



JOINT ACCREDITATION™
INTERPROFESSIONAL CONTINUING EDUCATION



Joint Accreditation Data Report

Growth and Diversity of Accredited Continuing Education for Healthcare Teams – 2019

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Joint Accreditation Data Report

Growth and Diversity of Accredited Continuing Education for Healthcare Teams—2019

Executive Summary

Welcome to the second annual *Joint Accreditation Data Report: Growth and Diversity of Accredited Continuing Education for Healthcare Teams—2019*. The purpose of the report is to provide a comprehensive picture of the scope of the accredited interprofessional continuing education (IPCE) community, including the range of jointly accredited organizations, educational activities, and learners. Jointly accredited providers can use this report to benchmark themselves against their colleagues and to demonstrate the value of their work to leadership and stakeholders.

Key Takeaways – Advancing Continuing Education by the Team, for the Team

- In 2019, 87 [jointly accredited providers](#) offered more than 55,000 educational activities, comprising more than 250,000 hours of instruction.
- A wide range of organization types are jointly accredited, including government and military organizations, hospitals and healthcare delivery systems, nonprofit membership organizations, publishing and education companies, and schools of health sciences and medicine.
- Providers report the number of learners at each activity; these numbers are referred to as interactions in the data report. Educational activities offered by jointly accredited providers included almost 15 million interactions with healthcare professionals.
- In addition to the data about physicians, nurses, pharmacists, and pharmacy technicians, this data report includes, for the first time, the numbers of interactions with optometrists, physician assistants (PAs), psychologists, and social workers. Providers reported the most interactions with nurses (50%), followed by physicians (25%). See the following sections on Background and Learner Interactions by Profession for more information.
- The activity type with the most learner interactions was Internet enduring materials (78%).
- The most common activity types were courses (49%), followed by Internet enduring materials (32%).
- [Joint Accreditation Criteria](#) require providers to design activities to effect change. Providers reported that 97% of CE activities were designed to change learners' skills/strategy, 45% were designed to change learners' performance, and 16% were designed to change patient outcomes.

Background

In 2018, the three founding members of Joint Accreditation for Interprofessional Continuing Education™—the Accreditation Council for Continuing Medical Education (ACCME), Accreditation Council for Pharmacy Education (ACPE), and American Nurses Credentialing Center (ANCC)—launched the Joint Accreditation Program and Activity Reporting System (JA-PARS). This new data system enabled jointly accredited providers to report all of their program and activity data, including single profession, multi-profession, and IPCE activities, into a single, unified repository. Before 2018, jointly accredited providers reported data into multiple accreditors' data systems.

Learner Interactions by Profession

JA-PARS was initially configured to allow jointly accredited providers to report learner data for the professions of medicine, nursing, and pharmacy; adjustments were made in 2019 to allow providers to report learner data for physician assistants, psychologists, optometrists, and social workers. Learners from other professions are categorized as “other learner interactions” in this report. Future adjustments are expected to allow for reporting of dentistry professionals in 2020 and dieticians in 2021.

Preparation of the Joint Accreditation Data Report

The aggregated information published in this annual report is based upon self-reporting by jointly accredited providers. Joint Accreditation does not provide full verification of the accuracy of all reported information but does follow up if it appears that providers have reported activity data that does not conform to Joint Accreditation's definitions and reporting instructions.

