/cardiac catheterization laboratory (OR/CCL)

Sec. 8. A hybrid OR/CCL means an operating room located on a sterile corridor and equipped with an

shall demonstrate the renewal of the lease is more cost effective than replacing the equipment.

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- (2) The applicant operates a therapeutic cardiac catheterization program which is in full compliance
- (3) If the hybrid OR/CCL(s) represents an increase in the number of cardiac catheterization laboratories
- (4) If the hybrid OR/CCL(s) represents conversion of an existing cardiac catheterization laboratory(s),
- (5) The applicant HOSPITAL meets the applicable requirements of the CON Review Standards for
- (6) Each case performed in a hybrid OR/CCL shall be included either in the surgical volume or the therapeutic cardiac catheterization volume of the facility. No case shall be counted more than once.
- catheterization laboratories for the purposes of computing the procedure equivalents per room. A facility
- Sec. 9. An applicant HOSPITAL shall provide verification of Medicaid participation at the time the application is submitted to the Department. An applicant HOSPITAL that is initiating a new service or is a new provider not currently enrolled in Medicaid shall certify that proof of Medicaid participation will be provided to the Department within six (6) months from the offering of services if a CON is approved.
 - Sec. 10. An applicant HOSPITAL shall agree that, if approved, the cardiac catheterization service and
- (a) Cardiac catheterization procedures shall be performed in a cardiac catheterization laboratory
- 478 located within a hospital, and have within, or immediately available to the room, dedicated emergency 479
- 480 (b) The service shall be staffed with sufficient medical, nursing, technical and other personnel to 481

482 (c) The medical staff and governing body shall receive and review at least annual reports describing
 483 the activities of the cardiac catheterization service including complication rates, morbidity and mortality,
 484 success rates and the number of procedures performed.

