

Special Communication to *JPAE*:

Rebirth of the Curriculum Survey Report

The Curriculum Survey portion of the *PAEA Annual Report on Physician Assistant Educational Programs in the United States* has long been considered a valuable tool for physician assistant (PA) educators seeking to compare their program's structure to others for a wide variety of purposes. Historically, the Curriculum Survey was administered annually from 1983-1984 to 1990-1991, and then transitioned to an every 3- to 4-year schedule. However, recent changes in the housing and administration of the Annual Program Survey led to a delay in administration of the curriculum portion of the survey, so that the most recent published version of the Curriculum Survey results is now almost 10 years old, located in the 19th Annual Report (2002-2003).¹

After a pause to allow for some reflective critical analysis and redesign, results from the 2010 Curriculum Survey are now available. The survey instrument was redesigned with the goal of improving the quality of the information to be gathered. It had become clear over time that PA educators were not using a uniform method of reporting contact hours. In the new version of the instrument, the term "contact hours" was defined carefully, and examples were given to improve the validity of the information collected. Additionally, the categories in the survey have been updated and expanded to better reflect a modern version of PA education.

In an effort to present this information as quickly as possible, a series of 49 data tables will be published online immediately, to be followed later this year by an executive summary highlighting some of the key findings from the survey. The tables will address the following general topics: overall program structure, basic medical sciences, clinical preparatory sciences, behavioral and social sciences, research curriculum, health policy and professional practice, and supervised clinical practice.

The survey results are exciting and illustrate the rapidly changing and varied landscape of PA education. As the tables show, there are a variety of ways to effectively educate PA students. We all know this intuitively, but it is nonetheless intriguing to investigate the data that show us the range of possibilities. Besides a basic overview of the time devoted to various topics across the typical PA curriculum, the updated version of the survey provides additional insight into *how* we educate PAs. The tables include enhanced information regarding interprofessional education, which is used extensively by PA programs across the country, and also some interesting insight into the use of both traditional and innovative teaching methods in the didactic and clinical phases of PA education.

Authors: Scott C, Bouchard G, Brock D, Davison M, Dehn R, Hegmann T, Link M, Morgan P, and Niebuhr B.

¹ Simon A, Link M, and Miko A. *Nineteenth Annual Report on Physician Assistant Educational Programs in the United States, 2002-2003*. Association of Physician Assistant Programs, August 2003.

**Physician Assistant Education Association
2010 Curriculum Survey**

Table 1-1. Type of Academic Credit Awarded

Academic Credit Type	Programs	
	N	%
Credits	25	28.7
Credit hours	33	37.9
Semester hours	24	27.6
Other, specify	5	5.7
Total	87	100.0

Source: 2010 Curriculum Survey
July 12, 2012

**Physician Assistant Education Association
2010 Curriculum Survey**

Table 1-2. Mean Academic Credit Hours Required for Completion of Program

Type of Academic Credit	Mean	Median	Std. Deviation	Percentiles					Programs
				P5	P25	P50	P75	P95	N
Didactic/classroom	63.8	62.0	16.8	38.8	53.0	62.0	77.0	90.6	87
Clinical rotation/supervised practice	44.5	46.0	15.3	16.4	34.0	46.0	55.0	69.6	87
Total	108.3	104.0	27.4	60.8	92.0	104.0	125.0	162.6	87

Source: 2010 Curriculum Survey
July 12, 2012

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Table 1-3. Number of Weeks of Study Required for Completion of Program

Type of Academic Credit	Std.			Percentiles					Programs
	Mean	Median	Deviation	P5	P25	P50	P75	P95	N
Didactic/classroom	52.7	50.0	12.0	40.0	45.0	50.0	60.0	75.4	87
Clinical rotation/supervised practice	51.1	49.0	6.6	43.4	48.0	49.0	54.0	64.0	87
Total	103.8	102.0	13.0	87.4	94.0	102.0	112.0	126.2	87

Source: 2010 Curriculum Survey
July 12, 2012

**Physician Assistant Education Association
2010 Curriculum Survey**

Table 1-4. Total Number of Contact Hours Required for Supervised Clinical Practice

	Mean	Median	Std. Deviation	Percentiles					Programs
				P5	P25	P50	P75	P95	N
Contact hours	1,993.0	1,920.0	593.0	1,186.0	1,800.0	1,920.0	2,200.0	2,880.0	83

Source: 2010 Curriculum Survey
July 12, 2012

**Physician Assistant Education Association
2010 Curriculum Survey**

Table 1-5. Total Number of Weeks of Vacation or Break Time

	Mean	Median	Std. Deviation	Percentiles					Programs
				P5	P25	P50	P75	P95	N
Total weeks of vacation/break	9.5	8.8	5.5	2.0	6.0	8.8	11.3	21.7	86

Source: 2010 Curriculum Survey
July 12, 2012

**Physician Assistant Education Association
2010 Curriculum Survey**

Table 2-1. Basic Medical Sciences: Mean Hours of Instruction ¹

		Lecture/Discussion	Lab/Practicum	Total Instruction
Mean		282.8	61.8	342.4
Median (P50)		263.0	56.0	317.0
Std. deviation		146.2	41.3	160.6
Percentiles	P5	86.9	8.0	127.3
	P25	223.4	30.0	266.0
	P50	263.0	56.0	317.0
	P75	336.5	87.0	392.4
	P95	518.0	144.0	572.7
N		82	79	82

¹Calculations are based on programs reporting instructional hours > 0.

Source: 2010 Curriculum Survey

July 12, 2012

**Physician Assistant Education Association
2010 Curriculum Survey**

Table 2-2. Basic Medical Sciences: Mean Lecture/Lab Combined Hours of Instruction

Basic Medical Science Courses	Lecture/Lab Combined Hours of Instruction ¹								Number of Programs ²					
	Mean	Median (P50)	Std. Deviation	Percentiles					Instructional ³ Hours > 0		No Instructional Hours		Missing	
				P5	P25	P50	P75	P95	N	%	N	%	N	%
Anatomy	102.4	91.0	56.1	12.5	61.8	91.0	132.8	216.4	82	93.2	0	0.0	6	6.8
Physiology	59.4	55.0	35.1	14.0	41.3	55.0	75.0	122.8	75	85.2	7	8.0	6	6.8
Pathophysiology	65.4	45.0	73.9	9.3	30.0	45.0	70.0	276.5	77	87.5	5	5.7	6	6.8
Pharmacology and pharmacotherapeutics	86.8	84.0	38.5	27.9	67.0	84.0	97.0	153.0	81	92.0	1	1.1	6	6.8
Genetics and molecular mechanisms of	18.2	12.0	16.9	3.7	7.8	12.0	21.0	53.1	73	83.0	9	10.2	6	6.8
Medical terminology	12.8	8.0	12.9	1.0	3.5	8.0	15.0	44.7	25	28.4	57	64.8	6	6.8
Microbiology	27.8	21.0	26.1	4.0	9.8	21.0	38.5	82.5	54	61.4	28	31.8	6	6.8

¹ Calculations are based on programs reporting instructional hours > 0.

² Percentage of programs are calculated based on the 88 programs that were administered the survey.

³ Instructional hours are calculated by summing lecture, discussion, lab, and practicum hours.

Source: 2010 Curriculum Survey

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**Physician Assistant Education Association
2010 Curriculum Survey**

Table 2-3. Basic Medical Sciences: Mean Lecture/Discussion Hours of Instruction

Basic Medical Science Courses	Lecture/Discussion Hours of Instruction ¹								Number of Programs ²					
	Mean	Median (P50)	Std. Deviation	Percentiles					Lecture/Discussion Hours > 0		No Lecture/Discussion Hours		Missing	
				P5	P25	P50	P75	P95	N	%	N	%	N	%
Anatomy	53.5	45.0	33.7	7.4	35.8	45.0	65.3	105.0	82	93.2	0	0.0	6	6.8
Physiology	54.8	53.0	34.4	14.0	37.0	53.0	66.0	120.4	75	85.2	7	8.0	6	6.8
Pathophysiology	63.2	45.0	68.2	9.3	30.0	45.0	67.0	272.0	77	87.5	5	5.7	6	6.8
Pharmacology and pharmacotherapeutics	85.6	82.0	39.1	27.1	64.0	82.0	96.0	153.0	81	92.0	1	1.1	6	6.8
Genetics and molecular mechanisms of disease	17.9	12.0	17.0	3.7	7.0	12.0	21.0	53.1	73	83.0	9	10.2	6	6.8
Medical terminology	12.8	8.0	12.9	1.0	3.5	8.0	15.0	44.7	25	28.4	57	64.8	6	6.8
Microbiology	23.6	20.0	18.0	3.0	8.8	20.0	37.0	50.5	54	61.4	28	31.8	6	6.8

¹Calculations are based on programs reporting lecture/discussion hours > 0.

