# ALCOHOL SCREENING AND BRIEF INTERVENTIONS FOR COLLEGE STUDENTS

**Healthy Knights** 

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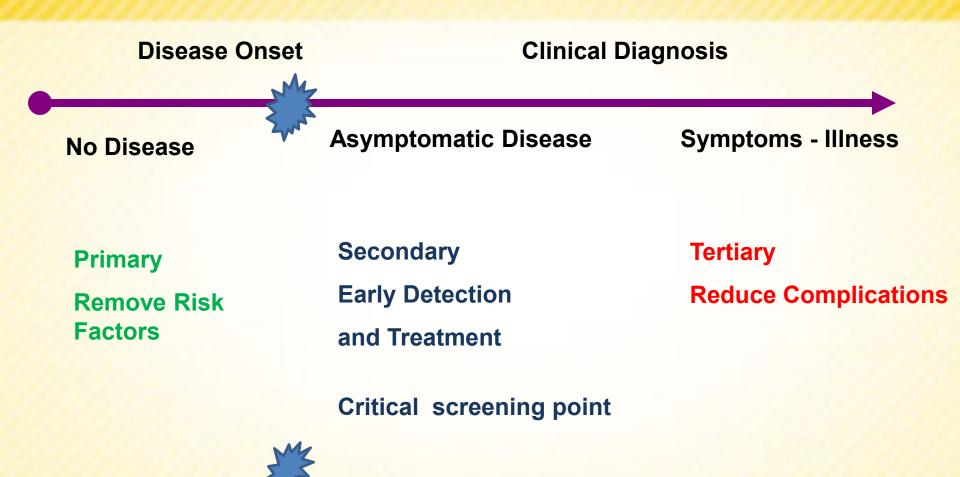


"Look children, this is all I'm going to say about drugs and alcohol...Stay away from them... There's a time and a place for everything...and it's called college."

# Chef, South Park



# PREVENTION





# **Universal Screening**

- Attempt to reach all patients
- Routine
- Simple to implement, brief
- Relatively inexpensive
- Employs test with high specificity and sensitivity
- Detects disease of sufficient importance at an early enough stage to prompt available treatment that significantly improves health outcomes.



# **Recommendations to do SBIRT**

- USPSTF
- NIAAA
- SAMHSA
- IOM
- WHO
- ASAM
- CDC

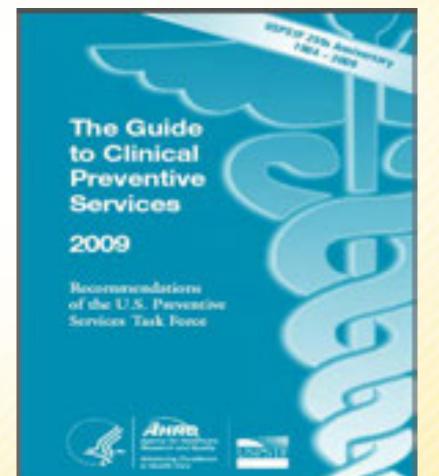


# The Guide to Clinical Preventive Services

65 evidenced-based recommendations from the U.S. Preventive Services Task Force intended to improve health outcomes in the US

> Agency for Healthcare Research and Quality

800 358-9295 www.ahrq.gov



#### PREVALENT

#### TREATABLE

#### HARMFUL

#### E-B BRIEF SCREENING INSTRUMENT

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Healthy Knight's Che	ck	list
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PROVIDER/PLANE DATE		

# U N I V E R S A L



# **Prompts to Assess Alcohol History**

- Routine examinations
- Before prescribing any medications
- Problems that might be alcohol induced or related
  - <mark>– Ins</mark>omnia
  - GI, liver disease
  - <mark>– Arrhy</mark>thmia
  - Trauma
  - STI



# ALCOHOL MISUSE

USPSTF Grade B Recommendation:

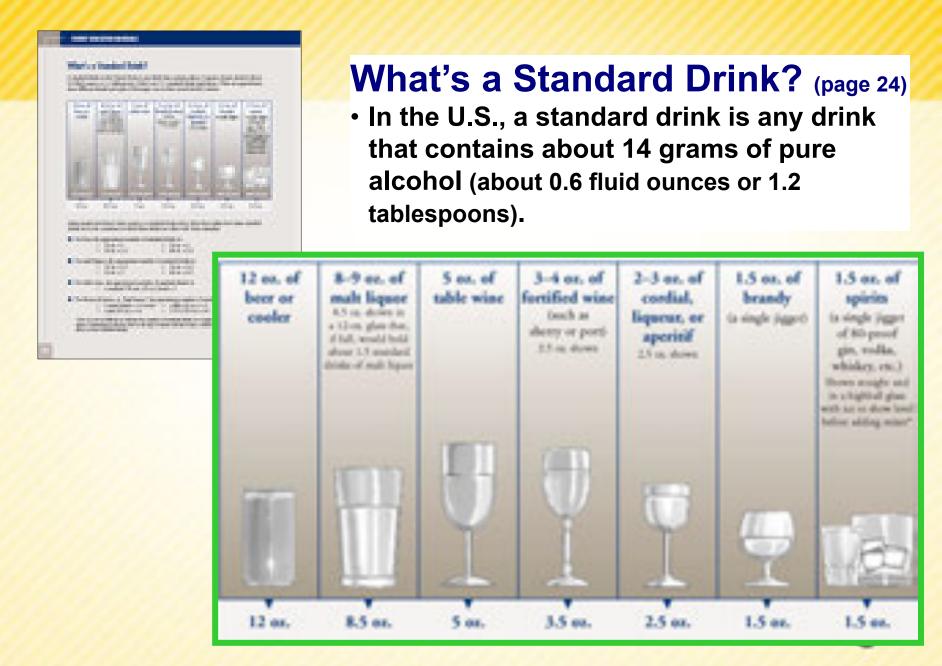
Recommends screening and behavioral counseling interventions to reduce alcohol misuse by adults in primary care settings.

- "5/4" High-risk drinking
- Drinking above recommended limits
  - > 7 drinks/week women
  - > 14 drinks/week men
- Alcohol Abuse
- Alcohol Dependence





#### WHAT'S A STANDARD DRINK?



# Alcohol Use Disorders - DSM

- 20% prevalence in college
- Alcohol Abuse

One or more of 4 R's: risk of harm; relationship trouble; role failure; run-ins law

Alcohol Dependence (4-6% prevalence)

–3 or more criteria: withdrawal; tolerance; unable to stick to limits; unable to cut down or stop; continued despite problems; drinking consumes much time; neglecting other important or pleasurable activities



# **HIGH RISK DRINKING - COLLEGE STUDENTS**

- "5/4" past 2 weeks: 44% (CAS x 4, 1993 2001)
- "5/4" frequently: 23% (CAS 2001)
- Death: 1,825 college students ages 18 -24
- Injury: 600,000 injured due to drinking 696,000 hit/assaulted by drinker
- DUI: 28.9% (SAMHSA 2005)
- Sexual violence: 97,000 victims alcohol related sexual assault or date rape
- Academic impairment

Hingson et al. J. Stud. Alcohol Drugs, Supplement No.16: 12-20, 2009



# ROUTINE ALCOHOL SCREENING IN COLLEGE POPULATION

Foote, J. A national survey of alcohol screening and referral in college health centers. Journal of American College Health, Jan-Feb 2004;52:149-158
•249 HC surveyed
•32% screen, only 12% used standardized instrument, mostly CAGE.
•Only 28% offered access to campus programs

Winters, K., et al. Screening for Alcohol Problems Among 4-Year Colleges and Universities. JACH. 2011;59(5):350-357

•333 HC surveyed

•56% screen, 44% used standardized instrument, mostly CAGE, then AUDIT.

Only 20% used author's recommended AUDIT, CAPS, CUGE, RAPS



# **GENERAL POPULATION**

Hingson, R., et al. Young adults at risk for excess alcohol consumption are often not asked or counseled about drinking alcohol. J Gen Intern Med 2012;27:179-84 •66% of adults 18-39 saw a provider in past year but only 14% who exceeded alcohol limits remembered being asked about drinking and advised.

