

Finance and Resources Committee 7 September 2011

Registration and application numbers model

Executive summary and recommendations

Introduction

HPC maintains an on-going projection of application and registrant numbers, based on historic information, year-end information and parameters such as lapsing and renewal rates, and where available, graduate output from institutions. We have also approached other sources of intelligence – the Higher Education Statistics Agency and the Council for Workforce Intelligence

Decision

The Committee is asked to note HPC's current draft Registration and Application projection in the attached spreadsheet.

(20110819wQUADCBProjected registrant numbers - BPI version- draft 2011-12)

The data has been updated at the end of 2010-11 financial year, to provide a new base line.

Background information

Resource implications

Included in annual departmental work plans.

Financial implications

Included in annual departmental work plans.

Appendices

Date of paper

24th August 2011

Registration Numbers Forecast

Marc Seale, Chief Executive & Registrar
Registration numbers forecast to 2016; to Finance &
Resources Committee September 2011



Updated lapsing and readmin figures

Date: 2011-08-19
Ver: w
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Title: Projected registrant numbers - BPI version- 2011-12

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Key assumptions

- The ongoing 5 year plan will only be subject to major adjustment if there is a major change to external factors.
(Government changes time scale for new profession acquisition, merges regulators etc.)
The baseline can be readjusted when each current year end figures are finalised. (This should be a small amount).
The multipliers eg FTP cases per thousand registrants stay the same, unless new ratios become apparent.
- Education Dept may see a change in ratios employees to programmes.
- Dance movement therapists will no longer be regulated.
- Hearing aid dispensers are regulated on 01/04/2010 with no grandparenting period. **COMPLETED**
Renewal rate improves with full use of On-line renewals, only 5% lapsing every two years. Intermediate lapsing continues at same rate.
With fewer end of cycle lapses, fewer readmissions will occur.
84,000 Social Workers transfer from GSCC on July 1st 2012, after new legislation is passed in March 2011?

Output from UK approved courses

UK graduate numbers go down by as much as 14% in 2 years time (assume 2009-10 programmes continue to end of 3 year course)

4% fall each year in place currently

This will result in a progressive decrease in numbers through the UK route for an as yet undefined period from 2 years forward.

This may be a single, one off downward step rather than an ongoing trend of decreases?

Currently includes 4% drop each year on UK registrations

International route registrations

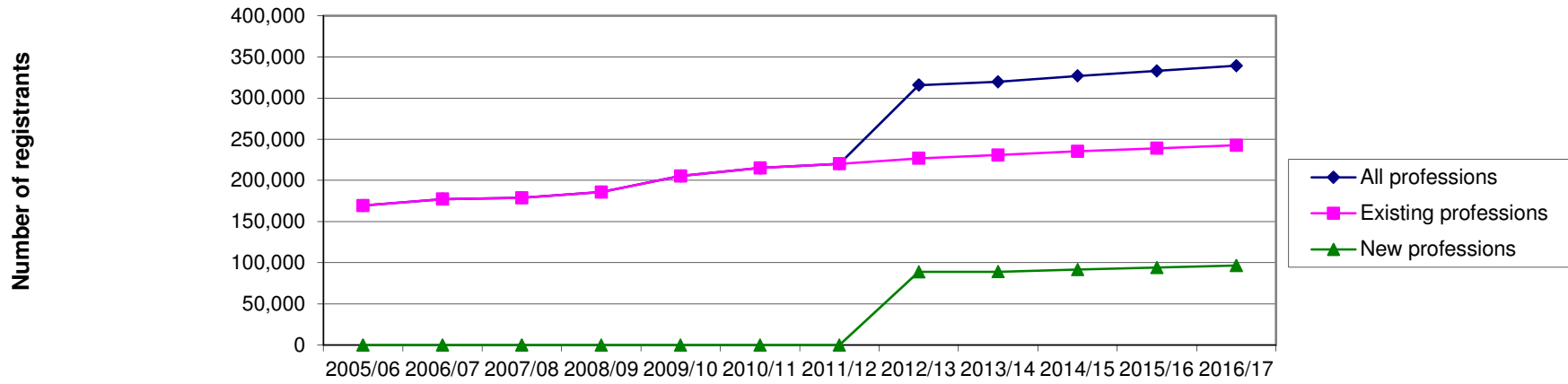
Continuous decrease down to 750, 500, 250 registrations per year over the next few years down to a small ongoing number but not reaching zero.

Circa 150 per year in year 4 onwards?

