

Progression Routes & Attainment in Occupational Therapy Education.

The impact of students' background characteristics.

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Pre-reg Occupational Therapy Education:

Year of Entry	Female ^a	Mature at entry	Black & Minority Ethnic Groups ^b	Attrition ^a
2004	91%	67%	7% (England only)	14%
2005	91%	67%	12% (England only)	15%
2006	91%	63%	Not available	10%
2007	93%	55%	Not available	11%
2008	91%	64%	6%	12%

Note: (a) mean figure across full, part-time, accelerated and work-based learning programmes; (b) ethnicity data is not consistently collected by all programmes; figures based on available data

Summary of key UK programme data, 2004 - 2008 (COT 2007; 2010).

Pre-reg Occupational Therapy Education:

Non-traditional OT students as successful as school-leavers
 (Howard & Jerosch-Herold, 2000; Howard & Watson, 1998; Shanahan, 2004)

BUT:

- More likely to consider leaving (Wheeler, 2001)
- Feel courses geared towards school-leavers and offer inadequate support (Graham & Babola, 1998)
- Feel at times like they succeed in spite of programmes (Ryan 2001)



OT - Helping people regain lost skills and live life to the full

Methodological Outline:

AIM: to explore the influence of background characteristics and entry qualifications on students' progression routes and academic attainment.

- Survey of achievements
- 239 consenting OT students from 2003–2006 cohorts
- Full-time undergraduate programme in research intensive HEI
 - Age at entry
 - Gender
 - Entry qualifications
 - Ethnicity
 - Socio-economic background
 - Exit awards (including sub-honours awards)
 - Final degree classifications (where appropriate)

Recruitment from each cohort:

Year of Entry	Actual cohort size	Number recruited	Percentage recruited
2003	72	56	77.78%
2004	77	69	89.61%
2005	66	60	90.91%
2006	61	54	88.52%
TOTAL	276	239	86.59%

Gender, age and ethnicity characteristics:

Year of Entry	Female	Range: age at entry	Mean age at entry	Mature at entry	Non-White British/Irish ethnic groups
2003	80.35%	18 - 44	22.98	42.86%	1.79%
2004	92.75%	18 - 42	23.90	49.28%	2.90%
2005	88.33%	18 - 44	24.92	51.67%	1.67%
2006	94.44%	18 - 51	25.93	46.30%	5.56%
TOTAL	89.12%	18 - 51	24.40	47.70%	2.9%

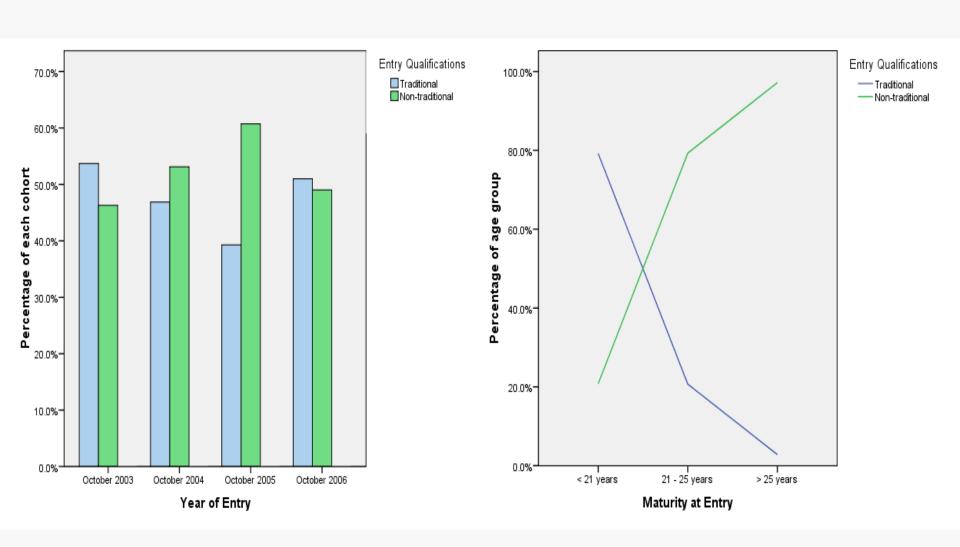
Socio-economic backgrounds:

