

Addiction Medicine Training in Medical Education:

The Importance of the Attitude towards Patients with Addiction
and Perceptions of Addiction

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Background



Correspondence **THE LANCET**

Evidence-informed response to illicit drugs in Indonesia

Irwanto , Dewa N Wirawan, Ignatius Praptoraharjo, Sulistyowati Irianto, Siti Musdah Mulia on behalf of 11 signatories

ADDICTION

Letter to the Editor

**ADDICTION TRAINING FOR HEALTH
PROFESSIONALS AS AN ANTIDOTE TO THE
ADDICTION HEALTH BURDEN IN INDONESIA**



What is already known:

- Physicians often expressed a negative attitude towards patients with addiction.
- Physicians' perceptions of addiction vary widely.
- Addiction medicine education is effective in improving medical students' knowledge and attitude related to addiction.



Addiction Medicine EDUCATION

Patient

- Attitude
- Perception
- Knowledge
- Skills
- Culture
- Experiences



Problem in addiction treatment:

Physicians' negative
attitude towards
patients



Doctor

- Attitude
- Perception
- Knowledge
- Skills
- Culture
- Experiences



Objectives

- How is the current situation of addiction medicine training worldwide and what need to be covered in the addiction medicine curriculum?
- How do students perceive addiction and how to measure the perception of addiction? What is the medical students' attitude towards patients with addiction?
- What is the effect of undergraduate addiction medicine education on the medical students' attitudes? What is the role of perception and knowledge related to addiction on the attitude?



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Effectiveness and Organization of Addiction Medicine Training Across the Globe

Astri Parawita Ayu^{a, d} Arnt F.A. Schellekens^{b, d} Shelly Iskandar^c Lucas Pinxten^d
Cor A.J. De Jong^d

Addiction medicine training programs can be effective in improving knowledge, skills and attitudes related to addiction.



Core addiction medicine competencies for doctors: An international consultation on training



Astri Parawita Ayu, Nady el-Guebaly, Arnt Schellekens, Cor De Jong, Gabrielle Welle-Strand, William Small, Evan Wood, Walter Cullen & Jan Klimas

The academic scholars proposed a core set of principles for addiction medicine curriculum.

Undergraduate:

- Acquire basic knowledge of addiction (bio-psycho-social, neurobiology) and clinical skills (communication, SBIRT).
- Develop professional attitude.



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Illness Perceptions of Addiction and Substance Use Patterns among Psychology Students

Astri Parawita Ayu^{1,2,*} Cor A J De Jong², Lucas Pinxten² and Arnt F A Schellekens^{1,3}

A cross-sectional study that evaluated the relation between perception and substance use among undergraduate psychology students.

Those who use substances perceived they had more understanding of addiction and a stronger believe that addiction can be controlled in comparison with those who did not.



Good Psychometric Properties of the Addiction Version of the Revised Illness Perception Questionnaire for Health Care Professionals

Astri Parawita Ayu^{1,2*}, Boukje Dijkstra², Milou Golbach³, Cor De Jong², Arnt Schellekens^{2,4}

- Similar factor structures as the IPQ-R with moderate (0.53) to good internal consistency (0.88).
- New factors were found: **demoralization** ($\alpha=0.81$) and **smoking-alcohol** attribution ($\alpha=0.78$).
- Good discriminant validity:
 - Perceptions among students from different background: educational (medicine, psychology, education science) and cultural (Indonesia and the Netherlands).
 - Perceptions between medical doctor and medical students.



The Attitude

The Medical Condition Regard Scale: Measuring Reactions to Diagnoses

George W. Christison, MD, Mark G. Haviland, PhD, and Matt L. Riggs, PhD

- 11 items
- Response: 6-point Likert scale
- Evaluate the attitude in 3 domains: enjoyableness, treatability, worthiness of medical treatment.
- One-dimension scale: the **regard** scale (attitude).



Working with patients like this is satisfying.