- * Licensed Herbalists are being added to the model although the exact model of regulation (licensing) is yet to be determined

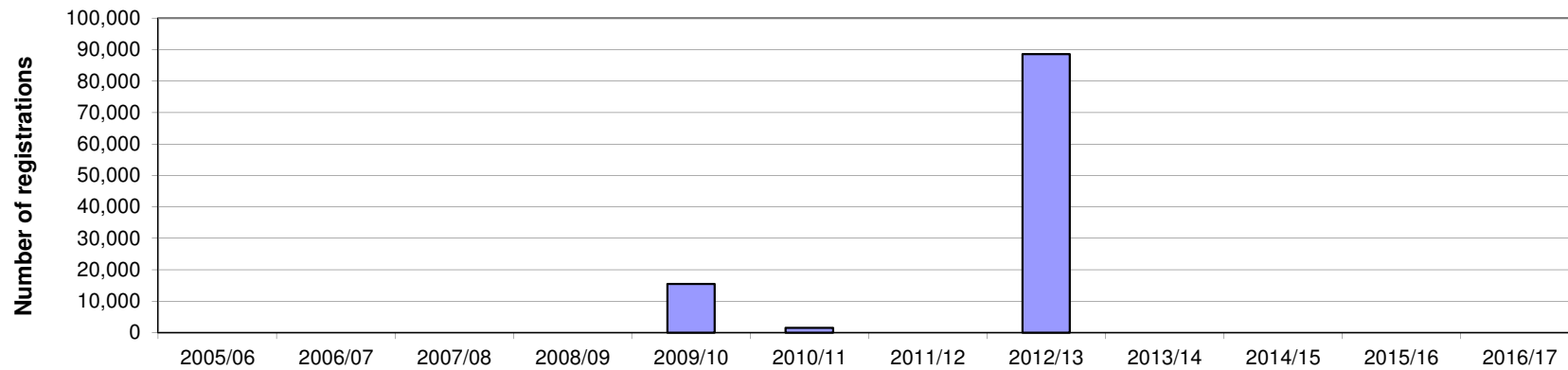
Number of registrants

	Actual 2005/06	Actual 2006/07	Actual 2007/08	Actual 2008/09	Actual 2009/10	Actual 2010/11	Year 0 Forecast 2011/12	Year 1 Forecast 2012/13	Year 2 Forecast 2013/14	Year 3 Forecast 2014/15	Year 4 Forecast 2015/16	Year 5 Forecast 2016/17	
Existing professions	AS	2,309	2,332	2,509	2,576	2,785	2,899	3,103	3,271	3,427	3,548	3,703	3,803
	BS	21,322	22,510	21,560	22,381	21,894	22,627	22,753	23,268	23,467	23,801	23,921	24,189
	CH	12,799	12,657	13,055	12,581	12,897	12,734	12,972	13,092	13,253	13,298	13,429	13,446
	CS	3,999	4,241	4,183	4,405	4,444	4,621	4,702	4,861	4,949	5,063	5,129	5,226
	DT	6,260	6,267	6,663	6,700	7,160	7,322	7,701	7,985	8,251	8,431	8,654	8,794
	HAD	-	-	-	-	-	1,587	1,676	1,712	1,800	1,837	1,955	2,061
	OT	26,855	28,756	28,107	30,122	30,351	32,126	32,817	34,031	34,713	35,570	36,088	36,811
	ODP	8,538	8,801	9,458	9,587	10,085	10,313	10,773	11,122	11,469	11,705	12,005	12,194
	OR	1,234	1,291	1,239	1,278	1,260	1,303	1,308	1,337	1,350	1,372	1,381	1,398
	PA	12,343	13,183	13,703	15,019	15,766	16,782	17,352	18,202	18,752	19,394	19,846	20,404
	PH	40,005	40,587	42,490	42,676	44,651	45,002	46,568	47,603	48,636	49,196	50,034	50,418
	PO	816	855	832	877	869	901	907	929	939	955	962	975
	PYL	-	-	-	-	15,583	17,165	17,126	17,544	17,165	17,560	17,800	18,087
	RA	22,164	24,278	23,541	25,318	25,195	26,615	27,005	27,840	28,265	28,841	29,149	29,629
	SL	10,725	11,472	11,375	12,169	12,371	13,086	13,415	13,954	14,268	14,652	14,894	15,219
Total	169,369	177,230	178,715	185,689	205,311	215,083	220,179	226,751	230,703	235,222	238,949	242,652	
SocWok								84,250	84,550	86,950	89,350	91,750	
Licensed Herbalists								4,610	4,509	4,644	4,679	4,805	
Total New							0	88,860	89,059	91,594	94,029	96,555	
Grand total	169,369	177,230	178,715	185,689	205,311	215,083	220,179	315,611	319,762	326,815	332,978	339,207	