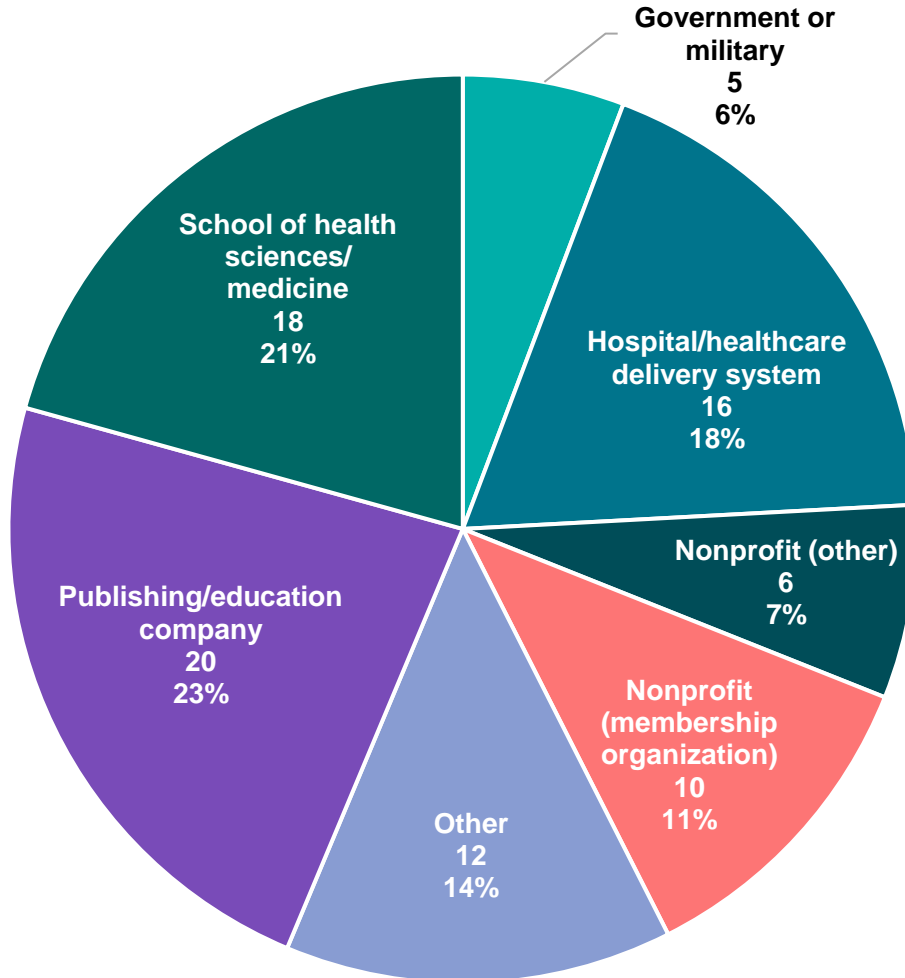
Thank You

We thank the jointly accredited providers who submitted their data into JA-PARS, making this report possible and creating the opportunity to present a more complete and in-depth picture of IPCE.

More Information

For more information about the terms used in the data report, please see the [ACCME/AMA Glossary of Terms and Definitions](#) and the [Joint Accreditation definitions](#). Visit the [Joint Accreditation website](#) for more information and resources about IPCE.

CE Presented by Jointly Accredited Providers
Figure 1. Providers by Organization Type—2019
Total Organizations = 87



Jointly accredited providers represent many different organization types. In 2019, publishing/education companies represented the largest portion of providers (23%), followed closely by schools of health sciences/medicine (21%). The "other" category includes organizations such as patient safety and quality assurance organizations.

CE Presented by Jointly Accredited Providers
Figure 2. Types of Credit/Contact Hours Offered by Organization Type—2019

