Fiscal Year 2021-2022

PROVINCIAL STUDENT PRACTICE EDUCATION METRICS

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INTRODUCTION

This is the first Provincial Student Practice Education Metrics Report that provides student practice education metrics across British Columbia. The intent of the report is to:

- Acknowledge and celebrate the commitment of those who support student education
- Recognize collaborations amongst placement settings and academic partners across the province
- Provide data to inform operational and strategic decisions, including workforce planning, building capacity for student education, quality practice environments, and priority areas of focus and innovation
- Identify opportunities for further development

STUDENT PRACTICE EDUCATION IN BRITISH COLUMBIA

Student Practice Education in British Columbia includes the learning activities that occur in health settings for students who are enrolled in a recognized academic institution who have a practicum as part of their program requirements.

Preparing the healthcare team members of tomorrow is possible because of the support and commitment from many people in a wide variety of roles in both the health and education sectors, as well as with provincial partners. Oversight is provided by the Planning Board for Health and Medical Education, with representation from the BC Ministry of Post-Secondary Education and Skills Training, and the BC Ministry of Health. The post-secondary institutions and the health organizations have adopted a collaborative approach to sharing the responsibility for delivering the clinical component of the students' education program as outlined in the Provincial Student Practice Education Policy (https://spe.healthcarebc.ca/Documents/2022%20SPE%20Policy%20-%20For%20Distribution.pdf)

The BC SPE Network is comprised of partners from the Ministry of Health, Ministry of Post-Secondary Education and Future Skills, Post-Secondary Institutions, and Health Care Organizations. The SPE Network also includes the contributions from other groups, such as BC Health Regulators, professional associations, research networks, and subject matter experts.

This report is structured based on the Indicators identified in the Provincial Student Practice Education Metrics Framework (Appendix A). As this report is shared with partners, feedback will be gathered on both the content of the metrics included and the structure of how the information is organized and will be used to inform any future reports.

STUDENT PRACTICE EDUCATION ACTIVITY DATA – LIMITATIONS AND OPPORTUNITIES

The Health Sciences Placement Network, or HSPnet, provides a web-based system for managing practice education in the health sciences and serves as the source of data for this report. Used across Canada and internationally since 2003, HSPnet provides a rich database and tools to support practice education. As this is the first report of its kind, there are a few caveats to be named:

- There is likely some variation in the data elements and usage of HSPnet across health organizations, disciplines, and post-secondary institutions. This report provides an opportunity for closer examination, discussion, and possibility for establishing more consistency (where appropriate) in the data and usage of the platform.
- As such, the intent of this report is to build an understanding, transparency, and foster dialogue – one should be cautious about drawing any firm conclusions without further inquiry from respective partners.

- Because HSPnet is a rich data repository for student activities, there are choices in the data selected and presented here as an example of what is possible to guide planning and decision-making. Further stakeholder engagement of meaningful measures will follow.

Medical students are also part of the clinical placement activities across the province. At this time, not all health organizations have medical learner placement information available in HSPnet. Work is underway to include Medical Undergraduates (MDUG) data in HSPnet across the province and will be considered for future reports.

The Midwifery program at the University of British Columbia is transitioning to HSPnet in the 2022-23 Fiscal Year. Therefore, midwifery student placement data is provided directly from UBC and is included separately in Appendix D, Table 5. Future provincial metrics reports will include midwifery student placement data from HSPnet in the table with the other sub-disciplines.

Similarly, First Nations' Health Authority (FNHA) also supports student practice education activities in a variety of ways across the province. As FNHA is in the process of transitioning to use HSPnet for student placement coordination, data that reflects their role with students will be available in future updates.

BC Emergency Health Services (BCEHS) is also transitioning onto HSPnet. Reporting of placement data for paramedics in health authorities is under the discipline of Emergency Medical Technology in health authority data. In this report data for BCEHS on-car paramedic student placements is in the Appendices only (Table 4).

Lastly, metrics tell an important but only partial story of the journey of health program students becoming new team members in the health system. There is opportunity to expand the report beyond activity metrics to include measures that indicate students' learning experiences in the clinical environment and the opportunities provided to develop and demonstrate relevant competencies.

STUDENT PRACTICE EDUCATION DATA WORKING GROUP (SPEDWG)

The Student Practice Education Data Working Group was established to:
- Provide leadership for gathering, tracking and reporting on student placement information across BC.
- Oversee the applied use of the Student Practice Education management software (HSPnet).
- Promote effective utilization of student placement data.
- Provide advice and recommendations to the HSPnet National Alliance through the HSPnet-BC Lead Agency and/or the HSPnet Operational Team on student practice education practice and operations that could be supported by data and analytics.
- The SPEDWG is accountable to the Provincial Student Practice Education Coordinating Committee (PSPECC).
- The SPEDWG is comprised of representatives from post-secondary institutions, health care organizations, the Ministry of Post-Secondary Education and Future Skills, the Ministry of Health and the HSPnet Team. The Working Group has rotating Co-Chairs from different sectors, with PHSA serving as the Working Group Secretariat. The SPEDWG launched in January 2022 and is currently meeting monthly.

DATA STEWARDSHIP PRINCIPLES AND APPROACH

Student Practice Education Data Stewardship Principles:

- Each HSPnet-user organization has full access to their own organization's data at all times and may use it and share it as determined by their organization.
- SPEDWG will support the collective stewardship of aggregate provincial data as an asset of the health system.

Approach for requests for provincial data:

- Aggregate provincial data is available to the SPEDWG members via the BC Provincial Report Card (past 4 years of data).
- Analysis, monitoring, and sharing of data to wider stakeholders will be done in consultation with each sector (Health, Education, Government).
- As consistent parameters for answering common data queries are being documented and agreed upon, any interpretation of provincial data will be done in consultation with each sector.
- Aggregate provincial data shall be made available to wider stakeholders to assist with improved planning and coordination.

Note: Aggregate provincial data does not include unique individual (student, instructor, preceptor) information or identifiers.

DATA-INFORMED PLANNING

As stated above, two of the overall intentions of creating and providing this provincial student education metrics report are to provide data to inform operational and strategic decisions, including workforce planning, building capacity for student education, quality practice environments, and priority areas of focus and innovation; and to identify opportunities for further development. It is intended that taking time each year to look back and review the activities that have occurred as well as consider the changing contexts of our health system and develop a collaborative plan for the year ahead will be beneficial for delivering clinical placement opportunities that are well-aligned with the needs of British Columbians and our health system.

STUDENT PRACTICE EDUCATION INFOGRAPHIC

Below is the overall activity by hours and number of student placements. It highlights activities between post-secondary institutions and BC health authorities using HSPnet to coordinate student placements.

STUDENT PRACTICE EDUCATION in British Columbia

FISCAL YEAR 2021-22

32,317
Total number of student placements, excluding medical students and residents, at BC Health Authorities (in FY 20-21 it was 27,023)

STUDENT PLACEMENTS

45 BC schools placing in **6** health authorities

HOURS
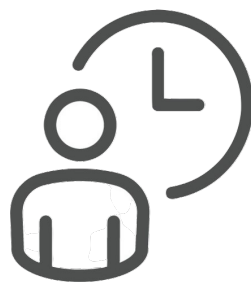
4,786,642
Total number of Students Practice Education Hours, excluding medical students and residents, at BC Health Authorities (in FY 20-21 it was 4,272,722)

66%
Percentage of requests resulting in Confirmed placements (in FY 20-21 it was 55%)

92
Number of sub-disciplines placing students in BC Health Authorities

PROVINCIAL ANALYSIS

MONITOR PROVINCIAL STUDENT PRACTICE EDUCATION ACTIVITIES

The table below provides both the number of confirmed student placements and number of confirmed student hours at health authorities in BC, over fiscal year 2021-22, by both discipline and sub-discipline. This provides a high-level overview of regional distribution for where students in a particular sub-discipline are having clinical placements. It presents past activity data for further analysis and discussion.

Table 1: Student Placements and Hours all Disciplines & Sub-Disciplines by Receiving Agency FY 2021-22

Discipline/Sub-discipline	FHA		VCHA		IHA		VIHA		NHA		PHSA		Grand Total	
	Student Hours	Student Placements	Student Hours	Student Placements	Student Hours	Student Placements	Student Hours	Student Placements	Student Hours	Student Placements	Student Hours	Student Placements	Student Hours	Student Placements
Nursing	988,094	6,665	732,616	5,192	571,131	4,499	543,209	3,075	207,983	2,186	123,292	1,065	3,166,323	22,682
Bacc Nursing - BScN/BSN/BN	594,398	3,781	480,559	3,196	368,984	2,880	390,801	1,975	160,211	1,835	92,992	809	2,087,944	14,476
Licensed/Registered Practical Nurse	124,706	841	91,729	681	91,397	953	80,267	551	19,847	160	404	8	408,349	3,194
Nurse Practitioner	12,807	100	6,876	49	7,676	50	6,052	38	3,141	18	3,414	26	39,965	281
Nursing - Masters	528	5	844	12	256	3			80	1	588	6	2,296	27
Post-LPN/RPN Specialty	100,811	927	80,896	784	63,315	347	38,580	349	12,398	90	15,329	156	311,328	2,653
Psychiatric Nursing - Diploma	30,666	219	7,610	42	32,578	229	16,994	119	10,940	76	1,674	7	100,462	692
Psychiatric Nursing Bacc - BScN/BN/RPN Psych	62,501	482	41,813	297	960	4					8,196	50	113,469	833
Registered Nurse	61,678	310	22,290	131	5,965	33	10,515	43	1,366	6	696	3	102,510	526
Other Health	70,314	672	61,735	441	84,569	875	94,390	758	37,791	385	13,109	51	361,907	3,182
Activity Assistant	585	7			1,560	21			405	5			2,550	33
Bachelor of Public Health					48	1							48	1
Biomedical Engineer	1,225	7	1,225	7	350	2	350	2			525	3	3,675	21
Biomedical Technologist			200	1			320	2					520	3
Child Life Specialist											360	1	360	1
Community Care Licensing	720	3					240	1					960	4
Community Health Worker	7,800	52	75	1			6,095	25			440	2	14,410	80
Environmental Health	3,360	8	3,360	8	3,120	7	420	1	420	1			10,680	25
Health/Medical Physics					1,400	4			70	1			1,470	5
Kinesiology	30	1											30	1
Master of Science in Medical Genetics			276	2			192	1			4,116	18	4,584	21
Masters of Public Health	400	1	240	1	900	2	2,200	5	412	1	7,668	27	11,820	37
Misc. - Observation/Job Shadow					66	3							66	3

