

Surveys and Anatomic Pathology Education Programs

Performance Improvement Program in Surgical Pathology PIP/PIPW-B 2024

Participant Summary

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2024 PIP/PIPW-B PARTICIPANT SUMMARY

Program Update

This report summarizes the diagnostic responses for set B of the 2024 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: Beginning in 2024 the first two cases of the online version of PIP (PIPW- PIP Web version) will 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.

	Diagnos					
	Epithelio	id hemangioma				
11			PIP Participa	ants	PIPW Partic	ipants
Š	Code	Diagnosis	No.	%	No.	%
Case # 2024						
# 2		Epithelioid angiosarcoma			112	32.6
se i		Epithelioid hemangioendothelioma			76	22.1
Ca		Epithelioid hemangioma			141	41.0
		Epithelioid sarcoma			15	4.4
		Metastatic melanoma			0	0.0

	Diagnos	sis				
	Sinonasa	al undifferentiated carcinoma				
2			PIP Participa	ants	PIPW Partic	ipants
W12	Code	Diagnosis	No.	%	No.	%
24-						
Case # 2024		Diffuse large B-cell lymphoma			2	0.6
# •		Malignant mucosal melanoma			1	0.3
as		Olfactory neuroblastoma			12	3.6
O		Sinonasal squamous cell carcinoma non-			23	6.9
		keratinizing			16	4.8
		Rhabdomyoma			277	4.0 83.7
		Sinonasal undifferentiated carcinoma			2//	83.7

Diagno (5678) L	s is eiomyosarcoma, spindle (conventional) subtyp	e			
()	1	PIP Participants PIPW Participant			
Code	Diagnosis	No.	%	No.	%
	-				
1951	Carcinosarcoma	8	0.1		
5877	Fumarate hydratase (FH)-deficient uterine leiomyoma	18	0.3		
1646	Leiomyoma	97	1.8		
5678	Leiomyosarcoma, spindle (conventional) subtype	5394	97.7		
2316	Perivascular epithelioid cell tumor (PEComa)	3	<0.1		

	PIP Partici	oants	PIPW Particip	oants
is	No.	%	No.	%
lipoma	5519	99.7		
oma	0	0.0		
ıa	2	<0.1		
	3	0.1		
entiated liposarcoma	1	<0.1		
•	olipoma oma na rentiated liposarcoma	blipoma 5519 bma 0 na 2 3	blipoma 5519 99.7 oma 0 0.0 na 2 <0.1 3 0.1	blipoma 5519 99.7 oma 0 0.0 na 2 <0.1 3 0.1

	Diagnos (2250) N	sis euroendocrine carcinoma				
13			PIP Particip	ants	PIPW Partio	cipants
Case # 2024-13	Code	Diagnosis	No.	%	No.	%
£ 20	<u> </u>					
e #	2930	Extra-adrenal paraganglioma	21	0.4	12	3.7
Cas	5879	Gastric adenocarcinoma	1	<0.1	2	0.6
	1901	Gastrointestinal stromal tumor	12	0.2	6	1.9
	2389	Leiomyosarcoma	5	0.1	5	1.5
	2250	Neuroendocrine carcinoma	5254	95.2	244	75.5
	1736	Well-differentiated neuroendocrine tumor, WHO grade 3	221	4.0	54	16.7

	Diagnos	sis				
	(2383) S	eminoma				
4			PIP Particip	ants	PIPW Partio	cipants
4-1	Code	Diagnosis	No.	%	No.	%
# 202		-				
#	2454	Diffuse large B-cell lymphoma	8	0.1	7	2.2
Case	1994	Embryonal carcinoma, solid pattern	9	0.2	11	3.5
ပိ	2383	Seminoma	5484	99.3	278	87.4
	2341	Sertoli cell tumor	7	0.1	6	1.9
	5608	Spermatocytic tumor	12	0.2	13	4.1
	2863	Yolk sac tumor, solid pattern	5	0.1	3	0.9

Diagnos (5880) E	s is xtragonadal yolk sac tumor				
		PIP Particip	oants	PIPW Partic	ipants
Code	Diagnosis	No.	%	No.	%
5880	Extragonadal yolk sac tumor	5500	99.5	300	95.8
5881	Metastatic ovarian clear cell carcinoma	1	<0.1	1	0.3
5882	Metastatic TFE3-rearranged renal cell carcinoma	0	0.0	1	0.3
2319	Myxopapillary ependymoma	11	0.2	6	1.9
5883	Teratoma with somatic type malignancy	9	0.2	5	1.6

Diagno (5836) S	sis Succinate dehydrogenase-deficient renal cell c	arcinoma				
PIP Participants PIPW Partic						
Code	Diagnosis	No.	%	No.	%	
1984	Chromophobe renal cell carcinoma	19	0.3	12	3.9	
1665 5884	Clear cell renal cell carcinoma	16	0.3	3	1.0	
5884	Eosinophilic vacuolated tumor	11	0.2	14	4.5	
5836	Succinate dehydrogenase-deficient renal cell carcinoma	5465	98.9	277	89.1	
5885	TFE3-rearranged renal cell carcinoma	14	0.3	5	1.6	

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(2504) Plexiform neurofibroma

		PIP Participants		PIPW Participants	
Code	Diagnosis	No.	%	No.	%
2499	Dermatofibrosarcoma protuberans	9	0.2	4	1.3
5562	Malignant peripheral nerve sheath tumor	10	0.2	14	4.5
5795	Perineurioma	51	0.9	18	5.8
2504	Plexiform neurofibroma	5408	98.0	258	83.0
1206	Plexiform schwannoma	39	0.7	17	5.5

I-18

Diagnosis

(5888) Tenosynovial giant cell tumor, localized type

		PIP Partici	PIP Participants		PIPW Participants	
Code	Diagnosis	No.	%	No.	%	
1668	Epithelioid sarcoma	7	0.1	4	1.3	
5886	Giant cell fibroblastoma	9	0.2	7	2.3	
5887	Giant cell tumor of soft tissue	85	1.5	31	10.0	
1807	Myoepithelioma	9	0.2	8	2.6	
5888	Tenosynovial giant cell tumor, localized type	5403	98.0	261	83.9	

ase # 2024-19

Diagnosis

(2250) Neuroendocrine carcinoma

(2250) Neuroendochile Carcillottia									
		PIP Partici	PIP Participants		PIPW Participants				
Code	Diagnosis	No.	%	No.	%				
2454	Diffuse large B-cell lymphoma	1	<0.1	1	0.3				
2699	Invasive ductal carcinoma	3	0.1	6	1.9				
1673	Metaplastic carcinoma	6	0.1	6	1.9				
1932	Metastatic small cell lung carcinoma	11	0.2	7	2.3				
2250	Neuroendocrine carcinoma	5465	99.0	276	89.0				
5889	Solid papillary carcinoma	25	0.5	14	4.5				

se # 2024-20

Diagnosis

(5890) Drug-related massive hepatic necrosis

(5690) Drug-related massive nepatic necrosis								
		PIP Partici	pants	PIPW Participants				
Code	Diagnosis	No.	%	No.	%			
1008	Cholangiocarcarcinoma	96	1.7	40	12.9			
1872	Cirrhosis	13	0.2	7	2.3			
5890	Drug-related massive hepatic necrosis	5347	97.0	247	79.4			
5891	Hypoxic ischemic liver injury	43	8.0	10	3.2			
1803	Primary biliary cholangitis	15	0.3	7	2.3			