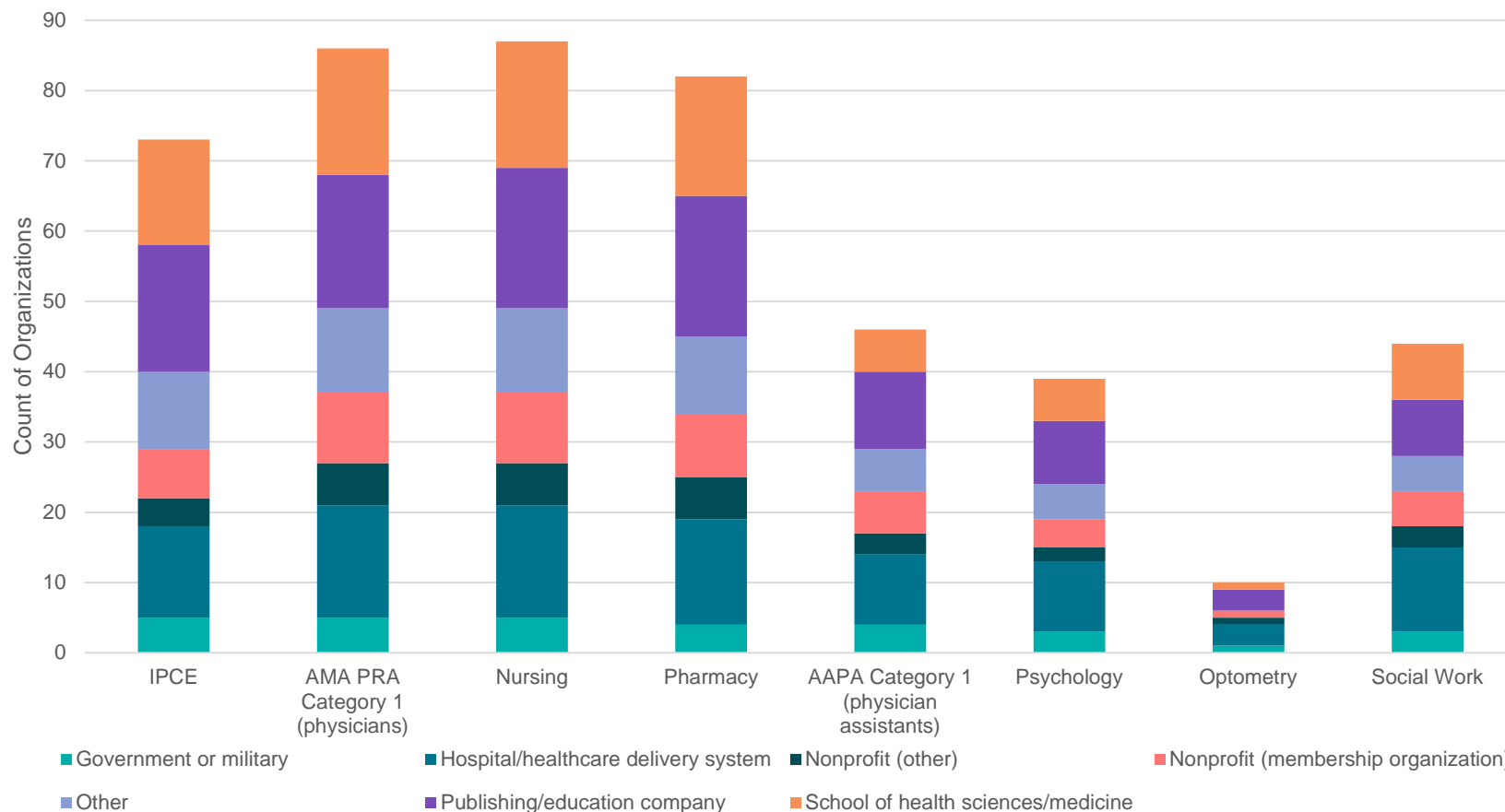


Figure 2 shows the numbers of jointly accredited providers, by organization type that offer interprofessional continuing education (IPCE) credit and profession-specific credit. The launch of the Joint Accreditation Program and Activity Reporting System (JA-PARS) in 2018 enabled jointly accredited providers to report IPCE and profession-specific credit. This year, JA-PARS has been modified to enable jointly accredited providers to report learner and credit data for more professions. In addition to including data about credit for physicians, nurses, pharmacists, and pharmacy technicians, this data report includes, for the first time, the profession-specific credits offered to optometrists, PAs (physician assistants), psychologists, and social workers.

CE Presented by Jointly Accredited Providers
Table 1. Size of the CE Enterprise—2019
Total providers = 87

	Activities	Hours of instruction	Total learner interactions²
Directly provided¹			
Courses	24,217	112,283	783,625
Regularly scheduled series	3,231	75,017	1,008,258
Internet (live)	2,271	7,255	180,722
Test-item writing	19	86	298
Committee learning	3	13	39
Performance improvement	12	250	702
Internet searching and learning	2	2	50
Internet enduring materials	15,810	22,613	11,200,485
Enduring materials (other)	3,589	9,929	803,151
Learning from teaching	3	28	120
Journal CE	194	259	126,446
Manuscript review	1	15	-
Other	45	942	1,156
Total	49,397	228,689	14,105,052
Jointly provided¹			
Courses	2,859	23,077	156,386
Regularly scheduled series	317	6,462	78,164
Internet (live)	603	899	45,974
Test-item writing	-	-	-
Committee learning	9	13	410
Performance improvement	2	2	33
Internet searching and learning	2	9	31,442
Internet enduring materials	1,615	3,289	272,442
Enduring materials (other)	181	826	13,399
Learning from teaching	-	-	-
Journal CE	250	248	93,095
Manuscript review	1	3	99
Other	-	-	-
Total	5,839	34,828	691,444
Number of providers			
Grand total 2019	87	55,236	263,518
Grand total 2018	75	29,629	143,886

¹Directly provided activities are delivered by an accredited provider. Jointly provided activities are delivered by an accredited provider and one or more nonaccredited organizations.

²Accredited providers report the number of learners at each activity. In this report, the learner numbers are referred to as interactions. The data represents aggregate numbers of interactions and not the number of unique learners. Learners attending multiple activities are counted multiple times.

CE Presented by Jointly Accredited Providers
Table 2. Learner Interactions by Profession¹—2019
Total providers = 87

	Physician interactions ³	Nurse interactions ³	Pharmacist interactions ³	Pharmacy Technician interactions ³	Physician Assistant interactions ³	Psychologist interactions ³	Optometrist interactions ³	Social Worker interactions ³	Other learner interactions ³	Total learner interactions ³	
Directly provided²											
Courses	169,329	249,266	5,700	247	9,122	10,551	353	28,110	310,947	783,625	
Regularly scheduled series	676,119	123,452	4,673	67	15,659	3,789	669	6,550	177,280	1,008,258	
Internet (live)	15,251	43,621	30,637	7,097	552	8,527	551	14,788	59,698	180,722	
Test-item writing	116	146	-	-	-	-	-	-	36	298	
Committee learning	4	18	-	-	-	-	-	-	17	39	
Performance improvement	387	142	-	-	-	-	-	-	173	702	
Internet searching and learning	31	9	-	-	-	-	-	-	10	50	
Internet enduring materials	2,236,681	6,453,899	15,137	405	122,202	17,144	461	90,529	2,264,027	11,200,485	
Enduring materials (other)	260,733	294,660	85,640	58,020	23,529	1,994	172	11,880	66,523	803,151	
Learning from teaching	108	4	-	-	3	-	-	1	4	120	
Journal CE	26,696	2,606	18	-	261	4	1	6	96,854	126,446	
Manuscript review	-	-	-	-	-	-	-	-	-	-	
Other	184	329	4	-	10	3	1	106	519	1,156	
Total	3,385,639	7,168,152	141,809	65,836	171,338	42,012	2,208	151,970	2,976,088	14,105,052	
Jointly provided²											
Courses	57,420	47,236	2,587	29	990	882	6	1,459	45,777	156,386	
Regularly scheduled series	45,525	12,306	117	4	1,534	44	-	879	17,755	78,164	
Internet (live)	7,812	24,178	451	66	101	77	1	82	13,206	45,974	
Test-item writing	-	-	-	-	-	-	-	-	-	-	
Committee learning	92	193	-	-	-	-	-	-	125	410	
Performance improvement	4	14	-	-	-	-	-	-	15	33	
Internet searching and learning	31,440	1	-	-	-	-	-	-	1	31,442	
Internet enduring materials	88,590	103,983	966	14	1,361	565	8,524	10,087	58,352	272,442	
Enduring materials (other)	2,792	7,283	14	-	4	251	394	79	2,582	13,399	
Learning from teaching	-	-	-	-	-	-	-	-	-	-	
Journal CE	66,775	6,078	-	-	17	-	-	-	20,225	93,095	
Manuscript review	99	-	-	-	-	-	-	-	-	99	
Other	-	-	-	-	-	-	-	-	-	-	
Total	300,549	201,272	4,135	113	4,007	1,819	8,925	12,586	158,038	691,444	
Grand total	87	3,686,188	7,369,424	145,944	65,949	175,345	43,831	11,133	164,556	3,134,126	14,796,496

¹The launch of the Joint Accreditation Program and Activity Reporting System (JA-PARS) in 2018 enabled jointly accredited providers to report learner data by profession. "Other profession interactions" refers to healthcare professionals other than the ones listed.