485 (d) EACH PHYSICIAN CREDENTIALED BY A HOSPITAL TO PERFORM DIAGNOSTIC LEFT-486 HEART CATHETERIZATION AND/OR CORONARY ANGIOGRAPHY MUST PERFORM, AS THE 487 PRIMARY OPERATOR, AN AVERAGE OF AT LEAST 50 DIAGNOSTIC CARDIAC CATHETERIZATION 488 SESSIONS INVOLVING A LEFT-HEART CATHETERIZATION OR CORONARY ANGIOGRAPHY PER 489 YEAR AVERAGED OVER THE MOST RECENT 2 YEARS STARTING IN THE SECOND 12 MONTHS 490 AFTER BEING CREDENTIALED. THIS TWO YEAR AVERAGE WILL BE EVALUATED ON A ROLLING 491 BASIS ANNUALLY THEREAFTER. THE ANNUAL CASE LOAD FOR A PHYSICIAN MEANS A 492 CARDIAC CATHETERIZATION SESSION IN WHICH THAT PHYSICIAN PERFORMED, AS THE 493 PRIMARY OPERATOR, AT LEAST ONE LEFT-HEART CATHETERIZATION OR CORONARY 494 ANGIOGRAPHY, IN ANY COMBINATION OF HOSPITALS. PHYSICIANS FALLING BELOW THIS 495 VOLUME REQUIREMENT MUST BE PLACED ON A FOCUSED PROFESSIONAL PRACTICE 496 EVALUATION (FPPE) PLAN, WHICH MUST INCLUDE AN INDEPENDENT REVIEW OF ALL 497 DIAGNOSTIC CARDIAC CATHETERIZATION SESSIONS BY AN APPROPRIATE DESIGNEE, TO 498 ENSURE QUALITY OUTCOMES ARE MAINTAINED. IN THE EVENT A PHYSICIAN DOES NOT 499 PERFORM CARDIAC CATHETERIZATION PROCEDURES ON A TEMPORARY OR PERMANENT 500 BASIS FOR A PERIOD OF 3 MONTHS OR MORE, THE PHYSICIAN DIAGNOSTIC PROCEDURE 501 VOLUME WILL BE ANNUALIZED ON THE 24 MONTH PERIOD PRECEDING THE ABSENCE. WHEN A 502 DIAGNOSTIC CARDIAC CATHETERIZATION SESSION AND AD HOC THERAPEUTIC CARDIAC 503 CATHETERIZATION SESSION ARE PERFORMED TOGETHER, DIAGNOSTIC AND THERAPEUTIC 504 SESSIONS ARE COUNTED SEPARATELY FOR THE PURPOSES OF THIS SUBSECTION. IF A 505 PHYSICIAN IS DOING RIGHT HEART ONLY PROCEDURES, THEN THEY ARE NOT REQUIRED TO 506 MEET THIS VOLUME REQUIREMENT. PHYSICIANS WHO ARE CREDENTIALED BY A HOSPITAL 507 TO PERFORM ADULT THERAPEUTIC CARDIAC CATHETERIZATION PROCEDURES ARE NOT 508 REQUIRED TO MEET THE VOLUME REQUIREMENT FOR DIAGNOSTIC CARDIAC 509 CATHETERIZATION SESSIONS. 510 (e) Each physician credentialed by a hospital to perform adult therapeutic cardiac catheterization 511 procedures shall perform, as the primary operator, a<u>N minimum AVERAGE of AT LEAST</u>50 adult 512 therapeutic cardiac catheterization procedures_SESSIONS per year AVERAGED OVER THE MOST 513 RECENT TWO YEARS STARTING in the second 12 months after being credentialed. THIS TWO YEAR 514 AVERAGE WILL BE EVALUATED ON A ROLLING BASIS to and annually thereafter. The annual case 515 load for a physician means adult therapeutic cardiac catheterization procedures SESSIONS performed by 516 that physician in any combination of hospitals. PHYSICIANS FALLING BELOW THIS VOLUME 517 REQUIREMENT MUST BE PLACED ON A FOCUSED PROFESSIONAL PRACTICE EVALUATION 518 (FPPE) PLAN, WHICH MUST INCLUDE AN INDEPENDENT REVIEW OF ALL THERAPEUTIC 519 CARDIAC CATHETERIZATION SESSIONS BY AN APPROPRIATE DESIGNEE, TO ENSURE QUALITY 520 OUTCOMES ARE MAINTAINED. IN THE EVENT A PHYSICIAN DOES NOT PERFORM CARDIAC 521 CATHETERIZATION PROCEDURES ON A TEMPORARY OR PERMANENT BASIS FOR A PERIOD OF 522 3 MONTHS OR MORE, THE PHYSICIAN THERAPEUTIC PROCEDURE VOLUME WILL BE 523 524 ANNUALIZED ON THE 24 MONTH PERIOD PRECEDING THE ABSENCE. WHEN A DIAGNOSTIC CARDIAC CATHETERIZATION SESSION AND AD HOC THERAPEUTIC CARDIAC 525 CATHETERIZATION SESSION ARE PERFORMED TOGETHER, DIAGNOSTIC AND THERAPEUTIC 526 SESSIONS ARE COUNTED SEPARATELY FOR THE PURPOSES OF THIS SUBSECTION (THIS 527 INCLUDES INTERVENTIONAL CARDIOLOGISTS AND ELECTROPHYSIOLOGISTS). FOR 528 INTERVENTIONAL CARDIOLOGISTS, THE THERAPEUTIC SESSION VOLUME EXCLUDES 529 PACEMAKER AND ICD IMPLANTATION. FOR ELECTROPHYSIOLOGISTS, PACEMAKER AND ICD 530 IMPLANTS PERFORMED IN AN OPERATING ROOM MAY ALSO BE COUNTED TOWARD THE 531 PHYSICIAN THERAPEUTIC VOLUME. 532 (ef) Each physician credentialed by a hospital to perform pediatric/CONGENITAL cardiac 533 catheterizations shall perform, as the primary operator, aN minimum AVERAGE of AT LEAST 50 534 pediatric/CONGENITAL cardiac catheterization procedures SESSIONS per year AVERAGED OVER THE 535 MOST RECENT 2 YEARS STARTING in the second 12 months after being credentialed. THIS TWO CON Review Standards for Cardiac Catheterization Services CON-210 For CON Commission Final Action on June 14, 2018

