

Evaluation of Current Practices in Reporting Gynecologic Cytology

*Preliminary Findings
CLIAC Meeting
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Overview of the Project

- ❖ MPHI awarded cooperative agreement by CDC for a 2-year project
- ❖ Purpose: collect data from a national sample of clinicians that order gynecologic cytology tests to inform improvements in laboratory practice
- ❖ MPHI partnered with members of the Michigan Cancer Consortium
- ❖ Two advisory workgroups: Laboratory Professionals & Health Care Providers

Design and Methods

☒ Three phases:

- ☒ Survey development

- ☒ Data collection

- ☒ Analysis and reporting

☒ Multi-modal survey data collection

- ☒ Self-administered questionnaire (mail or fax return)

- ☒ Secure web-based survey

- ☒ Telephone follow-up calls

Survey Tool

- ⊞ Developed with input and review by advisory workgroups
- ⊞ 8 sections
 - ⊞ Background Information
 - ⊞ Specimen Collection
 - ⊞ Testing Ordering Practices
 - ⊞ HPV Testing
 - ⊞ Laboratory Reporting
 - ⊞ Report Format
 - ⊞ Patient Follow-up
 - ⊞ Future Direction

Survey Sample

- ⊞ National sample of physicians and nurses
- ⊞ Participants randomly selected from lists:
 - ⊞ American Medical Association Master File
 - ⊞ Nursing Practitioner List (Medical Marketing Service, Inc.)
- ⊞ Oversample of providers in Michigan

# of records	Specialty						
	Family Practice	Internal Medicine	Adolescent Medicine	OB/GYN	Gyn Onc	NP	CNM
US	1,237	1,238	50	2,500	--	3,534	--
MI	--	--	--	1,000	20	--	322

Survey Administration

- ⊞ Survey pre-testing
- ⊞ Data collected September 2010 - March 2011
 - ⊞ Email pre-notification of survey sent to all participants
 - ⊞ Survey packets mailed to participants in 5 batches
 - ⊞ Follow-up telephone contact to non-responders
- ⊞ Incentives for completion (\$10 gift card to Amazon.com)

Results

- ⊕ 9,164 surveys distributed
- ⊕ 1,595 complete surveys returned
- ⊕ Approximately 17.4% response rate

Analysis

- ⊞ Clinician categories collapsed into 4 categories:
 - ⊞ General Practice/Internal Medicine
 - ⊞ OB/GYN
 - ⊞ Nurse Practitioners (Women's Health)
 - ⊞ Certified Nurse Midwives
- ⊞ Adjustments made to account for the oversample of providers from Michigan
- ⊞ Data presented by provider type to show group differences

Years in practice

Years	General/Family Practice		OB/GYN		NP (Women's Health)		Midwives	
	N	%	N	%	N	%	N	%
<2 Year	4	1.3	6	1.0	6	2.2	8	1.9
2 to <5 Years	17	5.6	36	6.0	10	3.7	16	3.9
5 to <10 Years	53	17.6	73	12.2	16	5.9	64	15.5
10 to <20 Years	102	33.9	207	34.7	121	44.3	169	40.9
20+ Years	125	41.5	274	46.0	120	44.0	156	37.8
Total	301	100.0	596	100.0	273	100.0	413	100.0

Use of electronic medical records

	General/Family Practice		OB/GYN		NP (Women's Health)		Midwives	
	N	%	N	%	N	%	N	%
Yes	182	60.5	351	58.9	130	47.8	245	59.6
No	119	39.5	245	41.1	142	52.2	166	40.4
Total	301	100.0	596	100.0	272	100.0	411	100.0

Laboratory provided instruction on collection

	General/Family Practice		OB/GYN		NP (Women's Health)		Midwives	
	N	%	N	%	N	%	N	%
Yes	203	67.7	448	75.2	206	75.5	275	66.9
No- <i>Would you like instruction?</i>	97	32.3	148	24.8	67	24.5	136	33.1
Yes	44	45.4	30	20.3	24	35.8	59	43.4
No	53	54.6	118	79.7	43	64.2	77	56.6

Method used most frequently for collection

	General/Family Practice		OB/GYN		NP (Women's Health)		Midwives	
	N	%	N	%	N	%	N	%
ThinPrep®	227	75.9	457	76.8	202	74.0	296	71.8
SUREPATH®	41	13.7	108	18.2	45	16.5	83	20.1
Conventional glass slide smear technique	24	8.0	17	2.9	24	8.8	21	5.1
Other	3	1.0	3	0.5	2	0.7	5	1.2
Total	299	100.0	595	100.0	273	100.0	412	100.0

How familiar are you with the CLIA that stipulate information provided in lab reports?

