
**Implementation of evidence-based practice
across medical, nursing, pharmacological
and allied health professionals in a
nationwide hospital setting**

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Introduction

- The backgrounds of physicians, nurses, pharmacists and allied health professionals are naturally different.
 - Little research has focused on comparing use of evidence-based practice (EBP) among different professions.
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Study Aims

- The current study systematically investigates how EBP is perceived among all groups of health professionals.
 - **Physician**
 - **Nurse**
 - **Pharmacist**
 - **Physical therapist**
 - **Technician**
 - **Other allied health professions**
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Methods

- A postal structured **questionnaire** survey was conducted in 2011 in regional hospitals throughout Taiwan.
 - **Cluster sampling** – Questionnaires were mailed to all health workers of 11 randomly selected hospitals.
 - **IRB** – The study protocol was approved by NHRI's Ethical Review Board.
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Questionnaire

- EBP
 - awareness
 - beliefs
 - attitudes
 - knowledge
 - skills
 - implementation
 - Demographic background
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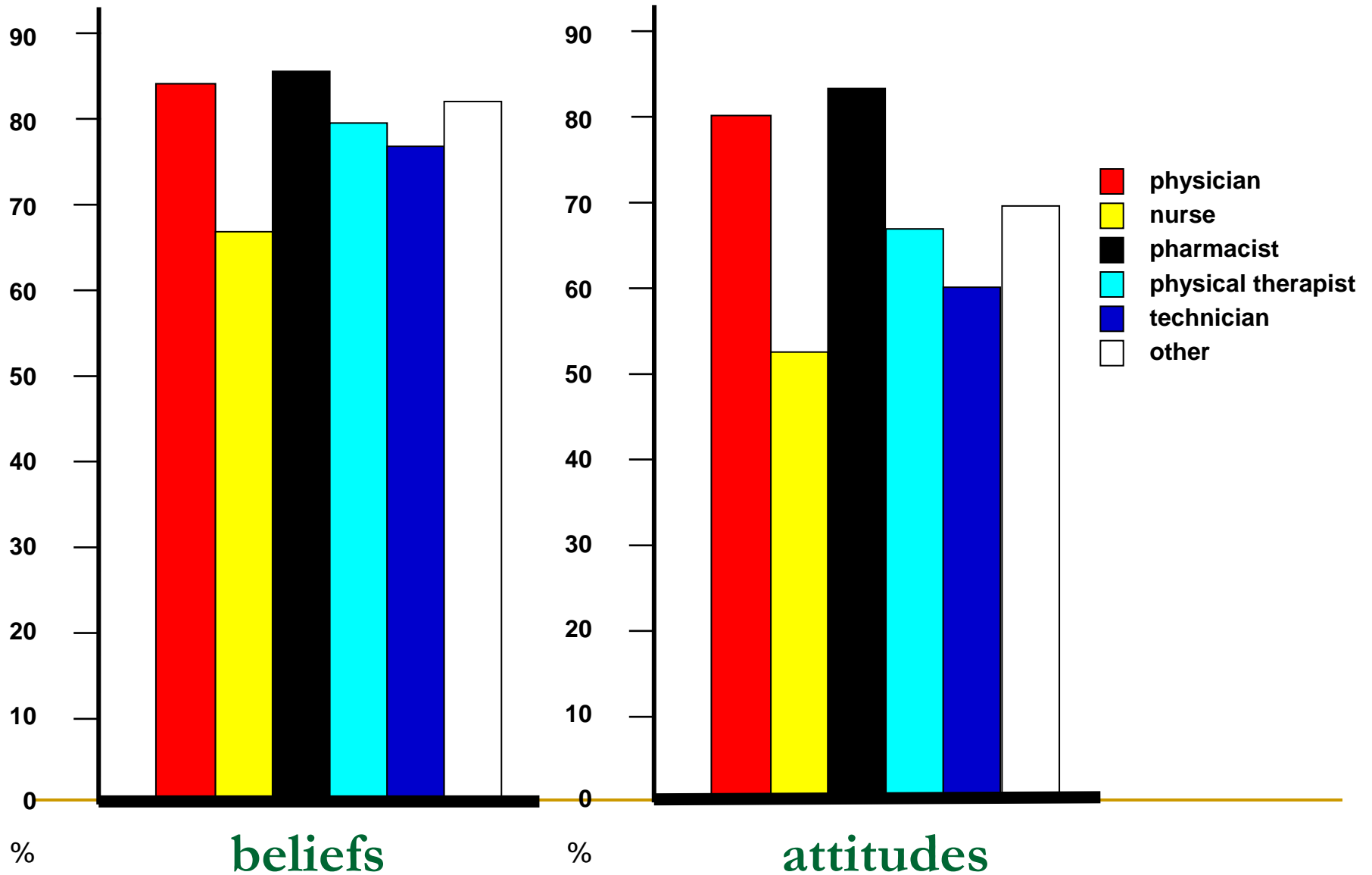
Results – awareness of EBP