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536	YEAR AVERAGE WILL BE EVALUATED ON A ROLLING BASIS and annually thereafter. The ar	nual
537	case load for a physician means pediatric/CONGENITAL cardiac catheterization procedures SES	SIONS
538	performed by that physician in any combination of hospitals. PHYSICIANS FALLING BELOW TH	IS
539	VOLUME REQUIREMENT MUST BE PLACED ON A FOCUSED PROFESSIONAL PRACTICE	
540	EVALUATION (FPPE) PLAN, WHICH MUST INCLUDE AN INDEPENDENT REVIEW OF ALL CA	
541	CATHETERIZATION SESSIONS BY AN APPROPRIATE DESIGNEE, TO ENSURE QUALITY	
542	OUTCOMES ARE MAINTAINED. IN THE EVENT A PHYSICIAN DOES NOT PERFORM CARDI	AC
543	CATHETERIZATION PROCEDURES ON A TEMPORARY OR PERMANENT BASIS FOR A PER	
544 544	3 MONTHS OR MORE, THE PHYSICIAN THERAPEUTIC PROCEDURE VOLUME WILL BE	
545	ANNUALIZED ON THE 24 MONTH PERIOD PRECEDING THE ABSENCE.	1.1
546	(fg) An adult diagnostic cardiac catheterization service shall have a minimum of two appropria	
547	trained physicians on its active hospital staff <u>MEETING THE FOLLOWING CRITERIA.</u> The Depa	rtment
548	may accept other evidence or shall consider it appropriate training if the staff physicians:	
549	 (i) are trained consistent with the recommendations of the American College of Cardiology; 	
550	(ii) are credentialed by the hospital to perform adult diagnostic cardiac catheterizations; and	
551	(iii) have each-performed a minimum of 100 adult diagnostic cardiac catheterizations <u>SESSIC</u>	<u>)NS</u> in
552	the preceding 12 months. THE ANNUAL CASE LOAD FOR A PHYSICIAN MEANS A CARDIAC	
553	CATHETERIZATION SESSION IN WHICH THAT PHYSICIAN PERFORMED, AS THE PRIMARY	<u> </u>
554	OPERATOR, AT LEAST ONE DIAGNOSTIC CARDIAC CATHETERIZATION, IN ANY COMBINA	TION
555	OF HOSPITALS.	
556	(gh) An adult therapeutic cardiac catheterization service shall have a minimum of two appropri	ately
557	trained physicians on its active hospital staff MEETING THE FOLLOWING CRITERIA. The Depa	
558	may accept other evidence or shall consider it appropriate training if the staff physicians.	
559	(i) are trained consistent with the recommendations of the American College of Cardiology;	
560	(ii) are credentialed by the hospital to perform adult therapeutic cardiac catheterizations; and	
561	(iii) have each performed a minimum of 50 adult therapeutic cardiac catheterization procedure	
562	SESSIONS in the preceding 12 months. THE ANNUAL CASE LOAD FOR A PHYSICIAN MEANS	
563	CARDIAC CATHETERIZATION SESSION IN WHICH THAT PHYSICIAN PERFORMED, AS THE	
564	PRIMARY OPERATOR, AT LEAST ONE THERAPEUTIC CARDIAC CATHETERIZATION, IN AN	
565	COMBINATION OF HOSPITALS.	<u></u>
566		
567		HEUAL
	LEAST ONE physician on its active hospital staff MEETING THE FOLLOWING CRITERIA. The	
568	Department may accept other evidence or shall consider it appropriate training if the staff physicia	
569	(i) is board certified or board eligible in pediatric cardiology by the American Board of Pediat	
570	(ii) is credentialed by the hospital to perform pediatric/CONGENITAL cardiac catheterizations	
571	(iii) has trained consistently with the recommendations of the American College of Cardiology	
572	(ij) A pediatric/ <u>CONGENITAL</u> cardiac catheterization service shall maintain a quality assuran	ce plan
573	as outlined in the most current ACCF/SCAI Guidelines.	
574	(jk) A cardiac catheterization service shall be directed by an appropriately trained physician.	The
575	Department shall consider appropriate training of the director if the physician is board certified in	
576	cardiology, cardiovascular radiology or cardiology, adult or pediatric, as applicable. The director of	
577	adult cardiac catheterization service shall have performed at least 100 catheterizations per year d	uring
578	each of the five preceding years. The Department may accept other evidence that the director is	
579	appropriately trained.	
580	(k) A cardiac catheterization service shall be operated consistently with the recommendation	s of the
581	American College of Cardiology.	
582	(Im) The applicant hospital providing therapeutic cardiac catheterization services, primary PCI	
583	services without on-site OHS service, or elective PCI services without on-site OHS service shall	
584	participate with a data registry administered by the Department or its designee that monitors quali	ty and
585	risk adjusted outcomes.	-
586	•	
587	(3) Compliance with the following access to care requirements:	
588	(a) The service shall accept referrals for cardiac catheterization from all appropriately license	d
589	practitioners.	-
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- 590 (b) The service shall participate in Medicaid at least 12 consecutive months within the first two years 591 of operation and annually thereafter.
- 592 (c) The service shall not deny cardiac catheterization services to any individual based on ability to 593 pay or source of payment.
- 594 (d) The operation of and referral of patients to the cardiac catheterization service shall be in 595 conformance with 1978 PA 368, Sec. 16221, as amended by 1986 PA 319; MCL 333.1621; MSA 14.15 596 (16221).
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- (4) Compliance with the following monitoring and reporting requirements:
- 599 (a) The service shall be operating at or above the applicable volumes in the second 12 months of 600 operation of the service, or an additional laboratory, and annually thereafter: 601
 - (i) 300 procedure equivalents in the category of adult diagnostic cardiac catheterization procedures.
 - (ii) 300 procedure equivalents in the category of adult therapeutic cardiac catheterization procedures.
- 604 (iii) 600 procedure equivalents in the category of pediatric/CONGENITAL cardiac catheterization 605 procedures.
 - (iv) 500 procedure equivalents for a hospital in a rural or micropolitan county with one laboratory.
 - (v) 750 procedure equivalents for a hospital in a metropolitan county with one laboratory.
 - (vi) 1,000 procedure equivalents per cardiac catheterization laboratory for two or more laboratories.
 - (vii) 36 adult primary PCI cases for a primary PCI service without on-site OHS service.
- 610 (viii) 200 adult PCI procedures for an elective PCI service without on-site OHS service.
- 611 (b) The applicant hospital shall participate in a data collection network established and administered 612 by the Department or its designee. Data may include, but is not limited to, annual budget and cost 613 information, operating schedules, patient demographics, morbidity and mortality information, and payor. 614 The Department may verify the data through on-site review of appropriate records.
- 615 (c) The applicant hospital providing therapeutic cardiac catheterization services, primary PCI 616 services without on-site OHS service, or elective PCI services without on-site OHS service shall 617 participate in a data registry administered by the Department or its designee as a means to measure 618 guality and risk adjusted outcomes within cardiac catheterization services. The Department or its 619 designee shall require that the applicant hospital submit summary reports as specified by the Department. 620 The applicant hospital shall provide the required data in a format established by the Department or its 621 designee. The applicant hospital shall be liable for the cost of data submission and on-site reviews in 622 order for the Department to verify and monitor volumes and assure quality. The applicant hospital shall 623 become a member of the data registry specified by the Department upon initiation of the service and 624 continue to participate annually thereafter for the life of that service.
- 625 (d) the applicant hospital shall provide the department with timely notice of the proposed project 626 implementation consistent with applicable statute and promulgated rules. 627
- 628 (5) Compliance with the following primary and elective PCI requirements for hospitals providing 629 therapeutic cardiac catheterization services, primary PCI services without on-site OHS service, or elective 630 PCI services without on-site OHS service, if applicable:
 - (a) The requirements set forth in Section 4.
- 632 (b) The hospital shall immediately report to the Department any changes in the interventional 633 cardiologists who perform the primary PCI procedures.
- 634 (c) The hospital shall maintain a 90-minute door-to-balloon time or less in at least 75% of the primary 635 PCI sessions (EXCLUDING PATIENTS WITH CARDIOGENIC SHOCK).
- 636 (d) The applicant hospital shall participate in a data registry administered by the Department or its 637 designee as a means to measure quality and risk adjusted outcomes within PCI services by service level. 638 The Department or its designee shall require that the applicant hospital submit all consecutive PCI cases 639 performed within the hospital and meet data submission timeliness requirements and threshold 640 requirements for PCI data submission, accuracy and completeness established by a data registry 641 administered by the Department or its designee. The applicant hospital shall provide the required data in 642 a format established by the Department or its designee. The applicant hospital shall be liable for the cost 643 of data submission and on-site reviews in order for the Department to verify and monitor volumes and CON Review Standards for Cardiac Catheterization Services CON-210 For CON Commission Final Action on June 14, 2018 Proposed Substantive Amendment Highlighted in Blue