Discipline/Sub-discipline	FHA		VCHA		IHA		VIHA		NHA		PHSA		Grand Total	
	Student Hours	Student Placements	Student Hours	Student Placements	Student Hours	Student Placements	Student Hours	Student Placements	Student Hours	Student Placements	Student Hours	Student Placements	Student Hours	Student Placements
Other Health	100	1			533	10	15,531	68	64	1			16,228	80
Residential Care / Health Care / Institutional Aide	56,094	592	51,214	412	76,502	823	67,597	649	36,420	376			287,827	2,852
Various - Multidisciplinary/Interdisciplinary			5,145	9	90	2	1,445	4					6,680	15
Technologist/Technician	178,209	692	110,134	345	100,740	245	72,030	288	42,914	95	23,281	84	527,307	1,749
Cardiology/Cardiovascular Tech	11,657	51	11,418	34	4,909	13	5,288	18					33,271	116
Clinical Genetics Technologist	1,500	3	1,300	4			200	1			2,870	8	5,870	16
Electroencephalograph Technologist	2,135	10	1,295	6	1,365	6	875	7			480	3	6,150	32
Magnetic Resonance Imaging (MRI) Technology/Technician	7,560	20	3,480	7	2,320	4	4,040	8	560	1			17,960	40
Medical Laboratory Assistant	9,170	92	4,590	30	8,234	32	5,061	29	2,240	11	600	4	29,895	198
Medical Laboratory Technologist	48,450	46	37,200	36	27,895	27	14,856	18	7,770	12	9,750	10	145,921	149
Nuclear Medicine Tech	9,840	69	7,680	51	160	2	1,920	11	80	1	1,760	22	21,440	156
Other Technologist					20,550	57			2,903	9			23,453	66
Perfusionist	1,395	3	2,625	5	1,050	2	1,050	2			225	2	6,345	14
PolySomnography Tech					72	1							72	1
Radiology Tech	29,119	98	16,309	50	15,357	38	24,138	101	19,776	40	1,958	14	106,657	341
Sonography Tech	22,392	163	13,474	95	16,516	57	14,602	93	9,585	21	2,450	13	79,019	442
Sterile Processing Technician	34,992	137	10,763	27	2,312	6					3,188	8	51,255	178
Rehabilitation Sciences	50,584	308	59,684	389	24,809	145	19,617	105	19,972	118	5,663	31	180,329	1,096
Audiologist	2,362	11	418	2	268	3	468	2					3,515	18
Occupational Therapist	15,481	74	17,808	82	7,166	34	6,721	31	2,188	10	3,158	15	52,520	246
Occupational Therapy Assistant		3			350	2	175	1					525	3
Physical Therapy or Physiotherapy Assistant					350	2	350	2					700	4
Physiotherapist	22,477	157	25,007	178	10,102	58	8,395	45	16,175	102	1,296	7	83,452	547
Prosthetist	18	9	58	21	167	2							243	32
Rehabilitation Assistant	8,303	45	11,649	74	5,836	35	2,998	20	570	3	893	6	30,248	183
Speech & Language Pathologist/Communications	1,944	12	4,745	32	571	9	511	4	1,039	3	317	3	9,127	63
Emergency Medical Technology	2,528	304	2,800	271	1,290	124	3,548	374	87	8	120	15	10,373	1,096
Paramedic-Advanced/Critical Care	1,056	120	1,160	76	348	19	620	23			120	15	3,304	253

Discipline/Sub-discipline	FHA		VCHA		IHA		VIHA		NHA		PHSA		Grand Total	
	Student Hours	Student Placements	Student Hours	Student Placements	Student Hours	Student Placements	Student Hours	Student Placements	Student Hours	Student Placements	Student Hours	Student Placements	Student Hours	Student Placements
Paramedic-Primary Care/Emergency Medical Technician	1,472	184	1,640	195	942	105	2,928	351	87	8			7,069	843
Pharmacy	29,432	186	28,237	191	18,720	101	22,040	116	5,480	31	10,448	62	114,357	687
Pharmacist	24,472	155	26,477	180	14,080	74	18,720	96	4,640	26	9,328	55	97,717	586
Pharmacy Technician	4,960	31	1,760	11	4,640	27	3,320	20	840	5	1,120	7	16,640	101
Administration	23,588	196	16,806	147	10,503	112	4,530	43	1,545	26	7,179	67	64,151	591
Clerical - General					350	4							350	4
Health Unit Coordinator/Nursing Unit Clerk	16,840	137	13,436	114	8,593	92	4,440	42	1,433	23	5,263	46	50,004	454
Hospital and Health Care Facilities Administration	6,120	51	600	5									6,720	56
Library and Information Technology	90	1									60	1	150	2
Library Technician	70	1											70	1
Medical Office Assistant	300	4	2,434	24	1,560	16	90	1	113	3	1,772	19	6,269	67
Medical Transcriptionist	168	2	336	4							84	1	588	7
Therapist	42,380	82	41,445	178	22,900	35	13,948	24	4,980	9	43,248	134	168,900	462
Art Therapist	250	1					312	2			300	1	862	4
Massage Therapist			2,188	88									2,188	88
Music Therapist	734	9	3,597	14							1,700	2	6,031	25
Radiation Therapist											19,268	43	19,268	43
Recreation Therapist Degree	3,780	9	7,140	18			800	2			1,400	4	13,120	33
Recreation Therapy Assistant Diploma			1,680	5					380	2			2,060	7
Respiratory Therapist	37,616	63	26,840	53	22,900	35	12,836	20	4,600	7	20,580	84	125,372	262
Social Work	16,901	41	18,247	46	20,567	56	9,287	24	7,270	18	11,962	28	84,234	213
Bachelor of Social Work	7,126	18	3,052	8	9,263	27	4,291	12	7,270	18	2,485	6	33,487	89
Child and Youth Care Worker	1,600	5	177	1			572	2			1,220	4	3,569	12
Human Services					1,240	5							1,240	5
Master of Social Work	8,175	18	14,778	36	10,064	24	4,424	10			8,257	18	45,698	106
Social Services Worker			240	1									240	1
Food & Nutrition	17,012	59	14,648	73	6,480	6	8,915	10	2,995	11	3,096	30	53,146	189
Dietitian	16,632	57	14,648	73	5,840	4	8,520	8	2,920	10	3,096	30	51,656	182
Food Services Management	380	2			640	2	395	2	75	1			1,490	7
Non-Health	1,893	16	9,856	53	75	1	4,080	12	644	10	960	6	17,508	98

Discipline/Sub-discipline	FHA Student Hours	FHA Student Placements	VCHA Student Hours	VCHA Student Placements	IHA Student Hours	IHA Student Placements	VIHA Student Hours	VIHA Student Placements	NHA Student Hours	NHA Student Placements	PHSA Student Hours	PHSA Student Placements	Grand Total Student Hours	Grand Total Student Placements
Bachelor of Arts	120	1											120	1
Bachelor of Science	101	4			75	1							176	5
Education - General									24	1			24	1
Master of Business Administration									300	5			300	5
Other	1,672	11	3,556	8			4,080	12	320	4	960	6	10,588	41
Pastoral/Spiritual Care			6,300	45									6,300	45
Health Information Management	2,076	31	502	5	1,685	29	287	7	35	1	1,153	19	5,738	92
Health Information Management Professional/Health Records Administrator	2,076	31	502	5	1,385	28	252	6	35	1	1,080	18	5,330	89
Other					300	1	35	1			73	1	408	3
Dental Medicine	66	22	342	35			176	22					584	79
Dental Hygienist	66	22	342	35			176	22					584	79
Psychology	5,966	14	10,880	27	2,900	8	3,000	8	60	2	6,300	14	29,106	73
Clinical Psychology											800	1	800	1
Counselling Psychology	2,590	7	7,300	17	2,900	8	1,600	4			1,364	4	15,754	40
Psychology (Masters)	400	2	2,590	6							1,400	2	4,390	10
Psychology (PHD)	2,976	5	990	4			1,400	4	60	2	2,736	7	8,162	22
Gerontology					840	14			200	1			1,040	15
Gerontology Diploma Prog					840	14			200	1			1,040	15
Management	400	6	280	4							840	2	1,520	12
Master of Health Administration	120	2									840	2	960	4
Policy and Planning	280	4	280	4									560	8
Information Systems							120	1					120	1
Other							120	1					120	1
Grand Total	1,429,443	9,294	1,108,211	7,397	867,209	6,250	799,176	4,867	331,955	2,901	250,648	1,608	4,786,642	32,317

*In-hospital paramedic activity only, on-car activity is in Appendix D, Table 4.

The number of distinct students (22 683) by discipline and sub-discipline by month for the province is seen in Table 2, allowing one to see at a glance the types of students and volumes that have been supported throughout the last fiscal year.

This data can be used to:
- Anticipate student volumes by discipline throughout the calendar year.
- Plan for students in advance, including support for the planning required for preceptor assignment, development, and availability.
- Schedule students learning activities such as on-site training, and interprofessional collaborative practice events and learning opportunities.

Note: since the length of student placements vary, the students listed in one month may still be on-site in subsequent months; excluded from these graphs are medical students and on-car paramedic placements whose current policies result in an equal distribution of placements throughout the year.