COCIO ECOMONIC BACKCBOUND			Year of E	ntry	
SOCIO-ECOMOMIC BACKGROUND	2003	2004	2005	2006	TOTAL
Not classified	8	11	10	11	40 (16.7%)
HIGHER GROUPS					
	6	13	10	4	33 (13.8%)
Professional occupations	16	17	16	19	68 (28.5%)
MIDDLE GROUPS					
Intermediate occupations	9	14	9	6	38 (15.9%)
Small employers & own account workers	3	0	4	3	10 (4.2%)
LOWER GROUPS					
Lower supervisory & technical occupations	3	0	2	2	7 (2.9%)
Semi-routine occupations	8	14	9	8	39 (16.3%)
Routine occupations	3	0	0	1	4 (1.7%)
TOTAL	56	69	60	54	239

			Year of En	try	
ENTRY QUALIFICATIONS	2003a	2004 ^b	2005 ^c	2006 ^d	Total
	(n = 56)	(n = 69)	(n = 60)	(n = 54)	(n = 239)
A-levels (<21 entry)	29	29	20	26	104 (43.51%)
	(51.79%)	(42.03%)	(33.33%)	(48.15%)	
A-levels (Mature entry)	3	12	7	7	29 (12.13%)
	(5.36%)	(17.39%)	(11.67%)	(12.92%)	
Access	15	17	20	14	66 (27.62%)
	(26.79%)	(24.64%)	(33.33%)	(25.93%)	
HND	0	1	0	0	1 (0.42%)
		(1.45%)			
GNVQ	1	0	0	0	1 (0.42%)
	(1.79%)				
AVCE	2	11	8	3	24 (10.04%)
	(3.57%)	(15.92%)	(13.33%)	(5.56%)	
ВТЕС	2	0	2	1	5 (2.09%)
	(3.57%)		(3.33%)	(1.85%)	
Foundation Degree	0	1	0	0	1 (0.42%)
		(1.45%)			
OU Science Foundation	3	2	3	0	8 (3.35%)
	(5.36%)	(2.90%)	(5.00%)		
International	0	0	1	1	2 (0.84%)
Baccalaureate			(1.67%)	(1.85%)	
Other	3	5	5	5	18 (7.53%)
	(5.36%)	(7.25%)	(8.33%)	(9.26%)	

Percentage traditional & nontraditional entry qualifications

Entry qualifications according to maturity at entry



Progression routes & exit awards:

		ENTRY QU	ALIFICATIONS
		Traditional (n = 107)	Non-traditional (n = 118)
Passed Level 4	YES Min award: Cert Allied Health	97 (90.65%)	98 (83.05%)
	NO No award	10 (9.35%)	20 (16.95%)
Passed Level 5	YES Min award: Dip Allied Health	95 (88.79%)	97 (82.20%)
	NO Max award: Cert Allied Health	12 (11.21%)	21 (17.80%)
Passed Level 6	YES Min award: BSc (Hons) 3 rd class	94 (87.85%)	90ª (76.27%)
	NO Max award: BSc Allied Health	13 (12.15%)	24 a (20.34%)
Good Degree (2:1 or 1 st)	YES Min award: BSc (Hons) 2:1	83 (77.57%)	77ª (65.25%)
	NO Max award: BSc (Hons) 2:2	24 (22.43%)	37 a (31.36%)

a: 4 students from the 2006 cohort had yet to complete Level 6 and are not included in these figures

Binary logistic regressions:

- Gender
 - Female
 - Male
- Maturity at entry
 - <21 years (school-leaver entrant)</p>
 - 21–25 years (young mature entrant)
 - >25 years (older mature entrant)
- Entry qualifications
 - Traditional
 - Non-traditional
- Socio-economic background
 - Upper socio-economic groups
 - Middle socio-economic groups
 - Lower socio-economic groups

LEVEL OF ANALYSIS	B (Std Error)	Significance	95% Confidence Interval for Odds Ratio		
			Lower CI	Odds Ratio	Upper CI
PASS AT LEVEL 4					
$R^2 = .09$ (Cox & Snell), .	18 (Nagelkerke). Mo	$del X^2 (4) = 18.2$	7, p = .001		
Constant a	-2.90 (0.44)	.000		.06	
Gender (male)	1.77 (0.58)	.002**	1.88	5.84	18.15
SEC (lower groups)	1.56 (0.54)	.004**	1.66	4.78	13.77
PASS AT LEVEL 5					
$R^2 = .09$ (Cox & Snell), .	17 (Nagelkerke). Mo	$del X^2 (4) = 18.6$	1, p = .001		
Constant a	-2.86 (0.43)	.000		0.06	
Gender (male)	1.65 (0.58)	.004**	1.69	5.22	16.11
SEC (lower groups)	1.67 (0.53)	.002**	1.88	5.32	15.06
PASS AT LEVEL 6					
$R^2 = .11$ (Cox & Snell), .	19 (Nagelkerke). Mo	$del X^2 (4) = 21.6$	4, p < .001		
Constant a	-2.72 (0.41)	.000		0.07	
Gender (male)	1.72 (0.56)	.002**	1.85	5.58	16.82
SEC (lower groups)	1.74 (0.51)	.001***	2.11	5.71	15.47
GOOD DEGREE (2:1 or	1 st)				
$R^2 = .08$ (Cox & Snell), .	12 (Nagelkerke). Mo	$del X^2 (3) = 15.6$	3, p = .001		
Constant a	-1.65 (0.28)	.000		0.19	
Gender (male)	1.30 (0.51)	.011*	1.34	3.67	10.04
SEC (lower groups)	1.22 (0.41)	.003**	1.53	3.39	7.50

Significant predictors of progression:

- The odds of a male student failing to pass Level 4 are nearly six times higher than for a female.
- The odds of a male student failing to pass Level 5 are more than five times higher than for a female.
- The odds of a male student failing to pass Level 6 are over five and a half times higher than for a female.
- The odds of a male student failing to secure a good degree are over three and a half times higher than for a female.

Significant predictors of progression:

- The odds of a student from the lower socio-economic groups failing to pass Level 4 are **approaching five times higher** than for a student from a higher socio-economic group.
- The odds of a student from the lower socio-economic groups failing to pass Level 5 are more than five times higher than for a student from a higher socio-economic group.
- The odds of a student from the lower socio-economic groups failing to pass Level 6 are **over five and a half times higher** than for a student from a higher socio-economic group.
- The odds of a student from the lower socio-economic groups failing to secure a good honours degree are **more than three times higher** than for a student from a higher socio-economic group.

Final degree marks:

- Entry qualification:
 - Traditional academic backgrounds (M = 63.37, SE = .45)
 - Non-traditional academic backgrounds (M = 63.14, SE = .47)
 - t(182) = .39, p > .05
- Gender:
 - Women (M = 63.44, SE 0.32)
 - Men (M = 62.49, SE = 1.26)
 - t(193) = .83, p > .05
- Socio-economic background:
 - H(2) = 1.98, p > .05
- Maturity at entry:
 - H(2) = 1.40, p > .05

Implications:

- Reflect upon the extent to which the female dominated profession, and educational environment, is accessible to and accommodating of men.
- Evaluate the effectiveness of social inclusion policies in HE generally, and OT education specifically, not solely in terms of recruitment or even retention, but also in terms of outcome.
- Further work:
 - Larger sample across HEIs (and disciplines)
 - Increased sample of male students
 - Avoid necessity to collapse data

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