Introduction to Drug Utilization Research Methodological Framework and Research Skills Associate Professor Lisa Pont (University of Technology Sydney, Australia)

on behalf of the ISPE Drug Utilization Special Interest Group by Associate Professor Lisa Pont (University of Technology Sydney, Austr Professor Katja Taxis (University of Groningen, Netherlands) Associate Professor Bjorn, Wettermark (Karolinska Institute, Sweden)

























Consumption

## Macro level

Health System (eg Clinic, hospital, region, country)

DUR and the conceptual framework					
	Quantify	Understand	Evaluate	Improve	
Prescribing					
Dispensing					
Consumption					
		1		14	











DUR and the conceptual framework					
	Quantify	Understand	Evaluate	Improve	
Prescribing					
Dispensing					
Consumption					
	ι			20	

























Examples of DUR and the conceptual framework					
Quantify	Understand	Evaluate	Improve		
		Prescribing quality indicators			
	iceptua	iceptual framew	Quantify Understand Evaluate Prescribing quality		

Eur J Clin Pharmacol (20 DOI 10.1007/s00228-003- PHARMACOEP		IPTION		_
Willem Jan van der V	Denig · Thys van der Molen een · Flora M. Haaijer-Ruskamp			
Validity of per the case of a	formance indicators fo	Validatio We valid terns rela	n process ated indicators that targeted ted to four steps included in (NIH guidelines) [12]. Under-treatment of inhale Under-treatment of inhale moderate or severe persisten Inadequate dose of inhaled or severe persistent asthma	sub-optimal treatment pat- the 1997 National Institutes cting inhaled β-agonists for d corticosteroids for mild,
Indicator	Relevant asthma severity classes targeted by each indicator (number of patients)	Sensitivity	Positive predictive value	
Step-1 indicator Step-2A indicator Step-2B indicator Step-3 indicator Step-4 indicator	All severity classes $(n = 146)$ Severity classes 2, 3 & 4 $(n = 95)$ Severity classes 2, 3 & 4 $(n = 95)$ Severity classes 3 & 4 $(n = 86)$ Severity classe 4 $(n = 16)$	0.86 (0.71-0.95) 0.74 (0.57-0.88) 0.37 (0.19-0.58) 0.07 (0.00-0.32) Not validated d inadequate san		





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Treatment quality indicators predict short-term outcomes in patients with diabetes: a prospective cohort study using the GIANTT database

Grigory Sidorenkov,<sup>1,2</sup> Jaco Voorham,<sup>1,2</sup> Dick de Zeeuw,<sup>1</sup> Flora M Haaijer-Ruskamp,<sup>1,2</sup> Petra Denig<sup>1,2</sup>

Prescribing indicator: "a measurable element of prescribing performance for which there is evidence or consensus that it can be used to assess quality"



Examples of DUR and the conceptual framework					
	Quantify	Understand	Evaluate	Improve	
Prescribing				Intervention studies	
Dispensing					
Consumption				36	

## Research

Effect of humour therapy on psychotropic medication use in nursing homes



nursing l			alasian Journal on Ageing, Vol 35 No 4 Dece 116 AJA Inc.	
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<i>Lisa Pont</i> Sydney Nursing S Wales, Australia	chool, The University of Sydney, M	New South		
Lee-Fay Low Faculty of Health S South Wales, Aust	Sciences, The University of Sydne tralia	y, Sydney, New		
Fable 1: Prevaler after Play Up pro	gram		Benzordiazenines	
Table 1: Prevaler after Play Up pro	tice (%) of psychotropic med gram Any psychotropic 169 (46.8%) 151 (41.8%)	Antipsychotics           94           (26.0%)           82           (27.7%)	Benzodiazepines 63 (17.5%) 52 (14.4%)	P program and Antidepressants 65 (18.0%) 61 (16.9%)









Examples of DUR and the conceptual framework					
•	Quantify	Understand	Evaluate	Improve	
Prescribing					
Dispensing					
Consumption				Patient education	





