²Directly provided activities are delivered by an accredited provider. Jointly provided activities are delivered by an accredited provider and one or more nonaccredited organizations.

³Accredited providers report the number of participants at each activity. In this report, the participant numbers are referred to as interactions. The data represents aggregate numbers of interactions and not the number of unique participants. Participants attending multiple activities are counted multiple times.

CE Presented by Jointly Accredited Providers
Table 3. Activities by Organization and Activity Type—2019

Organization type	Government or military	Hospital/ healthcare delivery system	Insurance company/ managed-care company	Nonprofit (other)	Nonprofit (membership organization)	Other	Publishing/ education company	School of health sciences/ medicine	Grand total
Number of providers	5	16	-	6	10	12	20	18	87
Directly provided¹									
Courses	15,242	3,650	-	658	280	611	781	2,995	24,217
Regularly scheduled series	374	1,070	-	23	3	66	26	1,669	3,231
Internet (live)	1,399	156	-	196	59	140	215	106	2,271
Test-item writing	-	-	-	-	6	13	-	-	19
Committee learning	-	-	-	-	-	3	-	-	3
Performance improvement	-	1	-	-	4	-	-	7	12
Internet searching and learning	-	-	-	-	-	-	-	2	2
Internet enduring materials	844	799	-	140	694	317	11,636	1,380	15,810
Enduring materials (other)	55	153	-	221	7	28	3,029	96	3,589
Learning from teaching	-	-	-	-	-	-	-	3	3
Journal CE	-	16	-	24	28	-	52	74	194
Manuscript review	-	-	-	-	-	-	-	1	1
Other	-	34	-	-	3	-	-	8	45
Total	17,914	5,879	-	1,262	1,084	1,178	15,739	6,341	49,397
Jointly provided¹									
Courses	8	163	-	104	156	96	1,489	843	2,859
Regularly scheduled series	-	7	-	-	-	3	7	300	317
Internet (live)	-	10	-	13	27	-	203	350	603
Test-item writing	-	-	-	-	-	-	-	-	-
Committee learning	-	-	-	-	-	9	-	-	9
Performance improvement	-	-	-	-	-	2	-	-	2
Internet searching and learning	-	-	-	-	-	1	-	1	2
Internet enduring materials	-	3	-	39	82	24	1,055	412	1,615
Enduring materials (other)	-	12	-	17	-	-	141	11	181
Learning from teaching	-	-	-	-	-	-	-	-	-
Journal CE	-	-	-	-	103	-	94	53	250
Manuscript review	-	-	-	-	-	-	-	1	1
Other	-	-	-	-	-	-	-	-	-
Total	8	195	-	173	368	135	2,989	1,971	5,839
Grand total	17,922	6,074	-	1,435	1,452	1,313	18,728	8,312	55,236

¹Directly provided activities are delivered by an accredited provider. Jointly provided activities are delivered by an accredited provider and one or more nonaccredited organizations.

CE Presented by Jointly Accredited Providers
Table 4. Hours of Instruction by Organization and Activity Type—2019

Organization type	Government or military	Hospital/ healthcare delivery system	Insurance company/ managed-care company	Nonprofit (other)	Nonprofit (membership organization)	Other	Publishing/ education company	School of health sciences/ medicine	Grand total
Number of providers	5	16	-	6	10	12	20	18	87
Directly provided¹									
Courses	58,777	16,538	-	2,738	1,782	4,206	6,275	21,966	112,283
Regularly scheduled series	5,440	23,432	-	248	21	2,447	327	43,102	75,017
Internet (live)	3,885	389	-	356	89	723	347	1,466	7,255
Test-item writing	-	-	-	-	70	16	-	-	86
Committee learning	-	-	-	-	-	13	-	-	13
Performance improvement	-	20	-	-	80	-	-	150	250
Internet searching and learning	-	-	-	-	-	-	-	2	2
Internet enduring materials	1,339	1,032	-	173	1,413	570	14,952	3,135	22,613
Enduring materials (other)	81	408	-	157	64	77	7,707	1,435	9,929
Learning from teaching	-	-	-	-	-	-	-	28	28
Journal CE	-	71	-	24	38	-	52	74	259
Manuscript review	-	-	-	-	-	-	-	15	15
Other	-	748	-	-	1	-	-	193	942
Total	69,522	42,639	-	3,695	3,557	8,052	29,660	71,565	228,689
Jointly provided¹									
Courses	79	1,128	-	300	704	430	12,501	7,936	23,077
Regularly scheduled series	-	66	-	-	-	62	38	6,297	6,462
Internet (live)	-	16	-	15	28	-	467	374	899
Test-item writing	-	-	-	-	-	-	-	-	-
Committee learning	-	-	-	-	-	13	-	-	13
Performance improvement	-	-	-	-	-	2	-	-	2
Internet searching and learning	-	-	-	-	-	8	-	1	9
Internet enduring materials	-	16	-	37	224	79	2,357	576	3,289
Enduring materials (other)	-	18	-	20	-	-	669	119	826
Learning from teaching	-	-	-	-	-	-	-	-	-
Journal CE	-	-	-	-	101	-	94	53	248
Manuscript review	-	-	-	-	-	-	-	3	3
Other	-	-	-	-	-	-	-	-	-
Total	79	1,244	-	373	1,056	594	16,125	15,358	34,828
Grand total	69,601	43,882	-	4,067	4,613	8,646	45,785	86,924	263,518

¹Directly provided activities are delivered by an accredited provider. Jointly provided activities are delivered by an accredited provider and one or more nonaccredited organizations.