²Percentage of programs are calculated based on the 88 programs that were administered the survey.

Source: 2010 Curriculum Survey

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Table 2-4. Basic Medical Sciences: Mean Lab/Practicum Hours of Instruction

Basic Medical Science Courses	Lab/Practicum Hours of Instruction ¹								Number of Programs ²					
	Mean	Median (P50)	Std. Deviation	Percentiles					Lab/Practicum Hours > 0		No Lab/Practicum Hours		Missing	
				P5	P25	P50	P75	P95	N	%	N	%	N	%
Anatomy	50.8	45.0	34.5	3.0	21.0	45.0	70.0	111.0	79	89.8	3	3.4	6	6.8
Physiology	19.4	15.0	14.4	2.0	9.8	15.0	24.4	--	18	20.5	64	72.7	6	6.8
Pathophysiology	21.2	5.5	29.0	1.0	2.3	5.5	43.1	--	8	9.1	74	84.1	6	6.8
Pharmacology and pharmacotherapeutics	14.7	5.0	16.8	2.0	2.0	5.0	30.0	--	7	8.0	75	85.2	6	6.8
Genetics and molecular mechanisms of disease	2.9	3.0	0.8	2.0	2.0	3.0	3.8	--	8	9.1	74	84.1	6	6.8
Medical terminology	--	--	--	--	--	--	--	--	0	0.0	82	93.2	6	6.8
Microbiology	15.1	4.0	17.3	1.0	3.0	4.0	30.0	--	15	17.0	67	76.1	6	6.8

¹Calculations are based on programs reporting lab/practicum hours > 0.

² Percentage of programs are calculated based on the 88 programs that were administered the survey.

"--" = insufficient data necessary to calculate statistic.

Source: 2010 Curriculum Survey

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Table 2-5. Basic Medical Sciences: Self-Instructional Module Utilized by Course

Basic Medical Science Courses	Number of Programs	
	Reporting Self-Instructional Module Used¹	
	N²	%
Anatomy	4	4.9
Physiology	3	3.7
Pathophysiology	1	1.2
Pharmacology and pharmacotherapeutics	7	8.5
Genetics and molecular mechanisms of disease	14	17.1
Medical terminology	35	42.7
Microbiology	3	3.7

¹ Percentage of programs using a self-instructional module is calculated by dividing the number of programs using a self-instructional module for each course by the total number of programs that responded to this section (N=82).

² N refers to programs indicating "any part of the curriculum taught in a self-instructional module."

Source: 2010 Curriculum Survey

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Table 2-6. Basic Medical Sciences: Number of Programs Reporting Interprofessional Students by Course and Type of Student

Basic Medical Science Courses	Interprofessional Students ¹						Instructional ² Hours > 0	Type of Interprofessional Student ^{3,4}									
	Any		None		Not Reported			Medical		Advanced Practice Nursing		Physical Therapy		Pharmacology		Other Inter-professional	
	N	%	N	%	N	%	N	N	%	N	%	N	%	N	%	N	%
Anatomy	32	39.0	46	56.1	4	4.9	82	7	21.9	3	9.4	17	53.1	3	9.4	19	59.4
Physiology	22	29.3	49	65.3	4	5.3	75	1	4.5	4	18.2	9	40.9	3	13.6	14	63.6
Pathophysiology	10	13.0	64	83.1	3	3.9	77	1	10.0	2	20.0	3	30.0	2	20.0	7	70.0
Pharmacology and pharmacotherapeutics	8	9.9	69	85.2	4	4.9	81	3	37.5	4	50.0	0	0.0	1	12.5	0	0.0
Genetics and molecular mechanisms of disease	5	6.8	64	87.7	4	5.5	73	2	40.0	1	20.0	2	40.0	3	60.0	3	60.0
Medical terminology	1	4.0	24	96.0	0	0.0	25	0	0.0	1	100.0	1	100.0	1	100.0	1	100.0
Microbiology	1	1.9	47	87.0	6	11.1	54	0	0.0	1	100.0	1	100.0	1	100.0	1	100.0

¹ The number and percentage of programs reporting under the categories Any, None, or Not Reported are calculated from programs reporting instructional hours > 0 for each course.

² Instructional hours are calculated by summing lecture, discussion, lab, and practicum hours.

³ The number and percentage of programs reporting one or more type of interprofessional student is calculated based on the number of programs reporting any interprofessional student for each course.

⁴ Programs may include more than one type of interprofessional student in their courses. Therefore, the number of programs across type of interprofessional student may sum to more than the total.

Source: 2010 Curriculum Survey
July 12, 2012

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Table 2-7. Basic Medical Sciences: Teaching Methods

Basic Medical Sciences Courses	Lectures		Group Discussions		Seminars		Online Coursework		Simulations		Clinical Skills Lab		Labs		Patient or Case-Based Learning		Interactions with Preceptors		OSCEs		Standardized Patients		Team-Based Learning		Instructional ² Hours > 0	
	N	%	N	%	N	%	N	%	N	%	N	%	N	%	N	%	N	%	N	%	N	%	N	%	N	
Anatomy	81	98.8	30	36.6	6	7.3	17	20.7	5	6.1	9	11.0	69	84.1	20	24.4	10	12.2	4	4.9	5	6.1	14	17.1		82
Physiology	73	97.3	22	29.3	6	8.0	8	10.7	1	1.3	3	4.0	16	21.3	25	33.3	8	10.7	2	2.7	5	6.7	9	12.0		75
Pathophysiology	76	98.7	28	36.4	4	5.2	6	7.8	1	1.3	2	2.6	2	2.6	31	40.3	7	9.1	7	9.1	5	6.5	6	7.8		77
Pharmacology and pharmacotherapeutics	81	100.0	34	42.0	7	8.6	13	16.0	3	3.7	2	2.5	0	0.0	38	46.9	13	16.0	13	16.0	9	11.1	10	12.3		81
Genetics and molecular mechanisms of disease	71	97.3	19	26.0	5	6.8	15	20.5	0	0.0	0	0.0	1	1.4	25	34.2	6	8.2	2	2.7	4	5.5	7	9.6		73
Medical terminology	18	72.0	3	12.0	2	8.0	11	44.0	0	0.0	0	0.0	0	0.0	13	52.0	6	24.0	1	4.0	1	4.0	3	12.0		25
Microbiology	52	96.3	13	24.1	3	5.6	5	9.3	0	0.0	2	3.7	15	27.8	14	25.9	6	11.1	1	1.9	1	1.9	5	9.3		54

¹Calculations are based on programs reporting combined instructional hours > 0.

²Instructional hours are calculated by summing lecture, discussion, lab, and practicum hours.

Source: 2010 Curriculum Survey

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**Physician Assistant Education Association
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Table 3-1. Clinical Preparatory Sciences: Mean Hours of Instruction¹

		Lecture/Discussion	Lab/Practicum	Total
Mean		428.5	124.8	553.3
Median (P50)		367.0	108.0	505.0
Std. deviation		442.5	92.5	455.4
Range		3806.5	653.0	3932.5
Percentiles	P5	109.5	29.4	192.8
	P25	243.5	77.3	353.0
	P50	367.0	108.0	505.0
	P75	492.8	150.0	627.8
	P95	628.9	250.8	990.5
N		80	80	80

¹Calculations are based on programs reporting instructional hours > 0.

Source: 2010 Curriculum Survey

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**Physician Assistant Education Association
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Table 3-2. Clinical Preparatory Sciences: Mean Lecture/Lab Combined Hours of Instruction

Clinical Preparatory Science Courses	Lecture/Lab Combined Hours of Instruction ¹								Number of Programs ²					
	Mean	Median (P50)	Std. Deviation	Percentiles					Instructional ³ Hours > 0		No Instructional Hours		Missing	
				P5	P25	P50	P75	P95	N	%	N	%	N	%
History/interviewing skills	45.6	38.0	33.2	11.5	20.0	38.0	60.0	112.5	79	89.8	1	1.1	8	9.1
Physical assessment/ examination skills	98.9	86.0	69.6	35.0	60.0	86.0	120.0	218.0	79	89.8	1	1.1	8	9.1
Clinical medicine	317.6	244.0	454.3	58.2	173.0	244.0	336.0	538.9	77	87.5	3	3.4	8	9.1
Technical skills/procedures	58.4	45.0	43.6	12.0	30.0	45.0	67.0	152.8	77	87.5	3	3.4	8	9.1
ACLS	16.9	16.0	8.2	8.0	12.0	16.0	19.0	40.0	65	73.9	15	17.0	8	9.1
Laboratory medicine	38.3	38.0	22.1	6.0	20.5	38.0	54.5	78.6	73	83.0	7	8.0	8	9.1

¹ Calculations are based on programs reporting instructional hours > 0.