Insurance plans should cover patients like this to the same degree that they cover patients with other conditions.

There is little I can do to help patients like this.

I feel especially compassionate toward patients like this.

Patients like this irritate me

I wouldn't mind getting up on call nights to care for patients like this

Treating patients like this is a waste of medical dollars.

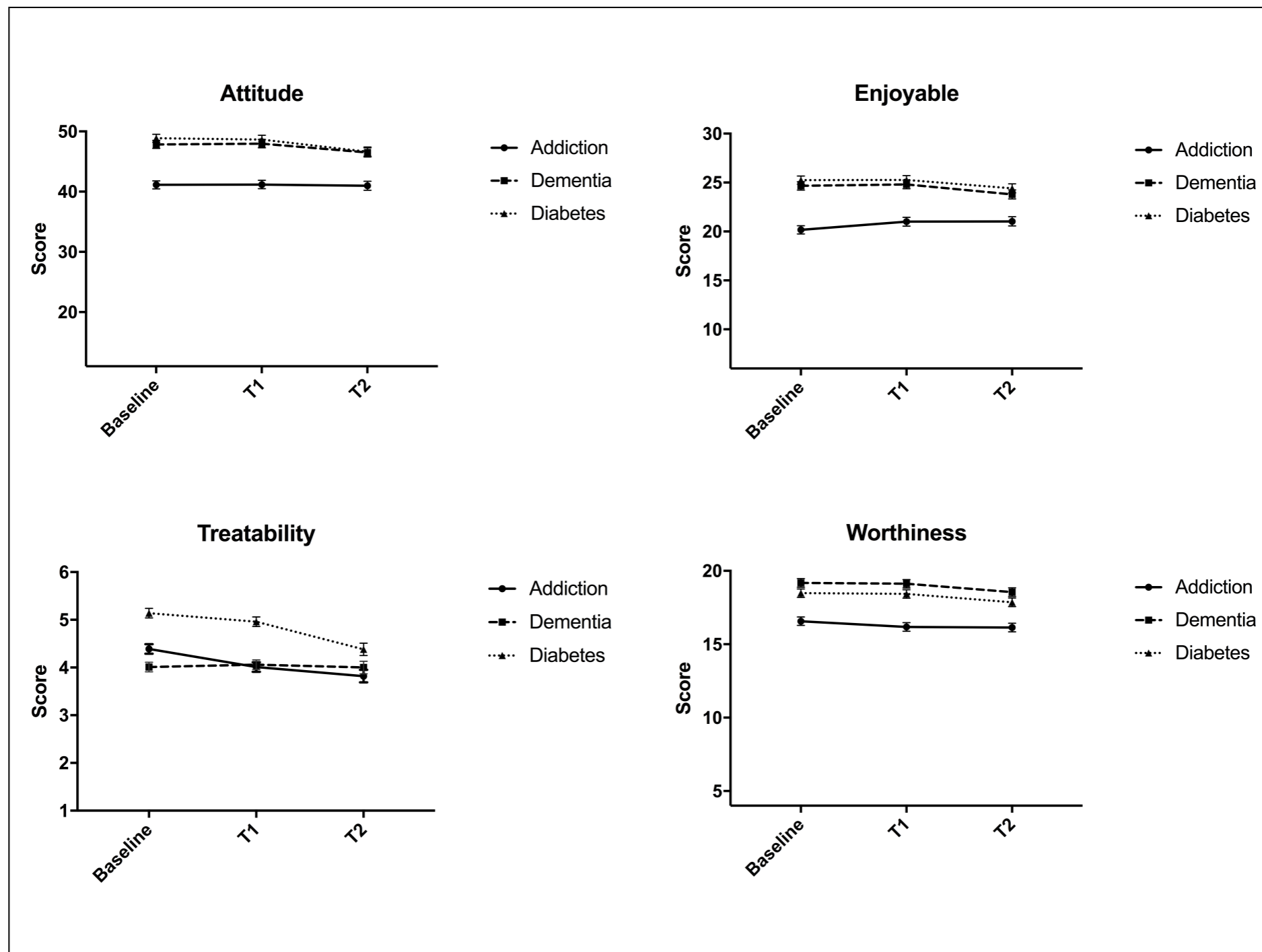
Patients like this are particularly difficult for me to work with.