New professions - transfer of voluntary register

	Actual 2005/06	Actual 2006/07	Actual 2007/08	Actual 2008/09	Actual 2009/10	Actual 2010/11	Year 0 Forecast 2011/12	Year 1 Forecast 2012/13	Year 2 Forecast 2013/14	Year 3 Forecast 2014/15	Year 4 Forecast 2015/16	Year 5 Forecast 2016/17	
HAD	-	-	-	-	-	1,573	-	-	-	-	-	-	Completed
PYL	-	-	-	-	15,552	-	-	-	-	-	-	-	Completed
SW							-	84,000	-	-	-	-	
Licensed Herbalists								4,500	0	0	0	0	
Total	0	0	0	0	15,552	1,573	0	88,500	0	0	0	0	



Key assumptions

- 15,553 applied psychologists on the Register since it opened 1 July 2009 (September 2009 figures)
- 1,564 hearing aid dispensers transfer from the Hearing Aid Council (Source: Hearing Aid Council).
- 4,500 Practitioners of herbal medicine, traditional chinese medicine and other traditional medicine systems from voluntary registers (estimate) by April 2013 HPC latest. May start end 2012.
- 84,000 Social Workers transfer to HPC registration from GSCC July 1st 2012 (renewal cycle may start soon after)

Completed

Completed

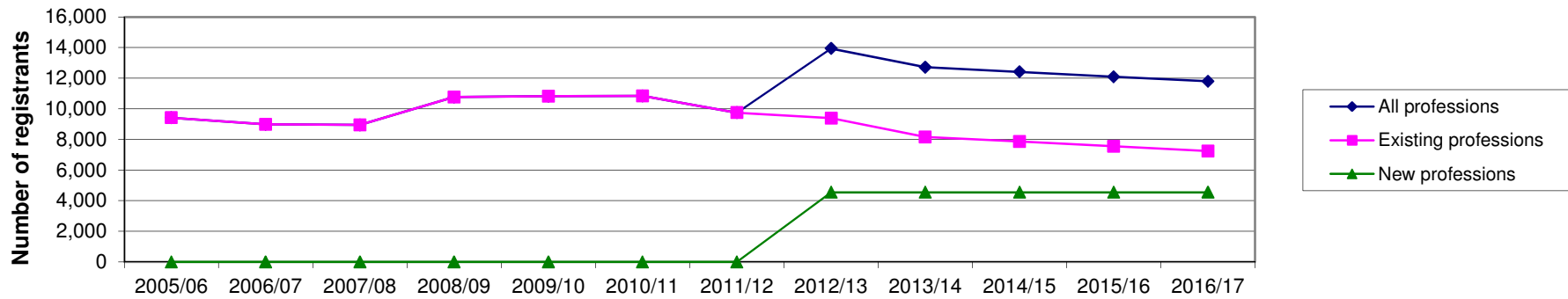
To be in Licenced regulation

Postponed to July 2012

New registrations - UK route

4%drop 4%drop 14% drop 4%drop 4%drop 4%drop

	Actual 2005/06	Actual 2006/07	Actual 2007/08	Actual 2008/09	Actual 2009/10	Actual 2010/11	Year 0 Forecast 2011/12	Year 1 Forecast 2012/13	Year 2 Forecast 2013/14	Year 3 Forecast 2014/15	Year 4 Forecast 2015/16	Year 5 Forecast 2016/17
Existing professions												
AS	213	211	169	215	208	248	238	229	197	189	181	174
BS	905	752	677	770	765	800	768	737	634	609	584	561
CH	382	352	403	430	388	406	390	374	322	309	297	285
CS	151	157	167	275	235	228	219	210	181	173	167	160
DT	358	355	364	434	428	442	424	407	350	336	323	310
HAD	-	-	-	-	-	73	140	140	140	140	134	129
OT	1,574	1,513	1,557	1,867	1,724	1,660	1,594	1,530	1,316	1,263	1,213	1,164
ODP	695	715	580	604	498	611	587	563	484	465	446	428
OR	32	45	44	53	45	49	47	45	39	37	36	34
PA	1,233	841	901	1,505	1,127	1,148	1,102	1,058	910	873	839	805
PH	2,086	2,266	2,282	2,446	2,170	1,947	1,869	1,794	1,543	1,481	1,422	1,365
PO	41	36	34	48	35	36	35	33	29	27	26	25
PYL	-	-	-	-	1,225	1,274	500	500	500	500	480	461
RA	995	1,093	1,110	1,316	1,221	1,193	1,145	1,099	946	908	871	837
SL	754	647	658	807	757	723	694	666	573	550	528	507
Total	9,419	8,983	8,946	10,770	10,826	10,838	9,751	9,387	8,162	7,861	7,547	7,245
SocWok							-	4,450	4,450	4,450	4,450	4,450
Licensed Herbalists								100	100	100	100	100
Total New	0	0	0	0	0	0	0	4,550	4,550	4,550	4,550	4,550
Grand total	9,419	8,983	8,946	10,770	10,826	10,838	9,751	13,937	12,712	12,411	12,097	11,795