Table 2: Confirmed placement activity by month FY 2021-22

Discipline/Sub-discipline	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Total
Nursing	4,878	1,332	2,245	1,247	2,828	1,022	568	327	4,534	2,136	1,321	244	22,682
Bacc Nursing - BScN/BSN/BN	3,873	623	1,282	792	1,799	339	165	51	3,631	1,342	557	22	14,476
Licensed/Registered Practical Nurse	269	259	507	152	434	294	200	139	75	279	445	141	3,194
Nurse Practitioner	78	2	5	28	68	4	18		71	1	5	1	281
Nursing - Masters	11	1		1	1	1			11			1	27
Post-LPN/RPN Specialty	373	224	221	236	324	222	131	56	349	265	230	22	2,653
Psychiatric Nursing - Diploma	10	135	34	14	65	64	25	72	106	32	80	55	692
Psychiatric Nursing Bacc - BScN/BN/RPN Psych	215		169		74	13	6		208	148			833
Registered Nurse	49	88	27	24	63	85	23	9	83	69	4	2	526
Other Health	391	504	384	223	272	246	187	140	221	324	206	84	3,182
Activity Assistant	9	1	1	1		1	12	1	7				33
Bachelor of Public Health									1				1
Biomedical Engineer				21									21
Biomedical Technologist				1	2								3
Child Life Specialist									1				1
Community Care Licensing								1	3				4
Community Health Worker	10	1			8		35			25	1		80
Environmental Health			14		1	7		1	2				25
Health/Medical Physics				1	1				3				5
Kinesiology						1							1
Master of Science in Medical Genetics	1					8			12				21
Masters of Public Health	11				23			1	2				37
Misc. - Observation/Job Shadow								3					3
Other Health	3	2	8	19	14	1		2	1		12	18	80

Discipline/Sub-discipline	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Total
Residential Care / Health Care / Institutional Aide	355	499	361	171	231	193	174	128	185	298	191	66	2,852
Various - Multidisciplinary/Interdisciplinary	2	1		1				1	7	1	2		15
Technologist/Technician	265	165	51	145	312	94	194	178	154	116	68	7	1,749
Cardiology/Cardiovascular Tech	7	2		12	17	12	2	17	24	3	19	1	116
Clinical Genetics Technologist			4		3	3	3	2	1				16
Electroencephalograph Technologist	9		7	1	6	1				8			32
Magnetic Resonance Imaging (MRI) Technology/Technician	12				13	4		9		2			40
Medical Laboratory Assistant	18	32	28	23	12	3	7	5	22	25	23		198
Medical Laboratory Technologist	1				36	34	78						149
Nuclear Medicine Tech	18	12	6	13	26	13	10	16	14	14	14		156
Other Technologist		25	1	20	1	3		14	1	1			66
Perfusionist	1	1		2					5			5	14
PolySomnography Tech	1												1
Radiology Tech	109	2	5		126	11	11	40	36			1	341
Sonography Tech	63	51		70	29	10	83	75	26	24	11		442
Sterile Processing Technician	26	40		4	43				25	39	1		178
Rehabilitation Sciences	72	118	90	120	180	11	53	55	84	85	224	4	1,096
Audiologist	5	4		5	1	3							18
Occupational Therapist	58	40	2	1	50	1	34	2	1	1	56		246
Occupational Therapy Assistant		2									1		3
Physical Therapy or Physiotherapy Assistant	1	1			1					1			4
Physiotherapist	1	68	51	80	71	1	1	50	60	64	100		547
Prosthetist	1			2	1					13	15		32
Rehabilitation Assistant	4	2	37	24	36	1	18	3	2	4	52		183
Speech & Language Pathologist/Communications	2	1		8	20	5			21	2		4	63
Emergency Medical Technology	42	105	101	28	149	146	100	81	61	86	91	106	1,096
Paramedic-Advanced/Critical Care	3	17	62	13	35	31	30	29	33				253
Paramedic-Primary Care/Emergency Medical Technician	39	88	39	15	114	115	70	52	28	86	91	106	843
Pharmacy	104	60	7	15	212	60	15	47	128	25	14		687
Pharmacist	99	52	3	2	208	50	12	45	104	7	4		586
Pharmacy Technician	5	8	4	13	4	10	3	2	24	18	10		101
Administration	47	39	49	62	89	53	26	48	55	80	38	5	591
Clerical - General				1	1	2							4
Health Unit Coordinator/Nursing Unit Clerk	32	21	47	48	69	47	22	20	33	76	36	3	454
Hospital and Health Care Facilities Administration	8	8						20	20				56
Library and Information Technology		1	1										2

Discipline/Sub-discipline	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Total
Library Technician		1											1
Medical Office Assistant	7	8	1	6	19	4	4	8	2	4	2	2	67
Medical Transcriptionist				7									7
Therapist	66	22	30	3	27	111	12	27	31	26	10	97	462
Art Therapist	2				1		1						4
Massage Therapist	9	10	11		10	8	10		10	10	10		88
Music Therapist	17				3	1	1		2	1			25
Radiation Therapist	10				9			10	2			12	43
Recreation Therapist Degree	14		7	3	3			1	4		1		33
Recreation Therapy Assistant Diploma	2	1			1			3					7
Respiratory Therapist	12	11	12			102		13	13	15		84	262
Social Work	95	1	3	6	31		1		72	2	2		213
Bachelor of Social Work	63			2	6				18				89
Child and Youth Care Worker	5		1		2				4				12
Human Services	1		4										5
Master of Social Work	26	1	1		23		1		50	2	2		106
Social Services Worker			1										1
Food & Nutrition	20	12	9	7	9	7			101	3	19	2	189
Dietitian	20	11	9	6	6	7			99	3	19	2	182
Food Services Management		1		1	3				2				7
Non-Health	1	4	4	7	18	11	3	9	20		20	1	98
Bachelor of Arts	1												1
Bachelor of Science		4				1							5
Education - General							1						1
Master of Business Administration						5							5
Other			1	7		5	2		20		5	1	41
Pastoral/Spiritual Care			3		18			9			15		45
Health Information Management	24	3		37	1		1		3	10	11	2	92
Health Information Management Professional/Health Records Administrator	24	3		37	1				3	9	10	2	89
Other							1			1	1		3
Dental Medicine	19	18	5							37			79
Dental Hygienist	19	18	5							37			79
Psychology	8		2	5	16	4	1	3	33		1		73
Clinical Psychology										1			1
Counselling Psychology	8			5	8	1		1	16		1		40

Discipline/Sub-discipline	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Total
Psychology (Masters)			1		4	1			4				10
Psychology (PHD)			1		4	2	1	2	12				22
Gerontology		7		7	1								15
Gerontology Diploma Prog		7		7	1								15
Management	1		1	1	3				5	1			12
Master of Health Administration	1				3								4
Policy and Planning			1	1					5	1			8
Information Systems						1							1
Other						1							1
Grand Total	**6,033**	**2,390**	**2,981**	**1,913**	**4,148**	**1,766**	**1,161**	**915**	**5,502**	**2,931**	**2,025**	**552**	**32,317**

MONITOR PLACEMENT COORDINATION EFFICIENCY

The following chart provides the request activity for all disciplines at BC health authorities. This indicates the amount of coordination activity required to result in a confirmed placement. As all required student placements are eventually secured, the cancel and decline requests indicate the overall effort. For example, to secure 9,786 Nursing placements, an additional 2,688 requests were made that were cancelled, and 2,691 requests were made that were declined, for an overall rate of 66%. This metric can be monitored to see if improvements to the placement process also improve coordination efficiency. Coordination efficiency data by sub-discipline can be found in Appendix D.

Figure 1: Placement requests confirmed, declined, or cancelled by Discipline FY 2021 – 22
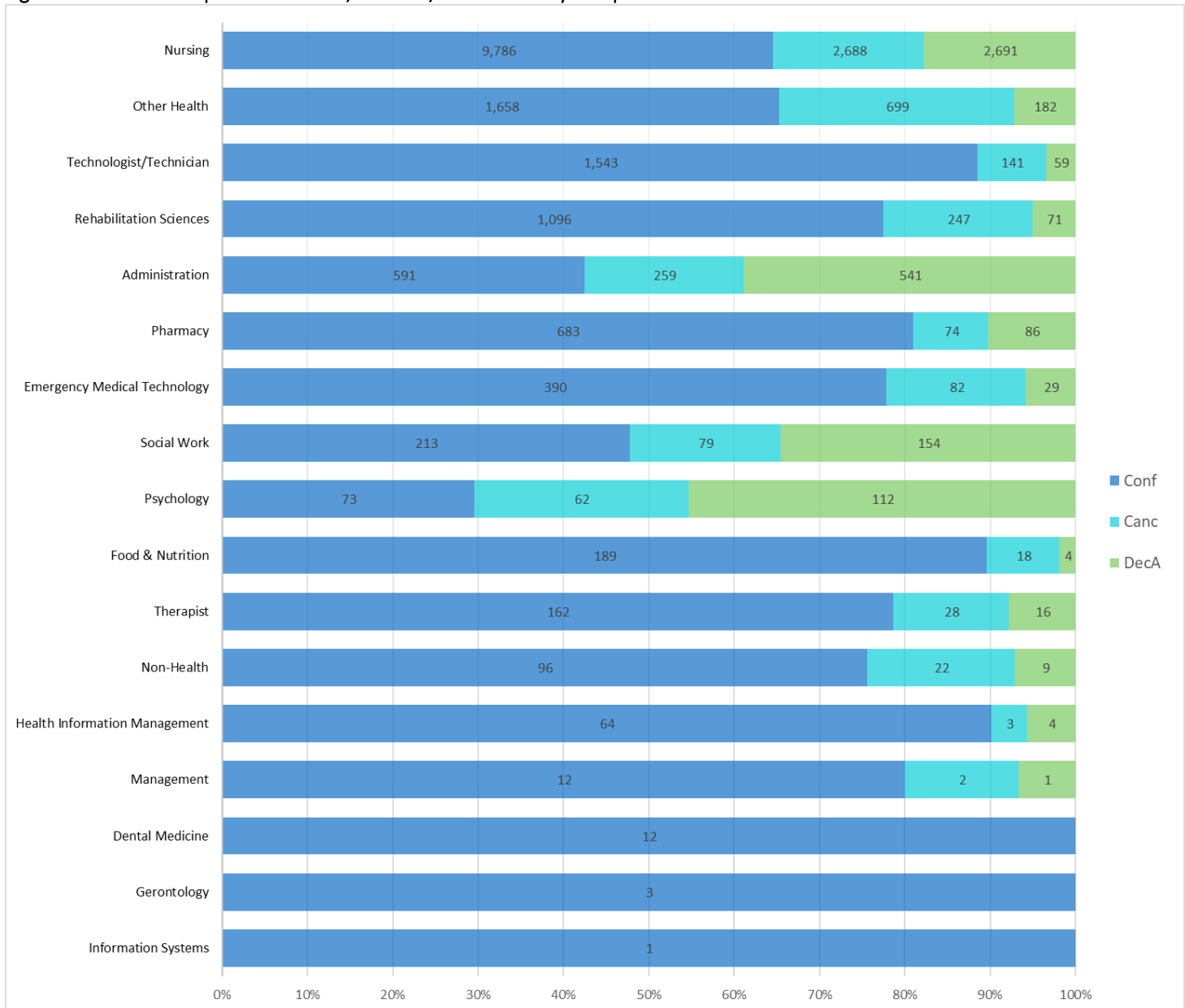
BUILD PLACEMENT CAPACITY AND INNOVATION