I can usually find something that helps patients like this feel better.

I enjoy giving extra time to patients like this.

I prefer not to work with patients like this.





Medical Students' Attitude towards Chronic Diseases: Addiction, Dementia, Diabetes The Primary and Community Care training



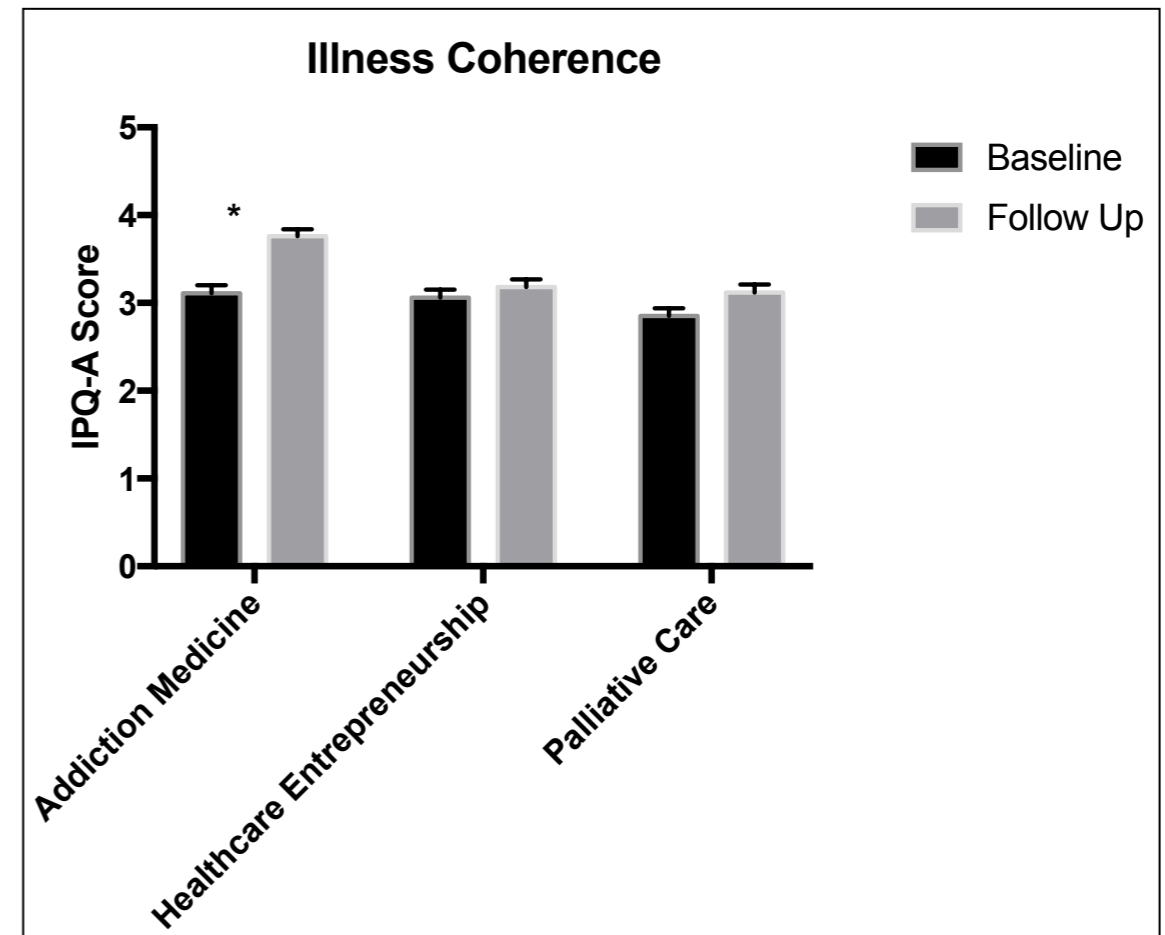
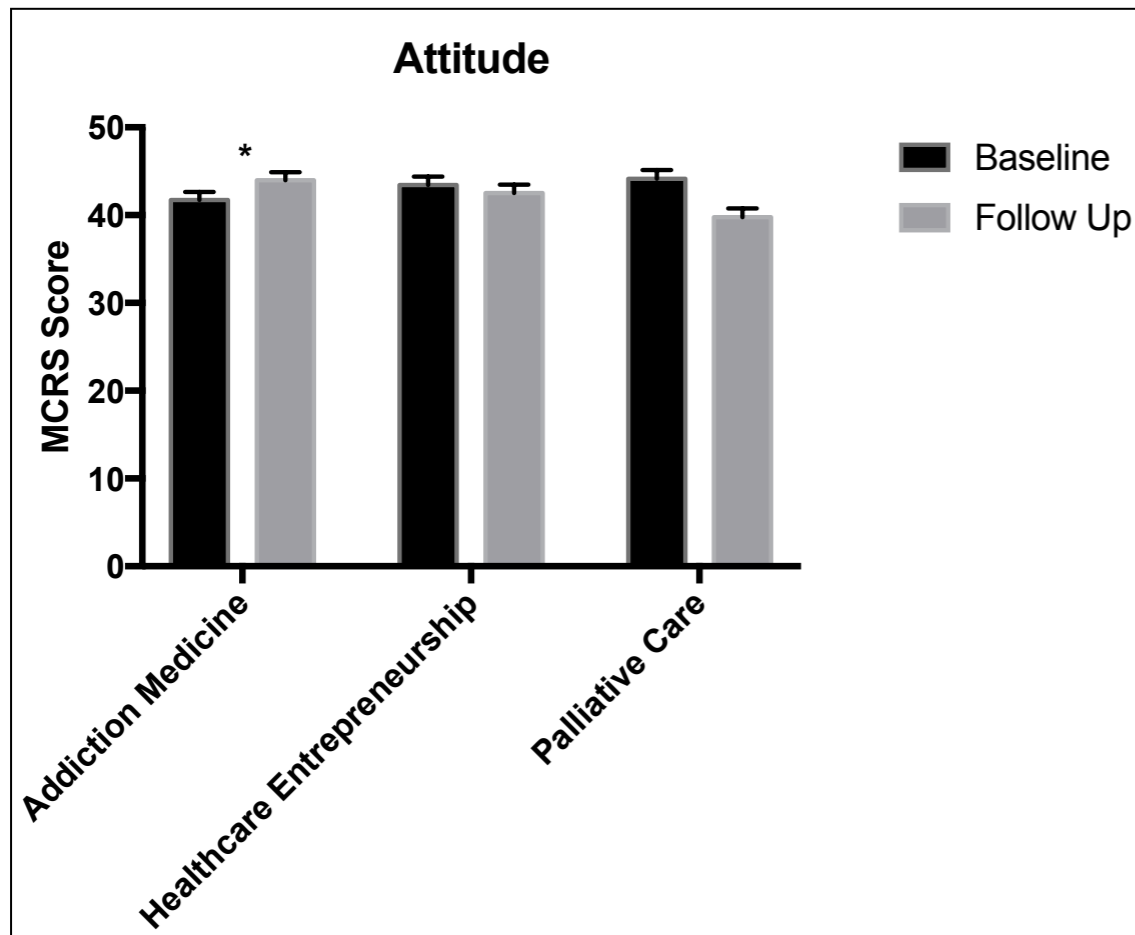
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The effect of addiction medicine training on medical students' attitude and perception

