

HIT, Workarounds and Security

NIST

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- >Co-PI, AHRQ's *Guide to Reducing Unintended Consequences of HIT***
- >Co-Investigator, NSF Project on Safe Cyber Communication of Medical Devices University of Pennsylvania**
- >Internal Evaluator, Harvard Medical School, project (SMART) to create a new HIT architecture**
- >Chair, Evaluation Working Group, & Usability TF member, AMIA**
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Announcement: *Migration of URL*

“Guide to Reducing Unintended
Consequences of Electronic Health
Records”

<http://www.healthit.gov/ucguide>

What is most common request of Health IT help desks?



What is most common request of
Health IT help desks?

What's my password?

(And I have 6 of them...and they change
monthly....and they never make any sense.)

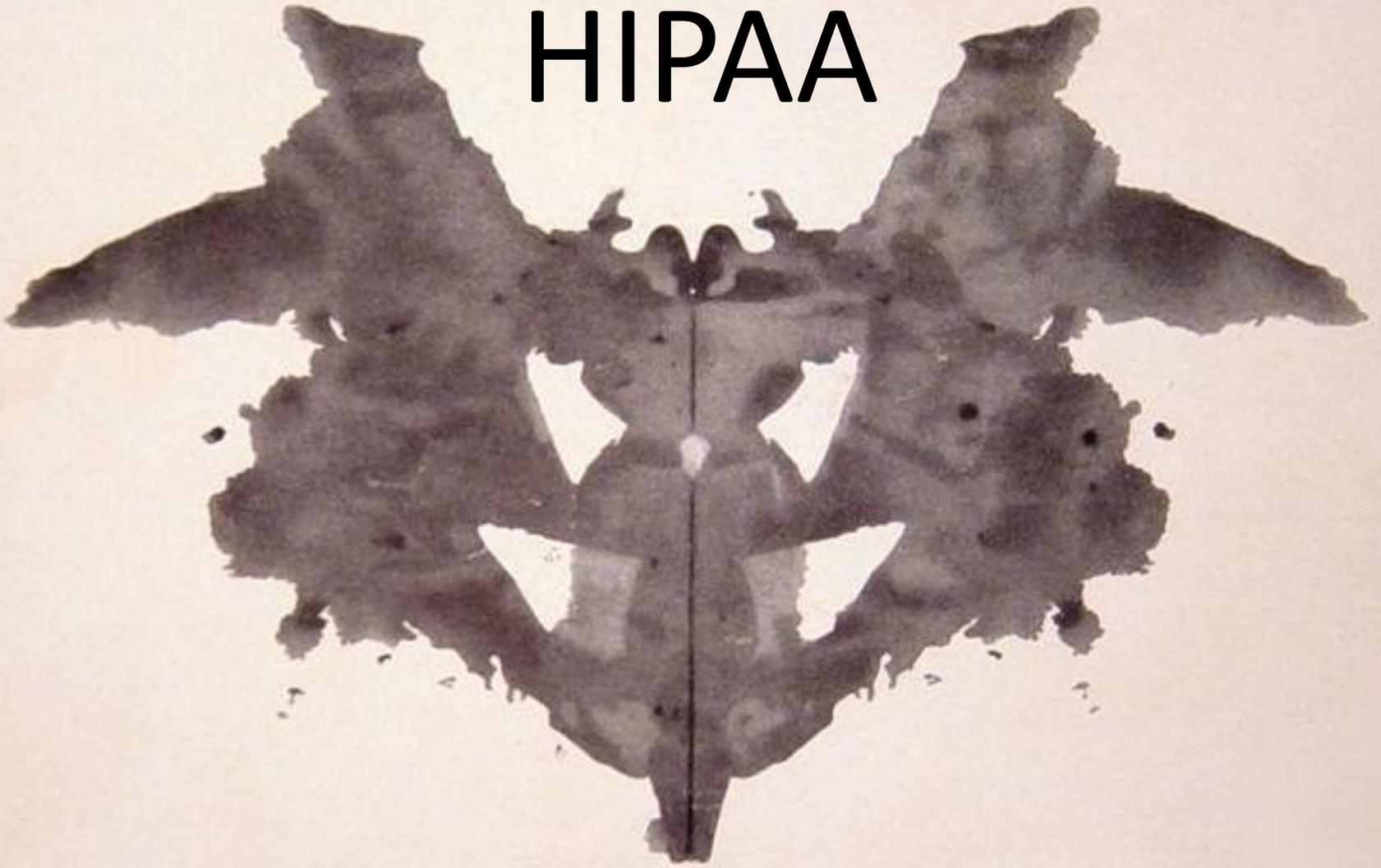
How are password violations etc enforced?