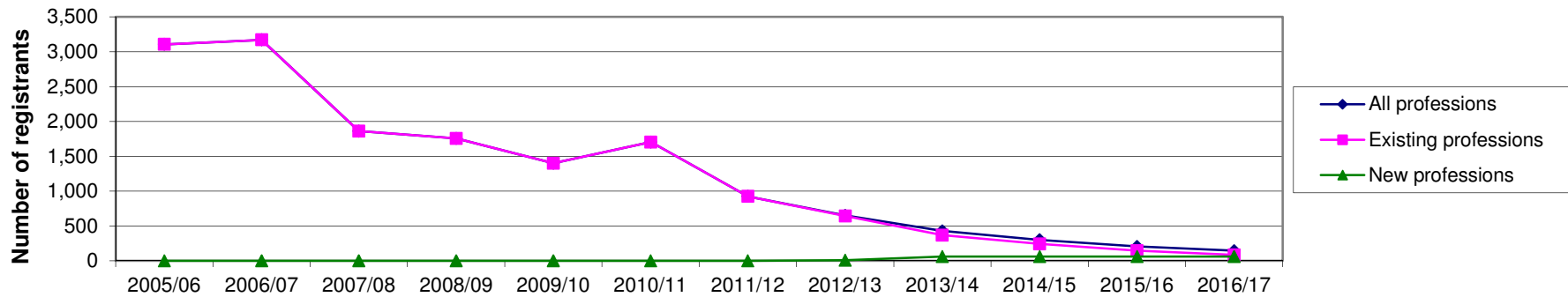
Key assumptions

- Assumptions (excluding newly regulated professions) 2010/11 to 2014/15: 4% fall p/a.
-
- 140 hearing aid dispensers registered per year (Source: Hearing Aid Council).
- Figures for all other new professions are estimated.
- Assume 4450 new grads based on GSCC stats and current register size of 84k

Herbal Medicine License, estimate up to 100 new per year initially under licensing model but currently no control? Leave as zero in model

New registrations - International route

	Actual 2005/06	Actual 2006/07	Actual 2007/08	Actual 2008/09	Actual 2009/10	Actual 2010/11	Year 0 Forecast 2011/12	Year 1 Forecast 2012/13	Year 2 Forecast 2013/14	Year 3 Forecast 2014/15	Year 4 Forecast 2015/16	Year 5 Forecast 2016/17	
Existing professions	AS	3	6	8	6	4	15	2	1	1	0	0	
	BS	417	439	231	236	170	202	94	62	31	19	11	
	CH	25	37	39	27	14	18	8	5	3	2	1	
	CS	26	35	30	28	22	25	12	8	4	2	1	
	DT	93	138	94	97	84	88	46	30	15	9	5	
	HAD	-	-	-	-	-	5	10	10	10	10	6	4
	OT	615	509	302	283	258	289	142	94	47	28	17	10
	ODP	6	7	5	2	4	3	2	2	1	1	0	0
	OR	3	3	4	3	1	1	1	0	1	1	1	0
	PA	6	16	14	22	24	25	13	9	4	3	2	1
	PH	1,193	985	567	608	472	501	260	171	86	51	31	19
	PO	6	4	6	3	1	6	1	0	0	0	0	0
	PYL	-	-	-	-	37	127	165	138	110	83	50	30
	RA	496	820	428	336	200	270	110	73	36	22	13	8
SL	218	173	134	105	110	130	61	40	20	12	7	4	
Total	3,107	3,172	1,862	1,756	1,401	1,705	925	643	369	242	145	87	
SocWok								0	50	50	50	50	
Licensed Herbalists								10	10	10	10	10	
Total New	0	0	0	0	0	0	0	10	60	60	60	60	
Grand total	3,107	3,172	1,862	1,756	1,401	1,705	925	653	429	302	205	147	

