

The Kirkpatrick Model for Program Evaluation as an Efficient Data-Driven Accreditation Self Study Process

Physician Assistant Program

A Case Study

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Outline

Physician Assistant Program

1. The Problem
2. Purpose of the Study
3. Interventions
4. Methods of Measurement
5. Results
6. Discussion

Statement of the Problem

Physician Assistant Program

Student satisfaction was below departmental expectations.

Hypothesis 1: Increasing communication channels and access to information will improve student satisfaction.

Purpose

Physician Assistant Program

To measure the effectiveness of a clinical online course in terms of student satisfaction and learning, in terms of:

1. communication with the clinical coordinator;
2. end of semester meeting;
3. end of semester exam;
4. communication between preceptors and the Clinical Coordinator;
5. planning and coordination of rotation assignments; and,
6. overall effectiveness of the Clinical Coordinator.

Key Interventions

Physician Assistant Program

	Pre	Post
Communication Modes	F2F, Phone, Email, Paper	Others + WebCT, Cell Phone
Availability	Reactive Responses	Proactive Information & Increased Access
Travel	Travel to Campus every 5 Weeks	Travel to Campus 1 / Semester
Assessment	Paper Exams, Patient Log - Attachment	Online Exams, Quizzes, Discussion, Patient Log - Web Form
Evaluation	Summative Paper Surveys	Formative & Summative Online Surveys

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Spring_2005: PA Clinical Rotations FA 2004 - SU 2005

Course Menu - Homepage

Announcements: April 14, 2005 (posted at 9:15 am)

Graduate Project Announcements:

- Reminder: PowerPoints and Papers are due tomorrow Apr. 15.

Take care, Paula

Glossary of Icons | Email | Contact Info | Rotations | Master's Project

Discussions | Site Visit Schedule | Meetings | PA Program Home | Student Satisfaction Surveys

Grades | Schedule of Due Dates | EOG Meetings | Homepage Announcement Archive | File Sharing

Methods of Measurement

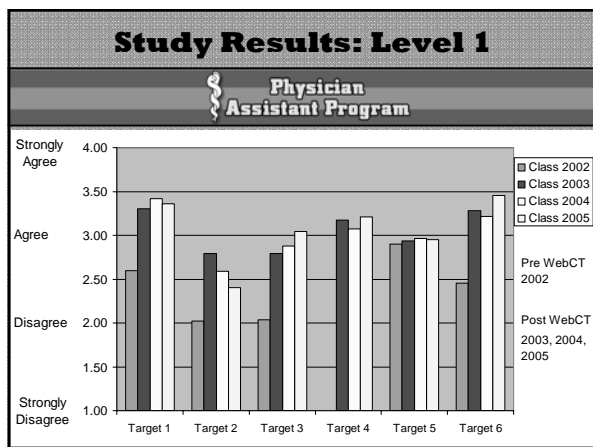
Physician Assistant Program

Kirkpatrick Model of Evaluation	
Level	Example
1) Reaction	Student Satisfaction surveys and End of Clinical Year surveys
2) Learning	Exam scores
3) Behavior (transfer of skill to the clinical environment)	Clinical Preceptor Evaluation of Students
4) Results	NCCPA Pass Rate, PACKRAT Scores

Methods of Measurement

Physician Assistant Program

Reaction Level 1:	Learning, Behavior & Results Levels 2, 3, & 4:
<ul style="list-style-type: none"> • End-of-Rotation Survey • End-of-Clinical Year Survey • End-of-Program Survey • Online Discussions • Site Visits 	<ul style="list-style-type: none"> • Article Quizzes • Primary Care Exam • Specialty Care Exam • Preceptor Evaluations • Physician Assistant Clinical Knowledge Rating and Assessment Tool (national standardized practice test) • Physician Assistant National Certifying Exam



Level 1 Pre/Post Significance Test

Physician Assistant Program

	Expected Pos	Observed Pos	Expected Neg	Observed Neg	χ^2 Score	P-Value
Target 1 N = 1572	924	1466	648	106	771.3	< 0.005
Target 2 N = 114	34	81	80	33	92.6	< 0.005
Target 3 N = 196	62	165	134	31	250.3	< 0.005
Target 5 N = 522	361	406	161	116	18.2	< 0.005
Target 6 N = 444	209	398	235	46	322.9	< 0.005

Study Results: Levels 2, 3 & 4

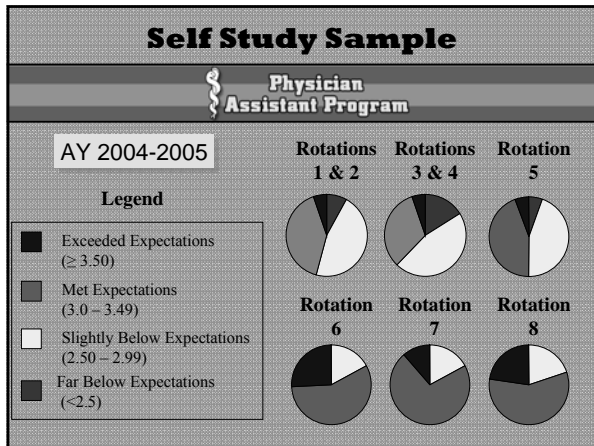
Physician Assistant Program

Kirkpatrick Level	L2	L2	L3	L4	L4
Class of	Primary Care Exam	Specialty Care Exam	Preceptor Evaluations	PACKRAT	NCCPA
2002	87.39%	90.96%	91.00%	68.31%	87.00%
2003	88.65%	91.41%	91.00%	62.50%	95.00%
2004	77.65%	75.00%	95.40%	66.20%	90.00%
2005	75.70%	75.40%	94.90%	62.82%	94.00%
2006	79.80%	78.80%	97.70%	61.50%	90.00%

Discussion

Physician Assistant Program

- **Kirkpatrick method now as organizational foundation of self-study**
- **Data-driven Rewards**
- **Moving toward an evidence-based approach to teaching.**



Kirkpatrick Method

§ Physician Assistant Program

Questions?