#### SELF ASSESSMENT CHECKLIST BASED ON CCL STANDARDS AND BEST PRACTICE GUIDELINES FOR PAKISTAN (2017) FORMULATED BY PSIC

#### **HCE INFORMATION**

Name of HCE	
Address of HCE	
E-Mail Address	
Land line No	
PHC Registration/License No	
Scope of Services as per licensing Application	

# **CEO/MEDICAL DIRECTOR INFORMATION**

Name	
Designation	
E-Mail Address	
Mobile No.	

# FOCAL PERSON/CATH LAB OPERATOR

Name	
Designation	
E-Mail Address	
Mobile No.	

# LAST ONE YEAR THROUGHPUT

No. of PCIs performed :	
No. of Major Cardiac Surgery Procedures	
performed :	
ICU occupancy:	
CCU occupancy:	

Director Cath Lab (or Nominee's) Name:	
Designation:	Signature
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Self Assessment Checklist based on CCL Standards and Best Practice Guidelines for Pakistan (2017) formulated by PSIC

# **Section A**

# Level - I CCL Labs with on-site Cardiac Surgical Services

# **1. STANDARDS FOR HOSPITALS**

Does the CCL has on-site availability of the following facilities:

Tick all that apply.	YES	NO	Comments
Cardiovascular surgery			
Cardiovascular anesthetists			
Intensive care unit			
Nephrology consultative services and dialysis (on-site or on-call)			
Neurology consultative services (on-site on-call)	or		
Hematologic consultative and blood ban services	k		
Echocardiography (TTE &TOE) and Dopp	ler		
MRI, CT – Optional			
In case of pediatric catheterization laboratory, provision of similar services f pediatric-aged patients	For		
Mechanical support devices at a minimu including adequate number of intra-aorti balloon or Impella catheters			
24/7 on call service to handle emergenci	es		
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Does the CCL has on-site availability of the following facilities:

	YES	NO	Comments
List of procedures performed and excluded in the laboratory (Attach a list)			
A document defining the process for the introduction of new procedures into the laboratory setting			

Signature

# Level - II CCL Labs without on-site Cardiac Surgical Services

# **1. STANDARDS FOR HOSPITALS**

Does the CCL has on-site presence of the following:

Tick all that apply.	YES	NO	Comments
Coronary c <sup>a</sup> re unit			
Intensive care unit			
Hematologic Consultative Services			
Hematologic Blood Bank Services			
Echocardiography (TTE&TOE) and doppl	er		
Mechanical support devices at a minimu including adequate number of intra-aort balloon or Impella catheters			
Signed MOUs/LOs between the CCL and recieving hospital having Cardiac Surgery services to accept cases			
Existence of a mechanism whereby a cardiac surgeon can review coronary angiograms before elective procedures and provide comments to th cardiologist and, if necessary, patients	e		
Availability of surgical backup at all hou urgent cases and for elective cases at mutually agreeable times	rs for		
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Does the CCL has on-site presence of the following:

Tick all that apply.	YES	NO	Comments
Confirmed availability of cardiac surgeon and a next available Operating Room before elective procedures begin as per written agreement			
Mechanism in place for direct discussion between the cardiologist and cardiac surgeon should urgent transfer be necessary			
Documented evidence of a rehearsed plan for the transport of patients to a facility with cardiac surgery and the ability to have patients on cardiopulmonary bypass within 90 minutes of the onset of the emergency			
Availability of transport to begin transfer within 20 minutes			
PCI consent form explaining that the procedure is being performed without on-site surgery and what will occur if surgery is necessary			

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# Level - III CCL HOSPITAL-BASED/FREESTANDING DIAGNOSTIC ONLY LABORATORIES

Does your CCL has on-site presence of the following:

Tick all that apply.	YES	NO	Comments
Coronary Care unit			
Hematologic consultative and blood bank services			
Echocardiography (TTE&TOE) and Doppler			
Mechanical support devices			
Formal Patient transfer agreement			

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# **Section B**

# 2. STANDARDS FOR EQUIPMENTS

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# 2.1 Which of the following equipment/facility is present at your CCL?