² Percentage of programs are calculated based on the 88 programs that were administered the survey.

³ Instructional hours are calculated by summing lecture, discussion, lab, and practicum hours.

Source: 2010 Curriculum Survey

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Table 3-3. Clinical Preparatory Sciences: Mean Lecture/Discussion Hours of Instruction

Clinical Preparatory Science Courses	Lecture/Discussion Hours of Instruction ¹								Number of Programs ²					
	Mean	Median (P50)	Std. Deviation	Percentiles					Lecture/ Discussion Hours > 0		No Lecture/ Discussion Hours		Missing	
				P5	P25	P50	P75	P95	N	%	N	%	N	%
History/interviewing skills	26.6	21.5	19.9	4.9	12.0	21.5	35.0	67.4	78	88.6	2	2.3	8	9.1
Physical assessment/ examination skills	44.7	36.0	25.9	17.6	26.5	36.0	60.0	93.2	77	87.5	3	3.4	8	9.1
Clinical medicine	306.8	232.0	447.1	56.6	152.0	232.0	335.0	538.9	77	87.5	3	3.4	8	9.1
Technical skills/procedures	31.1	24.5	26.6	3.7	14.0	24.5	40.0	80.2	72	81.8	8	9.1	8	9.1
ACLS	9.7	8.0	5.7	2.0	8.0	8.0	11.5	23.6	61	69.3	19	21.6	8	9.1
Laboratory medicine	31.6	30.0	19.1	5.4	20.0	30.0	45.0	72.3	73	83.0	7	8.0	8	9.1

¹Calculations are based on programs reporting lecture/discussion hours > 0.

²Percentage of programs are calculated based on the 88 programs that were administered the survey.

Source: 2010 Curriculum Survey

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Table 3-4. Clinical Preparatory Sciences: Mean Lab/Practicum Hours of Instruction

Clinical Preparatory Science Courses	Lab/Practicum Hours of Instruction ¹								Number of Programs ²					
	Mean	Median (P50)	Std. Deviation	Percentiles					Lab/Practicum Hours > 0		No Lab/ Practicum Hours		Missing	
				P5	P25	P50	P75	P95	N	%	N	%	N	%
History/interviewing skills	22.1	15.0	21.1	2.0	6.5	15.0	31.0	73.5	69	78.4	11	12.5	8	9.1
Physical assessment/ examination skills	56.8	40.0	63.0	11.8	25.0	40.0	66.0	130.4	77	87.5	3	3.4	8	9.1
Clinical medicine	34.6	25.5	32.5	2.8	11.5	25.5	44.0	123.8	24	27.3	56	63.6	8	9.1
Technical skills/procedures	33.2	25.5	27.7	6.9	16.3	25.5	42.0	78.7	68	77.3	12	13.6	8	9.1
ACLS	9.1	8.0	5.4	3.9	5.0	8.0	11.5	20.6	56	63.6	24	27.3	8	9.1
Laboratory medicine	13.0	10.0	11.9	1.9	2.0	10.0	25.8	30.8	38	43.2	42	47.7	8	9.1

¹Calculations are based on programs reporting lab/practicum hours > 0.

²Percentage of programs are calculated based on the 88 programs that were administered the survey.

Source: 2010 Curriculum Survey

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Table 3-5. Clinical Preparatory Sciences: Self-Instructional Module Used by Course

Clinical Preparatory Science Courses	Number of Programs Reporting Self-Instructional Module Used¹	
	N²	%
History/interviewing skills	4	5.0
Physical assessment/examination	5	6.3
Clinical medicine	4	5.0
Technical skills/procedures	3	3.8
ACLS	6	7.5
Laboratory medicine	2	2.5

¹Percentage of programs using a self-instructional module is calculated by dividing the number of programs using a self-instructional module for each course by the total number of programs that responded to this section (N=80).

² N refers to programs indicating "any part of the curriculum taught in a self-instructional module."

Source: 2010 Curriculum Survey

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Table 3-6. Clinical Preparatory Sciences: Number of Programs Reporting Interprofessional Students by Course and Type of Student

Clinical Preparatory Science Courses	Interprofessional Students ¹						Instructional ² Hours > 0	Type of Interprofessional Student ^{3,4}									
	Any		None		Not Reported			Medical		Advanced Practice Nursing		Physical Therapy		Pharmacology		Other Interprofessional	
	N	%	N	%	N	%		N	%	N	%	N	%	N	%	N	%
History/interviewing skills	3	3.8	74	93.7	2	2.5	79	2	66.7	1	33.3	1	33.3	1	33.3	2	66.7
Physical assessment/ examination skills	2	2.5	74	93.7	3	3.8	79	0	0.0	0	0.0	0	0.0	0	0.0	2	100.0
Clinical medicine	5	6.5	69	89.6	3	3.9	77	5	100.0	0	0.0	0	0.0	0	0.0	1	20.0
Technical skills/procedures	2	2.6	72	93.5	3	3.9	77	2	100.0	1	50.0	0	0.0	1	50.0	0	0.0
ACLS	5	7.7	59	90.8	1	1.5	65	4	80.0	1	20.0	0	0.0	0	0.0	1	20.0
Laboratory medicine	0	0.0	72	98.6	1	1.4	73	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0

¹The number and percentage of programs reporting under the categories Any, None, or Not Reported are calculated from programs reporting instructional hours > 0 for each course.

²Instructional hours are calculated by summing lecture, discussion, lab, and practicum hours.

³The number and percentage of programs reporting one or more type of interprofessional student is calculated based on the number of programs reporting any interprofessional student

⁴Programs may include more than one type of interprofessional student in their courses. Therefore, the number of programs across type of interprofessional student may sum to more than

Source: 2010 Curriculum Survey

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Table 3-7. Clinical Preparatory Sciences: Teaching Methods

Clinical Preparatory Science Courses	Teaching Methods ¹																				Instructional ² Hours > 0				
	Lectures		Group Discussions		Seminars		Online Coursework		Simulations		Clinical Skills Labs		Labs		Patient or Case-Based Learning		Interactions with Preceptors		OSCEs			Standardized Patients		Team-Based Learning	
	N	%	N	%	N	%	N	%	N	%	N	%	N	%	N	%	N	%	N	%		N	%	N	%
History/interviewing skills	78	98.7	50	63.3	5	6.3	9	11.4	32	40.5	43	54.4	13	16.5	48	60.8	33	41.8	42	53.2	57	72.2	20	25.3	79
Physical assessment/ examination skills	77	97.5	40	50.6	4	5.1	7	8.9	36	45.6	62	78.5	14	17.7	43	54.4	34	43.0	44	55.7	50	63.3	18	22.8	79
Clinical medicine	77	100.0	38	49.4	12	15.6	17	22.1	11	14.3	11	14.3	7	9.1	49	63.6	23	29.9	18	23.4	17	22.1	17	22.1	77
Technical	75	97.4	14	18.2	3	3.9	10	13.0	30	39.0	73	94.8	14	18.2	15	19.5	23	29.9	14	18.2	6	7.8	12	15.6	77
ACLS	61	93.8	14	21.5	3	4.6	7	10.8	40	61.5	43	66.2	7	10.8	13	20.0	7	10.8	1	1.5	0	0.0	15	23.1	65
Laboratory medicine	71	97.3	24	32.9	1	1.4	8	11.0	7	9.6	20	27.4	22	30.1	27	37.0	17	23.3	6	8.2	3	4.1	9	12.3	73

¹Calculations are based on programs reporting combined instructional hours > 0.

²Instructional hours are calculated by summing lecture, discussion, lab, and practicum hours.