#### CDC:

McKnight-Eily, L., et al. Communication between health professionals and their patients about alcohol use – 44 States and D.C., 2011. Vital Signs Report, MMWR, Jan. 7, 2014;63:1-7

 Adult drinkers all ages only 17% had ever talked with provider about alcohol use and only 9% in past year

 Adult drinkers 18-24 only 28% had ever talked with provider about alcohol use and only 16% in past year

•Only 35% of those who reported binge drinking 10 or more times in past month had this dialogue

# **Brief Evidence-based Screening**

- CAGE. Developed 1972. Appropriate only to screen for AUD. Poor sensitivity to detect drinking, and failed to detect 69% problem drinkers
- **CUGE**. Uses D**U**I, validated in large college sample. Aetgeerts, et al. Alcohol Clin Exp Res. 2000;24:53-57
- Single question screen, "5/4" or "5 or more"
   Williams R., Vinson D., J Fam Pract. 2001;50(4):307-312
   Taj, et al. J Fam Pract. 1998;46(4):328–335
   Fiellin, et al. Arch Int Med. 2000;160:1977-1989



# AUDIT

Cutoff score 4> women 8> men

	nover that is correct for yo			
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New	Monthly or Less	Two to four times a month	Two to these times per week	First or then times a week
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3. How often de-	you have six or more drinks	feoliacog yeu eo		
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# AUDIT-C

- How often do you have a drink containing alcohol? 0-4
- How many drinks containing alcohol do you have on a typical day when you drink? 0-4
- How often do you have 5 or more drinks on one occasion? 0-4

Cutoff score 3> for women and 4> for men



# ALCOHOL SCREENING & INTERVENTION IN A COLLEGE CLINIC



James F. Schaus, M.D., Principal Investigator, UCF Natalie Mullett, M. Ed., Project Coordinator, UCF Mary Lou Sole, Ph.D., UCF Thomas P. McCoy, M.S., Wake Forest University Mary Claire O'Brien, M.D., Wake Forest University

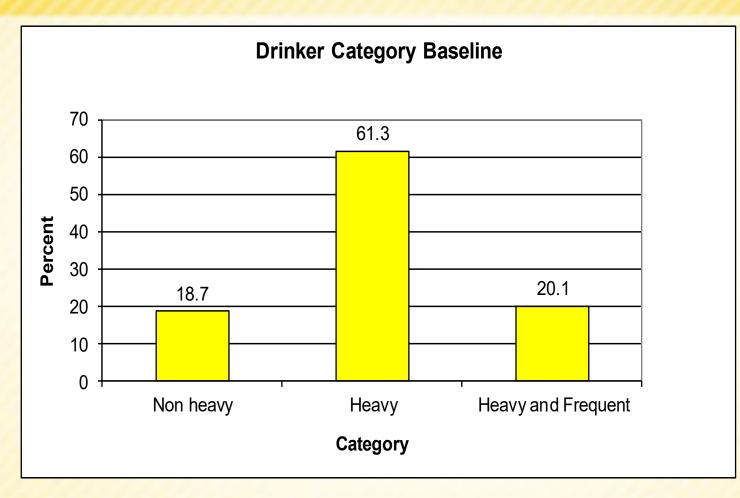
NIAAA Grant Number: 1 U18 AA015673-01



# "5/4" SCREENING FOR HIGH-RISK DRINKING

- "5/4" "During the past two weeks have you had 5 or more (for men) or 4 or more (for women) drinks containing alcohol in a row on at least one occasion?"
- Brief quantity, frequency, and binge drinking questions are best to detect high-risk college drinking as first line inquiry (NIAAA)
- Asking about alcohol use in the context of other health behaviors (smoking, exercise, nutrition, depression) more accurate

# **DRINKER RISK CATERGORY - BASELINE**

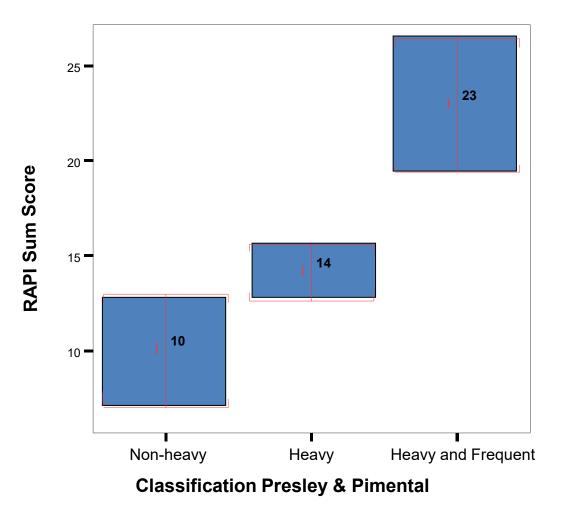


Categories based on Presley, C., Pimentel, E. Journal of Studies on Alcohol. 2006;67(2), 324-331