	General/Family Practice		OB/GYN		NP (Women's Health)		Midwives	
	N	%	N	%	N	%	N	%
Very Familiar	31	10.7	49	8.4	32	11.9	24	6.0
Somewhat Familiar	131	45.0	266	45.6	129	48.0	171	43.0
Not at all familiar	129	44.3	268	46.0	108	40.1	203	51.0
Total	291	100.0	583	100.0	269	100.0	398	100.0

Factors considered when choosing laboratory

	General/Family Practice		OB/GYN		NP (Women's Health)		Midwives	
	N	%	N	%	N	%	N	%
Cost	85	28.3	229	38.6	116	43.1	138	34.3
Turnaround time	103	34.3	304	51.3	112	41.6	116	28.9
Reputation	98	32.7	292	49.2	88	32.7	101	25.1
Pass/fail rate on proficiency testing	32	10.7	72	12.1	39	14.5	31	7.7
Insurance requirements	127	42.3	340	57.3	114	42.4	170	42.3
Provides regular test quality stats	42	14.0	132	22.3	46	17.1	45	11.2
Is included with clinical laboratory in contract	84	28.0	141	23.8	80	29.7	107	26.6

Does the laboratory utilize computer-assisted screening practice?

	General/Family Practice		OB/GYN		NP (Women's Health)		Midwives	
	N	%	N	%	N	%	N	%
Yes	151	52.2	401	69.3	159	60.7	199	50.1
No	9	3.1	33	5.7	11	4.2	13	3.3
Not Sure	129	44.6	145	25.0	92	35.1	185	46.6
Total	289	100.0	579	100.0	262	100.0	397	100.0

Do you ever order HPV tests?

	General/Family Practice		OB/GYN		NP (Women's Health)		Midwives	
	N	%	N	%	N	%	N	%
No	54	18.2	24	4.1	19	7.0	26	6.4
Yes - Which type?	238	80.1	560	94.9	253	92.7	376	92.4
Low risk HPV	19	6.4	25	4.2	13	4.8	24	5.9
Low & high risk together	96	32.3	110	18.6	66	24.2	122	30.0
High risk HPV	138	46.5	449	76.1	195	71.4	253	62.2

How often does the laboratory provide data on unsatisfactory specimen rates?

	General/Family Practice		OB/GYN		NP (Women's Health)		Midwives	
	N	%	N	%	N	%	N	%
All of the time	116	43.9	226	43.2	105	46.1	163	47.7
Most of the time	20	7.6	39	7.5	16	7.0	21	6.1
Some of the time	45	17.0	86	16.4	24	10.5	38	11.1
Rarely or never	75	28.4	156	29.8	76	33.3	102	29.8
Other	8	3.0	16	3.1	7	3.1	18	5.3
Total	264	100.0	523	100.0	228	100.0	342	100.0

Past 6 months, on average, percent of Pap tests for your practice setting were reported by the laboratory as unsatisfactory?

	General/Family Practice		OB/GYN		NP (Women's Health)		Midwives	
	N	%	N	%	N	%	N	%
Less Than 1%	123	53.5	262	54.6	133	66.5	157	64.9
1% to 3%	74	32.2	175	36.5	49	24.5	67	27.7
3% to 5%	23	10.0	38	7.9	13	6.5	11	4.5
5% to 10%	9	3.9	4	0.8	4	2.0	7	2.9
10% or More	1	0.4	1	0.2	1	0.5	0	0.0
Total	230	100.0	480	100.0	200	100.0	242	100.0