Source: 2010 Curriculum Survey

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**Physician Assistant Education Association
2010 Curriculum Survey**

Table 4-1. Behavioral and Social Sciences: Mean Hours of Instruction¹

		Lecture/Discussion	Lab/Practicum	Total Instruction
Mean		47.9	15.3	54.0
Median (P50)		40.5	10.0	44.0
Std. deviation		28.5	15.2	34.9
Percentiles	P5	11.0	2.0	12.0
	P25	24.8	6.0	29.5
	P50	40.5	10.0	44.0
	P75	70.9	20.0	72.8
	P95	103.2	56.0	120.3
N		78	31	78

¹Calculations are based on programs reporting instructional hours > 0.

Source: 2010 Curriculum Survey

July 12, 2012

**Physician Assistant Education Association
2010 Curriculum Survey**

Table 4-2. Behavioral and Social Sciences: Mean Lecture/Lab Combined Hours of Instruction

Behavioral and Social Science Courses	Lecture/Lab Combined Hours of Instruction¹					Number of Programs²								
	Mean	Median (P50)	Std. Deviation	Percentiles					Instructional³ Hours > 0		No Instructional Hours		Missing	
				P5	P25	P50	P75	P95	N	%	N	%	N	%
Psychological development	15.8	10.0	14.2	2.0	6.0	10.0	25.3	48.1	78	88.6	0	0.0	10	11.36
Human sexuality	7.8	5.0	7.3	2.0	4.0	5.0	10.0	24.8	74	84.1	4	4.5	10	11.36
Counseling skills	14.9	10.0	13.0	2.0	6.5	10.0	20.0	45.0	73	83.0	5	5.7	10	11.36
Psychological/interpersonal/ cultural health factors	17.8	10.5	15.7	2.0	8.0	10.5	27.0	48.5	74	84.1	4	4.5	10	11.36

¹ Calculations are based on programs reporting instructional hours > 0.

² Percentage of programs are calculated based on the 88 programs that were administered the survey.

³ Instructional hours are calculated by summing lecture, discussion, lab, and practicum hours.

Source: 2010 Curriculum Survey

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**Physician Assistant Education Association
2010 Curriculum Survey**

Table 4-3. Behavioral and Social Sciences: Mean Lecture/Discussion Hours of Instruction

Behavioral and Social Science Courses	Lecture/Discussion Hours of Instruction¹								Number of Programs²					
	Mean	Median (P50)	Std. Deviation	Percentiles					Lecture/Discussion Hours > 0		No Lecture/ Discussion Hours		Missing	
				P5	P25	P50	P75	P95	N	%	N	%	N	%
Psychological development	15.1	10.0	13.7	2.0	6.0	10.0	23.3	45.2	78	88.6	0	0.0	10	11.4
Human sexuality	7.3	4.0	6.1	2.0	3.9	4.0	10.0	20.6	74	84.1	4	4.5	10	11.4
Counseling skills	11.9	10.0	10.0	2.0	4.0	10.0	15.0	32.1	73	83.0	5	5.7	10	11.4
Psychological/interpersonal/ cultural health factors	15.5	10.0	13.7	2.0	6.0	10.0	20.5	45.0	74	84.1	4	4.5	10	11.4

¹Statistics are based on programs reporting lecture/discussion hours > 0.

²Percentage of programs are calculated based on the 88 programs that were administered the survey.

Source: 2010 Curriculum Survey

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Table 4-4. Behavioral and Social Sciences: Mean Lab/Practicum Hours of Instruction

Behavioral and Social Science Courses	Lab/Practicum Hours of Instruction ¹								Number of Programs ²					
	Mean	Median (P50)	Std. Deviation	Percentiles					Lab/Practicum Hours > 0		No Lab/ Practicum Hours		Missing	
				P5	P25	P50	P75	P95	N	%	N	%	N	%
Psychological development	10.2	10.0	6.4	4.0	4.5	10.0	16.0	--	5	5.7	73	83.0	10	11.4
Human sexuality	5.9	5.0	4.6	2.0	2.0	5.0	8.0	--	7	8.0	71	80.7	10	11.4
Counseling skills	8.3	6.0	7.2	1.7	2.0	6.0	12.0	28.3	26	29.5	52	59.1	10	11.4
Psychological/interpersonal/ cultural health factors	9.8	5.0	9.7	1.5	4.0	5.0	15.0	--	17	19.3	61	69.3	10	11.4

¹Calculations are based on programs reporting lab/practicum hours > 0.

²Percentage of programs are calculated based on the 88 programs that were administered the survey.

"--" = insufficient data necessary to calculate statistic.

Source: 2010 Curriculum Survey

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**Physician Assistant Education Association
2010 Curriculum Survey**

Table 4-5. Behavioral and Social Sciences: Self-Instructional Module Used by Course

Behavioral and Social Science Courses	Number of Programs Reporting Self-Instructional Module Used¹	
	N²	%
Psychological development	1	1.3
Human sexuality	4	5.1
Counseling skills	1	1.3
Psychological/interpersonal/cultural health factors	3	3.8

¹Percentage of programs using a self-instructional module is calculated by dividing the number of programs using a self-instructional module for each course by the total number of programs that responded to this section (N=78).

² N refers to programs indicating "any part of the curriculum taught in a self-instructional module."

Source: 2010 Curriculum Survey

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Table 4-6. Behavioral and Social Sciences: Number of Programs Reporting Interprofessional Students by Course and Type of Student

Behavioral and Social Science Courses	Interprofessional Students ¹						Instructional ² Hours > 0	Type of Interprofessional Students ^{3,4}									
	Any		None		Not Reported		N	Medical		Advanced Practice Nursing		Physical Therapy		Pharmacology		Other Interprofessional Students	
	N	%	N	%	N	%		N	%	N	%	N	%	N	%	N	%
Psychological development	3	3.8	71	91.0	4	5.1	78	2	66.7	0	0.0	0	0.0	0	0.0	1	33.3
Human sexuality	4	5.4	66	89.2	4	5.4	74	3	75.0	0	0.0	0	0.0	0	0.0	1	25.0
Counseling skills	5	6.8	65	89.0	3	4.1	73	3	60.0	1	20.0	0	0.0	0	0.0	1	20.0
Psychological/interpersonal/ cultural health factors	6	8.1	63	85.1	5	6.8	74	3	50.0	2	33.3	2	33.3	2	33.3	4	66.7

¹The number and percentage of programs reporting under the categories Any, None, or Not Reported are calculated from programs reporting instructional hours > 0 for each course.

²Instructional hours are calculated by summing lecture, discussion, lab, and practicum hours.

³The number and percentage of programs reporting one or more type of interprofessional student is calculated based on the number of programs reporting any interprofessional student for each course.

⁴Programs may include more than one type of interprofessional student in their courses. Therefore, the number of programs across type of interprofessional student may sum to more than the total.

Source: 2010 Curriculum Survey

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**Physician Assistant Education Association
2010 Curriculum Survey**

Table 4-7. Behavioral and Social Sciences: Teaching Methods¹

Behavioral and Social Science Courses	Lectures		Group Discussions		Seminars		Online Coursework		Simulations		Clinical Skills Labs		Labs		Patient or Case- Based Learning		Interaction with Preceptors		OSCEs		Standardized Patients		Team-Based Learning		Instructional ² Hours > 0	
	N	%	N	%	N	%	N	%	N	%	N	%	N	%	N	%	N	%	N	%	N	%	N	%	N	
Psychological development	76	97.4	37	47.4	7	9.0	4	5.1	2	2.6	1	1.3	0	0.0	20	25.6	9	11.5	4	5.1	9	11.5	7	9.0		78
Human sexuality	73	98.6	39	52.7	5	6.8	3	4.1	2	2.7	3	4.1	0	0.0	17	23.0	8	10.8	2	2.7	8	10.8	7	9.5		74
Counseling skills	71	97.3	44	60.3	6	8.2	3	4.1	11	15.1	12	16.4	2	2.7	26	35.6	15	20.5	11	15.1	21	28.8	10	13.7		73
Psychological/interpersonal/ cultural health factors	73	98.6	52	70.3	6	8.1	6	8.1	8	10.8	3	4.1	1	1.4	28	37.8	13	17.6	6	8.1	13	17.6	11	14.9		74

¹Calculations are based on programs reporting combined instructional hours > 0.

²Instructional hours are calculated by summing lecture, discussion, lab, and practicum hours.