# **HEAVY & FREQUENT GROUP HARMS**

Error Bars show 95.0% Cl of Mean



#### 20% SAMPLE, 31% HARMS



# 2 QUESTION SCREEN FOR HIGH-RISK DRINKING

- 1. "5/4" question
- 2. "In a typical week do you drink on 3 or more occasions?"

Conclusion: "5/4" screen accurately identified students experiencing significant alcohol-related harms, and the addition of the frequency question identified students at highest risk and in greatest need of intervention

Schaus et al.. Screening for High-Risk Drinking in a College Student Health Center: Characterizing Students Based on Quantity, Frequency, and Harms. *J Stud Alcohol Drugs,* Suppl ement No.16, 34-44, 2009



# **UCF ALCOHOL SCREEN/ACTION**

#### SCREEN Two question alcohol screen

#### ACTION

#### Brochure "Drinking: What's Normal, What's Not" Provider delivered BI Schedule follow-up BI, "Healthy Lifestyle" visit Offer referral to AOD "REAL Project "



# **Transition Screening to Intervention**

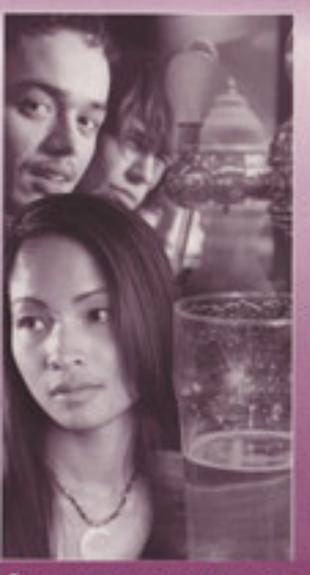
"We ask everyone about drinking, we want you safe" "Tell me about this "5/4" response"

"Typically drink what, how much, how often?"

"As your clinician, I am concerned about your drinking" Then elicit change talk from patient...

- What do <u>you</u> think about your...drinking, blackouts, broken wrist, GPA?
- What do you like about drinking?...Not like?
- What are your goals (re career, health, alcohol)?
- What is a realistic plan for you regarding future drinking ?
- Who are people in <u>your</u> life who will support <u>you</u> in <u>your</u> efforts to drink less or not at all, etc.
- On 1-10 scale, how ready are you to make any changes?

#### Alcohol Use and You Decisions on Tap



American College Health Association

# Drinking What's Normal What's Not

Brochure at www.etr.org

# **REAL ASSISTANCE**

#### 'Healthy Lifestyle Planning for substance use

Excellion: The REAL Project is located in the Counseling Building the entrance to our office is located read to the Student Health Center Pharmacy! Contact Information: The REAL Project 407-823-0879

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# RCT - 2 Brief (20 minute) Interventions

- 4 P.C. providers (ARNP, PA, 2 MD) trained in MI
- "Gateway" HL issues (weight, nutrition, sleep, stress, depression, smoking, other drug use)
- BASICS in MI framework
  - Student-centered imperative
  - Connect imperative
- Focus on harm reduction, protective factors
- Healthy Lifestyle Questionnaire
- Alcohol Use Calendar TFB
- "Participant Feedback" document with goal



# **Provider Delivered Intervention**

#### **BASICS**, non-confrontational, harm reduction

- Personalized Normative Feedback
- Expectancies/Discrepancy with consequences
- Absorption/Metabolism
- Tolerance
- BAC cards, BA Effects
- Biphasic Effect
- Risk Reduction, Protective Behaviors
- Readiness to change