Tick all that apply.	YES	NO	Comments	
Digital fluoroscopy				
Angiography with multiple image intensifier				
On-line image storage and retrieval capabilities				
Physiologic monitoring (pressure, pulse oximetry and ECG channels)				
2.2 Do you have a varied inventory consisting the follo	wing:			
Tick all that apply.	YES	NO	Comments	
Tick all that apply. Disposable supplies for vascular access management	YES	NO	Comments	
Disposable supplies for vascular access	YES	NO	Comments	
Disposable supplies for vascular access management Disposable supplies for diagnostic coronary	YES	NO	Comments	
Disposable supplies for vascular access management Disposable supplies for diagnostic coronary angiography and ventriculography	YES	NO	Comments	

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#### 2.3 Do you have the following emergency management equipment and systems readily available in the CCL?

Tick all that apply.	YES	NO	Comments
Resuscitation equipment			
Biphasic defibrillator			
Endotracheal intubation apparatus			
Temporary trans-venous pacemakers			
Intra-aortic balloon pump			
Pericardiocentesis equipment			

2.4 Is their any process in practice documenting routine preventive maintenance and testing of lab equipment based on vendor recommendations?

Mark only one oval.

YES (

No C

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## **RADIOGRAPHY SYSTEM**

2.5 Does the radiography system includes, but not limited to, the following:

Tick all that apply.	YES	NO	Comments
Image quality,			
Dynamic range,			
Modulation transfer function,			
Fluoroscopic spatial resolution,			
Fluoroscopic field of view size accuracy,			
Low contrast resolution,			
Record fluoroscopic mode			
Automatic exposure control under standa conditions and at maximum output	rd		
Calibration of integrated radiation dose meters			
Functional UPS/Generator with service log	g		
A process documenting routine preventive maintenance and testing of laboratory equipment based on vendor recommendations, including a comprehensive radiation safety program	2		
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# 3. STANDARD FOR CATH LAB OPERATORS AND STAFF

Does your CCL meet the following requirements:

Tick all that apply.	YES	NO	Comments
Registration with PSIC			
Established credentialing committee that reviews the individual physician's credentials and allows them privileges of carrying out defined procedures in that hospital			
Cath. Lab director, who should be a credentialed interventional cardiologist with preferably 5 years of experience as interventional cardiologist			

Director Cath Lab (or Nominee's) Name:

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#### 3.1 ELIGIBILITY TO PERFORM "INDEPENDENT" INTERVENTIONAL CARDIOLOGY PROCEDURES

a. Has the operator at your CCL, been granted eligibility to perform the procedures independently, based on the following proposed quali cation criteria (**Training Pathway**):

Name of Operator:	(To be	lled seperate	ly for each o	operator)	
Tick all that apply.		YES	NO	Comments	
FCPS in Interventional Cardiology					
Diplomate American Board of Interve cardiology	ntional				
MRCP with specialized cardiology train interventional Cardiology post fellowsh	•				
Completed Certificate of Specialized Training in Cardiology (CCT)UK, or equivalent.					
FCPS cardiology, or equivalent, with a 3 years post fellowship adequate sup training/experience in Interventional Cardiology at CPSP recognized and P registered Cath laboratory under the supervision of a certified intervention cardiologist	ervisec SIC				
At-least completed 75 procedures/yea primary operator	ar as				
Training Experience certificate to this (To be provided by the Cath Laborator director HOD or Head of Institute)					
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#### 3.1 ELIGIBILITY TO PERFORM "INDEPENDENT" INTERVENTIONAL CARDIOLOGY PROCEDURES

b. Has the operator at your CCL, been granted eligibility to perform the procedures independently, based on the following proposed clinical experience criteria (**Practice Pathway**)\*:

(To be	lled seperate	ly for eac	h operator)
	YES	NO	Comments
e or			
e in			
ır			
	e or e in	YES	e in

\*This exemption is given till 2023 after which formal two years training/Fellowship in Interventional Cardiology will be mandatory

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### 3.2 PHYSICIAN EXTENDERS AND CARDIOLOGY FELLOWS:

Which of the following standards for physician extender and cardiology fellows are implimented at your CCL?