- 644 assure quality. The applicant hospital shall become a member of the data registry specified by the
- 645 Department upon initiation of the service and continue to participate annually thereafter for the life of that 646 service. At a minimum, the applicant hospital shall report the following:
- 647 (i) the number of patients treated with and without STEMI,
 - (ii) the proportion of PCI patients with emergency CABG or required emergent transfer,
- 649 (iii) risk and reliability adjusted patient mortality for all PCI patients and a subset of patients with 650 STEMI.
 - (iv) PCI appropriate use in elective non-acute MI cases, and
 - (v) rates of ad-hoc multi-vessel PCI procedures in the same session.
 - (e) The applicant hospital shall maintain a physician point of contact for the data registry.
 - (f) FOR PRIMARY PCI SERVICES WITHOUT ON-SITE OHS SERVICE AND ELECTIVE PCI
- SERVICES WITHOUT ON-SITE OHS SERVICE, Catheterization catheterization lab facility requirements 655 656 and collaborative cardiologists-heart surgeon relationship requirements shall conform to all SCAI/ACC 657 Guidelines for PCI including the SCAI/ACC/AHA Expert Consensus Document. The applicant hospital 658 shall be liable for the cost of demonstrating compliance with these criteria.
- 659 (g) The Department shall use these thresholds and metrics in evaluating compliance: performance 660 at a level above the 50th percentile of the statewide performance on each metric listed under subsection 661
 - (d)(ii) (v) or another level provided by the data registry designee and accepted by the Department.
- 662 (h) The Department shall notify those hospitals who fail to meet any of the minimally acceptable 663 objective quality metric thresholds including those under subsection (d)(ii) - (v). The Department shall 664 require these hospitals to:
 - (i) submit a corrective action plan within one month of notification and
 - (ii) demonstrate that performance has improved to meet or exceed all applicable objective quality metric thresholds, including those under subsection (d)(ii) - (v), within 12 months of notification.
- 668 (i) The applicant hospital initiating elective PCI without on-site OHS services shall have 669 Accreditation for Cardiovascular Excellence (ACE) accreditation or an equivalent body perform an on-site 670 review within 3, 6, and 12 months after implementation. The applicant hospital shall submit the summary 671 reports of the on-site review to the Department AND MAINTAIN ON-GOING ACCREDITATION. 672

