

The Three Amigos Wade into the Fray

-or-

Tres amigos y enemigos ilimitados

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Disclosures – Jeffrey Fudin, PharmD, FCCP, FASHP, FFSMB

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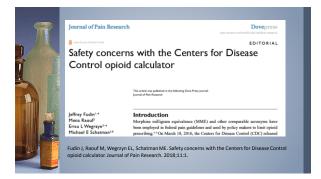


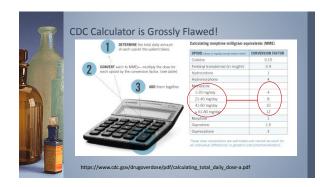
I've been asked to address 3-questions...

- > Objectives:
 - -Are there flaws to MEDD?
 - Given that CDC suggests UDM without standards on interpretation, has this created a problem?
- -CDC mentions in-home naloxone, but have they fallen short on guidance?
- > Answers: Yes, yes, and yes!!!

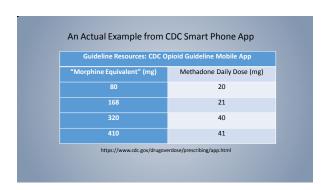


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The MEDD m	yth: the impact of pseudoscience
on pain resear	ch and prescribing-guideline
development	. 30
	This article was published in the following Dow Priess Journal. Journal of Pair Research: 32 Means 2014. 23 Means 2014. Hydrible of Erman this broads has been rivered.
Jeffrey Fudin ¹ Jacqueline Pratt Cleary ²	With the opioid-misuse and -abuse problem on the rise, pain practitioners a lawmukers are scrambling for strategies to help mitigate opioid risks. Approach
Michael E Schatman ³	include opioid-treatment agreements, urine drug testing, prescription-monitoring p
Western New England University College of Pharmacy, Springfield, MA, "Stratton VA Medical Center, Albany, NY, 'US Pain Foundation, Bellevut, WA, USA.	grams, assorted validated risk-assessment tools for abuse misuse and opioid-induc respiratory depression (OIRD), biopsychosocial support, and other strategies. ¹⁸ Not pisted pain therapies should be considered and maximized prior to initiating opio treatment; however, in some cases opioids are the optimal choice for both noncam







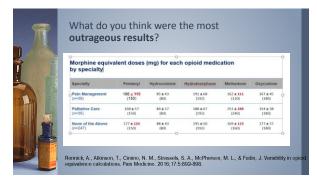




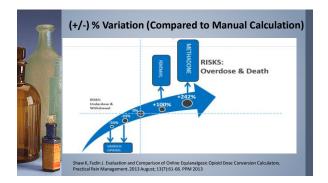
Variability in Opioid Equivalence Survey

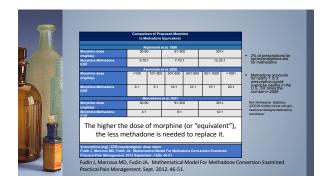
- Sept 13 thru <u>December 31, 2013.</u>
- 411 Respondents, adjusted after stats to 319
- RPhs, MD/DOs, NPs, PAs
- Convert to Daily MEQ:
- -Hydrocodone 80mg; Fentanyl 75mcg/hr; Methadone 40mg; Oxycodone 120mg; Hydromorphone 48mg

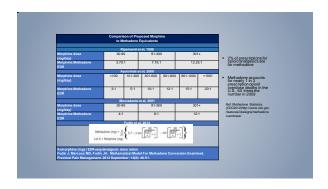
Rennick A, Atkinson TJ, Cimino NM, Strassels SA, McPherson ML, Fudin J. Variability in Opioid Equivalence Calculations. Pain Medicine. 2016;17:892–898.

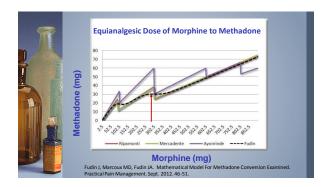


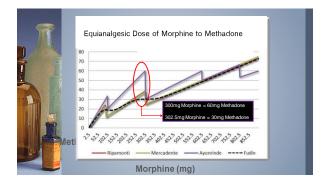


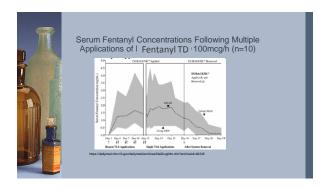


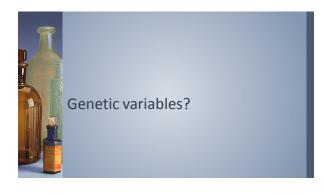














UDM Interpretation without Standards is like...