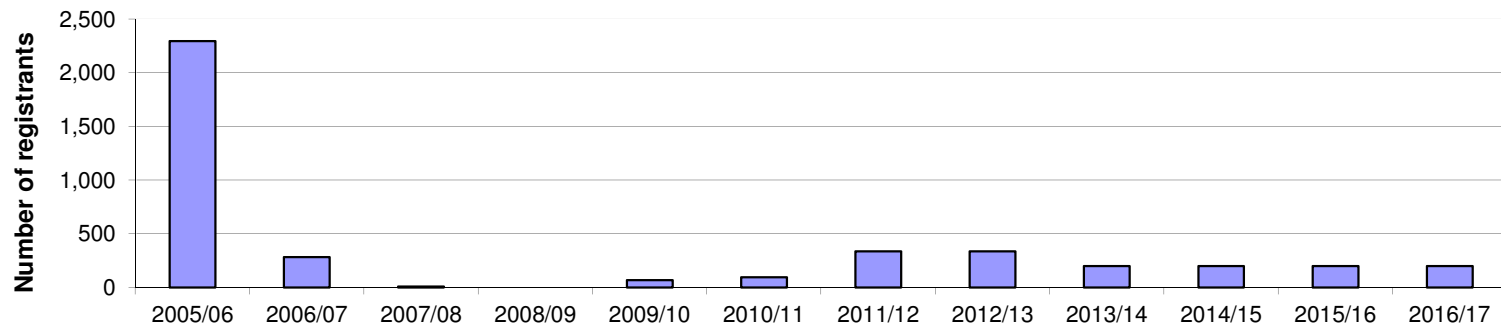


Key assumptions

- Existing professions: estimate 750 Year 2, 500 Year 3, 250 year 4, and 150 thereafter (international registrations from 2011/12 to 2014/15).
- 10 international registrations per year for hearing aid dispensers (Source: Hearing Aid Council).
- Figures for psychologists is an average figure based on information from the BPS and a 90% success rate for applications.
- Figures for other new professions are estimated.
- SocWok assume initially low take up due to poor employment opps initially - 50 per year
- License model for Herbal & Chinese medicine practitioners, perhaps 10 per year initially

New registrations - Grandparenting route

	Actual 2005/06	Actual 2006/07	Actual 2007/08	Actual 2008/09	Actual 2009/10	Actual 2010/11	Year 0 Forecast 2011/12	Year 1 Forecast 2012/13	Year 2 Forecast 2013/14	Year 3 Forecast 2014/15	Year 4 Forecast 2015/16	Year 5 Forecast 2016/17
Existing professions	AS	35	5	-	-	-	-	-	-	-	-	-
	BS	148	18	2	-	-	-	-	-	-	-	-
	CH	1,476	111	1	-	-	-	-	-	-	-	-
	CS	318	78	2	-	-	-	-	-	-	-	-
	DT	1	0	-	-	-	-	-	-	-	-	-
	HAD	-	-	-	-	-	-	-	-	-	-	-
	OT	3	0	-	-	-	-	-	-	-	-	-
	ODP	10	18	-	-	-	-	-	-	-	-	-
	OR	0	0	-	-	-	-	-	-	-	-	-
	PA	115	20	2	-	-	-	-	-	-	-	-
	PH	178	33	2	-	-	-	-	-	-	-	-
	PO	1	0	-	-	-	-	-	-	-	-	-
	PYL	-	-	-	-	69	96	337	338	-	-	-
	RA	1	0	-	-	-	-	-	-	-	-	-
SL	9	0	-	-	-	-	-	-	-	-	-	
Total	2,295	283	9	0	69	96	337	338	0	0	0	0
SocWok							0	0	-	-	-	
Licensed Herbalists								0	200	200	200	200
Total New	0	0	0	0	0	0	0	0	200	200	200	200
Grand total	2,295	283	9	0	69	96	337	338	200	200	200	200



Grandparenting key assumptions

Psychologists

- 3 year grandparenting period.
- 1,500 applications during grandparenting.
- 90% success rate (1350 successful applications).
- 50% of successful applications received in the first two years and evenly distributed.
- 50% of successful applications received in the last year - half of successful applicants registered in that year, half in the following financial year.
- These figures are estimated.

Hearing aid dispensers

- The Hearing Aid Council is already a statutory regulator. Therefore, there will not be a grandparenting period.

Social Workers

Profession already regulated - therefore no grandparenting

Licences Herbalists (& Chinese Medicine)

- Unknown if grandparenting is required in licensing model

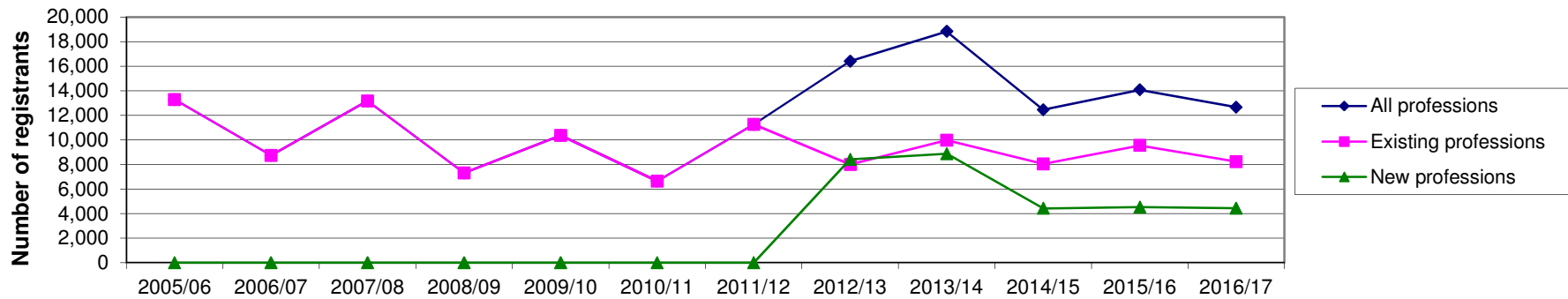
**Perhaps 200 existing Herbalists per year coming on that see being vol registered as a business advantage/ selling point.
Assume some type of existing practitioner vetting process will be applied, broadly similar in principle to GP??**