Depends who you know and what you were doing



HIPAA



View of passwords inside the supply room



“Simulated” to avoid ethical violations and jail





(CC)
TALK TO ME BIG







But



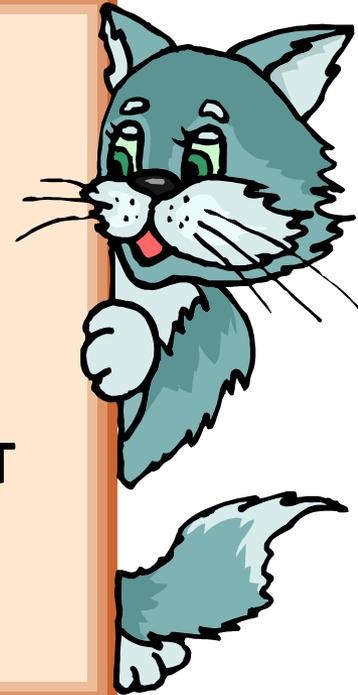
Access Policy Decisions

Policy Making

Workaround
Realities



**WORKAROUNDS TO
BARCODE MEDICATION
ADMINISTRATION
SYSTEMS: THEIR
OCCURRENCES, CAUSES,
AND THREATS TO PATIENT
SAFETY** by Koppel et al



Circumvention & Workarounds Rule (the Rule)

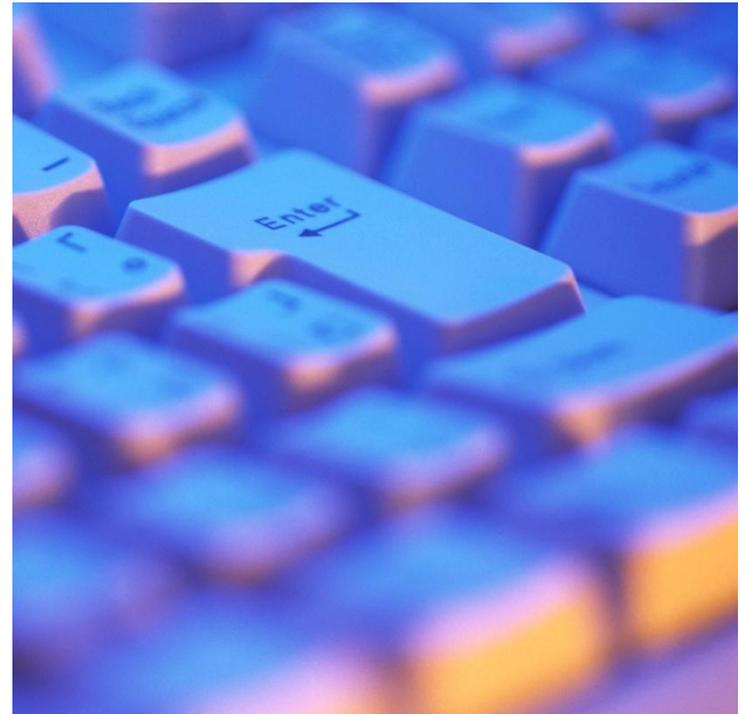


Circumvention (2): Attending's Daily Reviews of Emergency Department Residents' Cases

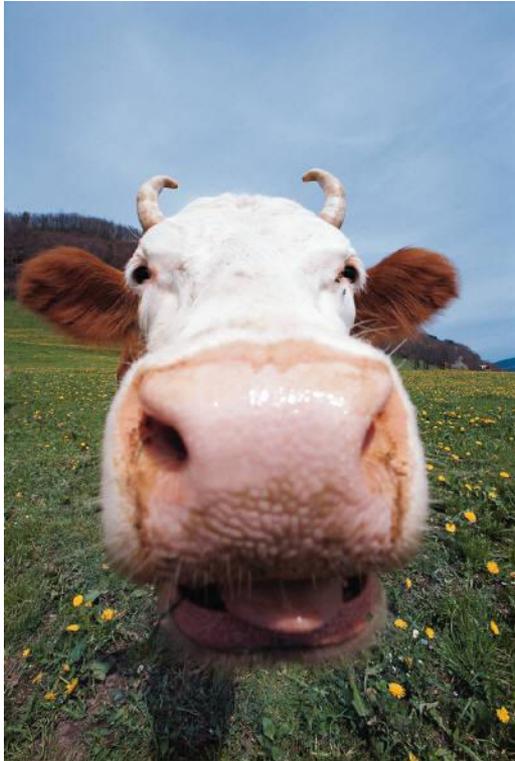
OLD



NEW



Stories to learn?



Medication
barcodes:
crinkled,
smudged, torn,
missing, covered
by another label

Don't forget to scan
label!





Patient barcodes affixed to:

RN clipboard



Scanner itself



In nurses' pockets



Belt-rings



Worn as bangles



More places we found extra copies of pt. barcodes (1st workaround, continued)

- Nurses' desk
- Medication cart
- Supply room
- Med dispensing machine
- Doorjamb
- Baby crib
- Other places...





*Code: 43L, 23R, 2L
Key under coffee pot*

*Code: 43L, 23R, 2L
Key under coffee pot*



Solutions

- Workflow Workflow Workflow

- Existing Workflow?



- Emerging Workflow
 - With technology
 - With GOOD technology



Thank you.

Questions?

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