Top 10 Decline and Cancel Reasons

All placement requests (PR) should have a final status in HSPnet. The main status' that are monitored are Confirmed and Accepted (these indicate placements that occurred); and Decline and Cancel (these indicate placement requests that did not occur). A reason is indicated every time a PR is declined or cancelled. Figure 2 lists the top 10 decline and top 10 cancel reasons for all disciplines, placing agencies and receiving agencies in BC. This data leads to follow-up actions by both receiving agencies and placing agencies to improve placement coordination.

Figure 2: Top 10 Decline and Cancel Reasons FY 2021 – 22

DecA

Reason	Value
No experienced/trained staff to precept > No trained staff to precept	1380
Number of requests exceed available space, equipment or technology	987
Number of requests exceed available staff or shift rotations	833
Exceptional circumstances (provide explanation)	392
Request not suitable for area requested	254
No Reply from Destination (RC users)	118
On-Site Hazard/Event	104
Closure of beds, unit or program during placement period	83
No experienced/trained staff to precept > Other priorities assigned to staff (e.g. Training)	81
Individual student not suitable for area requested	72

Canc

Reason	Value
Found alternative placement	2206
Student Attrition	1019
User error	673
Exceptional circumstances (provide explanation)	595
Unused offer from "Call for Offers"	292
No supervisor / preceptor is available (Receiving Agency)	265
On-Site Hazard/Event	247
No reply from the RA by PR start date	231
Change in scheduling capacity	219
No longer meet PA course/learning objectives	173

APPENDIX A: PROVINCIAL STUDENT PRACTICE EDUCATION ANNUAL METRICS FRAMEWORK

1. **Indicator: Monitor Provincial Student Practice Education Activities**

    This category includes measures that demonstrate level of commitment to students and preceptors across the province over three fiscal years.

    a. # of Students, Placement Hours by Discipline & Sub-Discipline and Receiving Agency
    b. *# of Medical Students (Under-grads and Post-grads)*
    c. *# of placements by status/site regions/disciplines*
    d. # of Confirmed Placement Requests by Month
    e. *# of Preceptors in HSPnet With a Placement/Fiscal Year*

2. **Indicator: Monitor Placement Coordination Efficiency**

    This category includes measures that indicate the efficiency of coordinating student placements across the province over one fiscal year. Given that all students end up with clinical placements, these measures provide data on the proportion of placements that require more than one request.

    a. Rate of placement confirm/cancel/decline by discipline
    b. Number of placement confirm/cancel/decline by sub-discipline

3. **Indicator: Build Placement Capacity and Innovation**

    This category includes measures that address need and capacity for student placements, as well as innovative placement models.

    a. *# of Placement hours/Program/Sub-discipline/Placing Agency*
    b. *# of placement hours/Discipline/Sub-discipline/Receiving Agency*
    c. *# of Inter-professional placement destinations/request status*
    d. *Distribution of Student Hours by Care Setting/discipline*
    e. # of Decline and Cancel by Reason (Top 10 reasons)
    f. *# of Staff Participants in Preceptor/Educator Training*

4. **Indicator: Monitor the Quality of the Clinical Learning Environment**

    This category includes measures for monitoring quality learning environments.

    a. *Evaluation approach TBD*

Note: grey, italicized text represent forthcoming metrics

APPENDIX B: REGIONAL STUDENT PRACTICE EDUCATION METRICS FRAMEWORK

Student Education data will be made available both annually as aggregate provincial data (see Appendix A); and throughout the year to support regional monitoring and decision-making activities at regular intervals (e.g. each term, prior to reply-by timeframes), as outlined below.

Indicator: Monitor Provincial Student Practice Education Activities

This category includes measures that placement requests and status by term.

    a) # of Students, Placement Hours by Discipline & Sub-Discipline and Receiving Agency
    b) *Placement usage by status/site regions/disciplines*
    c) # of Confirmed Placement Requests by Month

Indicator: Monitor Placement Coordination Efficiency

This category includes measures that indicate the efficiency of coordinating student placements across the province over one fiscal year. These measures provide data on the proportion of placements that require more than one request.

    a) Rate of placement confirm/cancel/decline by discipline

Indicator: Build Placement Capacity and Innovation

    This category includes measures that address need and capacity for student placements, as well as innovative placement models.

    a) *# of Placement hours/Program/Sub-discipline/Placing Agency*
    b) *# of placement hours/Discipline/Sub-discipline/Receiving Agency*
    c) *# of Inter-professional placement destinations/request status*
    d) *Distribution of Student Hours by Care Setting/discipline*

Indicator: Monitor the Quality of the Clinical Learning Environment

    This category includes measures for monitoring quality learning environments.

    a) *Evaluation approach TBD*

Note: grey, italicized text represent forthcoming metrics

APPENDIX C: GLOSSARY

GLOSSARY	
HSPnet DEFINITIONS	
HOURS	
Student Hours	Total number of placement hours for all students (groups and non-groups) for all confirmed placements (calculated as # of students x the number of placement hours requested).
Placement Hours	Total number of hours requested, per student/group for all confirmed placements.
PLACEMENT STATUS	
Cancelled	A Confirmed, Redirected or Accepted Placement Request has been Cancelled by the Placing Agency or Receiving Agency (with reasons).
Confirmed	Represents all accepted requests that are confirmed by the school and agency.
Accepted by Agency	Represents all accepted requests that have not been confirmed by the school. Once a school accepts the placement, it becomes a Confirmed Status.
Declined by Agency	Represents all requests that were officially declined by the receiving agency. The reasons for decline are also captured for this placement status.
OTHER APPLICABLE HSPnet TERMS	
Discipline / Sub-discipline	The classification of the field of study. The list in HSPnet is based on the [Classification of Instructional Programs](#) (CIP) codes for education programs. Discipline: General category of Instructional Programs Sub-Discipline: Qualification upon completion of a program
Placing Agency	Typically, a health sciences educational institution that initiates a student placement but can be any organization that places a student (e.g. BCEHS).
Placement Destination	The physical or virtual location in which the student will complete their placement experience (e.g. 6th floor surgical ward, 2B). A destination is considered "active" if a Destination Coordinator is actively managing the Inbox (accepting/declining).
Receiving Agency/Site	The agency (typically but not necessarily a health services organization) that receives a student placement request. The Receiving Agency represents the legal entity (health authority, private lab, etc.) as opposed to the placement destination or site.
GENERAL TERMS	
Students	Learners who are involved in a Student Education experience as part of their studies in an undergraduate, graduate, post-graduate education program in the health and human services professions. This may include students from non-clinical programs in health services support areas such as information management, human resources, communications and decision support.
Student Practice Education	The component of an educational program in which students learn and practice in a community, clinical or simulated setting. It provides the experiential learning that helps students acquire the necessary skills, attitudes and knowledge to practice effectively in their field. It may include direct contact with patients/clients and access to their personal health information.
Fiscal Years	April 1, 2019 – March 31, 2020 April 1, 2020 – March 31, 2021 April 1, 2021 – March 31, 2022

APPENDIX D: DATA TABLES

Table 3 reports the number of placement requests throughout the year and the percentage of the total requests. For 2021-22, 66% of requests were confirmed and 34% of requests did not result in a placement.

Table 3: Total # and % of Placements Request status all Disciplines by Fiscal Year

	FY 19 - 20		FY 20 - 21		FY 21 - 22	
Request Status	**% of requests**	**# of requests**	**% of requests**	**# of requests**	**% of requests**	**# of requests**
AccA	0.26%	60	0.56%	138	0.19%	49
AccD	0.00%		0.00%		0.00%	1
Canc	14.74%	3,439	24.68%	6,044	17.51%	4,432
Conf	**65.48%**	**15,272**	**54.02%**	**13,229**	**65.83%**	**16,658**
DecA	19.07%	4,447	20.07%	4,915	15.70%	3,973
New	0.37%	86	0.56%	137	0.58%	146
Redir	0.07%	16	0.10%	25	0.17%	42
Sent	0.01%	3	0.01%	2	0.02%	4
Grand Total	**100.00%**	**23,323**	**100.00%**	**24,490**	**100.00%**	**25,305**

ACTIVITY AT BC HEALTH AUTHORITIES AND ALL OTHER RECEIVING AGENCIES

Figure 3 depicts the number of confirmed placements at BC health authorities and all other receiving agencies. There are roughly 50 non-health authority receiving sites included in the placement numbers below for sites such as post-secondary clinics, affiliated and private long-term care, community pharmacies, and some private clinics. Placements that occur at receiving sites that are not documented in HSPnet are not included.