- > Aunt Jemima pancakes, without the syrup
- > Spring without the Fall

		Chromatography [se	nd out]	
Test	Result		Test	Result
Opiate	Negative		Fentanyl	Positive
Benzodiazepines	Negative		Hydrocodone	Negative
Methadone	Positive		Methadone	Negative
PCP	Positive		Alprazolam	Positive
Cannabinoids	Positive		PCP	Negative
Venlafaxine (Effexor®) 250mg Fentanyl (Duragesic®) 50mcg Hydrocodone + APAP (Lortab Alprazolam 0.5mg PO TID	/hr changed Q72 I		Cannabinoids	Negative

Negative for Prescribed Medications Positive for unprescribed and illicits > Lack of hydrocodone PRN use > Pharmacokinetics (when was urine collected?) > Noncompliance (illegally obtained drugs) > Test is not specific for the drug tested (opiate vs. synthetic, in this case fentanyl) > False positive PCP > Drug-drug, drug-disease, drug-food/supplement interactions > Drug metabolic pathway > Genetic polymorphism

DO NOT FALSELY ACUSE PATIENTS WITHOUT EVIDENCE!





RIOSORD

- > 2-major studies (linear regression multivariate analysis)
 - VA population (17 questions/115 highest possible score)
- General population (16 questions/146 highest possible score)

Zeder, Barbara, et al. "Development of a Risk Index for Serious Prescription Opioid-Induced Respiratory Depression or Overdose in Veterans' Health Administration Patents'. Pain Medicine 16 8, 2015; 1586-1579.

Magiara P. Joyse, Amurriele L. Caroli M. Caroli M. Patend M. Zeder B. Risk inclose for serious prescription opioid-induced respiratory depression or overdose: Comparison of commercially insured and Veterans Health Affairs populations. Pain Medicine. 2017. In press.

Zedier B, Saunders W. Joyse A. V. C. C. Murrelle L. Validation of a screening risk index for serious prescription opioid-induced respiratory depression or overdose in a U.S. commercial health plan oik index discbases. Pain Medicine. 2017. In

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VA Population Design (17 questions/115 highest possible score)

Case control analysis

8,987 veteran patients included

10 controls assigned to each veteran included

Variables were selected for the risk index model Based on logistics regression modeling

Each variable was assigned a point value

Point values added up to scores Scores were then defined by predicted probability

Zedler, Barbara, et al. (2015): 1566-1579.



VA Population Results und? Size grows the palmet consume An electrical consume Alexandron' (Methodore in a large-colleg specific so disc chess' (SREA formulation' (I) Alexandron' (Methodore in a large-colleg specific so disc chess' (SREA formulation' (I) Chycolard (if it is as an ESEA formulation) (a), ChyCorlif also chess' (SREA formulation' (I) Chycolard (if it is as an ESEA formulation) (a), ChyCorlif also chess' (SREA formulation) An electrical consumers An electric



VA Population Results Zedler, Barbara, et al. (2015): 1566-1579.

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Non-VA Population (16 questions/146 highest possible	le score
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- Retrospective case-control study of 18,365,497 patients
- IMS PharMetrics Plus integrated <u>commercial health</u> plan opioid claims in the U.S. 90% predictability
- 7,234 patients experience OSORD
- OSORD found to be associated with:
- ER/LA opioid formulations
 Daily morphine equivalence dose
 Interacting medications
 ED visits and hospital admissions
 Coexisting health conditions

OSORD - Overdose or Serious Opioid-induced Respiratory Depression Zedler, Barbara K., et al. "Validation of a Screening Risk Index for Serious Prescripti Commercial Health Plan Claims Database." Pain medicine (Malden, Mass.) (2017).



General Population Results

- > Retrospective case-control study of 18,365,497 patients IMS
- > PharMetrics Plus integrated commercial health plan opioid claims in the U.S.
- > 7,234 patients experience OSORD
- > OSORD found to be associated with:
 - ER/LA opioid formulations
- Daily morphine equivalence dose
- Interacting medications
- ED visits and hospital admissions
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