



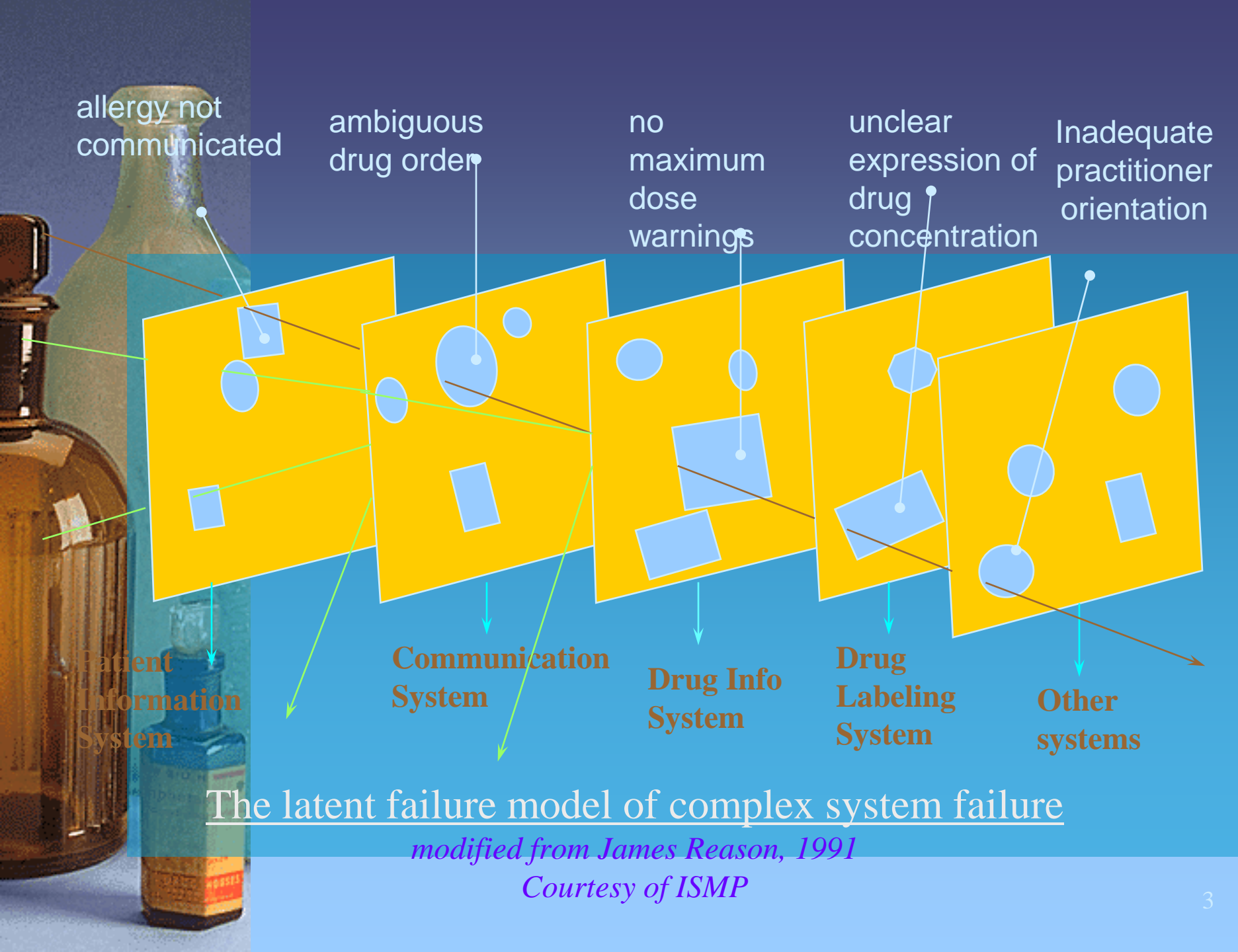
*"Beyond the Low Hanging  
Fruit: Automation and  
Technologies to Optimize  
Medication Safety"*

Robert L. Stein, Pharm.D., Esq.