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Lapsed

	Actual 2005/06	Actual 2006/07	Actual 2007/08	Actual 2008/09	Actual 2009/10	Actual 2010/11	Year 0 Forecast 2011/12	Year 1 Forecast 2012/13	Year 2 Forecast 2013/14	Year 3 Forecast 2014/15	Year 4 Forecast 2015/16	Year 5 Forecast 2016/17
AS	27	311	52	151	39	209	72	155	82	171	71	185
BS	2,367	250	2,457	577	1,612	404	1,471	569	1,163	587	1,190	598
CH	109	1,172	153	821	174	800	318	649	327	663	332	671
CS	359	42	407	98	235	80	300	118	243	124	253	128
DT	46	694	68	401	92	445	183	385	200	413	211	433
HAD	-	-	-	-	-	67	82	172	88	184	46	98
OT	3,531	346	3,246	744	2,232	431	2,088	820	1,702	868	1,778	902
ODP	106	1,148	97	553	138	645	258	539	278	573	293	600
OR	192	13	146	32	87	16	85	33	67	34	69	35
PA	1,797	77	1,084	338	572	214	1,091	434	910	469	970	496
PH	1,018	4,249	1,158	2,637	958	2,686	1,125	2,328	1,190	2,432	1,230	2,502
PO	110	9	112	22	50	14	59	23	46	23	48	24
PYL	-	-	-	-	1,541	87	1,542	769	1,578	429	878	445
RA	2,386	262	3,044	642	1,852	339	1,730	675	1,392	707	1,442	729
SL	1,234	158	1,133	296	771	207	851	335	698	357	733	372
Total	13,282	8,731	13,157	7,312	10,353	6,644	11,254	8,003	9,963	8,032	9,543	8,218
SocWok								8,400	8,400	4,200	4,200	4,200
Licensed Herbalists								0	461	225	325	234
Total New	0	0	0	0	0	0	0	8,400	8,861	4,425	4,525	4,434
Grand total	13,282	8,731	13,157	7,312	10,353	6,644	11,254	16,403	18,824	12,458	14,068	12,652

Assume PYL profession follows usual lapsing pattern after Year 3
 Assume SocWok profession follows usual lapsing pattern after Year 3
 Assume Licensed Herbalists initially higher lapsing rate



Key assumptions

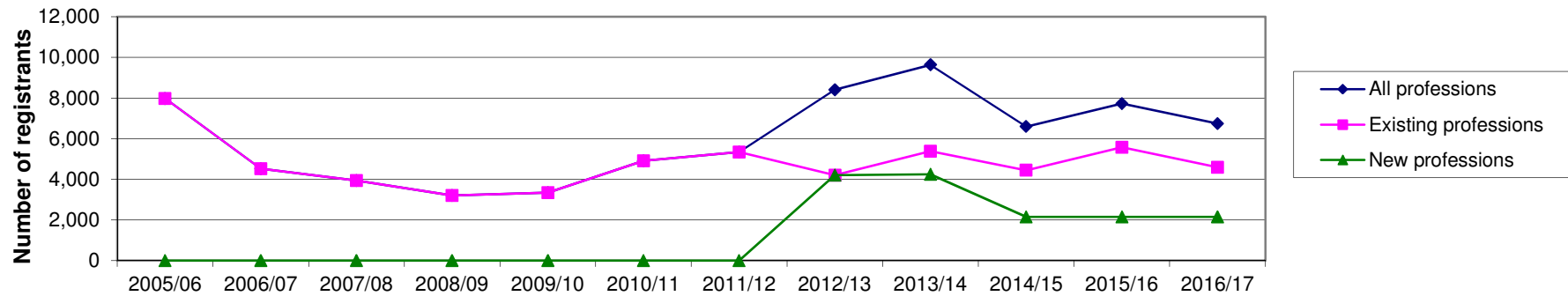
- Renewal years are shown in grey.
- Lapsed figures include voluntary removal, deceased registrants and struck-off registrants.
- 1.5% of professions lapse in years where they are not in renewal; 3.81% of professions lapse in years where they are in renewal.
- 5% of new professions lapse in years where they are not in renewal; 10% of new professions lapse in years where they are in renewal.
- Lapsing figures include 1% to account for retiring registrants and CPD audit triggered lapsing.
- Estimate used for the first year for new professions and then calculated in line with formula above.
- Lapsing includes failure to renew; voluntary removal; removals via the FTP process; and deceased registrants.
- No change in numbers lapsing owing to the introduction of online renewal in this period.
- Initially 10% lapsing in first cycle year SocWok
- Herbal & Chinese Medicine - Assume initial higher percentage lapsing due to no history of statutory requirement for registration/licensing