A 5-week addiction medicine block at Atma Jaya University, Jakarta, Indonesia



The predictor of the attitude after addiction medicine training

	B	SE	β	P
Step 1				
<i>Constant</i>	24.10	5.31		<.01
Illness coherence follow up	6.70	1.37	.59	<.01
Step 2				
<i>Constant</i>	10.33	6.19		.10
Illness coherence follow up	5.63	1.26	.50	<.01
Emotional representation baseline	4.28	1.23	.39	<.01
Step 3				
<i>Constant</i>	0.51	7.52		.95
Illness coherence follow up	5.53	1.21	.49	<.01
Emotional representation baseline	3.77	1.21	.34	<.01
Patient control baseline	3.15	1.47	.23	.04

B = unstandardized coefficients, SE = standard error, β = standardized coefficients
 Note. $R^2 = .35$ for step 1, $R^2 = .54$ for step 3; $\Delta R^2 = .05$ for step 3 ($p = .04$)




Take Home Messages

- Addiction medicine training for undergraduate:
 - Knowledge, skills, attitudes.
 - Effective in improving the medical students' attitudes and developing a coherent understanding related to addiction.
- The perceived illness coherence might have an important role in attitude improvement:
 - Medical education needs to pay attention on the development of medical students' attitudes towards and perceived coherent understanding of addiction.
 - The concept of illness coherence and how training can increase it should be further explored in scientific studies.




What next?

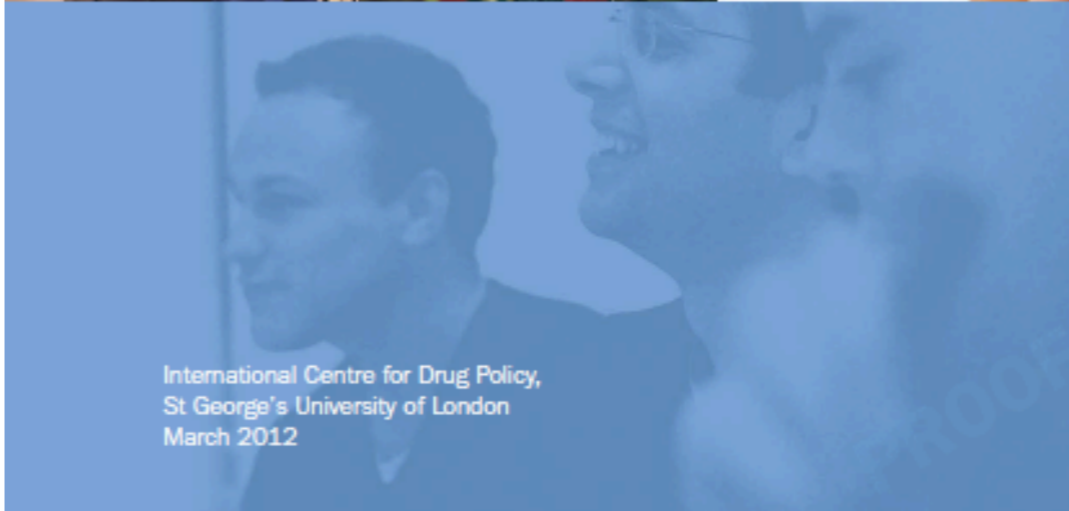


 St George's
University of London

Substance Misuse in the Undergraduate Medical Curriculum Project Report



International Centre for Drug Policy,
St George's University of London
March 2012



You are kindly invited:

PhD Thesis defence Astri Parawita Ayu (Promotie)

Date Monday 15 January 2018

Time vanaf 14:30

Location Academiezaal Aula, Comeniuslaan 2

Faculty Faculty of Social Sciences

Ph.D. student Astri Parawita Ayu

Subtitel Addiction Medicine Training in Medical Education: the Importance of the Attitude towards Patients with Addiction and Perceptions of Addiction

Thank You – Dank U– Terima Kasih

