



COLLEGE of AMERICAN
PATHOLOGISTS

Laboratory Quality Solutions

Surveys and Anatomic Pathology Education Programs

Performance Improvement Program in Surgical Pathology

PIP/PIPW-C 2025

Participant Summary

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2025 PIP/PIPW-C PARTICIPANT SUMMARY

Program Update This report summarizes the diagnostic responses for set C of the 2025 Performance Improvement Program in Surgical Pathology (PIP & PIPW).

A tabulation of the responses to the supplementary questions is not included since these are intended for educational purposes only.

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Note: The first two cases of the online version of PIP (PIPW- PIP Web version) do not duplicate the first 2 cases in the PIP (Glass slide) program.

The PIPW/PIPW1 programs offer 10 cases with the benefit of slides being provided in an online, whole slide image format, which allows for each clinical case history and respective slide to be presented in a side-by-side format. This allows for inclusion of smaller tumors and biopsies.

Cases W01 and W02 show results from PIPW/PIPW1 participants.

Cases 01 and 02 show results from PIP/PIP1 participants.

Slide Donation: The CAP Surgical Pathology Committee relies on the donations of tissue blocks to sustain the PIP glass slide Proficiency Testing Survey and greatly appreciates any donated tissue blocks for use in the PIP Surveys. At the end of each year, case donors who submitted cases during the year will be listed in the PIP-D PSR by individual or institution. Due to patient confidentiality, individual cases will not be listed by institution. The CAP can provide a limited reimbursement for acceptable donated blocks from laboratories. All PIP cases are authored only by Surgical Pathology Committee members. For details, donation forms, and additional information please see <https://www.cap.org/laboratory-improvement/proficiency-testing/anatomic-pathology-education-programs>

Diagnosis							
Malignant perivascular epithelioid cell tumor							
Case # 2025-W21	Code	Diagnosis	PIP Participants		PIPW Participants		
			No.	%	No.	%	
			Chromophobe renal cell carcinoma			12	3.0
			Clear cell renal cell carcinoma			3	0.7
			Epithelioid leiomyosarcoma			5	1.2
			Malignant perivascular epithelioid cell tumor			363	90.5
		Melanoma			18	4.5	

Diagnosis							
Cystic neutrophilic granulomatous mastitis							
Case # 2025-W22	Code	Diagnosis	PIP Participants		PIPW Participants		
			No.	%	No.	%	
			Cystic neutrophilic granulomatous mastitis			326	82.3
			Foreign body granuloma			4	1.0
			Idiopathic granulomatous mastitis			42	10.6
			IgG4-related sclerosing mastitis			23	5.8
			Invasive carcinoma of the breast			0	0.0
		Squamous metaplasia of lactiferous ducts			1	0.3	

Diagnosis							
(2873) Nephroblastoma (Wilms tumor)							
Case # 2025-21	Code	Diagnosis	PIP Participants		PIPW Participants		
			No.	%	No.	%	
			1119 Clear cell sarcoma of the kidney	6	0.1		
			1716 Ewing sarcoma	42	0.8		
			5971 Metanephric adenofibroma	15	0.3		
			2873 Nephroblastoma (Wilms tumor)	5299	95.2		
		1012 Neuroblastoma	202	3.6			

Diagnosis							
(1587) Epithelioid leiomyosarcoma							
Case # 2025-22	Code	Diagnosis	PIP Participants		PIPW Participants		
			No.	%	No.	%	
			2357 Epithelioid leiomyoma	100	1.8		
			1587 Epithelioid leiomyosarcoma	5392	96.9		
			5711 High-grade endometrial stromal sarcoma	54	1.0		
			2316 Perivascular epithelioid cell tumor (PEComa)	12	0.2		
		1478 Undifferentiated uterine sarcoma	7	0.1			

Case # 2025-23

Diagnosis

(2397) Giant cell myocarditis

Code	Diagnosis	PIP Participants		PIPW Participants	
		No.	%	No.	%
5640	Cardiac sarcoidosis	12	0.2	9	2.3
2396	Eosinophilic myocarditis	25	0.4	52	13.3
2397	Giant cell myocarditis	5448	97.9	272	69.7
2399	Lymphocytic myocarditis	78	1.4	55	14.1
5972	Myocardial tuberculosis	1	<0.1	2	0.5

