













People exposed to NCEs at the time of marketing United Kingdom 1987-1989					
	healthy volunteers	efficacy studies	safety database		
all applications	68 (0-619)	861 (41-4906)	1171 (43-15962)		
successful	92 (0-819)	1126 (122-4906)	1480 (129-9400)		
unsuccessful	64 (0-431)	785 (41-4786)	1052 (43-15962)		
Rawlins and Jet	fferys. BMJ 19	991;302:223-5			

What is probability of detection?

Side effect occurs 1 in 1000. What evidence base (trials) is necessary to observe with 95% probability the side effect at least once?

Evidence base is 1500 patients. Side effects with which incidence can be observed at least once with 95% probability?



Definitions

Adverse Drug Event: A harmful and unintended event occurring during drug therapy

Adverse Drug Reaction / Adverse Reaction: A harmful and unintended event considered related to drug therapy

Side Effect: An effect other than the intended one

Medication error



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Hospital Admissions Related to Medication The HARM study

ORIGINAL INVESTIGATION

Frequency of and Risk Factors for Preventable Medication-Related Hospital Admissions in the Netherlands

Anne J. Leendertse, PharmD; Antoine C. G. Egberts, PhD; Lennart J. Stoker, PharmD; Patricia M. L. A. van den Bemt, PhD; for the HARM Study Group

Results: Almost 13 000 unplanned admissions were screened, of which 714 (5.6%) were medication related. Almost half (46.5%) of these admissions were potentially preventable, resulting in 332 case patients matched

Arch Intern Med 23 september 2008







SSRIs - bleeds in orthopedic surgery					
	serotonergic	none	P-		
	AD (n=26)	(n=494)	value		
Blood transfusion n (%)	6 (10%)	20 (4%)	<0.001		
Perioperative blood loss	1019 ml	582 ml	0.001		
Postoperative drainage	657 ml	495 ml	0.032		
Arch Intern Med 2003;163:2354-8					



	meloxicam	ibuprofen
	n=5000	n=5000
recent use NSAIDs	49.8%	7.9%
recent use H2 blockers	12.4%	4.0%
recent use proton-pump inh.	11.1%	4.0%
history of dyspepsia	38.4%	20.3%
history of peptic ulcer	6.1%	3.1%













Assignment 1

Write down the occurrence relation of the papers Determinant, outcome, domain

Write down your occurrence relation of interest The objective of my study is to.... Draw most important graph/table