Source: 2010 Curriculum Survey

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**Physician Assistant Education Association
2010 Curriculum Survey**

Table 5-1. Research Curriculum: Mean Hours of Instruction¹

		Lecture/Discussion	Lab/Practicum	Total Instruction
Mean		49.7	14.0	54.0
Median (P50)		42.0	9.0	48.0
Std. deviation		35.2	13.0	36.0
Percentiles	P5	10.0	2.0	10.0
	P25	23.3	6.0	28.0
	P50	42.0	9.0	48.0
	P75	66.0	21.5	70.0
	P95	126.0	47.3	131.4
N		77	24	77

¹Calculations are based on programs reporting instructional hours > 0.

Source: 2010 Curriculum Survey

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**Physician Assistant Education Association
2010 Curriculum Survey**

Table 5-2. Mean Lecture/Lab Combined Hours of Instruction

Research Curriculum Courses	Lecture/Lab Combined Hours of Instruction ¹								Number of Programs ²					
	Mean	Median (P50)	Std. Deviation	Percentiles					Instructional ³ Hours > 0		No Instructional Hours		Missing	
				P5	P25	P50	P75	P95	N	%	N	%	N	%
Medical literature review	11.7	10.0	8.5	2.0	5.5	10.0	15.0	30.0	73	83.0	4	4.5	11	12.5
Research methodology	12.1	10.0	10.5	2.0	4.0	10.0	15.0	35.8	75	85.2	2	2.3	11	12.5
Biostatistics	9.6	5.0	11.4	1.0	2.0	5.0	10.5	39.2	66	75.0	11	12.5	11	12.5
Epidemiology	9.5	8.0	8.9	1.4	3.0	8.0	12.0	30.0	67	76.1	10	11.4	11	12.5
Evidence-based medicine	16.0	10.0	19.9	1.6	4.0	10.0	20.0	48.9	70	79.5	7	8.0	11	12.5

¹ Calculations are based on programs reporting instructional hours > 0.

² Percentage of programs are calculated based on the 88 programs that were administered the survey.

³ Instructional hours are calculated by summing lecture, discussion, lab, and practicum hours.

Source: 2010 Curriculum Survey

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**Physician Assistant Education Association
2010 Curriculum Survey**

Table 5-3. Research Curriculum: Mean Lecture/Discussion Hours of Instruction

Research Curriculum Courses	Lecture/Discussion Hours of Instruction¹								Number of Programs²					
	Mean	Median (P50)	Std. Deviation	Percentiles					Lecture/ Discussion Hours > 0		No Lecture/ Discussion Hours		Missing	
				P5	P25	P50	P75	P95	N	%	N	%	N	%
Medical literature review	10.3	8.0	8.4	1.8	4.0	8.0	15.0	30.0	72	81.8	5	5.7	11	12.5
Research methodology	11.4	8.0	10.2	2.0	4.0	8.0	15.0	35.8	75	85.2	2	2.3	11	12.5
Biostatistics	9.2	5.0	11.1	1.0	2.0	5.0	10.0	37.8	66	75.0	11	12.5	11	12.5
Epidemiology	9.2	8.0	8.6	1.4	3.0	8.0	12.0	30.0	67	76.1	10	11.4	11	12.5
Evidence-based medicine	14.3	10.0	19.2	1.6	4.0	10.0	16.0	46.4	70	79.5	7	8.0	11	12.5

¹ Calculations are based on programs reporting lecture/discussion hours > 0.

² Percentage of programs are calculated based on the 88 programs that were administered the survey.

Source: 2010 Curriculum Survey

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Table 5-4. Research Curriculum: Mean Lab/Practicum Hours of Instruction

Research Curriculum Courses	Lab/Practicum Hours of Instruction ¹								Number of Programs ²					
	Mean	Median (P50)	Std. Deviation	Percentiles					Lab/Practicum Hours > 0		No Lab/Practicum Hours		Missing	
				P5	P25	P50	P75	P95	N	%	N	%	N	%
Medical literature review	6.3	5.5	4.3	2.0	2.8	5.5	8.5	--	18	20.5	59	67.0	11	12.5
Research methodology	6.8	4.0	7.6	1.0	2.0	4.0	9.3	--	8	9.1	69	78.4	11	12.5
Biostatistics	4.3	4.0	3.0	1.0	2.0	4.0	6.0	--	7	8.0	70	79.5	11	12.5
Epidemiology	4.4	3.0	3.6	1.0	1.5	3.0	8.0	--	5	5.7	72	81.8	11	12.5
Evidence-based medicine	9.0	7.0	6.0	2.0	4.0	7.0	13.5	--	13	14.8	64	72.7	11	12.5

¹Calculations are based on programs reporting lab/practicum hours > 0.

²Percentage of programs are calculated based on the 88 programs that were administered the survey.

"--" = insufficient data necessary to calculate statistic.

Source: 2010 Curriculum Survey

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Table 5-5. Research Curriculum: Self-Instructional Module Used by Course

Research Curriculum Courses	Number of Programs Reporting Self-Instructional Module Used ¹	
	N ²	%
Medical literature review	7	9.1
Research methodology	7	9.1
Biostatistics	4	5.2
Epidemiology	1	1.3
Evidence-based medicine	8	10.4

¹Percentage of programs using a self-instructional module is calculated by dividing the number of programs using a self-instructional module for each course by the total number of programs that responded to this section (N=77).

²N refers to programs indicating "any part of the curriculum taught in a self-instructional module."

Source: 2010 Curriculum Survey

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2010 Curriculum Survey**

Table 5-6. Research Curriculum: Number of Programs Reporting Interprofessional Students by Course and Type of Student

Research Curriculum Courses	Interprofessional Students ¹						Instructional ² Hours > 0		Type of Interprofessional Student ^{3,4}									
	Any		None		Not Reported		N	%	Medical		Advanced Practice Nursing		Physical Therapy		Pharmacology		Other Inter-professional	
	N	%	N	%	N	%			N	%	N	%	N	%	N	%	N	%
Medical literature review	9	12.3	62	84.9	2	2.7	73	83.0	1	11.1	3	33.3	2	22.2	1	11.1	5	55.6
Research methodology	10	13.3	63	84.0	2	2.7	75	85.2	1	10.0	4	40.0	1	10.0	1	10.0	5	50.0
Biostatistics	9	13.6	55	83.3	2	3.0	66	75.0	1	11.1	3	33.3	1	11.1	0	0.0	6	66.7
Epidemiology	8	11.9	55	82.1	4	6.0	67	76.1	1	12.5	2	25.0	2	25.0	1	12.5	4	50.0
Evidence-based medicine	8	11.4	59	84.3	3	4.3	70	79.5	2	25.0	3	37.5	0	0.0	0	0.0	4	50.0

¹The number and percentage of programs reporting under the categories Any, None, or Not Reported are calculated from programs reporting instructional hours > 0 for each course.

²Instructional hours are calculated by summing lecture, discussion, lab, and practicum hours.

³The number and percentage of programs reporting one or more type of interprofessional student is calculated based on the number of programs reporting any interprofessional student for each

⁴Programs may include more than one type of interprofessional student in their courses. Therefore, the number of programs across type of interprofessional student may sum to more than the

Source: 2010 Curriculum Survey

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Table 5-7. Research Curriculum: Teaching Methods

Research Curriculum Courses	Lectures		Group Discussions		Seminars		Online Coursework		Simulations		Clinical Skills Labs		Labs		Patient or Case-Based Learning		Interaction with Preceptors		OSCEs		Standardized Patients		Team-Based Learning		Instructional ² Hours > 0
	N	%	N	%	N	%	N	%	N	%	N	%	N	%	N	%	N	%	N	%	N	%	N	%	N
Medical literature review	70	95.9	50	68.5	9	12.3	23	31.5	1	1.4	0	0.0	7	9.6	14	19.2	4	5.5	0	0.0	0	0.0	16	21.9	73
Research methodology	73	97.3	45	60.0	6	8.0	19	25.3	1	1.3	0	0.0	0	0.0	7	9.3	1	1.3	0	0.0	0	0.0	14	18.7	75
Biostatistics	61	92.4	24	36.4	6	9.1	10	15.2	0	0.0	0	0.0	1	1.5	3	4.5	1	1.5	0	0.0	0	0.0	7	10.6	66
Epidemiology	64	95.5	26	38.8	2	3.0	7	10.4	1	1.5	0	0.0	0	0.0	5	7.5	2	3.0	0	0.0	0	0.0	9	13.4	67
Evidence-based medicine	63	90.0	45	64.3	11	15.7	22	31.4	1	1.4	1	1.4	4	5.7	15	21.4	3	4.3	1	1.4	2	2.9	18	25.7	70

¹Calculations are based on programs reporting combined instructional hours > 0.