Case # 2025-24

Diagnosis

(5957) Clostridioides difficile colitis

Code	Diagnosis	PIP Participants		PIPW Participants	
		No.	%	No.	%
5957	Clostridioides difficile colitis	5549	99.5	370	96.9
5973	Escherichia coli colitis	4	0.1	4	1.0
2769	Ischemic colitis	9	0.2	7	1.8
5974	Salmonellosis	1	<0.1	0	0.0
5975	Shigellosis	1	<0.1	1	0.3

Case # 2025-25

Diagnosis

(2636) Metastatic clear cell renal cell carcinoma

Code	Diagnosis	PIP Participants		PIPW Participants	
		No.	%	No.	%
1891	Adrenal cortical adenoma	8	0.1	6	1.6
1632	Adrenal cortical carcinoma	4	0.1	20	5.3
5976	Metastatic chromophobe renal cell carcinoma	52	0.9	22	5.8
2636	Metastatic clear cell renal cell carcinoma	5491	98.7	322	85.4
2635	Metastatic papillary renal cell carcinoma	9	0.2	7	1.9

Case # 2025-26

Diagnosis

(2461) Dysgerminoma

Code	Diagnosis	PIP Participants		PIPW Participants	
		No.	%	No.	%
2216	Clear cell carcinoma	2	<0.1	1	0.3
2454	Diffuse large B-cell lymphoma	1	<0.1	3	0.8
2461	Dysgerminoma	5552	99.6	355	95.4
1165	Melanoma	2	<0.1	0	0.0
2467	Yolk sac tumor	8	0.1	13	3.5

Case # 2025-27	Diagnosis					
	(1990) Splenic marginal zone lymphoma					
	Code	Diagnosis	PIP Participants		PIPW Participants	
		No.	%	No.	%	
	1772	Chronic lymphocytic leukemia/small lymphocytic lymphoma	11	0.2	10	2.7
	1800	Classic follicular lymphoma	9	0.2	8	2.2
	1630	Hairy cell leukemia	126	2.3	97	26.1
	1809	Lymphoplasmacytic lymphoma	11	0.2	3	0.8
	2730	Splenic diffuse red pulp small B-cell lymphoma	113	2.0	30	8.1
	1990	Splenic marginal zone lymphoma	5291	95.1	223	60.1

Case # 2025-28	Diagnosis					
	(5978) Cardiac myxoma					
	Code	Diagnosis	PIP Participants		PIPW Participants	
		No.	%	No.	%	
	5977	Adult cellular rhabdomyoma	8	0.1	6	1.6
	1949	Cardiac fibroma	24	0.4	6	1.6
	5978	Cardiac myxoma	5501	99.0	322	88.2
	5979	Cardiac undifferentiated pleomorphic sarcoma	9	0.2	10	2.7
	5980	Mesenchymal cardiac hamartoma	14	0.3	21	5.8

Case # 2025-29	Diagnosis					
	(5983) Osteonecrosis (avascular necrosis)					
	Code	Diagnosis	PIP Participants		PIPW Participants	
		No.	%	No.	%	
	5981	Bone fracture	7	0.1	3	0.8
	2792	Osteoarthritis (degenerative joint disease)	14	0.3	16	4.4
	5982	Osteomyelitis	9	0.2	1	0.3
	5983	Osteonecrosis (avascular necrosis)	5517	99.3	343	94.5
	5838	Osteosarcoma	5	0.1	0	0.0

Case # 2025-30	Diagnosis					
	(2274) Epithelial-myoeplithelial carcinomac					
	Code	Diagnosis	PIP Participants		PIPW Participants	
		No.	%	No.	%	
	5984	Adenoid cystic carcinoma	14	0.3	12	3.3
	2274	Epithelial-myoeplithelial carcinomac	5439	97.9	303	83.5
	5985	Hyalinizing clear cell carcinoma	25	0.5	16	4.4
	1310	Myoeplithelial carcinoma	69	1.2	21	5.8
	1812	Pleomorphic adenoma	8	0.1	11	3.0

NOTES

NOTES

This concludes the report.



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