	All respondents N=6160	EBP Awareness N=5038 (%)	<i>p</i> value
Gender			< 0.001
Male	942	815 (86.5%)	
Female	5218	4223 (80.9%)	
Age (y)			< 0.001
20–30	2760	2083 (75.5%)	
31–40	2571	2211 (86.0%)	
41–50	664	599 (90.2%)	
> 50	165	145 (87.9%)	
Working experience (y)			< 0.001
< 5	2108	1611 (76.4%)	
5–10	2384	1934 (81.1%)	
> 10	1668	1493 (89.5%)	
Academic level			< 0.001
Technical school	1846	1384 (75.0%)	
Junior college	1809	1464 (80.9%)	
Bachelor's	2062	1773 (86.0%)	
Master's	401	377 (94.0%)	
Doctorate	42	40 (95.2%)	

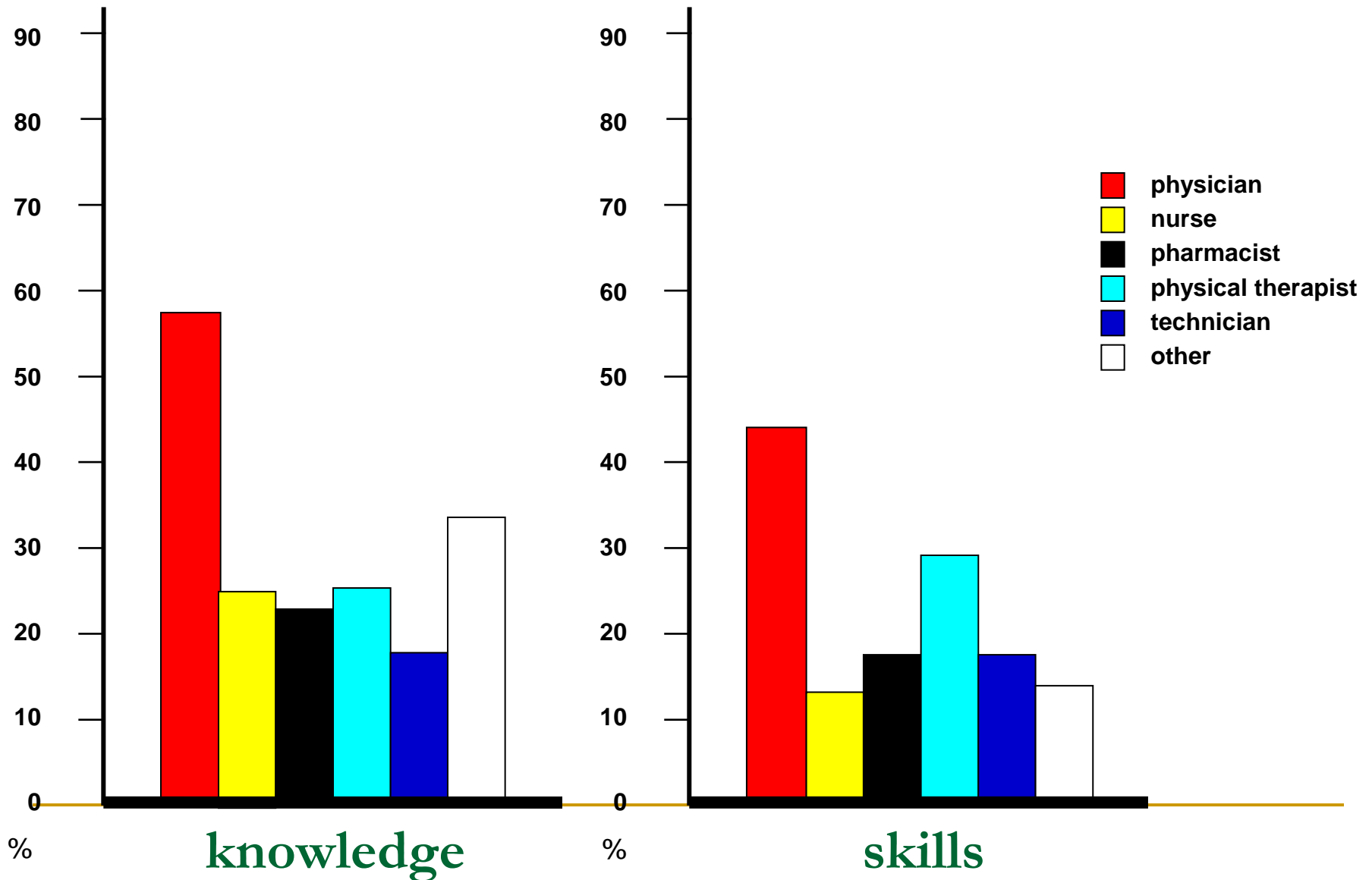
Results – awareness of EBP

	All respondents N=6160	EBP Awareness N=5038 (%)	<i>p</i> value
Faculty (%)			< 0.001
Yes	1219	1129 (92.6%)	
No	4941	3909 (79.1%)	
Director (%)			< 0.001
With	620	597 (96.3%)	
Without	5540	4441 (80.2%)	
Profession			< 0.001
Physician	645	614 (95.2%)	
Nurse	4206	3354 (79.7%)	
Pharmacist	430	401 (93.3%)	
Physical therapist	179	149 (83.2%)	
Technician	537	382 (71.1%)	
Other	163	138 (84.7%)	

Results – beliefs and attitudes



Results – knowledge and skills



Results – implementation of EBP

EBP implementation	Yes N=2111	No N=2927	OR	95%CI	p value
Beliefs	1696 (80.3)	1908 (65.2)	1.485	1.230~1.792	<0.001