²Instructional hours are calculated by summing lecture, discussion, lab, and practicum hours.

Source: 2010 Curriculum Survey

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**Physician Assistant Education Association
2010 Curriculum Survey**

Table 6-1. Health Policy and Professional Practice: Mean Hours of Instruction¹

		Lecture/Discussion	Lab/Practicum	Total Instruction
Mean		70.5	3.1	73.6
Median (P50)		62.0	0.0	64.0
Std. deviation		40.4	9.4	42.9
Percentiles	P5	16.9	0.0	16.9
	P25	40.5	0.0	42.0
	P50	62.0	0.0	64.0
	P75	93.0	1.0	94.0
	P95	150.5	19.4	176.8
N		77	77	77

¹Calculations are based on programs reporting instructional hours > 0.

Source: 2010 Curriculum Survey

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Table 6-2. Health Policy and Professional Practice: Mean Lecture/Lab Combined Hours of Instruction

Health Policy and Professional Practice Courses	Lecture/Lab Combined Hours of Instruction ¹					Number of Programs ²								
	Mean	Median (P50)	Std. Deviation	Percentiles					Instructional ³ Hours > 0		No Instructional Hours		Missing	
				P5	P25	P50	P75	P95	N	%	N	%	N	%
Medical ethics	18.3	15.0	14.3	3.0	8.0	15.0	21.0	50.4	75	85.2	2	2.3	11	12.5
PA professional issues	18.3	15.0	12.7	2.0	10.0	15.0	23.3	45.8	76	86.4	1	1.1	11	12.5
Cultural and socioeconomic issues	11.9	8.0	11.6	1.7	4.5	8.0	14.5	45.0	73	83.0	4	4.5	11	12.5
Quality improvement	4.0	2.8	3.5	1.0	2.0	2.8	4.0	13.4	70	79.5	7	8.0	11	12.5
Coding and billing	4.7	4.0	4.0	1.0	2.0	4.0	6.0	15.0	75	85.2	2	2.3	11	12.5
Public health topics	18.4	12.0	19.8	2.0	6.0	12.0	21.8	51.5	76	86.4	1	1.1	11	12.5

¹ Calculations are based on programs reporting instructional hours > 0.

² Percentage of programs are calculated based on the 88 programs that were administered the survey.

³ Instructional hours are calculated by summing lecture, discussion, lab, and practicum hours.

Source: 2010 Curriculum Survey

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Table 6-3. Health Policy and Professional Practice: Mean Lecture/Discussion Hours of Instruction

Health Policy and Professional Practice Courses	Lecture/Discussion Hours of Instruction ¹								Number of Programs ²					
	Mean	Median (P50)	Std. Deviation	Percentiles					Lecture/Discussion Hours > 0		No Lecture/Discussion Hours		Missing	
				P5	P25	P50	P75	P95	N	%	N	%	N	%
Medical ethics	17.4	15.0	14.2	3.0	7.5	15.0	21.0	50.4	75	85.2	2	2.3	11	12.5
PA professional issues	18.1	15.0	12.7	2.0	10.0	15.0	23.3	45.8	76	86.4	1	1.1	11	12.5
Cultural and socioeconomic issues	11.6	8.0	11.5	1.7	4.0	8.0	14.0	45.0	73	83.0	4	4.5	11	12.5
Quality improvement	3.9	2.8	3.4	1.0	2.0	2.8	4.0	13.4	70	79.5	7	8.0	11	12.5
Coding and billing	4.3	4.0	3.3	1.0	2.0	4.0	5.0	12.6	75	85.2	2	2.3	11	12.5
Public health topics	17.2	12.0	18.8	2.0	6.0	12.0	20.8	48.3	76	86.4	1	1.1	11	12.5

¹Calculations are based on programs reporting lecture/discussion hours > 0.

²Percentage of programs are calculated based on the 88 programs that were administered the survey.

Source: 2010 Curriculum Survey

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Table 6-4. Health Policy and Professional Practice: Mean Lab/Practicum Hours of Instruction

Health Policy and Professional Practice Courses	Hours of Instruction¹								Number of Programs²					
	Mean	Median (P50)	Std. Deviation	Percentiles					Lab/Practicum Hours > 0		No Lab/Practicum Hours		Missing	
				P5	P25	P50	P75	P95	N	%	N	%	N	%
Medical ethics	6.7	6.0	4.0	2.0	3.0	6.0	10.5	--	10	11.4	67	76.1	11	12.5
PA professional issues	3.5	3.0	1.9	2.0	2.0	3.0	5.5	--	4	4.5	73	83.0	11	12.5
Cultural and socioeconomic issues	2.9	2.0	1.9	1.0	1.0	2.0	4.0	--	7	8.0	70	79.5	11	12.5
Quality improvement	--	--	--	--	--	--	--	--	1	1.1	76	86.4	11	12.5
Coding and billing	3.5	3.0	1.9	1.0	2.0	3.0	5.3	--	10	11.4	72	81.8	11	12.5
Public health topics	11.9	6.0	15.9	2.0	3.3	6.0	12.0	--	8	9.1	69	78.4	11	12.5

¹ Calculations are based on programs reporting lab/practicum hours > 0.

² Percentage of programs are calculated based on the 88 programs that were administered the survey.

"--" = insufficient data necessary to calculate statistic.

Source: 2010 Curriculum Survey

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Table 6-5. Health Policy and Professional Practice: Self-Instructional Module Used by Course

Health Policy and Professional Practice Courses	Number of Programs Reporting Self-Instructional Module Used ¹	
	N ²	%
Medical ethics	3	3.9
PA professional issues	3	3.9
Cultural and socioeconomic issues	4	5.2
Quality improvement	2	2.6
Coding and billing	3	3.9
Public health topics	4	5.2

¹Percentage of programs using a self-instructional module is calculated by dividing the number of programs using a self-instructional module for each course by the total number of programs that responded to this section (N=77).

²N refers to programs indicating "any part of the curriculum taught in a self-instructional module."

Source: 2010 Curriculum Survey

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Table 6-6. Health Policy and Professional Practice: Number of Programs Reporting Interprofessional Students by Course and Type of Student

Health Policy and Professional Practice Courses	Interprofessional Students ¹						Instructional ²		Type of Interprofessional Student ^{3,4}									
	Any		None		Not Reported		N	%	Medical		Advanced Practice Nursing		Physical Therapy		Pharmacology		Other Interprofessional	
	N	%	N	%	N	%			N	%	N	%	N	%	N	%	N	%
Medical ethics	13	17.3	61	81.3	1	1.3	75	85.2	7	53.8	2	15.4	3	23.1	5	38.5	9	69.2
PA professional issues	2	2.6	70	92.1	4	5.3	76	86.4	2	100.0	0	0.0	0	0.0	0	0.0	1	50.0
Cultural and socioeconomic issues	10	13.7	61	83.6	2	2.7	73	83.0	5	50.0	2	20.0	2	20.0	2	20.0	7	70.0
Quality improvement	6	8.6	64	91.4	0	0.0	70	79.5	3	50.0	1	16.7	4	66.7	3	50.0	5	83.3
Coding and billing	0	0.0	71	94.7	4	5.3	75	85.2	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0
Public health topics	8	10.5	65	85.5	3	3.9	76	86.4	3	37.5	2	25.0	3	37.5	3	37.5	6	75.0

¹The number and percentage of programs reporting under the categories Any, None, or Not Reported are calculated from programs reporting instructional hours > 0 for each course.

²Instructional hours are calculated by summing lecture, discussion, lab, and practicum hours.

³The number and percentage of programs reporting one or more type of interprofessional student is calculated based on the number of programs reporting any interprofessional student for each course.

⁴Programs may include more than one type of interprofessional student in their courses. Therefore, the number of programs across type of interprofessional student may sum to more than the total.