CE Presented by Jointly Accredited Providers
Table 5. Total Learner Interactions by Organization and Activity Type—2019

Organization type	Government or military	Hospital/ healthcare delivery system	Insurance company/ managed-care company	Nonprofit (other)	Nonprofit (membership organization)	Other	Publishing/ education company	School of health sciences/ medicine	Grand total
Number of providers	5	16	-	6	10	12	20	18	87
Directly provided¹									
Courses	297,550	87,541	-	62,539	92,770	35,439	50,159	157,627	783,625
Regularly scheduled series	67,786	270,429	-	6,389	364	20,173	1,169	641,948	1,008,258
Internet (live)	61,413	5,903	-	21,494	6,192	13,619	69,082	3,019	180,722
Test-item writing	-	-	-	-	97	201	-	-	298
Committee learning	-	-	-	-	-	39	-	-	39
Performance improvement	-	-	-	-	165	-	-	537	702
Internet searching and learning	-	-	-	-	-	-	-	50	50
Internet enduring materials	449,355	100,690	-	1,367,265	1,245,604	90,575	7,894,781	52,215	11,200,485
Enduring materials (other)	25,176	38,564	-	43,087	2,660	1,225	676,808	15,631	803,151
Learning from teaching	-	-	-	-	-	-	-	120	120
Journal CE	-	823	-	4,099	1,617	-	116,367	3,540	126,446
Manuscript review	-	-	-	-	-	-	-	-	-
Other	-	790	-	-	-	-	-	366	1,156
Total	901,280	504,740	-	1,504,873	1,349,469	161,271	8,808,366	875,053	14,105,052
Jointly provided¹									
Courses	421	6,737	-	2,782	6,190	3,404	80,338	56,514	156,386
Regularly scheduled series	-	833	-	-	-	1,069	142	76,120	78,164
Internet (live)	-	132	-	1,094	1,480	-	33,880	9,388	45,974
Test-item writing	-	-	-	-	-	-	-	-	-
Committee learning	-	-	-	-	-	410	-	-	410
Performance improvement	-	-	-	-	-	33	-	-	33
Internet searching and learning	-	-	-	-	-	3	-	31,439	31,442
Internet enduring materials	-	37	-	4,166	17,159	501	210,040	40,539	272,442
Enduring materials (other)	-	436	-	914	-	-	7,350	4,699	13,399
Learning from teaching	-	-	-	-	-	-	-	-	-
Journal CE	-	-	-	-	11,102	-	81,767	226	93,095
Manuscript review	-	-	-	-	-	-	-	99	99
Other	-	-	-	-	-	-	-	-	-
Total	421	8,175	-	8,956	35,931	5,420	413,517	219,024	691,444
Grand total	901,701	512,915	-	1,513,829	1,385,400	166,691	9,221,883	1,094,077	14,796,496

¹Directly provided activities are delivered by an accredited provider. Jointly provided activities are delivered by an accredited provider and one or more nonaccredited organizations.

CE Presented by Jointly Accredited Providers
Table 6. Income—2019
Total providers = 87

	Total income	Registration fees	Total commercial support	Advertising and exhibits income	Private donations	Government grants
Average	\$ 7,244,025	\$ 3,017,024	\$ 3,070,326	\$ 1,080,991	\$ 20,639	\$ 55,045
First quartile ¹	\$ 80,794	\$ -	\$ -	\$ -	\$ -	\$ -
Second quartile (median) ¹	\$ 1,398,421	\$ 196,897	\$ 45,000	\$ 14,650	\$ -	\$ -
Third quartile ¹	\$ 4,650,689	\$ 1,946,793	\$ 1,302,240	\$ 474,100	\$ 1,000	\$ -
Total	\$ 630,230,138	\$ 262,481,065	\$ 267,118,330	\$ 94,046,244	\$ 1,795,608	\$ 4,788,891
Providers reporting data > \$0	78	64	49	47	22	14

¹The percentage of providers reporting data for some of the financial categories is less than needed to report some of the quartile values.