Readmissions

Lwr post cycle readmissions

	Actual 2005/06	Actual 2006/07	Actual 2007/08	Actual 2008/09	Actual 2009/10	Actual 2010/11	Year 0 Forecast 2011/12	Year 1 Forecast 2012/13	Year 2 Forecast 2013/14	Year 3 Forecast 2014/15	Year 4 Forecast 2015/16	Year 5 Forecast 2016/17	
Existing professions	AS	115	123	58	70	21	193	36	93	41	103	44	111
	BS	1,091	259	585	231	434	45	735	284	698	293	714	299
	CH	389	546	148	379	97	791	159	389	164	398	166	403
	CS	141	29	126	39	85	3	150	59	146	62	152	64
	DT	133	225	97	185	50	452	92	231	100	248	105	260
	HAD	-	-	-	-	-	72	20	59	25	71	23	71
	OT	1,823	286	696	298	597	73	1,044	410	1,021	434	1,067	451
	ODP	343	672	156	255	77	593	129	323	139	344	146	360
	OR	117	22	48	13	25	1	42	16	40	17	41	17
	PA	1,473	69	608	135	296	58	545	217	546	234	582	248
	PH	908	1,639	585	1,217	339	2,514	563	1,397	595	1,459	615	1,501
	PO	59	11	48	9	17	1	29	11	28	12	29	12
	PYL	-	-	-	-	560	44	501	212	589	241	589	241
	RA	728	529	568	257	501	57	865	338	835	353	865	364
SL	653	108	219	119	241	12	425	168	419	178	440	186	
Total	7,973	4,518	3,942	3,207	3,339	4,909	5,337	4,207	5,385	4,447	5,578	4,589	
SocWok							0	4,200	4,200	2,100	2,100	2,100	
Licensed Herbalists									50	50	50	50	
Total	0	0	0	0	0	0	0	4,200	4,250	2,150	2,150	2,150	
Grand total	7,973	4,518	3,942	3,207	3,339	4,909	5,337	8,407	9,635	6,597	7,728	6,739	

1.25% of active registrants readmit after lapsing 2011-12 cycle to reflect lower lapsing rate?

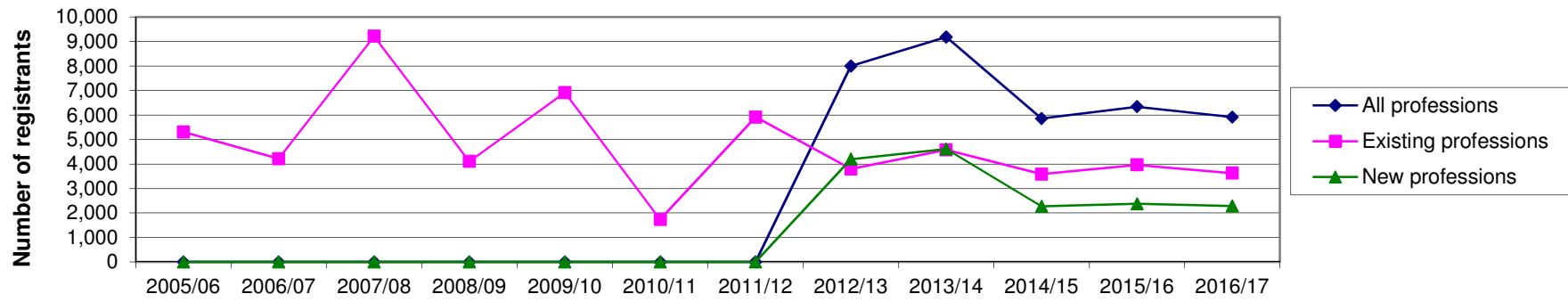


Key assumptions

- Renewal years are shown in grey.
- 0.75% of professions readmit in years where they are not in renewal; 1.9% of professions readmit in years where they are in renewal. This is based on previous data that indicates that 50% of those who lapse do not readmit.
- 0.25% added to readmissions figures to account for CPD audit triggered readmission.
- Estimate used for first year for new professions and then calculated using formula above.
- Exact timing of HCSi onboarding and lapses influences readmission levels possible in FY2012/13
- Assume 50% of lapsed SocWok rejoin register initially
- This model does not include those Returning to Practice

