

**IMM PATHOLOGY: ONE-YEAR
CHEMICAL PATHOLOGY -SPECIFIC
TRAINING**

**Guidelines for
formative assessment**

FORMATIVE ASSESSMENT

College of Physicians and Surgeons Pakistan, in order to implement competency based education in letter and spirit, is introducing Work Placed Based Assessment (WPBA) in addition to institutional/ departmental assessments. To begin with, Direct Observation of Procedural Skills is being introduced in ***one year Chemical Pathology-specific Intermediate Module training*** to ensure that the graduates are fully equipped with the required competencies.

- DOPS is entirely formative tools of assessment and is to be accompanied with constructive feedback.
- DOPS encounter extends for about 20 minutes with 05 minutes for feedback & further action plan.
- The topics given below can be covered in any order however, each time focus should be on a different topic/procedure (at least one DOPS is to be conducted in each quarter).
- The resident has the onus to report to the supervisor when he/she is prepared to appear for either DOPS.
- The supervisor will arrange for the session of WPBA and after completing the session will retrieve online prescribed assessment form (template given below), fill it and make entries online (e-portal).
- In case of unsatisfactory performance of the resident, a remedial has to be completed within stipulated time frame.
- Non-compliance by the resident has to be reported in quarterly feedback.

DIRECT OBSERVATION OF PROCEDURAL SKILLS (DOPS)

Topics' List for DOPS

- Demonstrate use of Water Bath
- Demonstrate use of Centrifuges
- Demonstrate use of Adjustable Pipettes/ Adjusters
- Program and Record Absorbance on Micro Lab for following Analytes:
 - Glucose
 - Urea
 - Bilirubin
 - ALT
 - Alkaline Phosphatase
 - Albumin
 - Calcium
 - Cholesterol
 - Creatinine
- Demonstrate use of ABG Analyzer
- Demonstrate use of ISE Analyzer



DIRECT OBSERVATION OF PROCEDURAL SKILLS (DOPS)

Specialty: **IMM Pathology (One Year Chemical Pathology -specific Training)**

Time Duration = 20 mins (15 mins assessment and 5 mins feedback)

PLEASE COMPLETE THE QUESTIONNAIRE BY FILLING/CHECKING APPROPRIATE BOXES

Assessor: _____ Assessment Date: _____

Resident's Name: _____

Hospital Name: _____ R&RC Number: _____

Year of Residency: R2

Quarter: 1st 2nd 3rd 4th

Setting: O.T. Procedure Room Other: _____

Diagnosis of Patient: _____ Patient Age: _____ Sex: _____

Name of Procedure/Technique: _____

Complexity of Case/ Procedure: Low/Easy Moderate/Average High/Difficult N/A

Number of times procedure/technique performed by Resident: _____

Please grade the following areas on the given scale:	Not Observed / Applicable	Below Expectation		Satisfactory	Above Expectation	Excellent
		1	2	3	4	5
Describes principles of the method						
Compliance with laboratory documentation and manuals						
Completes assay successfully and produces a valid result that is able to be reported						
Explains the QC procedures for the method, including internal and external QA						
Identifies anomalies and resolves uncertainties for the method						
Explains maintenance and trouble-shooting requirements for the method						
Presentation skills						
Professionalism						
Overall ability to perform procedure or handle instrument						

Assessor's Satisfaction with DOPS:

(Low) 1 2 3 4 5 (High)

Resident's Satisfaction with DOPS:

(Low) 1 2 3 4 5 (High)

Strengths	Suggestions for Improvement

Encounter to be repeated YES NO

Signature

FCPS (Post-IMM) CHEMICAL
PATHOLOGY TRAINING

**Guidelines for
formative assessment**

ASSESSMENT

FORMATIVE ASSESSMENT:

In accordance of CPSP policy to introduce Work Place Based Assessment in its fellowship programmes, Chemical Pathology is starting Direct Observation of Procedural Skills (DOPS) in its residency programme. A generic form for DOPS has been developed as under:



DIRECT OBSERVATION OF PROCEDURAL SKILLS (DOPS)

Specialty: FCPS CHEMICAL PATHOLOGY

Time Duration = 20 mins (15 mins assessment and 5 mins feedback)