Dearborn Advisors, LLC

# The Proverbial Low Hanging Fruit





allergy not communicated

ambiguous drug order

no maximum dose warnings

unclear expression of drug concentration

Inadequate practitioner orientation

Patient Information System

Communication System

Drug Info System

Drug Labeling System

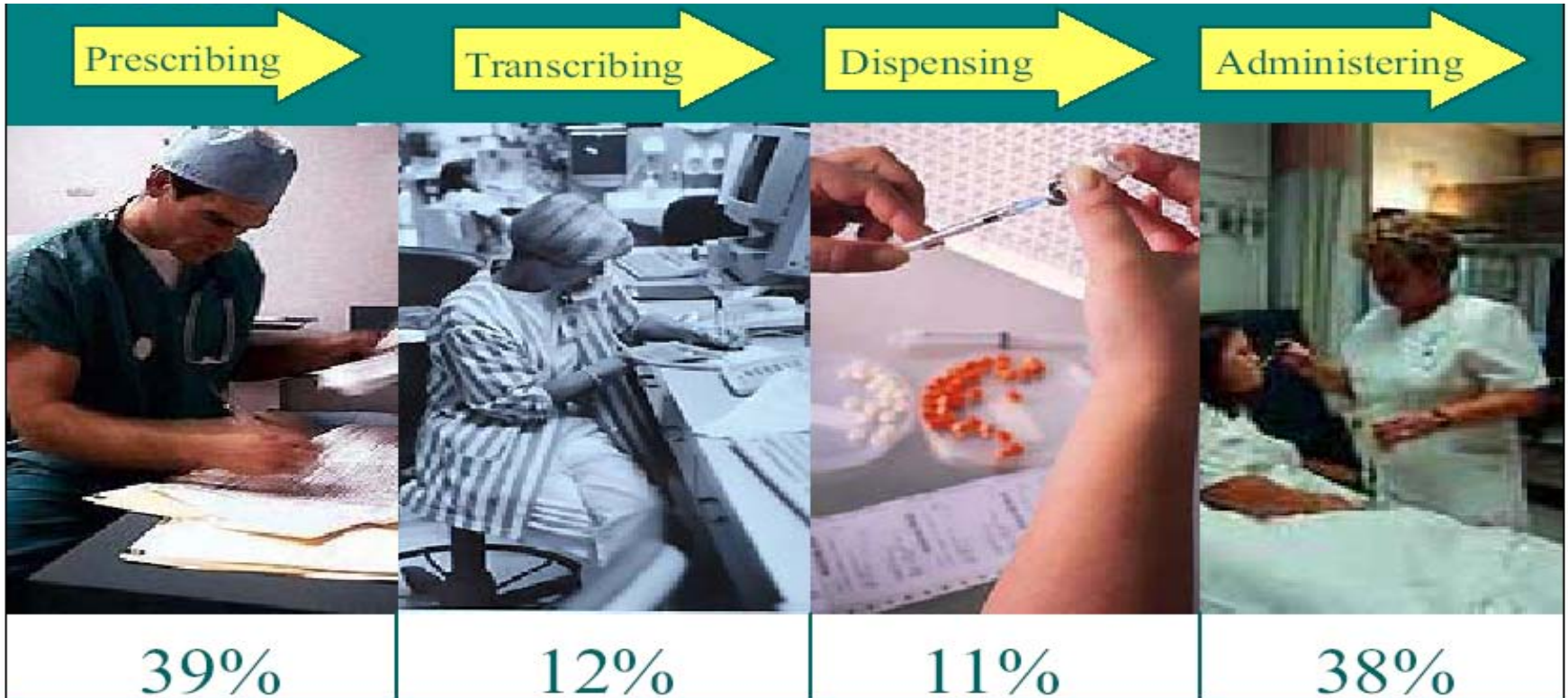
Other systems

The latent failure model of complex system failure

*modified from James Reason, 1991*

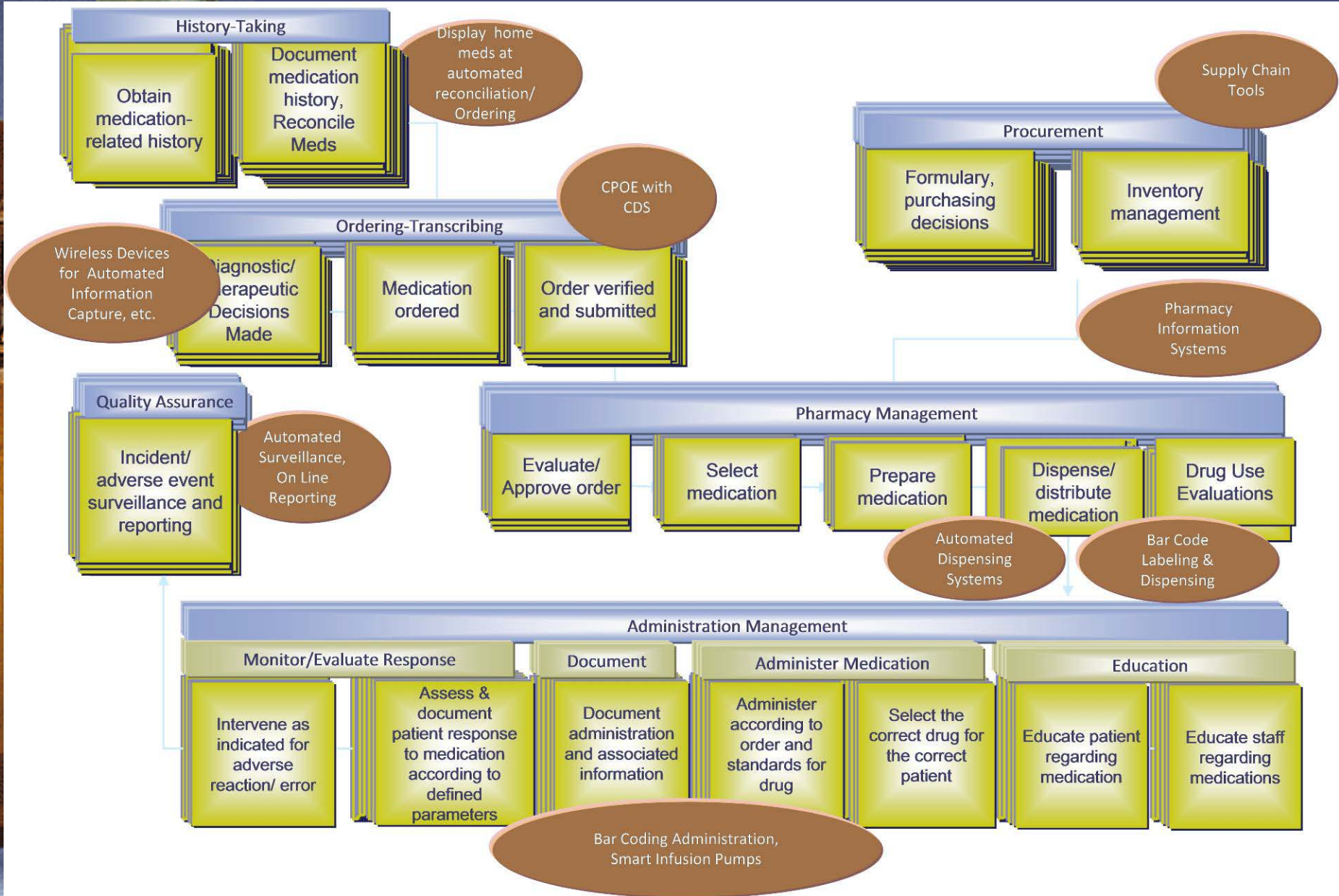
*Courtesy of ISMP*

# Where Medication Errors Occur



JAMA 1995 Jul 5;274(1):29-34

# Medication Use Process – Enabling Technology Touch Points



# The 36 Rights

Nurse reviews EMAR for Medications to be administered



Nurse scans bar coded Employee ID badge

Identifies provider

Nurse scans patient arm band



Right Patient

Patient list of medications displays on handheld scanner



Right Medication



Right Dose



Right Route

Nurse scans each medication



Right Time



Nurse resolves alerts, completes documentation on handheld scanner and signs

Medication administration details display on EMAR for all providers



Right Documentation



What we don't want to do...