Source: 2010 Curriculum Survey

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Table 6-7. Health Policy and Professional Practice: Teaching Methods¹

Health Policy and Professional Practice Courses	Lectures		Group Discussions		Seminars		Online Coursework		Simulations		Clinical Skills Labs		Labs		Patient or Case-Based Learning		Interaction with Preceptors		OSCEs		Standardized Patients		Team-Based Learning		Instructional ² Hours > 0	
	N	%	N	%	N	%	N	%	N	%	N	%	N	%	N	%	N	%	N	%	N	%	N	%	N	
Medical ethics	73	97.3	62	82.7	9	12.0	4	5.3	1	1.3	0	0.0	1	1.3	28	37.3	11	14.7	4	5.3	3	4.0	10	13.3		75
PA professional issues	75	98.7	45	59.2	12	15.8	5	6.6	0	0.0	0	0.0	0	0.0	11	14.5	11	14.5	3	3.9	2	2.6	13	17.1		76
Cultural and socioeconomic issues	71	97.3	50	68.5	9	12.3	6	8.2	6	8.2	0	0.0	0	0.0	18	24.7	12	16.4	5	6.8	4	5.5	13	17.8		73
Quality improvement	68	97.1	19	27.1	7	10.0	2	2.9	1	1.4	0	0.0	0	0.0	3	4.3	11	15.7	2	2.9	0	0.0	8	11.4		70
Coding and billing	72	96.0	12	16.0	9	12.0	5	6.7	2	2.7	0	0.0	0	0.0	11	14.7	13	17.3	1	1.3	0	0.0	5	6.7		75
Public health topics	73	96.1	44	57.9	9	11.8	10	13.2	1	1.3	1	1.3	1	1.3	21	27.6	10	13.2	2	2.6	5	6.6	16	21.1		76

¹Calculations are based on programs reporting combined instructional hours > 0.

²Instructional hours are calculated by summing lecture, discussion, lab, and practicum hours.

Source: 2010 Curriculum Survey

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**Table 7-1. Supervised Clinical Practice: Comparison of Lecture/Discussion Hours and Supervised Clinical Practice Hours
by Primary and Non-Primary Care Status**

Supervised Clinical Practice	Supervised Clinical Practice Hours ¹					Number of Programs ²									
	Mean	Median (P50)	Std. Deviation	Percentiles					Instructional ³ Hours > 0		No Instructional Hours		Missing		
				P5	P25	P50	P75	P95	N	%	N	%	N	%	
Lecture/Discussion															
Primary care	81.7	37.0	129.8	8.8	24.0	37.0	72.0	488.0	27	30.7	44	50.0	17	19.3	
Non-Primary care	97.2	63.0	156.8	9.4	32.8	63.0	118.3	549.5	28	31.8	45	51.1	15	17.0	
Lecture/Discussion Total	164.2	95.5	271.2	12.8	58.3	95.5	161.3	891.6	30	34.1	43	48.9	15	17.0	
Supervised Practice															
Primary care	923.7	888.0	652.4	249.3	695.0	888.0	1,059.0	1,409.0	70	79.5	0	0.0	18	20.5	
Non-Primary care	749.8	720.0	524.6	198.6	600.0	720.0	800.0	960.0	71	80.7	1	1.1	16	18.2	
Supervised Practice Total	1,660.5	1,600.0	1,157.3	410.8	1,400.0	1,600.0	1,760.0	2,176.0	71	80.7	1	1.1	16	18.2	
Total Instruction	1,705.8	1,610.0	1,191.2	361.7	1,440.0	1,610.0	1,830.8	2,305.7	72	81.8	0	0.0	16	18.2	

¹ Calculations are based on all programs reporting contact hours > 0.

² Percentage of programs are calculated based on the 88 programs that were administered the survey.

³ Instructional hours are calculated by summing lecture, discussion, and supervised practice contact hours.

Source: 2010 Curriculum Survey

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Table 7-2. Supervised Clinical Practice: Primary Care Specialties - Required Number of Weeks of Instruction

Supervised Clinical Practice	Required Number of Weeks of Instruction ¹					Number of Programs ²									
	Mean	Median (P50)	Std. Deviation	Percentiles					Instructional Weeks > 0		No Instructional Weeks		Missing		
				P5	P25	P50	P75	P95	N	%	N	%	N	%	
Primary Care Specialties															
Family medicine	7.4	6.0	2.8	4.0	5.0	6.0	8.3	12.0	70	79.5	4	4.5	14	15.9	
General internal medicine	6.3	6.0	1.8	4.0	5.0	6.0	8.0	9.3	72	81.8	2	2.3	14	15.9	
General pediatrics	5.1	5.0	1.4	3.7	4.0	5.0	6.0	6.7	72	81.8	2	2.3	14	15.9	
Primary care preceptorships	7.9	6.0	5.5	4.0	4.0	6.0	8.5	24.1	33	37.5	41	46.6	14	15.9	
Geriatrics	4.0	4.0	1.4	1.1	3.8	4.0	5.0	6.0	30	34.1	44	50.0	14	15.9	
Primary Care Total	23.1	24.0	5.6	13.6	18.0	24.0	28.0	33.5	74	84.1	0	0.0	14	15.9	
Non-Primary Care Specialties															
Emergency medicine	5.0	5.0	1.0	4.0	4.0	5.0	6.0	6.0	68	77.3	6	6.8	14	15.9	
General surgery	5.2	5.0	1.2	4.0	4.0	5.0	6.0	8.0	70	79.5	4	4.5	14	15.9	
Behavioral and mental health	4.4	4.0	1.3	2.0	4.0	4.0	5.0	6.0	60	68.2	14	15.9	14	15.9	
Women's health/gynecology	4.7	5.0	1.0	3.3	4.0	5.0	6.0	6.0	64	72.7	10	11.4	14	15.9	
Non-Primary Care Total	18.1	18.0	3.8	12.0	16.0	18.0	20.0	24.0	74	84.1	0	0.0	14	15.9	

¹Calculations are based on all programs reporting required weeks of instruction > 0 for each course.

²Percentage of programs are calculated based on the 88 programs that were administered the survey.

Source: 2010 Curriculum Survey

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Table 7-3. Supervised Clinical Practice: Mean Supervised Practice Contact Hours of Instruction

Supervised Clinical Practice	Supervised Practice Contact Hours ¹								Number of Programs ²					
	Mean	Median	Std. Deviation	Percentiles					Supervised Practice Hours > 0		No Supervised Practice Hours		Missing	
				P5	P25	P50	P75	P95	N	%	N	%	N	%
	Primary Care Specialties													
Family medicine	278.1	240.0	128.3	45.9	200.0	240.0	380.0	480.0	65	73.9	5	5.7	18	20.5
General internal medicine	245.1	240.0	143.4	71.2	200.0	240.0	277.5	400.0	68	77.3	2	2.3	18	20.5
General pediatrics	207.3	200.0	138.0	55.2	160.0	200.0	240.0	297.5	68	77.3	2	2.3	18	20.5
Primary care preceptorships	369.8	240.0	566.1	39.2	195.0	240.0	320.0	1,950.4	30	34.1	40	45.5	18	20.5
Geriatrics	152.5	160.0	68.2	25.6	80.0	160.0	200.0	240.0	31	35.2	39	44.3	18	20.5
Primary Care Total	923.7	888.0	652.4	249.3	695.0	888.0	1,059.0	1,409.0	70	79.5	0	0.0	18	20.5
Non-Primary Care Specialties														
Emergency medicine	204.2	200.0	131.6	66.0	160.0	200.0	240.0	288.0	71	80.7	1	1.1	16	18.2
General surgery	213.3	200.0	133.1	66.0	160.0	200.0	240.0	320.0	71	80.7	1	1.1	16	18.2
Behavioral and mental health	176.8	160.0	145.5	33.2	120.0	160.0	200.0	240.0	62	70.5	10	11.4	16	18.2
Women's health/gynecology	197.4	180.0	137.1	90.0	160.0	180.0	223.8	270.0	64	72.7	8	9.1	16	18.2
Non-Primary Care Total	749.8	720.0	524.6	198.6	600.0	720.0	800.0	960.0	71	80.7	1	1.1	16	18.2
Total	1,660.5	1,600.0	1,157.3	410.8	1,400.0	1,600.0	1,760.0	2,176.0	71	80.7	1	1.1	16	18.2

¹Calculations are based on programs reporting supervised practice contact hours > 0.

²Percentage of programs reporting any or no supervised practice contact hours (and missing programs) are calculated based on the total number of programs who completed the survey (88).