CE Presented by Jointly Accredited Providers
Table 7. Income by Organization Type—2019

	Number of providers	Total reported income	Registration fees	Total commercial support	Advertising and exhibits income	Private donations	Government grants
Government or military	5	\$ 1,540,375	\$ 4,375	\$ -	\$ -	\$ -	\$ 1,536,000
Hospital/healthcare delivery system	16	\$ 8,668,794	\$ 4,561,457	\$ 1,321,840	\$ 1,975,049	\$ 601,181	\$ 209,267
Insurance company/managed-care company	-	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Nonprofit (other)	6	\$ 25,035,358	\$ 15,445,887	\$ 7,436,060	\$ 1,677,678	\$ 475,733	\$ -
Nonprofit (membership organization)	10	\$ 150,016,370	\$ 94,788,662	\$ 14,353,048	\$ 40,098,834	\$ 243,579	\$ 532,247
Other	12	\$ 33,091,958	\$ 12,831,049	\$ 16,948,785	\$ 3,175,124	\$ 137,000	\$ -
Publishing/education company	20	\$ 329,245,227	\$ 88,000,498	\$ 211,630,610	\$ 27,636,653	\$ 121,500	\$ 1,855,967
School of health sciences/medicine	18	\$ 82,632,056	\$ 46,849,137	\$ 15,427,987	\$ 19,482,907	\$ 216,615	\$ 655,410
Grand total 2019	87	\$ 630,230,138	\$ 262,481,065	\$ 267,118,330	\$ 94,046,244	\$ 1,795,608	\$ 4,788,891
Grand total 2018	75	\$ 508,233,007	\$ 200,458,867	\$ 239,131,076	\$ 61,035,162	\$ 1,668,154	\$ 5,939,749

Note: Grand totals may differ slightly due to rounding.

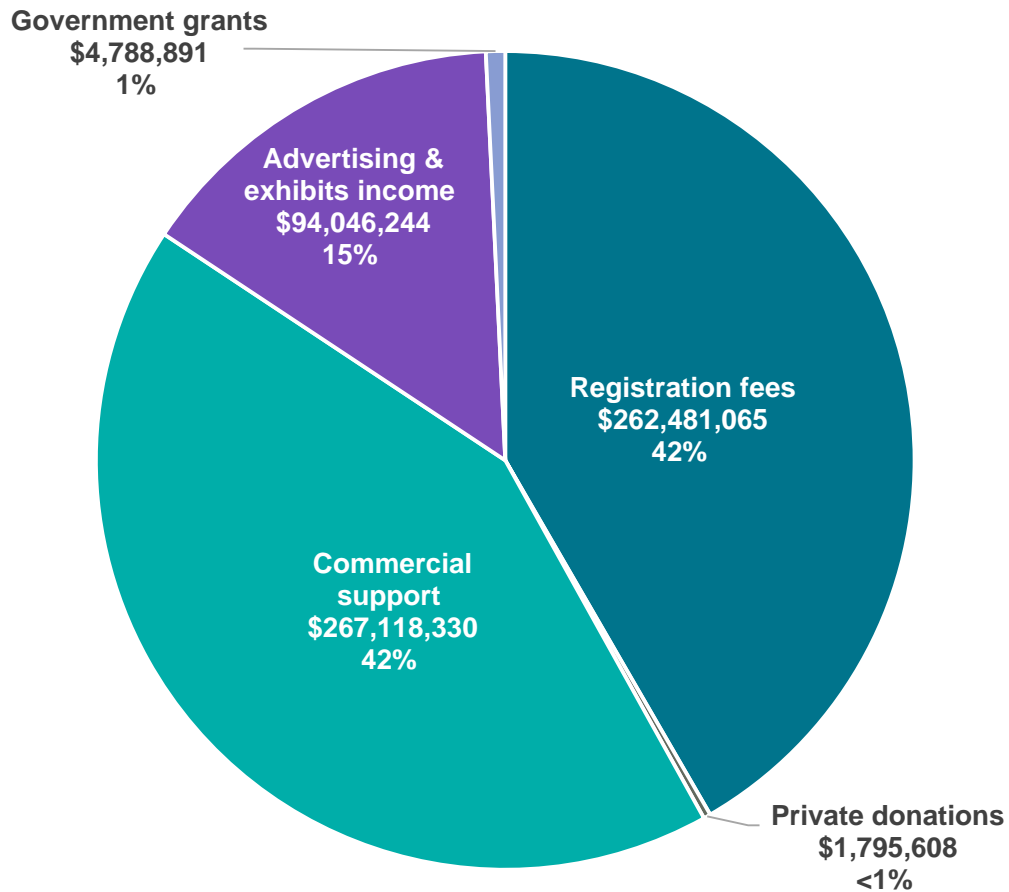
CE Presented by Jointly Accredited Providers

Table 8. CE Activities and Interactions with and without Commercial Support—2019

	Activities		Total learner interactions	
	Count	%	Count	%
No commercial support	50,582	92%	12,486,379	84%
Commercial support	4,654	8%	2,310,117	16%
Total	55,236	100%	14,796,496	100%