Brief Alcohol Screening and Intervention for College Students

A Harm Reduction Approach

Linda A. Dimeff John S. Baer Daniel R. Kivlahan G. Alan Marlatt



# **TFB Alcohol Diary**

- Student completes 30 day recall diary
  - #drinks over # hours each day
  - Gender, weight
- Calculate typical and peak BAC each day
- Alcohol quantity/frequency data
  - # drinking days
  - # drinks in 30 days
  - Peak # drinks on a drinking day
  - Average # drinks on drinking days
  - Average # drinks in a week
  - # days meeting 5/4 definition

Sobell, L.C. & Sobell, M. B. (1992). Timeline follow-back: A technique for assessing self-report alcohol consumption. In *Measuring alcohol consumption: Psychology and biochemical methods*. Totowa N Humana Press.

# "5/4" Baseline Drinking

No differences between Intervention and Control groups at baseline (total n=363)	<u>Control</u> Mean (S.D.) N=181	<u>Treat</u> Mean (S.D.) N=182
Typical BAC	.08 (.05)	.08 (.05)
Peak BAC	.16 (.09)	.15 (.08)
Ave Drinks Sitting	4.9 (2.4)	4.7 (2.3)
# Days Drinking/Month	9.1 (6.1)	8.2 (5.5)

# BRIEF INTERVENTION OUTCOMES

Reductions in treatment compared to control group at 3 and 6 months (p <.05 repeated measures analysis)

#### **Quantity/frequency**

- Typical BAC
- Peak BAC
- Peak drinks/sitting
- Average drinks/week

#### Harms

- RAPI 23-item score
- Times drunk typical week
- Times taking foolish risks when drinking
- Driving after 3 > drinks

Schaus et al. Alcohol Screening and Brief Intervention in a College Student Health Center: A Randomized Controlled Trial. J. Stud. Alcohol Drugs, Supplement No. 16, 34-44, 2009

# U. Wisconsin

- RCT of clinician delivered SBI at 5 College Health Clinics, n=986
- BI: 2 x 15 minute visits and 2 phone calls
- MI based
- Results at 12 months, reductions in treatment group v. control (p<.05):</li>
  - 28 day drinking totals
  - RAPI score

Fleming M., Brief Physician Advice for Heavy Drinking College Students: A Randomized Controlled Trial in College Health Clinics. J Stud Alcohol Drugs. 2010 January; 71(1): 23–31.

# Top 5 components of BI

Motivating behavior change:

- Normative feedback summary of the patient's drinking level
- 2. Discuss drinking likes and dislikes
- 3. Discuss life goals (discrepancy)
- 4. Encourage a risk-reduction agreement
- 5. Asking patients to track their drinking (cards)

Grossberg, P., et al. Inside the Physician's Black Bag: Critical Ingredients of Brief Alcohol Interventions. Substance Abuse, 31:240-250, 2010

# AOD at UCF

- Located within Health Services
- Licensed substance prevention, intervention providers
- Referrals, voluntary, or mandated services
- Other substance use screening
- Assessment: Heavy episodic, abuse, dependence

Acute health/safety concerns- Immediate clinical assessment Academic or interpersonal harms- Stress consequences of drinking Less acute- Emphasize harm reduction and use protective factors

- CBT strategies and Motivational Enhancement Therapy
- If serious abuse or dependence, may refer to community services