PLEASE COMPLETE THE QUESTIONNAIRE BY FILLING/CHECKING APPROPRIATE BOXES

Assessor: _____ Assessment Date: _____

Resident's Name: _____

Hospital Name: _____ R&RC Number: _____

Year of Residency: R3 R4

Quarter: 1st 2nd 3rd 4th

Setting: O.T. Procedure Room Other: _____

Diagnosis of Patient: _____ Patient Age: _____ Sex: _____

Name of Procedure: _____

Complexity of Case/ Procedure: Low/Easy Moderate/Average High/Difficult N/A

Number of times procedure performed by Resident: _____

Please grade the following areas on the given scale:	Not Observed / Applicable	Below Expectations		Satisfactory	Above Expectation	Excellent
		1	2	3	4	5
Describes principles of the method						
Compliance with laboratory documentation and manuals						
Completes assay successfully and produces a valid result that is able to be reported						
Explains the QC procedures for this method, including internal and external QA						
Identifies anomalies and resolves uncertainties for the method						
Explains maintenance and trouble-shooting requirements for the method						
Presentation skills						
Professionalism						
Overall ability to perform procedure or handle instrument						

Assessor's Satisfaction with DOPS:

(Low) 1 2 3 4 5 (High)

Resident's Satisfaction with DOPS:

(Low) 1 2 3 4 5 (High)

Strengths	Suggestions for Improvement

Encounter to be repeated YES NO

Signature _____

LIST OF TOPICS (QUARTER-WISE) FOR DOPS:

	R-3				R-4			
	QUARTER-1	QUARTER-2	QUARTER-3	QUARTER-4	QUARTER-1	QUARTER-2	QUARTER-3	QUARTER-4
DIFFERENT TECHNIQUES AND PROCEDURES REQUIRED DURING TRAINING								
MULTI-TEST AUTOMATED ANALYZER (EG: TOTAL LAB AUTOMATION) FOR ROUTINE CHEMISTRIES	4	3	2	2	-	-	1	1
MULTI-TEST AUTOMATED ANALYZER (EG: TOTAL LAB AUTOMATION) FOR IMMUNOASSAYS	4	3	2	2	-	-	1	1
POINT OF CARE TEST ANALYSIS AND ASSOCIATED QUALITY MEASURES (E.G, ABG, TROPONIN, BLOOD GLUCOSE)	4	3	2	2	-	-	1	1
SPECIALIZED PROTEIN METHODS - ELECTROPHORESIS, IFE, OLIGOCLONAL	3	3	2	2	-	-	1	1
DRUGS/TOXICOLOGY ANALYSIS (CLINICAL TOXICOLOGY, THERAPEUTIC DRUG MONITORING, FORENSIC TOXICOLOGY, DRUGS OF ABUSE)	3	3	2	2	-	-	1	1
CHROMATOGRAPHY (EG THIN LAYER CHROMATOGRAPHY, HIGH PERFORMANCE LIQUID CHROMATOGRAPHY)					-	-	2	2

	R-3				R-4			
	QUARTER-1	QUARTER-2	QUARTER-3	QUARTER-4	QUARTER-1	QUARTER-2	QUARTER-3	QUARTER-4
MASS SPECTROMETRY-TARGETED METABOLOMICS (GCMS, LCMSMS, FTIR)					-	-	2	2
TRACE METAL TECHNIQUES (E.G. ATOMIC ABSORPTION, ICPMS)					-	-	2	2
MOLECULAR TECHNIQUES (PCR, NGS)					-	-	2	2
PROFICIENCY TESTING OR EXTERNAL QC (FOLLOW THROUGH ALL STAGES OF PROCESSING)	3	3	2	2	-	-	1	1
TRIAL A NEW TEST IN PARALLEL WITH AUTOMATED TEST (EG: PERFORMING METHOD VALIDATION STUDIES)	2	2	1	1	-	-	1	1
DYNAMIC FUNCTION TESTS (EG. GROWTH HORMONE INSULIN, SHORT SYNACTEN, SWEAT CHLORIDE, ORAL GLUCOSE TOLERANCE TEST)	4	4	3	3	-	-	1	1

NOTE:

- R4 in quarters one and two will be on mandatory clinical rotations
- Only those instruments are included in DOPS which cannot be assessed in FCPS-II TOACS exam
- For those facilities/instruments which are not available at training centers, all efforts should be made for collaborations amongst institutes for enhancing trainees teaching-learning environment and opportunities
- The DOPS sessions are to be accompanied by constructive feedback for improvement.
- The sessions are to be reported electronically on e-log through the prescribed form.