Attitudes	1476 (69.9)	1539 (52.6)	1.248	1.052~1.479	0.011
Knowledge	788 (37.3)	656 (22.4)	1.655	1.377~1.989	<0.001
Skills	536 (25.4)	312 (10.7)	1.354	1.153~1.591	<0.001
Training	981 (56.5)	547 (18.7)	1.914	1.618~2.264	<0.001

Results – Implementation of EBP

EBP implementation	Yes N=2111	No N=2927	OR	95%CI	p value
Physician	436 (20.7)	178 (6.1)	1.932	1.394~2.678	<0.001
Pharmacist	169 (8.0)	232 (7.9)	0.801	0.610~1.051	0.110
Physical therapist	78 (3.7)	71 (2.5)	1.137	0.764~1.692	0.526
Technician	122 (5.8)	260 (8.8)	0.574	0.436~0.755	<0.001
Other allied	75 (3.6)	63 (2.2)	1.527	1.009~2.310	0.045
Nurse	1231 (58.2)	2123 (72.5)		reference	

Conclusions

- There are significant differences in their implementation of EBP.
 - Certain factors are associated with EBP implementation
 - personal backgrounds
 - perceptions toward EBP
 - Strategies for enhancing EBP implementation should differ for various groups of professionals.
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Important dates

Abstract submission from 15 Feb, 2014
Very early registration by 31 March, 2014
Early registration by 30 June, 2014

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**Host: Taipei Medical University
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