(6) Nothing in this section prohibits the Department from taking compliance action under MCL 333.22247.

(7) The agreements and assurances required by this section shall be in the form of a certification agreed to by the applicant HOSPITAL or its authorized agent.

Section 11. Methodology for computing cardiac catheterization equivalents

Sec. 11. The following shall be used in calculating procedure equivalents and evaluating utilization of a cardiac catheterization service and its laboratories:

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Procedure Type	DESCRIPTION	Procedure equivalent	
		<mark>Adult</mark>	Pediatric
Diagnostic cardiac	RIGHT HEART CATHETERIZATION, LEFT HEART	<mark>1.5</mark>	<mark>2.7</mark>
catheterization/peripheral	CATHETERIZATION, CORONARY ANGIOGRAPHY,		
<mark>sessions</mark>	CORONARY ARTERY BYPASS GRAFT		
	ANGIOGRAPHY, INTRACORONARY		
	ADMINISTRATION OF DRUGS, FRACTIONAL		
	FLOW RESERVE (FFR), INTRA-CORONARY		
	IMAGING (INTRAVASCULAR ULTRASOUND		
	(IVUS), OPTICAL COHERENCE TOMOGRAPHY		
	(OCT)) WHEN PERFORMED WITHOUT A		
	THERAPEUTIC PROCEDURE, CARDIAC BIOPSY,		
	INTRA-CARDIAC ECHOCARDIOGRAPHY (ICE),		