Figure 3: Confirmed activity at HAs and All Other Receiving Agencies for 3 years
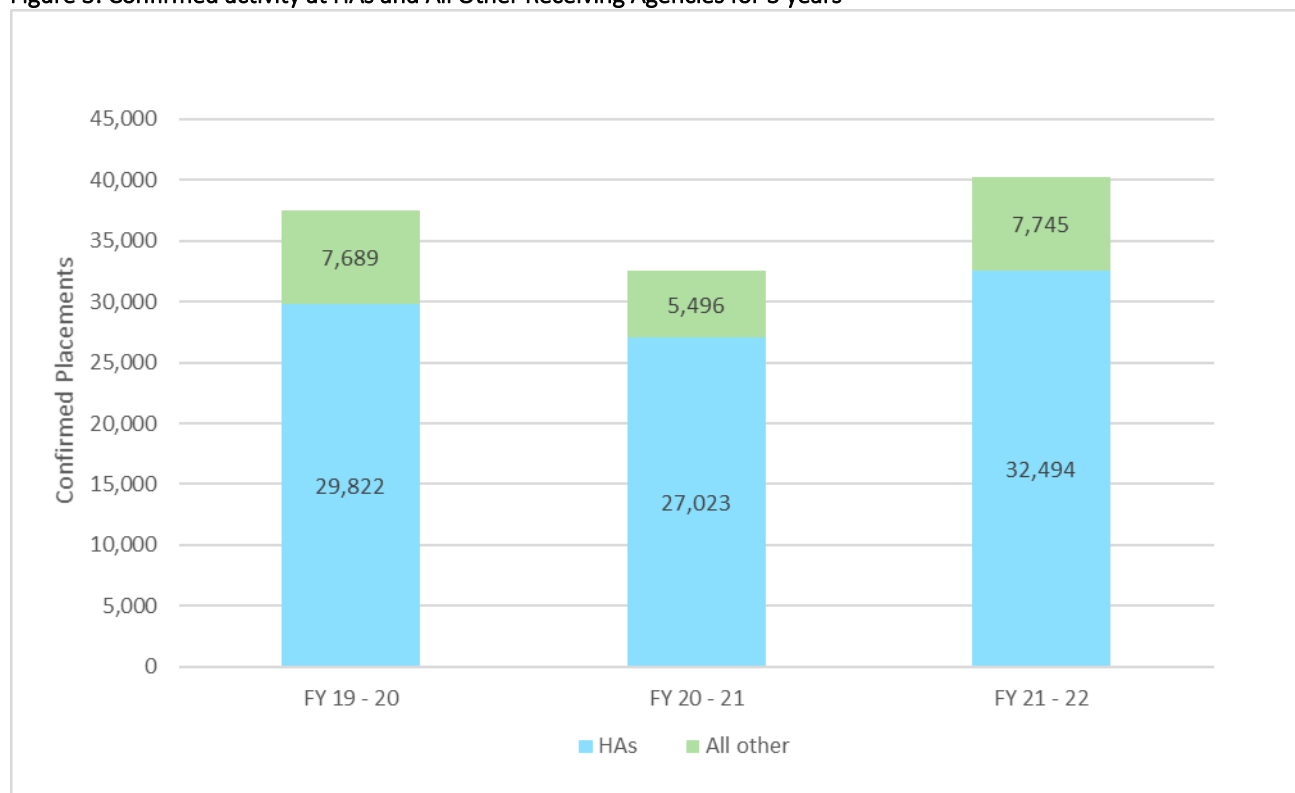
ACTIVITY FROM POST-SECONDARY INSTITUTIONS OUTSIDE BC

The Figure 4 depicts the number of confirmed students on placements at BC health authorities from post-secondary institutions outside of BC over the last three years. This does not include medical learners.

Figure 4: Number of Student Placements by in-BC and Out-of-BC schools by FY – All Disciplines except Medicine
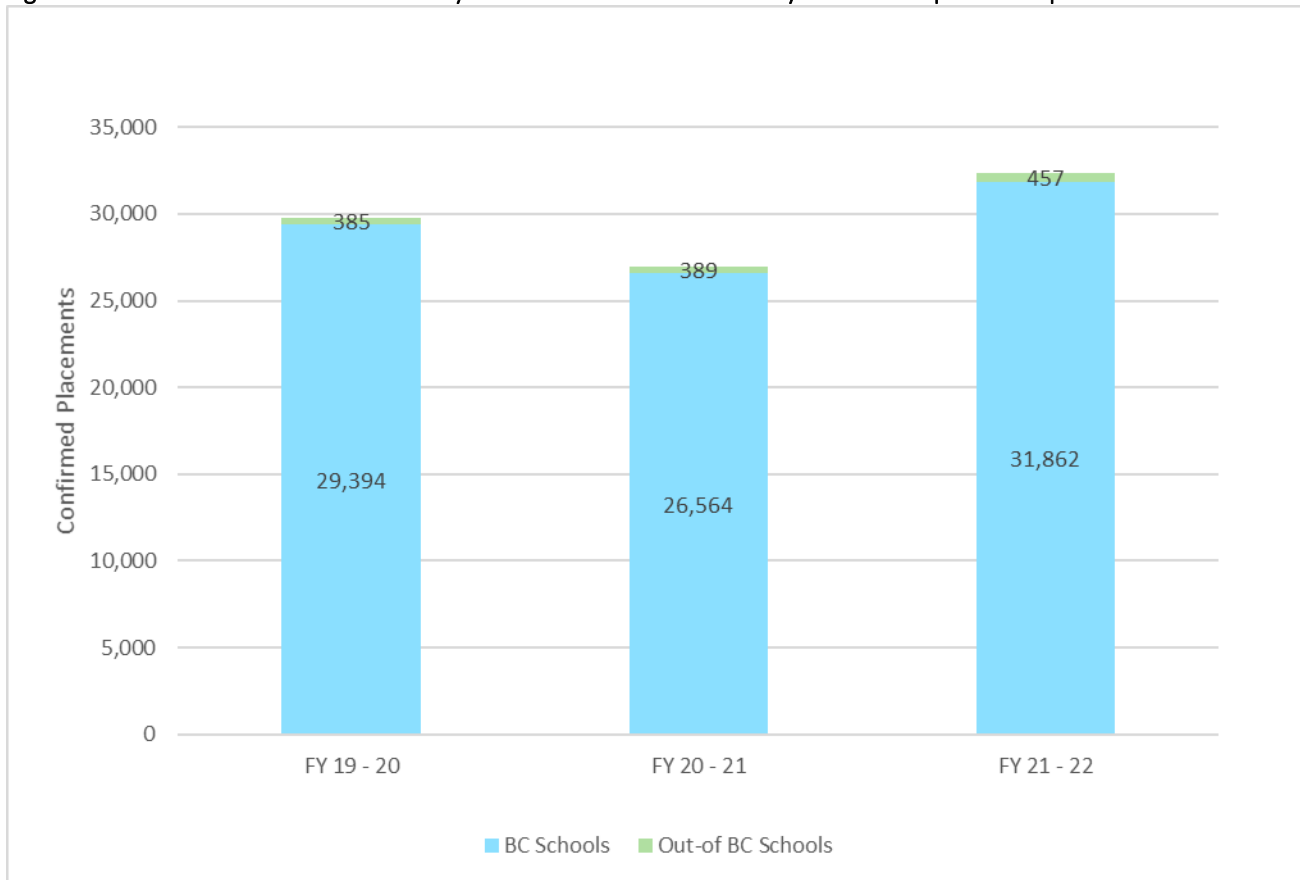
MONITOR PLACEMENT COORDINATION EFFICIENCY BY DISCIPLINE