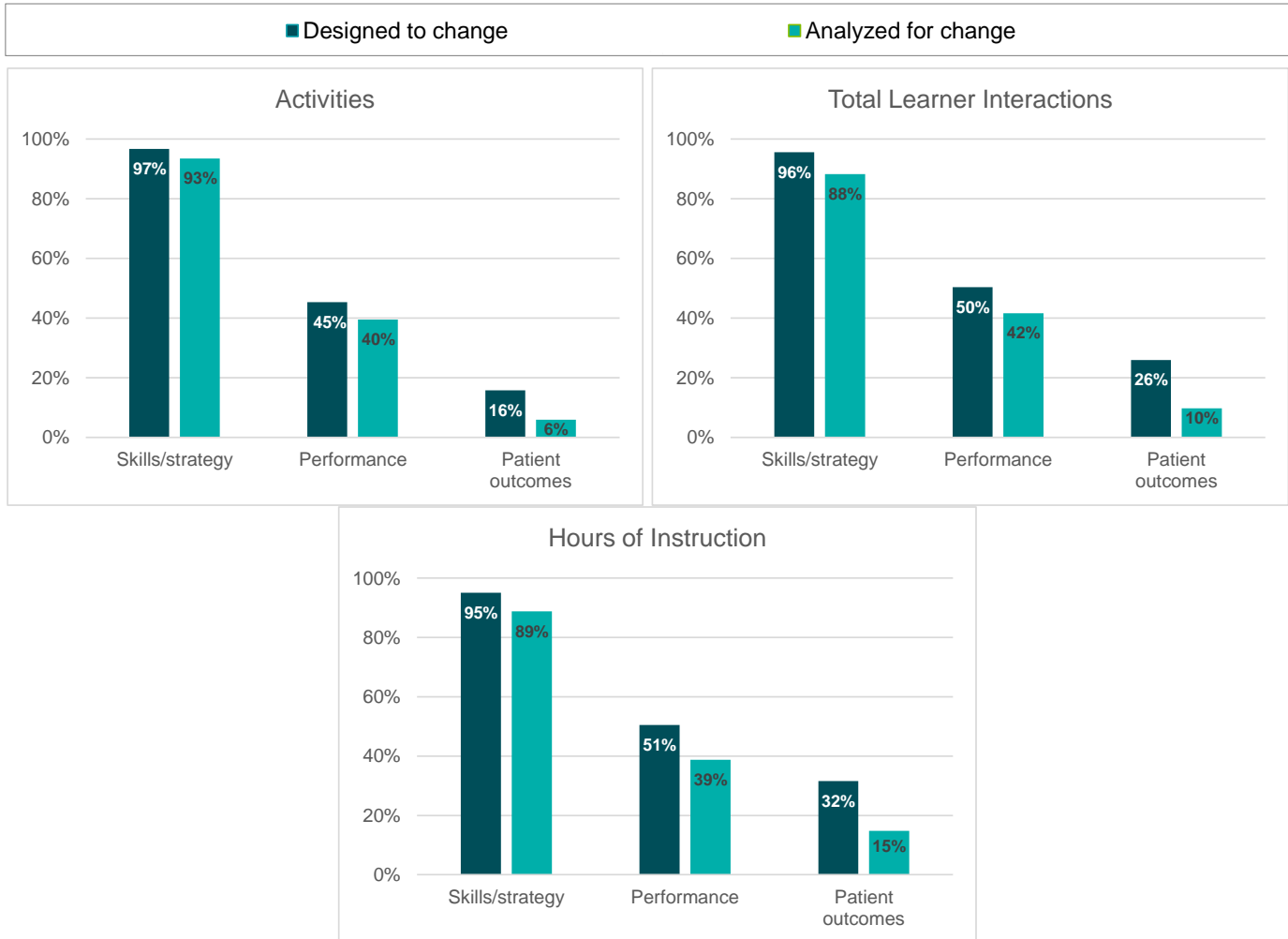
In 2019, the majority of CE activities (92%) did not receive commercial support, accounting for 84% of learner interactions. Eight percent of CE activities did receive commercial support, accounting for 16% of learner interactions.

CE Presented by Jointly Accredited Providers
Figure 3. Income—2019
Total Income is \$630,230,138



In 2019, commercial support made up 42% of reported income for jointly accredited providers. Registration fees accounted for 42%, advertising and exhibits income for 15%, and government grants and private donations accounted for the remainder.

CE Presented by Jointly Accredited Providers
Figure 4. Percentages of CE Designed/Analyzed for Change in Skills/Strategy, Performance, or Patient Outcomes—2019



The Joint Accreditation Criteria require providers to produce educational activities that are designed to change learners' skills/strategy (competence), performance, or patient outcomes. Providers are then required to analyze the changes that were achieved as a result of the activities.

Figure 4 illustrates the percentage of CE provided in 2019 that was designed and/or analyzed for changes in skills/strategy, performance, and/or patient outcomes.

CE Presented by Jointly Accredited Providers
Table 9. Total Numbers of Activities, Hours, and Interactions—2019

	Activities	Hours of instruction	Total learner interactions
Courses	27,076	135,360	940,011
Regularly scheduled series	3,548	81,479	1,086,422
Internet (live)	2,874	8,154	226,696
Test-item writing	19	86	298
Committee learning	12	26	449
Performance improvement	14	252	735
Internet searching and learning	4	10	31,492
Internet enduring materials	17,425	25,902	11,472,927
Enduring materials (other)	3,770	10,755	816,550
Learning from teaching	3	28	120
Journal CE	444	507	219,541
Manuscript review	2	18	99
Other	45	942	1,156
Total	55,236	263,518	14,796,496

CE Presented by Jointly Accredited Providers

Table 10. Numbers of Activities, Hours, and Interactions without Commercial Support—2019

	Activities	Hours of instruction	Total learner interactions
Courses	25,184	124,906	707,030
Regularly scheduled series	3,528	81,241	1,083,381
Internet (live)	2,599	7,826	189,385
Test-item writing	19	86	298
Committee learning	12	26	449
Performance improvement	14	252	735
Internet searching and learning	4	10	31,492
Internet enduring materials	15,282	24,197	9,467,042
Enduring materials (other)	3,473	10,513	789,750
Learning from teaching	3	28	120
Journal CE	420	483	215,442
Manuscript review	2	18	99
Other	42	941	1,156
Total	50,582	250,526	12,486,379