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Procedure Type	DESCRIPTION	Procedure	e equivalent
		Adult	Pediatric
	DIAGNOSTIC ELECTROPHYSIOLOGY STUDY,		
	ANGIOGRAPHY IN THE PERIPHERAL ARTERIAL		
	OR VENOUS CIRCULATION		
Therapeutic cardiac	PCI, PERICARDIOCENTESIS, PACEMAKER	<mark>2.7</mark>	<mark>4.0</mark>
catheterization/peripheral	IMPLANTATION, ICD IMPLANTATION		
session s	(ENDOVASCULAR OR SUBCUTANEOUS),		
	PACEMAKER/ICD GENERATOR CHANGE,		
	PACEMAKER/ICD LEAD REVISION, CARDIAC		
	ABLATION (EXCLUDING AF/VT), AND/OR		
	STRUCTURAL HEART PROCEDURE (EXCLUDING		
	THOSE LISTED BELOW), AND IABP, IMPELLA,		
	ECMO, OR TANDEMHEART WHEN THIS IS THE		
	ONLY THERAPEUTIC PROCEDURE		
THERAPEUTIC	PERCUTANEOUS TRANSLUMINAL ANGIOPLASTY	<mark>2.7</mark>	<mark>4.0</mark>
PERIPHERAL SESSION	(PTA), ATHERECTOMY, LASER, STENT		
	IMPLANTATION, IVC FILTER IMPLANTATION OR		
	RETRIEVAL, CATHETER-DIRECTED		
	ULTRASOUND/THROMBOLYSIS,		
	THROMBECTOMY		
Complex percutaneous	PCI FOR CHRONIC TOTAL OCCLUSION (CTO),	<mark>4.0</mark>	<mark>7.0</mark>
/alvular<u>THERAPEUTIC</u>	TAVR, MITRAL/PULMONARY/TRICUSPID VALVE		
session s*	REPAIR OR REPLACEMENT, PARAVALVULAR		
	LEAK CLOSURE, ABLATION FOR ATRIAL		
	FIBRILLATION (AF) OR VENTRICULAR		
	TACHYCARDIA (VT), PACEMAKER OR ICD LEAD		
	EXTRACTION		
PROLONGED	CARDIAC THERAPEUTIC SESSION >6 HOURS	<mark>6.0</mark>	<mark>7.0</mark>
<u>THERAPEUTIC</u>			
SESSION			
	valvular sessions includes, but is not limited to, procedure		
	rgical assistance to repair or replace aortic, mitral and pu		
ranscatheter aortic valvu	lar implantation (Tavi) procedures. These sessions can c	only be perfor	<mark>med at</mark>
nospitals approved with C	HS services. PROCEDURE EQUIVALENTS FROM PER	RIPHERAL DI	AGNOSTIC
AND THERAPEUTIC PR	OCEDURES COUNT TOWARD THE VOLUME REQUIR	EMENT FOR	INITIATION
OF CARDIAC CATHETE	RIZATION SERVICES (SECTION 3) AND EXPANSION (OF A CARDIA	\C
CATHETERIZATION SEP			

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Section 12. Documentation of projections

Sec. 12. An applicant <u>HOSPITAL</u> required to project volumes shall demonstrate the following as applicable to the proposed project:

(1) The applicant <u>HOSPITAL</u> shall specify how the volume projections were developed. Specification of the projections shall include a description of the data source(s) used and assessment of the accuracy of the data. The Department shall determine if the projections are reasonable.

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 694 (2) An applicant <u>HOSPITAL</u> proposing to initiate a primary PCI service shall demonstrate and certify
 695 that the hospital treated or transferred 36 ST segment elevation AMI cases during the most recent 12 696 month period preceding the date the application was submitted to the Department. Cases may include
 697 thrombolytic eligible patients documented through pharmacy records showing the number of doses of

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- 698 thrombolytic therapy ordered and medical records of emergency transfers of AMI patients to an 699 appropriate hospital for a primary PCI procedure.
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(3) An applicant HOSPITAL proposing to initiate an elective PCI service without on-site OHS

702 services shall demonstrate and certify that the hospital shall treat 200 or more patients with PCI annually 703 using data during the most recent 12-month period preceding the date the application was submitted to 704 the Department as follows: 705

- (a) All primary PCIs performed at the applicant hospital.
- (b) All inpatients transferred from the applicant hospital to another hospital for PCI.
- 707 (c) 90% of patients who received diagnostic cardiac catheterizations at the applicant hospital and 708 received an elective PCI at another hospital within 30 days of the diagnostic catheterization (based on 709 physician commitments).
- 710 (d) 50% of the elective PCI procedures performed by the committing physician at another hospital 711 within 120 radius miles or 120 minutes travel time from the applicant hospital for patients who did not 712 receive diagnostic cardiac catheterization at the applicant hospital (based on physician commitments).