The following charts provide the request activity for the top 10 disciplines with further breakdown by sub-disciplines at BC health authorities. This indicates the amount of coordination activity required to result in a confirmed placement. As all required student placements are eventually secured, the cancel and decline requests indicate the overall effort. This metric can be monitored to see if improvements to the placement process also improve coordination efficiency. Coordination efficiency data by discipline can be found in Figure 1.
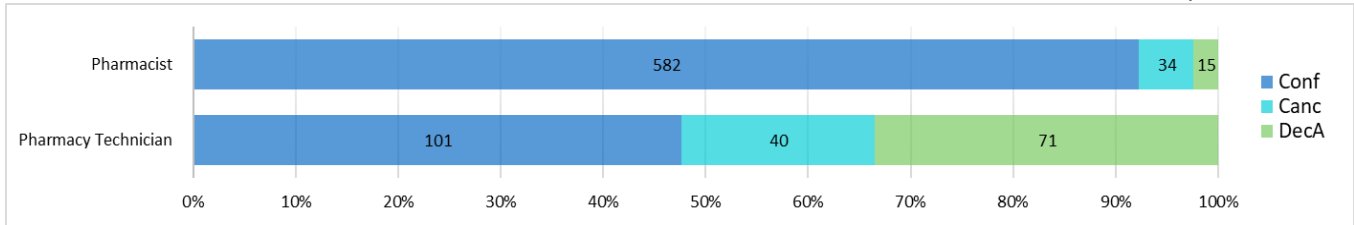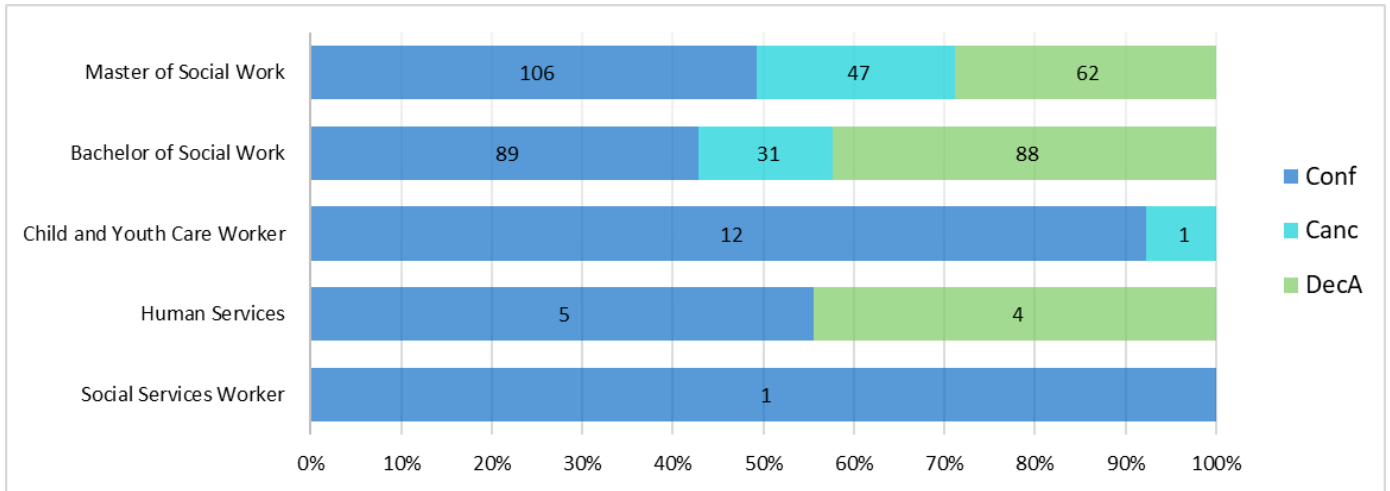
Figure 5: Requests confirmed, declined, or cancelled by Discipline and Sub-discipline FY 2021 – 22: Nursing
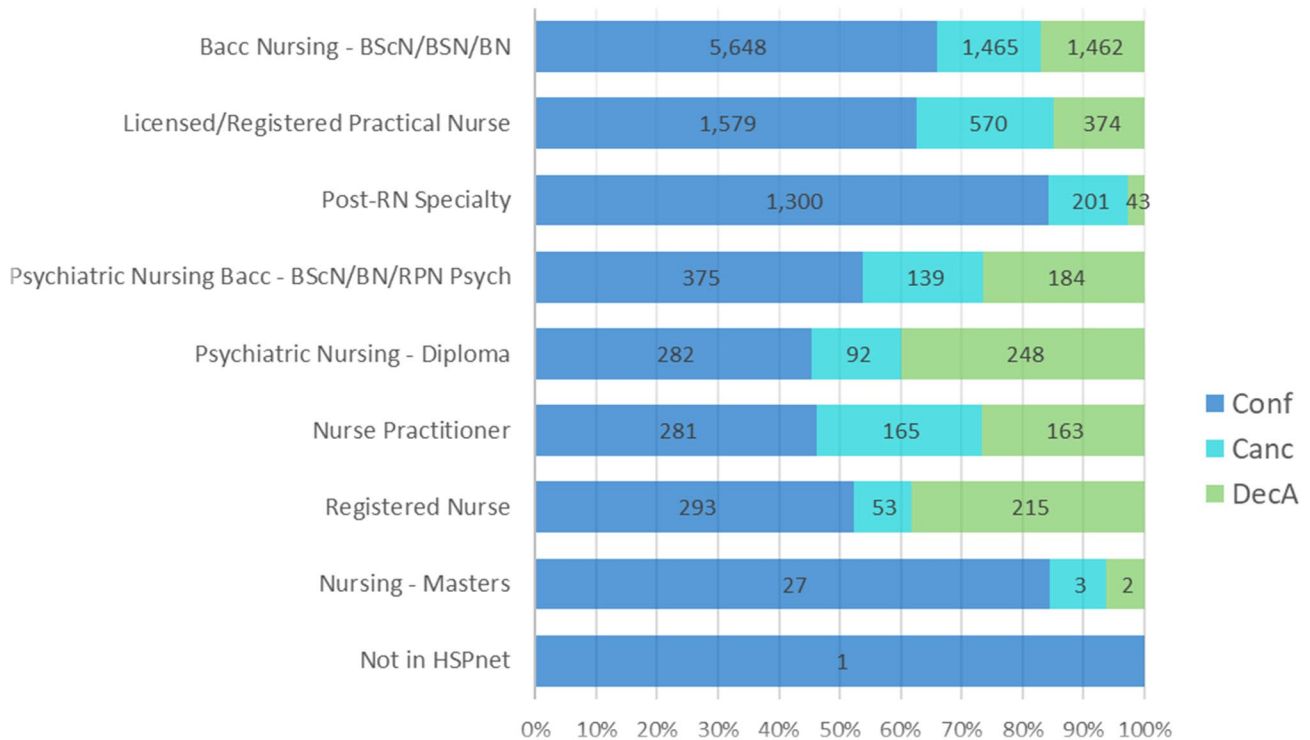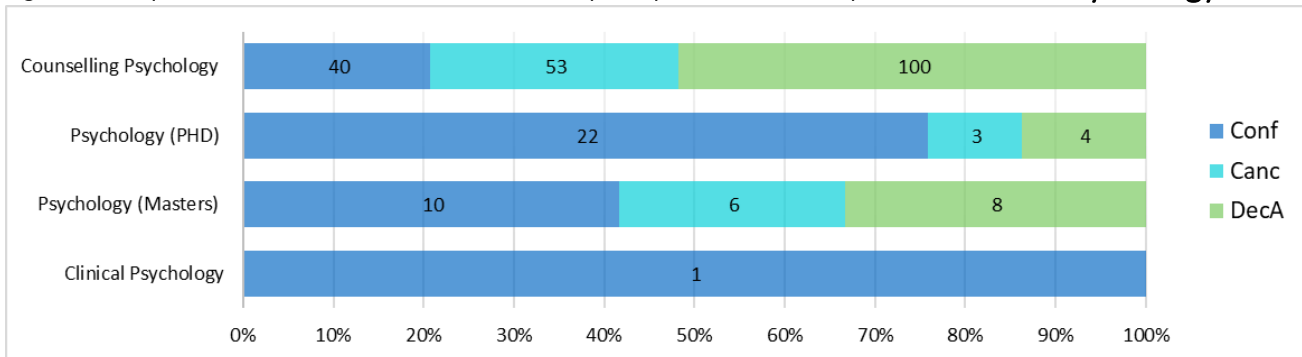
Figure 6: Requests confirmed, declined, or cancelled by Discipline and Sub-discipline FY 2021 – 22: Other Health
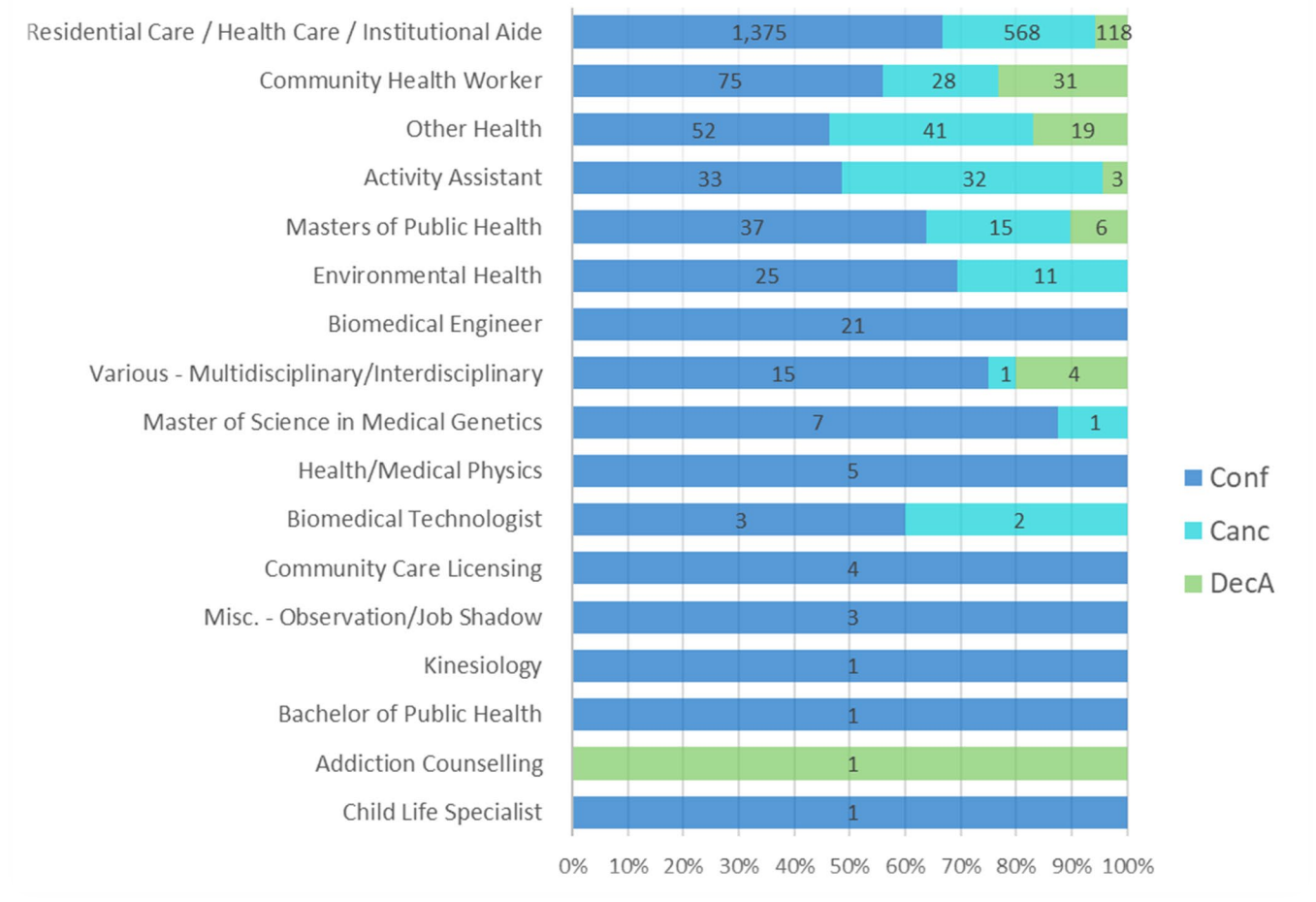
Figure 7: Requests confirmed, declined, or cancelled by Discipline and Sub-discipline FY 2021 – 22:

Technologists/Technicians
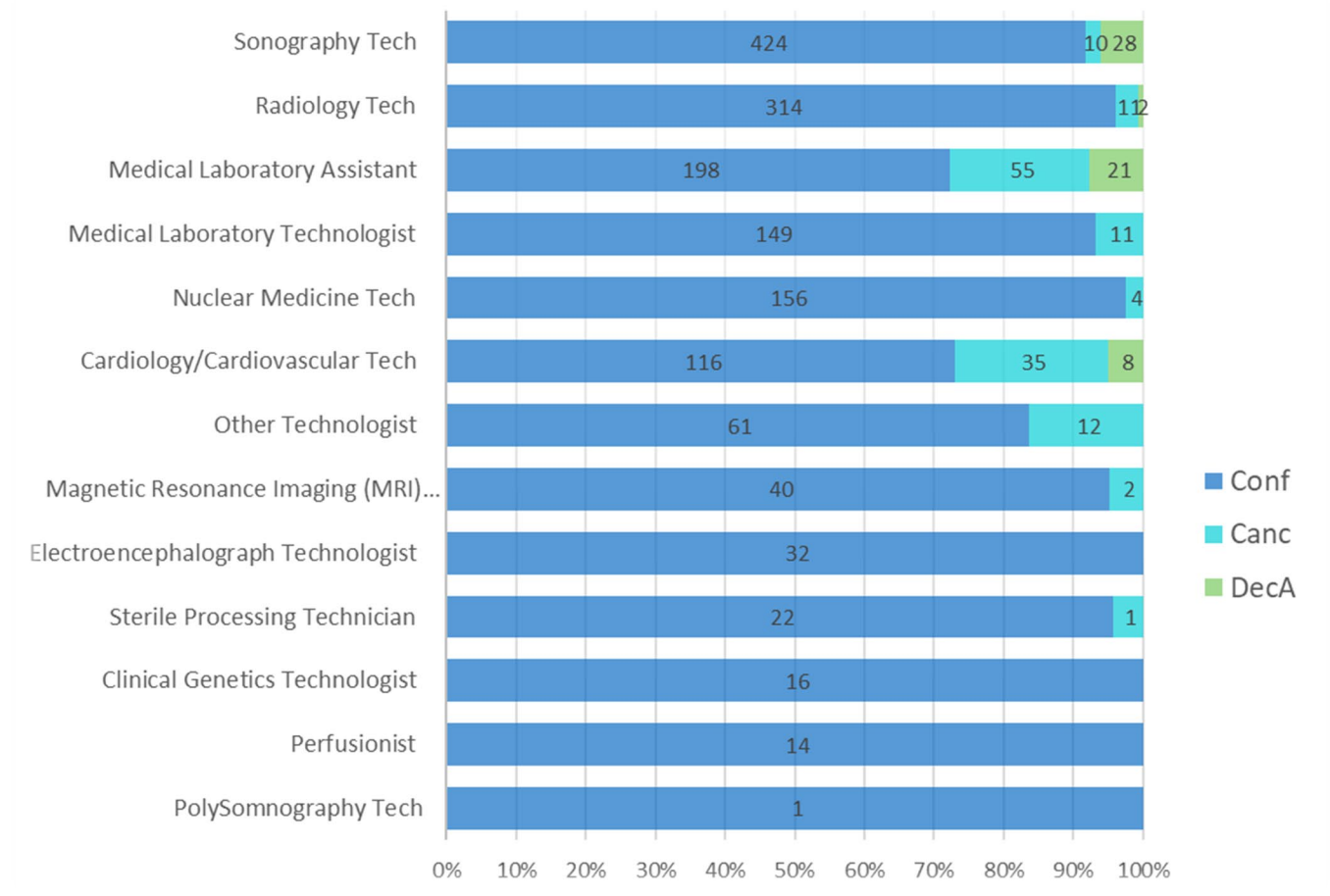
Figure 8: Requests confirmed, declined, or cancelled by Discipline and Sub-discipline FY 2021 – 22: Rehabilitation Sciences
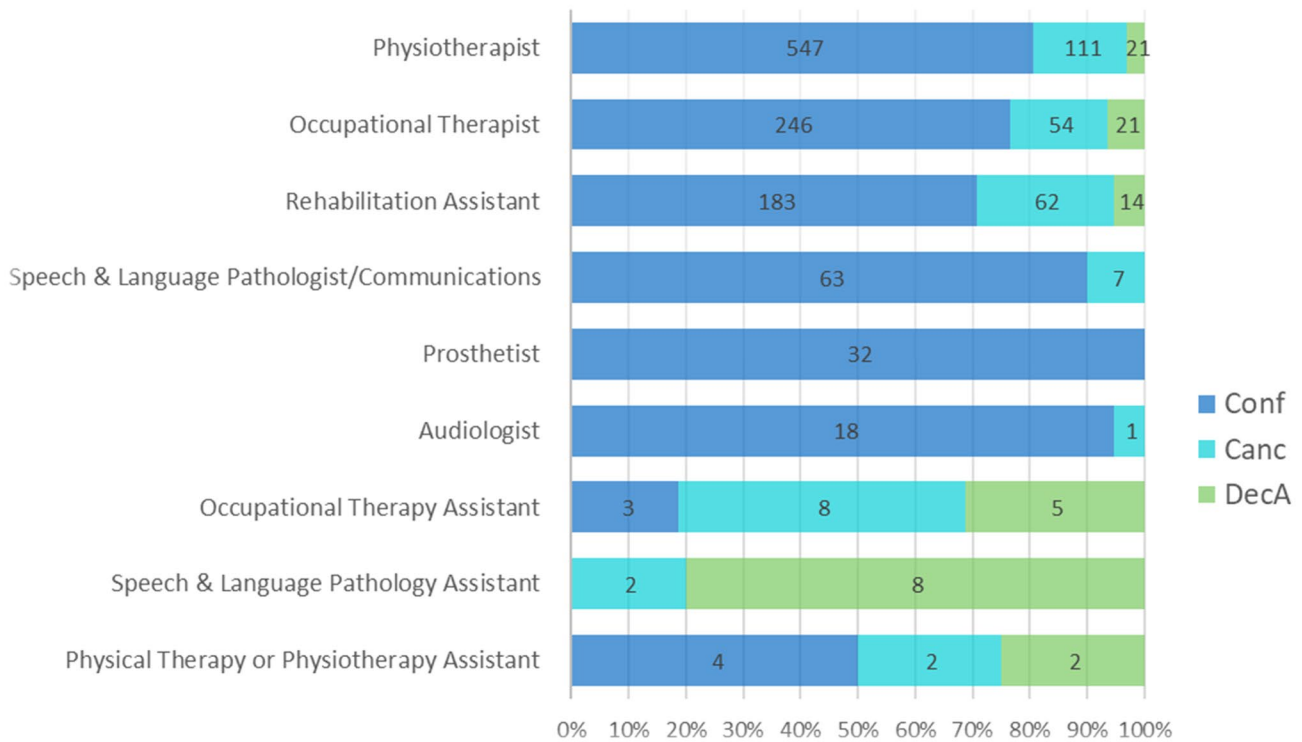
Figure 9: Requests confirmed, declined, or cancelled by Discipline and Sub-discipline FY 2021 – 22: Administration
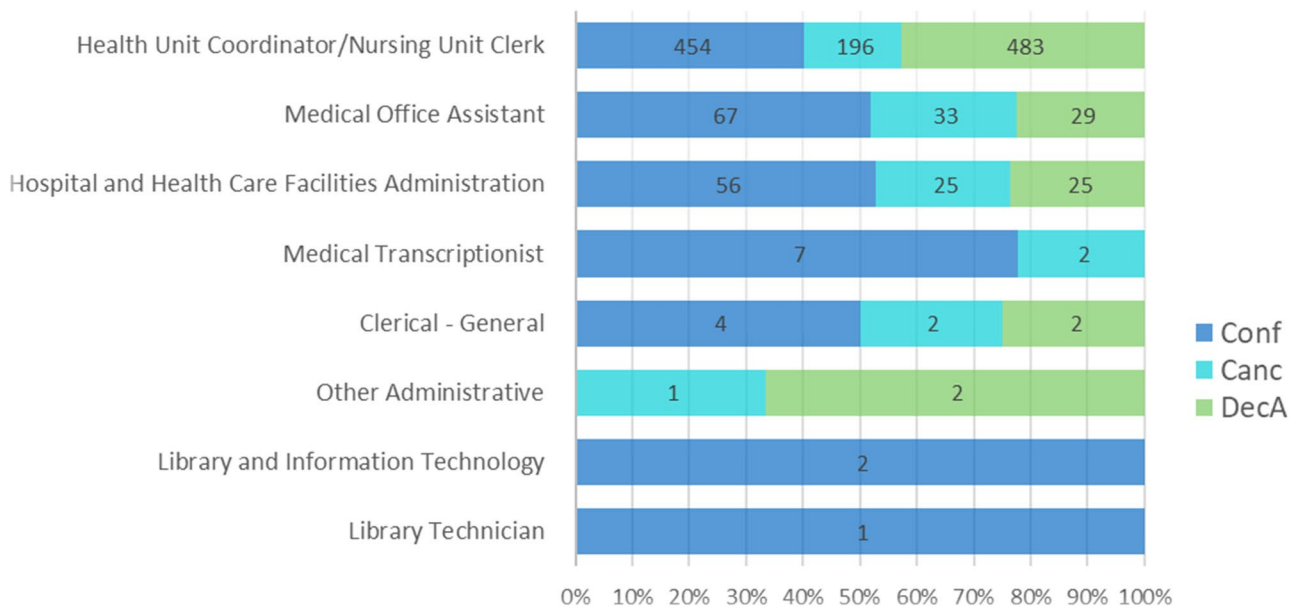
Figure 10: Requests confirmed, declined, or cancelled by Discipline and Sub-discipline FY 2021 – 22: Pharmacy

Figure 11: Requests confirmed, declined, or cancelled by Discipline and Sub-discipline FY 2021 – 22: Social Work

Figure 12: Requests confirmed, declined, or cancelled by Discipline and Sub-discipline FY 2021 – 22: Psychology