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Table 11. Numbers of Activities, Hours, and Interactions with Commercial Support—2019

	Activities	Hours of instruction	Total learner interactions
Courses	1,892	10,454	232,981
Regularly scheduled series	20	238	3,041
Internet (live)	275	328	37,311
Test-item writing	-	-	-
Committee learning	-	-	-
Performance improvement	-	-	-
Internet searching and learning	-	-	-
Internet enduring materials	2,143	1,705	2,005,885
Enduring materials (other)	297	242	26,800
Learning from teaching	-	-	-
Journal CE	24	24	4,099
Manuscript review	-	-	-
Other	3	1	-
Total	4,654	12,992	2,310,117

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Table 12. Total Learner Interactions by Profession—2019

	Physician interactions	Nurse interactions	Pharmacist interactions	Pharmacy Technician interactions	Physician Assistant interactions	Psychologist interactions	Optometrist interactions	Social Worker interactions	Other learner interactions	Total learner interactions
Courses	226,749	296,502	8,287	276	10,112	11,433	359	29,569	356,724	940,011
Regularly scheduled series	721,644	135,758	4,790	71	17,193	3,833	669	7,429	195,035	1,086,422
Internet (live)	23,063	67,799	31,088	7,163	653	8,604	552	14,870	72,904	226,696
Test-item writing	116	146	-	-	-	-	-	-	36	298
Committee learning	96	211	-	-	-	-	-	-	142	449
Performance improvement	391	156	-	-	-	-	-	-	188	735
Internet searching and learning	31,471	10	-	-	-	-	-	-	11	31,492
Internet enduring materials	2,325,271	6,557,882	16,103	419	123,563	17,709	8,985	100,616	2,322,379	11,472,927
Enduring materials (other)	263,525	301,943	85,654	58,020	23,533	2,245	566	11,959	69,105	816,550
Learning from teaching	108	4	-	-	3	-	-	1	4	120
Journal CE	93,471	8,684	18	-	278	4	1	6	117,079	219,541
Manuscript review	99	-	-	-	-	-	-	-	-	99
Other	184	329	4	0	10	3	1	106	519	1,156
Total	3,686,188	7,369,424	145,944	65,949	175,345	43,831	11,133	164,556	3,134,126	14,796,496

CE Presented by Jointly Accredited Providers
Table 13. Total Learner Interactions by Profession without Commercial Support—2019

	Physician interactions	Nurse interactions	Pharmacist interactions	Pharmacy Technician interactions	Physician Assistant interactions	Psychologist interactions	Optometrist interactions	Social Worker interactions	Other learner interactions	Total learner interactions
Courses	136,195	249,655	7,476	276	6,824	10,893	351	28,429	266,931	707,030
Regularly scheduled series	719,801	135,420	4,790	71	17,151	3,811	669	7,382	194,286	1,083,381
Internet (live)	17,073	59,313	30,116	7,163	347	8,495	552	14,787	51,539	189,385
Test-item writing	116	146	-	-	-	-	-	-	36	298
Committee learning	96	211	-	-	-	-	-	-	142	449
Performance improvement	391	156	-	-	-	-	-	-	188	735
Internet searching and learning	31,471	10	-	-	-	-	-	-	11	31,492
Internet enduring materials	1,610,414	5,605,034	11,309	419	112,826	17,165	8,932	100,527	2,000,416	9,467,042
Enduring materials (other)	256,851	291,642	85,647	58,020	23,358	2,245	566	11,953	59,468	789,750
Learning from teaching	108	4	-	-	3	-	-	1	4	120
Journal CE	92,718	6,898	18	-	215	4	1	-	115,588	215,442
Manuscript review	99	-	-	-	-	-	-	-	-	99
Other	184	329	4	0	10	3	1	106	519	1,156
Total	2,865,517	6,348,818	139,360	65,949	160,734	42,616	11,072	163,185	2,689,128	12,486,379

CE Presented by Jointly Accredited Providers
Table 14. Total Learner Interactions by Profession with Commercial Support—2019

	Physician interactions	Nurse interactions	Pharmacist interactions	Pharmacy Technician interactions	Physician Assistant interactions	Psychologist interactions	Optometrist interactions	Social Worker interactions	Other learner interactions	Total learner interactions
Courses	90,554	46,847	811	-	3,288	540	8	1,140	89,793	232,981
Regularly scheduled series	1,843	338	-	-	42	22	-	47	749	3,041
Internet (live)	5,990	8,486	972	-	306	109	-	83	21,365	37,311
Test-item writing	-	-	-	-	-	-	-	-	-	-
Committee learning	-	-	-	-	-	-	-	-	-	-
Performance improvement	-	-	-	-	-	-	-	-	-	-
Internet searching and learning	-	-	-	-	-	-	-	-	-	-
Internet enduring materials	714,857	952,848	4,794	-	10,737	544	53	89	321,963	2,005,885
Enduring materials (other)	6,674	10,301	7	-	175	-	-	6	9,637	26,800
Learning from teaching	-	-	-	-	-	-	-	-	-	-
Journal CE	753	1,786	-	-	63	-	-	6	1,491	4,099
Manuscript review	-	-	-	-	-	-	-	-	-	-
Other	-	-	-	-	-	-	-	-	-	-
Total	820,671	1,020,606	6,584	0	14,611	1,215	61	1,371	444,998	2,310,117