Tick all that apply.	YES	NO	Comments	
Is the primary operator always a physician?				
Is the non-physcian healthcare provider always viewed as extention of the primary operator?				
Non-physcian providers are trained and credentialed for pre-procedural and post-procedural followup care				
Physcian extenders are proficient in both, technical and cardiac catherization and percutaneous intervention				
Presence of documened policy regarding the supervising role of primary operating physcian				

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#### **3.3 REQUIRMENTS FOR NURSING PERSONNEL**

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Does the nursing personnel at your CCL, meet the requirements/ensure the presence of the following:

Tick all that apply.	YES	NO	Comments
A registered Nurse functions as Nursing Supervisor for the CCL			
The nursing supervisor monitors pre and post procedure areas as well as the procedure laboratories			
The nursing supervisor makes sure that a local patient care policies and procedure are followed			
The CCL Nurses have the experience of atleast one-year critical care practice & knowledge of cardiovascular medication	etc		
Presence of licensed vocational practical nurses			
Presence of nursing assistants			
Presence of trained nurses administering conscious or deep sedation			
Presence of skilled allied health professionals (nurses and technicians) trained and experienced in evaluating patients before and after catheter based interventional procedure			
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#### 3.4 REQUIRMENTS FOR TECHNOLOGISTS

#### Do the technologists at your CCL, meet the following requirements?

Tick all that apply.	YES	NO	Comments
Presence of at least one certified technologist skilled in radiographic and angiographic imaging principles and techniques such as the performance of X-ray generators, cine-pulse systems, image intensification, video and digital image storage, radiation safety principles and pressure injection systems.			
The responsibilities of technologists are defined including responsibility for the routine maintenance' of radiological equipment, monitoring radiation safety, management of blood samples and calculations, monitoring and recording of ECG and hemodynamic data, data storage, operation of other equipment			

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## 4. STANDARDS OF PRE-PROCEDURE PRACTICE

Are the following standards of pre-procedure practice implemented at your CCL?

Tick all that apply.	YES	NO	Comments	
Acquiring Informed Consent				
Review of Ethical concerns				
Prior knowledge of allergies				
Analysis of lab values and outside reports				
Management of medications				
Documentation for allergic reactions				
Protocol for preventing contrast reactions				
Detail review of laboratory reports/values				

#### 5. STANDARDS OF INTRA PROCEDURE PRACTICE

Are the following standards of intra-procedure practice implemented at your CCL?

Tick all that apply.

	YES	NO	Comments	
Review of pre-procedure checklist				
Noninvasive hemodynamic and oximetr monitoring of patients	ic			
Consideration of access related risks				
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# 6. STANDARDS OF POST PROCEDURE PRACTICE

#### Are the following standards of post-procedure practice implemented at your CCL?

Tick all that apply.

	YES	NO	Comments	
Physician to Patient Communication				
Access Site Management and Closure Devices as per guidline				
Review of patient outcomes				
<b>7. MONITORING OF PATIENT OUTCOMES</b> AS PER O Are the following standards for monitoring of patient			d at your CCL?	
Tick all that apply.	YES	NO	Comments	
Review of medical records for adverse in-hospital patientoutcomes				
Participation in the NCDR or CROP-Cath PCI Registry				
In-hospital mortality assessment for patients with STEMI and without STEMI are assessed				
Monitoring rate of unplanned CABG				
Monitoring proportion of STEMI receiving immediate PCI within 90 minutes				
Monitoring rate of procedure-related q-wave MI or ischemia				
Establish system for followup of renal functions in high risk patient				
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#### 8. REPORTING OF RESULTS

Is the reporting of results done at your CCL as per guidlines, including but not limited to the following?

Tick all that apply.	YES	NO	Comments
Preliminary procedure reports are written or dictated immediately after the procedure			
The record clearly and completely provides information for post-procedure management			
Progress note immediately after the proce dure is placed in the medical record provid- ing pertinent			

Signature

#### 9. STANDARDS FOR RADIATION SAFETY

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Are the following standards for radiation safety implemented at your CCL?

Tick all that apply.		YES	NO	Comments
Presence of safety programme to docute the radiation exposure to patients and				
Established radiation safety education programme either in conjunction with t hospital Health Physics Department/ Medical Physicist and/or an outside consultant and/or assistance from a we based tutorial	he			
Monitoring of staff radiation dose throu the use of personal dose monitors	ugh			
All personnel in the room, wear person protective equipment, including lead ap and thyroid shields as well as radiation badges	orons			
Documented surveillance program				
Monitoring of patient radiation dose				
Implementation of strategy to reduce radiation exposure				
All CCL procedures are perform with the goal of keeping radiation dosage as low as resonably achievable (ALARA)				
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Any Comments:

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