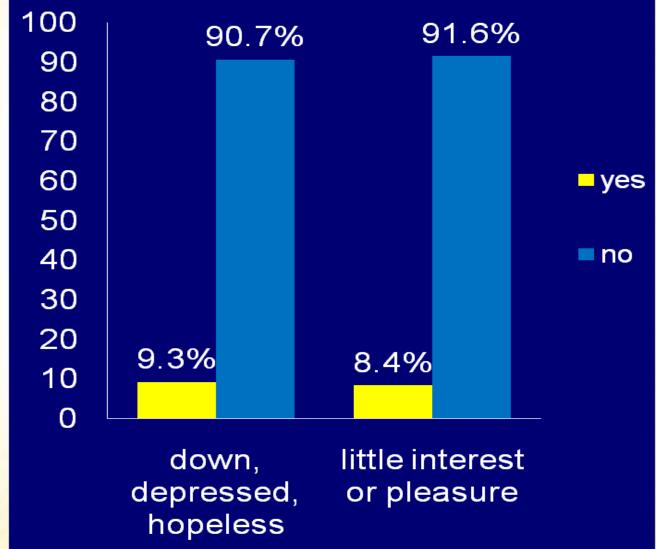


# **UCF DEPRESSION - ALCOHOL**

17.7% overall screen positive with PHQ-2

23% overall meet "5/4" HR drinkng

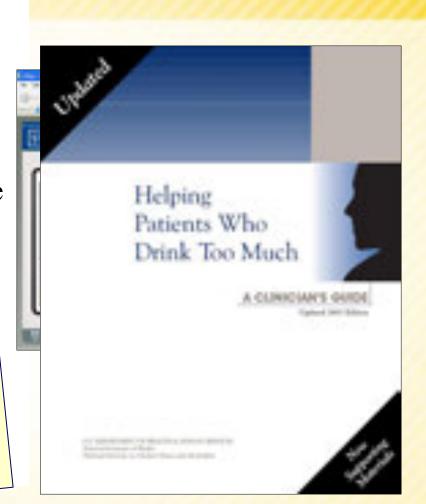
33% of the depression group meet "5/4" HR



# Using the NIAAA *Clinician's Guide*

#### A note to Instructors:

This slide show is a companion to the NIAAA introduces a new free online training resource:
Video Cases based on the Clinician's Guide
Free CME/CE credits offered by Medscape.com
For details and links, visit www.niaaa.nih.gov/guide



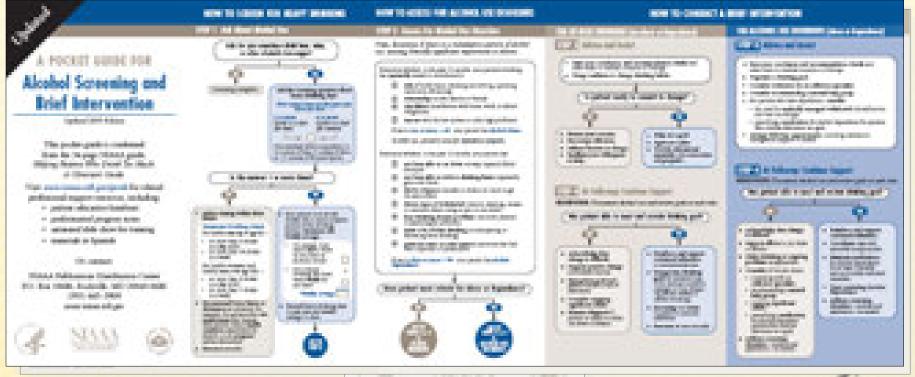


# **NIAAA SBI Summary**

- Screen with past year "5/4"
- Average days/week drinking x typical #drinks/day = weekly average #drinks (7/14)
- Assess for AUD Abuse with 4 R's (1 or more) and Dependence (3 or more of 7 elements)
- Advise and Assist for either AUD or At-risk
  - Clearly state conclusion and recommendation
  - Assess RTC and explore barriers to change
  - Set goal and plan, possible referral if severe AUD
  - Continue track drinking and follow-up



### NIAAA also offers a condensed Pocket Guide. It features the same step-by-step format and includes the medications chart and other supporting materials.





# To order free copies of the Guide, Pocket Guide, or the CD, contact NIAAA...

# By mail

NIAAA Publications Distribution Center P.O. Box 10686 Rockville, MD 20849-0686

**By phone** 301-443-3860

Online www.niaaa.nih.gov/guide



# **Time and Money**

- Studies with "Brief" interventions averaged 6-15 minutes
- Can be provided by
  - other health professionals on team
  - electronically (e.g. normative feedback on quantity and frequency via web portal)
- Build into EMR
- ACA requires insurance plans to cover SBI without copayment
- CPT codes 99408, 99409



# **PUTTING SBIRT INTO PRACTICE**

- Use evidence-based routine brief screening
- Develop a rapid effective response to screening with further assessment and BI
- Overcome barriers to implementation
- Train staff in BASICS and MI
- Coordinate team of health services, counseling, wellness, academic and educational resources
- Champion alcohol prevention to sustain the effort
- Create a healthy campus one patient at a time



# AN OUNCE OF PREVENTION IS... ...A TON OF WORK