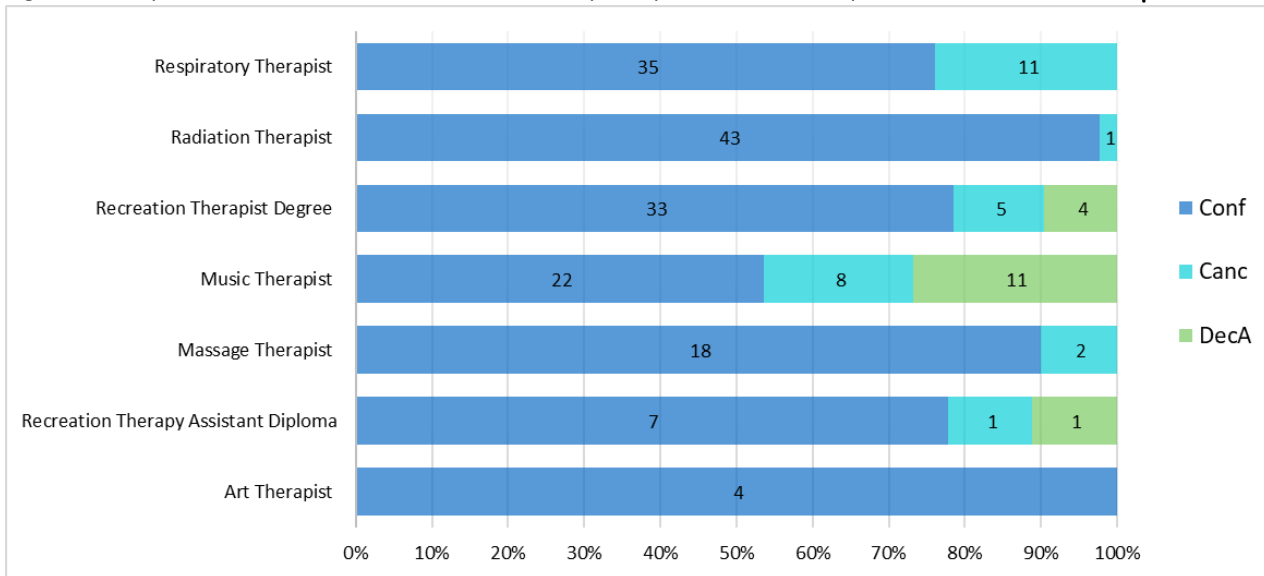Figure 13: Requests confirmed, declined, or cancelled by Discipline and Sub-discipline FY 2021 – 22: **Therapists**
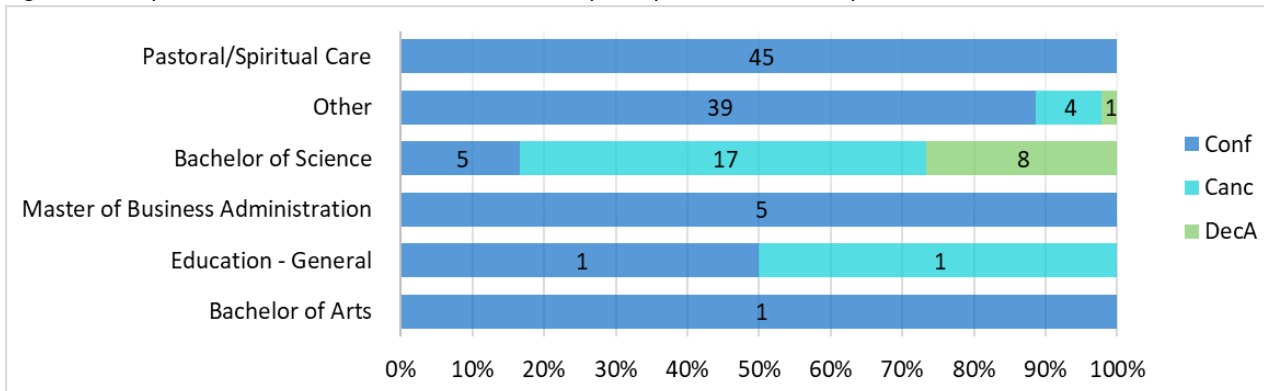

Figure 14: Requests confirmed, declined, or cancelled by Discipline and Sub-discipline FY 2021 – 22: Non-health

The remaining Disciplines have fewer than 100 requests.

ACTIVITY FOR BC EMERGENCY HEALTH SERVICES

Tracking of paramedic student activity at the BC Emergency Health Services for on-car practicums is transitioning to HSPnet. The table below indicates detailed regional information provided through HSPnet for 2021-22. Note that the total for the number of distinct students does not represent the sum of the data by region due to the same student having placements in more than one region. Reporting of paramedic placements in health authorities is under the discipline of Emergency Medical Technology in health authority data.

Table 4: Total # of Student Hours and Students by Region for FY 2021 - 22

Discipline/Sub-discipline/Region	Student Hours	# Students
Paramedic	61,668	439
Primary Care Paramedic - on-car	55,476	403
BCEHS – all regions		
LwrMainld	28,980	256
Interior	12,672	124
VanIsland	11,916	123
Northern	1,908	24
Advanced Care Paramedic - on-car	6,192	36
BCEHS – all regions		
LwrMainld	3,564	27
VanIsland	1,416	15
Interior	1,212	19
Grand Total	61,668	439

ACTIVITY FOR UBC MIDWIFERY PROGRAM

Tracking of midwifery student activity throughout the province is transitioning to HSPnet. The table below indicates the information from Fiscal Year 2021-22 as provided directly from the University of British Columbia's Midwifery Department.

Table 5: Total # of Students and by Program and Heath Authority FY 2021 - 22

Program/Health Authority	Total # of Midwifery Students
Midwifery	59
FHA	20
IHA	10
NHA	3
PHSA	4
VCH	11
VIHA	11
International Bridging program	7
FHA	3
IHA	
NHA	1
PHSA	1
VCH	1
VIHA	1

APPENDIX F: STUDENT PRACTICE EDUCATION DATA WORKING GROUP MEMBERSHIP

This report was developed with the oversight and contribution of the BC Student Practice Education Data Working Group (SPEDWG). The following is the membership for 2022/23:

Ministry

>Alyssa Amit, Senior Policy Analyst, Ministry of Post-Secondary Education and Future Skills
>
>Melody Chilibeck, Senior Policy Analyst, Ministry of Health: Allied Health Policy Secretariat
>
>Peter Rudiak-Gould, Senior Policy Analyst, Ministry of Health: Nursing Policy Secretariat
>
>Brendan King, Senior Policy Analyst, Ministry of Health: Workforce Planning

Health Authority

>Stacey Pickering, Regional Manager, Student Practice Education, Education & Development, Northern Health
>
>Kathy Scarborough, Director, Learning Strategy and Innovations, Fraser Health
>
>Victoria Skryabina, Business Analyst, Student Practice Education, Vancouver Coastal Health
>
>Andrea Taylor, Manager, Professional Practice, Island Health
>
>Chris Olesen, Coordinator, Clinical Student Placement, Interior Health

Post-Secondary Institutions

>Treena Cardiff, Associate Dean, Diagnostics Program, BCIT
>
>Donna Drynan, Associate Head Fieldwork & Clinical Affairs; Dept of OT, Faculty of Medicine, UBC
>
>Lisa Gold, Practice Education Coordinator, College of the Rockies
>
>Patricia O'Hagan, Dean, Faculty of Health and Human Services, Vancouver Island University
>
>Angela Wolff, Associate Professor, School of Nursing, Trinity Western University
>
>Gwen Keeler, Senior Lab Instructor III, Academic Lead Clinical Placements, School of Nursing, UNBC

Secretariat

>Christie Diamond, Corporate Director, Academic Education
>
>Sarah Titcomb, Coordinator, Academic Development
>
>BJ Gdanski, Corporate Director, HSPnet

For questions regarding this Report, please email the Student Practice Education Data Working Group via Studenteducation@phsa.ca.

APPENDIX G: REPORT DEVELOPMENT PROCESS

Below depicts the key activities for developing the Provincial Metrics Report and engaging with stakeholders.
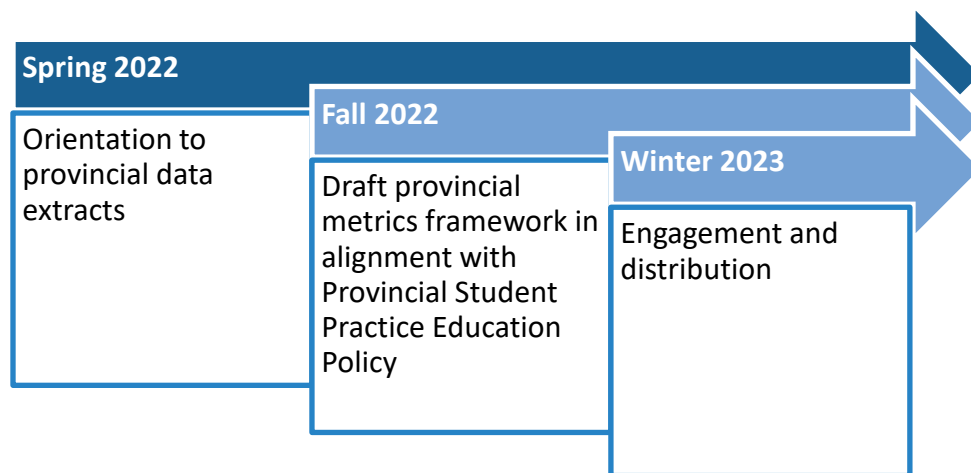
Figure 15: Development of Metrics Report

Spring 2022
Orientation to provincial data extracts

Fall 2022
Draft provincial metrics framework in alignment with Provincial Student Practice Education Policy

Winter 2023
Engagement and distribution

Figure 16: Metrics Engagement

Publish — Virtual Sessions — Feedback

Engagement details

Virtual Sessions:
- Provincial Student Practice Education Coordinating Committee, November 28, 2022
- BC SPE Planning & Coordination sessions, February 23 and March 7, 2023
- Provincial Receiving Coordinators, February 22, 2023

Feedback:
- Checkbox Survey and Zoom polls

Publish:
- Report posted on: https://spe.healthcarebc.ca/Pages/Resources-and-Tools.aspx