Source: 2010 Curriculum Survey

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Table 7-4. Supervised Clinical Practice: Mean Lecture/Discussion Hours of Instruction

Supervised Clinical Practice	Lecture/Discussion Hours ¹								Number of Programs ²						
	Mean	Median	Std. Deviation	Percentiles					Lecture/Discussion Hours > 0		No Lecture/Discussion Hours		Missing		
				P5	P25	P50	P75	P95	N	%	N	%	N	%	
Primary Care Specialties															
Family medicine	28.3	10.3	49.8	4.0	8.0	10.3	24.0	--	18	20.5	53	60.2	17	19.3	
General internal medicine	33.1	12.0	53.1	4.2	8.0	12.0	24.3	205.8	22	25.0	49	55.7	17	19.3	
General pediatrics	26.3	13.0	43.7	2.5	8.0	13.0	23.5	182.0	24	27.3	47	53.4	17	19.3	
Primary care preceptorships	16.1	12.0	8.7	7.0	12.0	12.0	24.0	--	7	8.0	64	72.7	17	19.3	
Geriatrics	16.0	9.0	14.3	4.0	5.8	9.0	27.8	--	14	15.9	57	64.8	17	19.3	
Primary Care Total	81.7	37.0	129.8	8.8	24.0	37.0	72.0	488.0	27	30.7	44	50.0	17	19.3	
Non-Primary Care Specialties															
Emergency medicine	26.8	16.0	40.8	2.8	8.0	16.0	28.0	160.0	27	30.7	46	52.3	15	17.0	
General surgery	24.1	12.0	40.3	2.8	8.0	12.0	24.0	148.8	27	30.7	46	52.3	15	17.0	
Behavioral and mental health	29.7	16.0	42.7	3.3	8.5	16.0	39.0	177.0	24	27.3	49	55.7	15	17.0	
Women's health/gynecology	24.3	16.0	40.2	4.0	9.5	16.0	22.5	154.4	26	29.5	47	53.4	15	17.0	
Non-Primary Care Total	97.2	63.0	156.8	9.4	32.8	63.0	118.3	549.5	28	31.8	45	51.1	15	17.0	
Total	164.2	95.5	271.2	12.8	58.3	95.5	161.3	891.6	30	34.1	43	48.9	15	17.0	

¹Calculations are based on programs reporting lecture/discussion hours > 0.

²Percentage of programs are calculated based on the 88 programs that were administered the survey.

Source: 2010 Curriculum Survey

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**Table 7-5. Supervised Clinical Practice: Self-Instructional Module Used
by Course**

Supervised Clinical Practice	Number of Programs	
	Self-Instructional Module Used ¹	
	N ²	%
Primary Care Specialties		
Family medicine courses	4	5.5
General internal medicine courses	4	5.5
General pediatrics courses	5	6.8
Primary care preceptorships	4	5.5
Geriatrics courses	4	5.5
Primary Care Total	8	11.0
Non-Primary Care Specialties		
Emergency medicine courses	5	6.8
General surgery courses	4	5.5
Behavioral and mental health courses	5	6.8
Women's health/gynecology	5	6.8
Non-Primary Care Total	6	8.2

¹Percentage of programs using a self-instructional module is calculated by dividing the number of programs using a self-instructional module for each course by the total number of programs that responded to this section (N=73).

²N refers to programs indicating "any part of the curriculum taught in a self-instructional module."

Source: 2010 Curriculum Survey
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Table 7-6. Supervised Clinical Practice: Number of Programs Reporting Interprofessional Students by Course and Type of Student

Supervised Clinical Practice	Interprofessional Students ¹						Instructional ² Hours > 0	Type of Interprofessional Student ^{3,4}									
	Any		None		Not Reported			Medical		Advanced Practice Nursing		Physical Therapy		Pharmacology		Other Interprofessional	
	N	%	N	%	N	%		N	%	N	%	N	%	N	%	N	%
Primary Care Specialties																	
Family medicine	47	70.1	17	25.4	3	4.5	67	44	93.6	21	44.7	2	4.3	6	12.8	5	10.6
General internal medicine	50	71.4	17	24.3	3	4.3	70	49	98.0	17	34.0	6	12.0	16	32.0	7	14.0
General pediatrics	48	69.6	17	24.6	4	5.8	69	47	97.9	25	52.1	2	4.2	7	14.6	5	10.4
Primary care preceptorships	19	61.3	9	29.0	3	9.7	31	17	89.5	9	47.4	3	15.8	5	26.3	3	15.8
Geriatrics	23	69.7	9	27.3	1	3.0	33	23	100.0	7	30.4	3	13.0	6	26.1	5	21.7
Non-Primary Care Specialties																	
Emergency medicine	56	76.7	14	19.2	3	4.1	73	55	98.2	19	33.9	3	5.4	12	21.4	10	17.9
General surgery	56	76.7	14	19.2	3	4.1	73	55	98.2	16	28.6	5	8.9	10	17.9	8	14.3
Behavioral and mental health	44	68.8	17	26.6	3	4.7	64	43	97.7	13	29.5	1	2.3	6	13.6	6	13.6
Women's health/gynecology	46	69.7	14	21.2	6	9.1	66	45	97.8	21	45.7	1	2.2	5	10.9	5	10.9

¹The number and percentage of programs reporting under the categories Any, None, or Not Reported are calculated from programs reporting instructional hours > 0 for each course.

²Instructional hours are calculated by summing lecture, discussion, and supervised practice contact hours.

³The number and percentage of programs reporting one or more interprofessional student is calculated based on the number of programs reporting any interprofessional student for each course.

⁴Programs may include more than one type of interprofessional student in their courses. Therefore, the number of programs across type of interprofessional student may sum to more than the total.

Source: 2010 Curriculum Survey

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Table 7-7. Supervised Clinical Practice: Teaching Methods¹

Supervised Clinical Practice	Interaction with Preceptors		Lectures		Clinical Skills Labs		Standardized Patients		Simulations		Group Discussions		Seminars		Online Coursework		OSCEs		Instructional ² Hours > 0
	N	%	N	%	N	%	N	%	N	%	N	%	N	%	N	%	N	%	N
Primary Care Specialties																			
Family medicine	64	95.5	24	35.8	4	6.0	17	25.4	1	1.5	12	17.9	8	11.9	8	11.9	20	29.9	67
General internal medicine	67	95.7	33	47.1	3	4.3	16	22.9	3	4.3	15	21.4	10	14.3	9	12.9	20	28.6	70
General pediatrics	67	97.1	31	44.9	3	4.3	6	8.7	3	4.3	11	15.9	9	13.0	10	14.5	12	17.4	69
Primary care preceptorships	30	96.8	13	41.9	1	3.2	7	22.6	1	3.2	6	19.4	6	19.4	7	22.6	9	29.0	31
Geriatrics	32	97.0	17	51.5	2	6.1	8	24.2	1	3.0	7	21.2	5	15.2	9	27.3	9	27.3	33
Non-Primary Care																			
Emergency medicine	71	97.3	30	41.1	13	17.8	9	12.3	10	13.7	15	20.5	9	12.3	11	15.1	15	20.5	73
General surgery	71	97.3	35	47.9	17	23.3	7	9.6	4	5.5	10	13.7	9	12.3	9	12.3	13	17.8	73
Behavioral and mental health	62	96.9	28	43.8	3	4.7	9	14.1	3	4.7	13	20.3	8	12.5	10	15.6	10	15.6	64
Women's health/gynecology	62	93.9	30	45.5	9	13.6	10	15.2	6	9.1	10	15.2	6	9.1	9	13.6	11	16.7	66

¹Calculations are based on programs reporting combined instructional hours > 0.

²Instructional hours are calculated by summing lecture, discussion, lab, and practicum hours.

Source: 2010 Curriculum Survey

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Table 7-8. Supervised Clinical Practice: Number of Programs with Electives

Supervised Clinical Practice Electives	Programs	
	N	%
Electives	68	89.5
No electives	8	10.5
	76	100.0

Source: 2010 Curriculum Survey
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Table 7-9. Supervised Clinical Practice: Course Electives

<u>Subject</u>	<u>Number of Programs</u>
Orthopedics	55
Dermatology	50
Cardiology	44
Emergency/trauma medicine	39
Cardiovascular (including cardiothoracic)	31
Neurology	25
Oncology	24
Plastic surgery	20
Surgery	19
Pediatrics	17
Family practice/primary care	16
Internal medicine	14
Critical care/ICU	13
Otolaryngology	12
Infectious diseases	12
Endocrinology	10
Radiology	10
Gastroenterology	9
Neonatal medicine	7
Women's health/OB-GYN	7
International medicine/rotation	6
Urology	5
Nephrology	4
Pulmonology	4
Psychology/psychiatry	3
Research	3
Forensic medicine	2
Geriatrics	2
Rheumatology	2
Sports medicine	2
Tropical medicine	2
Hospice	2
Pain management	1
Interactive medicine	1
Rehab medicine	1
Medical Spanish	1
Public health	1

Source: 2010 Curriculum Survey
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