Past 6 months, average turnaround time

	General/Family Practice		OB/GYN		NP (Women's Health)		Midwives	
	N	%	N	%	N	%	N	%
Less than 1 day	0	0.0	0	0.0	0	0.0	0	0.0
1 to 3 days	73	25.3	126	21.7	47	17.6	77	19.5
4 to 7 days	154	53.5	334	57.6	127	47.6	215	54.6
More than 7 days	61	21.2	120	20.7	93	34.8	102	25.9
Total	288	100.0	580	100.0	267	100.0	394	100.0

Regarding the level of involvement of the laboratory in promoting patient follow-up, would you prefer the laboratory be:

	General/Family Practice		OB/GYN		NP (Women's Health)		Midwives	
	N	%	N	%	N	%	N	%
Much more involved	54	18.1	114	19.5	34	12.6	45	11.2
Somewhat more involved	114	38.3	161	27.5	66	24.5	131	32.6
No change	122	40.9	298	50.9	165	61.3	214	53.2
Somewhat less involved	6	2.0	5	0.9	3	1.1	7	1.7
Much less involved	2	0.7	8	1.4	1	0.4	5	1.2
Total	298	100.0	586	100.0	269	100.0	402	100.0

How often does the laboratory include recommendations for patient follow up in the report?

	General/Family Practice		OB/GYN		NP (Women's Health)		Midwives	
	N	%	N	%	N	%	N	%
All of the time	42	14.3	80	13.6	40	14.7	66	16.2
Most of the time	52	17.7	94	16.0	45	16.5	62	15.2
Some of the time	60	20.5	154	26.2	54	19.9	62	15.2
Rarely or none of the time	139	47.4	259	44.1	133	48.9	217	53.3
Total	293	100.0	587	100.0	272	100.0	407	100.0

When recommendations for follow up are included in the lab report, how often are they consistent with your clinical judgment?

	General/Family Practice		OB/GYN		NP (Women's Health)		Midwives	
	N	%	N	%	N	%	N	%
All of the time	31	16.5	33	8.4	29	17.2	29	13.1
Most of the time	133	70.7	290	73.4	118	69.8	160	72.1
Some of the time	21	11.2	64	16.2	19	11.2	29	13.1
Rarely or none of the time	3	1.6	8	2.0	3	1.8	4	1.8
Total	188	100.0	395	100.0	169	100.0	222	100.0

Do you believe that the HPV-DNA test will replace the Pap test for primary screening?

	General/Family Practice		OB/GYN		NP (Women's Health)		Midwives	
	N	%	N	%	N	%	N	%
Yes	55	18.4	179	30.5	84	31.0	107	26.3
No	166	55.5	290	49.4	121	44.6	179	44.0
Not Sure	78	26.1	118	20.1	66	24.4	121	29.7
Total	299	100.0	587	100.0	271	100.0	407	100.0

Do you expect a reduction in the number of Pap tests you will order in the next five years?

	General/Family Practice		OB/GYN		NP (Women's Health)		Midwives	
	N	%	N	%	N	%	N	%
Yes	159	53.5	381	64.6	208	76.5	275	67.7
No	108	36.4	168	28.5	45	16.5	87	21.4
Not Sure	30	10.1	41	6.9	19	7.0	44	10.8
Total	297	100.0	590	100.0	272	100.0	406	100.0

What do you think will be the reason for the decrease in Pap tests you order?

	General/Family Practice		OB/GYN		NP (Women's Health)		Midwives	
	N	%	N	%	N	%	N	%
Changing guidelines	147	90.2	328	85.6	190	90.9	249	88.9
Pap test and HPV co-testing	73	44.8	197	51.4	119	56.9	138	49.3
HPV testing as primary screening	33	20.2	104	27.2	67	32.1	66	23.6
Referring more patients to OB-GYN	15	5.0	6	1.6	3	1.4	1	0.4
Changes in patient insurance	34	20.9	75	19.6	48	23.0	66	23.6

Discussion

- ❖ Were you surprised with any of the findings? If so, what surprised you?
- ❖ Based upon findings of this survey, what is your impression of the laboratory's role and/or responsibilities going forward?
- ❖ Based upon your experience, do you agree with the predictions regarding future trends?

Conclusion

- ⊞ Analyses are being finalized
- ⊞ Final report is being written
- ⊞ Preparation of a manuscript will be completed and submitted this year
- ⊞ Thank you for your feedback!