Lapsed registrants less readmissions

	Actual 2005/06	Actual 2006/07	Actual 2007/08	Actual 2008/09	Actual 2009/10	Actual 2010/11	Year 0 Forecast 2011/12	Year 1 Forecast 2012/13	Year 2 Forecast 2013/14	Year 3 Forecast 2014/15	Year 4 Forecast 2015/16	Year 5 Forecast 2016/17	
Existing professions	AS	-88	188	-6	81	18	16	36	62	41	69	27	74
	BS	1,276	-9	1,872	346	1,178	359	735	284	465	293	476	299
	CH	-280	626	5	442	77	9	159	259	164	265	166	269
	CS	218	13	281	59	150	77	150	59	97	62	101	64
	DT	-87	469	-29	216	42	-7	92	154	100	165	105	173
	HAD	-	-	-	-	-	-5	61	113	63	113	23	27
	OT	1,708	60	2,550	446	1,635	358	1,044	410	681	434	711	451
	ODP	-237	476	-59	298	61	52	129	215	139	229	146	240
	OR	75	-9	98	19	62	15	42	16	27	17	27	17
	PA	324	8	476	203	276	156	545	217	364	234	388	248
	PH	110	2,610	573	1,420	619	172	563	931	595	973	615	1,001
	PO	51	-2	64	13	33	13	29	11	19	12	19	12
	PYL	-	-	-	-	881	43	1,041	557	989	188	289	204
	RA	1,658	-267	2,476	385	1,351	282	865	338	557	353	577	364
	SL	581	50	914	177	530	195	425	168	279	178	293	186
Total	5,309	4,213	9,215	4,105	6,914	1,735	5,917	3,796	4,579	3,585	3,965	3,629	
SocWok								4,200	4,200	2,100	2,100	2,100	
Licensed Herbalists									411	175	275	184	
Total								4,200	4,611	2,275	2,375	2,284	
Grand total								7,996	9,190	5,860	6,340	5,913	



Key assumptions

- Registrants who retire, emigrate, deceased registrants and others.

Key

AS	Arts therapists
BS	Biomedical scientists
CAM	Practitioners of acupuncture, herbal medicine, traditional chinese medicine and other traditional medicine systems
CH	Chiropodists and podiatrists
CPSY	Counsellors and psychotherapists
CS	Clinical scientists
DM	Dance movement therapists
DT	Dietitian
HAD	Hearing aid dispensers
HCSci	Healthcare scientists
OT	Occupational therapists
ODP	Operating department practitioners
OR	Orthoptists
PA	Paramedics
PH	Physiotherapists
PO	Prosthetists and orthotists
PYL	Psychologists
RA	Radiographers
SL	Speech and language therapists
SocWok	Social Workers (temporary tag for project)
ADMP	Association for Dance Movement Psychotherapy
BPS	British Psychological Society
HESA	Higher Education Statistics Authority
CFWI	Council for Workforce Information

2010/11 figures

	Number of students expected to complete in each profession this year	Percentage of programme data these student numbers are
AS	237	59%
BS	962	44%
CH	392	63%
CS	240	100%
DT	504	61%
HAD	0	0%
OT	2,112	62%
ODP	1,010	69%
OR	40	50%
PA	979	44%
PH	2,039	70%
PO	65	100%
PYL	0	0%
RA	1,554	85%
SL	705	59%
Total	10,839	

402
2186
622
240
826
0
3406
1464
80
2225
2913
65
0
1828
1195
17453

351
1913
544
210
723
0
2981
1281
70
1947
2549
57
0
1600
1046
15271

Assumptions

The data does not take into account changes made to programmes' approval status from the 09-10 or 10-11 academic year

The data collection and analysis is not sophisticated enough to account for programmes that do not have a graduating cohort each year.

The data collection does not allow for future increases/decreases or programme creations/closures

58% (average) of programmes have supplied us with student cohort data (however, note there is a standard deviation of almost 30%)

We do not have a full set of data from practitioner psychologists approved programmes as the BPS could not supply this and we are collecting it via the three year approval visit cycle

We do not have a full set of data from HAD approved programmes as the HAC could not supply this and we are collecting it via the two year approval visit cycle

We have no projected information about which P&C programmes are likely to be approved

We have no projected information about which SW/P&C/DMT/HCS programmes (new professions)

The student cohort data is the number of students which the education provider can deliver the programme for. There is an unknown variance each year between the projected number and the actual intake number.

Non-continuation rate in subjects allied to medicine is 12.5%