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Laboratory Quality Solutions

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## Surveys and Anatomic Pathology Education Programs

### Performance Improvement Program in Surgical Pathology PIP/PIPW-A 2024

Participant Summary

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## 2024 PIP/PIPW-A PARTICIPANT SUMMARY

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### Program Update

This report summarizes the diagnostic responses for set A 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.

### SURGICAL PATHOLOGY COMMITTEE

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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.

<b>Diagnosis</b>					
Hepatic mucormycosis					
Code	Diagnosis	PIP Participants		PIPW Participants	
		No.	%	No.	%
	Hematoma			13	4.2
	Hepatic cryptococcus			62	20.1
	Hepatic histoplasmosis			24	7.8
	Hepatic mucormycosis			187	60.5
	Polymorphous lymphoproliferative disorder in immune deficiency dysregulation			23	7.4

<b>Diagnosis</b>					
Alveolar soft part sarcoma					
Code	Diagnosis	PIP Participants		PIPW Participants	
		No.	%	No.	%
	Alveolar soft part sarcoma			152	50.7
	Granular cell tumor			4	1.3
	Paraganglioma			6	2.0
	Perivascular epithelioid cell tumor (PEComa)			88	29.3
	Rhabdomyoma			8	2.7
	TFE3-rearranged renal cell carcinoma			42	14.0

<b>Diagnosis</b>					
(2068) Synovial sarcoma					
Code	Diagnosis	PIP Participants		PIPW Participants	
		No.	%	No.	%
1668	Epithelioid sarcoma	2	<0.1		
1072	Mesothelioma	25	0.5		
1647	Sarcomatoid carcinoma	21	0.4		
1649	Solitary fibrous tumor	40	0.7		
2068	Synovial sarcoma	5462	98.3		

<b>Diagnosis</b>					
(1649) Solitary fibrous tumor					
Code	Diagnosis	PIP Participants		PIPW Participants	
		No.	%	No.	%
2499	Dermatofibrosarcoma protuberans	27	0.5		
5562	Malignant peripheral nerve sheath tumor	6	0.1		
1649	Solitary fibrous tumor	5501	99.2		
1753	Spindle cell lipoma	8	0.1		
1129	Synovial sarcoma, monophasic	8	0.1		

Diagnosis					
(1901) Gastrointestinal stromal tumor					
Code	Diagnosis	PIP Participants		PIPW Participants	
		No.	%	No.	%
1901	Gastrointestinal stromal tumor	5533	99.6	291	98.3
1646	Leiomyoma	1	<0.1	1	0.3
1780	Schwannoma	0	0.0	0	0.0
1649	Solitary fibrous tumor	10	0.2	2	0.7
2068	Synovial sarcoma	6	0.1	2	0.7

Diagnosis					
(2485) Hepatocellular carcinoma					
Code	Diagnosis	PIP Participants		PIPW Participants	
		No.	%	No.	%
1008	Cholangiocarcinoma	23	0.4	14	4.8
2276	Hepatocellular adenoma	455	8.2	55	18.9
2485	Hepatocellular carcinoma	5032	90.6	204	70.1
2465	Metastatic renal cell carcinoma	14	0.3	5	2.1
1539	Poorly differentiated neuroendocrine carcinoma	27	0.5	12	4.1

Diagnosis					
(1377) Meningioma					
Code	Diagnosis	PIP Participants		PIPW Participants	
		No.	%	No.	%
5868	Primary intracranial sarcoma, <i>DICER1</i> -mutant	4	0.1	8	2.1
1377	Meningioma	5533	99.6	276	95.5
1674	Metastatic melanoma	0	0.0	0	0.0
1780	Schwannoma	9	0.2	4	4.1
1649	Solitary fibrous tumor	4	0.1	1	0.3

Diagnosis					
(1632) Adrenal cortical carcinoma					
Code	Diagnosis	PIP Participants		PIPW Participants	
		No.	%	No.	%
1891	Adrenal cortical adenoma	291	5.2	71	25.3
1632	Adrenal cortical carcinoma	5238	94.3	201	71.5
1665	Clear cell renal cell carcinoma	8	0.1	3	1.1
2485	Hepatocellular carcinoma	2	<0.1	1	0.4
2446	Pheochromocytoma	14	0.3	5	1.8

<b>Diagnosis</b>					
(5872) Congenital neuroblastoma					
Code	Diagnosis	PIP Participants		PIPW Participants	
		No.	%	No.	%
5869	Congenital acute lymphoblastic leukemia	8	0.1	5	1.8
5870	Congenital Ewing sarcoma	7	0.1	3	1.1
5871	Congenital hepatoblastoma	26	0.5	6	2.2
5872	Congenital neuroblastoma	5487	99.0	256	93.1
5873	Congenital Wilms tumor	17	0.3	5	1.8

<b>Diagnosis</b>					
(2454) Diffuse large B-cell lymphoma, EBV+, arising in lymphomatoid granulomatosis					
Code	Diagnosis	PIP Participants		PIPW Participants	
		No.	%	No.	%
2268	Classic Hodgkin lymphoma	36	0.7	18	6.6
2454	Diffuse large B-cell lymphoma, EBV+, arising in lymphomatoid granulomatosis	5462	98.6	245	89.7
5874	Granulomatosis with polyangiitis (Wegener granulomatosis)	16	0.3	2	0.7
5875	Polymorphic lymphoproliferative disorder arising in immune deficiency/dysregulation	19	0.3	8	2.9
1360	Poorly differentiated carcinoma	3	0.1	0	0.0

<b>Diagnosis</b>					
(5876) Adrenal myelolipoma					
Code	Diagnosis	PIP Participants		PIPW Participants	
		No.	%	No.	%
1891	Adrenal cortical adenoma	8	0.1	1	0.4
5876	Adrenal myelolipoma	5199	93.9	225	83.3
2387	Angiomyolipoma	310	5.6	33	12.2
2443	Lipoma	9	0.2	5	1.9
2256	Well-differentiated liposarcoma	11	0.2	6	2.2

<b>Diagnosis</b>					
(2104) Congenital hepatic fibrosis					
Code	Diagnosis	PIP Participants		PIPW Participants	
		No.	%	No.	%
2835	Autosomal dominant polycystic kidney disease	34	0.6	13	4.8
2836	Autosomal recessive polycystic kidney disease	30	0.5	10	3.7
1007	Caroli disease	317	5.7	98	36.4
2104	Congenital hepatic fibrosis	5061	91.5	106	39.4
1355	Polycystic liver disease	95	1.7	42	15.6

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This concludes the report.



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