713 (e) An applicant HOSPITAL with current OHS services and therapeutic cardiac catheterization 714 services that is proposing to discontinue OHS services and therapeutic cardiac catheterization services 715 and is applying to initiate primary or elective PCI services without on-site OHS services may count all 716 primary and elective PCI at the applicant hospital within the most recent 12-month period preceding the 717 date the application was submitted to the Department.

719 Section 13. Comparative reviews; Effect on prior CON Review Standards 720

721 Sec. 13. Proposed projects reviewed under these standards shall not be subject to comparative 722 review. These CON Review Standards supercede and replace the CON Review Standards for Cardiac 723 Catheterization Services approved by the CON Commission on March 18, 2014 JUNE 11, 2015 and 724 effective on June 2, 2014 SEPTEMBER 14, 2015.

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728	Rural Michigan counties are as	s follows:		
729				
730	Alcona	Gogebic	Ogemaw	
731	Alger	Huron	Ontonagon	
732	Antrim	losco	Osceola	
733	Arenac	Iron	Oscoda	
734	Baraga	Lake	Otsego	
735	Charlevoix	Luce	Presque Isle	
736	Cheboygan	Mackinac	Roscommon	
737	Clare	Manistee	Sanilac	
738	Crawford	Montmorency	Schoolcraft	
739	Emmet	Newaygo	Tuscola	
740	Gladwin	Oceana		
741				
742				
743	Micropolitan statistical area Mic	chigan counties are as follows	·	
744				
745	Allegan	Hillsdale	Mason	
746	Alpena	Houghton	Mecosta	
747	Benzie	Ionia	Menominee	
748	Branch	Isabella	Missaukee	
749	Chippewa	Kalkaska	St. Joseph	
750	Delta	Keweenaw	Shiawassee	
751	Dickinson	Leelanau	Wexford	
752	Grand Traverse	Lenawee		
753	Gratiot	Marquette		
754				
755	Metropolitan statistical area Michigan counties are as follows:			
756				
757	Barry	Jackson	Muskegon	
758	Bay	Kalamazoo	Oakland	
759	Berrien	Kent	Ottawa	
760	Calhoun	Lapeer	Saginaw	
761	Cass	Livingston	St. Clair	
762	Clinton	Macomb	Van Buren	
763	Eaton	Midland	Washtenaw	
764	Genesee	Monroe	Wayne	
765	Ingham	Montcalm		
766				
767	Source:			
768				
769	75 F.R., p. 37245 (June 28, 20	10)		
770	Statistical Policy Office			
771	Office of Information and Regu			
772	United States Office of Manage	ement and Budget		
114				

APPENDIX A

<mark>ICD-9</mark> Code	Description	ICD-10 Code	Description
<mark>426.7</mark>	Anomalous Atrioventricular Excitation	<mark>145.6</mark>	Pre-Excitation Syndrome
<mark>427</mark>	Cardiac Dysrythmias	<mark> 47.0- 47.9</mark>	<mark>Paroxysmal Tachycardia</mark>
		<mark> 48.0- 48.92</mark>	Atrial Fibrillation and Flutter
		<mark> 49.01- 49.9</mark>	<mark>Other Cardiac Arrhythmias</mark>
		<mark>R00.1</mark>	<mark>Bradycardia, Unspecified</mark>
745.0 through 747.99	Bulbus Cordis Anomalies and Anomalies of Cardiac Septal Closure, Other	P29.3	Persistent Fetal Circulation
	Congenital Anomalies of Heart, and other Congenital Anomalies of Circulatory System	Q20.0-Q28.9	Congenital Malformations of the Circulatory System
<mark>Diseases</mark> Activities fo "ICD-10-CI	9th Revision - Clinical Modifica o r the U.S. National Center for I	<mark>ation, prepared by th</mark> Health Statistics. Ides and nomenclati	e found in the <u>International Classification of</u> e Commission on Professional and Hospital are found in the <u>International Classification</u> enter for Health Statistics.