

What to Assess

- Severity of Tobacco Use Disorder (Level of Dependence)
- Motivation to Quit
- · Financial Implications
- Medical Consequences
- Psychiatric Consequences
- · Other Tobacco Use
- · Quitting History

Tobacco Use Disorder

DSM 305.1

Most tobacco users are addicted (2 or more)

- withdrawal
- tolerance
- desire or efforts to cut down/ control use
- great time spent in obtaining/using
- reduced occupational, recreational activities
- use despite problems
- larger amounts consumed than intended
- Craving; strong urges to use

DSM-5

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Nicotine Pharmacology

Pharmacology depends on delivery route Reaches brain in 10 sec Half-life 2 hours Metabolized to cotinine in liver

Routes of Drug Administration

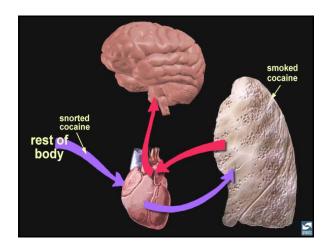
- Ingestion
- Inhalation

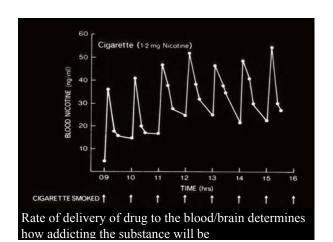
Which is fastest?

- Injection
- Snorting
- Through skin

Smoking is Fastest Route of Administration Inhalation injection injection ingestion i

2





Tobacco Withdrawal

4 or more

Depressed mood Insomnia Irritability, frustration or anger Anxiety Difficulty concentrating Restlessness

Increased appetite or weight gain

Fagerstrom Test for Nicotine Dependence (FTND) 1. How soon after you wake up do you smoke your first cigarette? (0) after 60 minutes (1 hour) (1) 31 to 60 minutes (2) 6 to 30 minutes (3) Within 5 minutes 2. Have you found it hard to refrain from using tobacco in certain places (forbidden situations; i.e., movies, church, library, smoke-free building)? (0) No (1) Yes 3. Which cigarette would you hate most to give up? (1) The first one in the morning (0) Any others

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- 4. How many cigarettes do you smoke each day?
- (0) 10 or less
- (1) 11 to 20
- (2) 21 to 30
- (3) 31 or more
- 5. Have you smoked more frequently during the first hours after waking than during the rest of the day?
- (0) No
- (1) Yes
- 6. Have you smoked if you were so ill that you were in bed most of the day?
- (0) No
- (1) Yes

FTND Scoring and Interpretation

- Your level of dependence on nicotine is:
- 0-2 Very low dependence
- 3-4 Low dependence
- 5 Medium dependence
- 6-7 High dependence
- 8-10 Very high dependence

Heatherton et al., Br J Addiction 1991

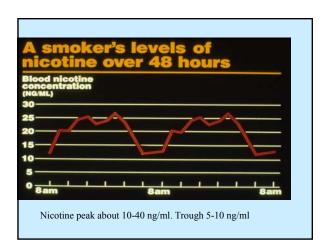
Heaviness of Smoking Index Measure of Dependence

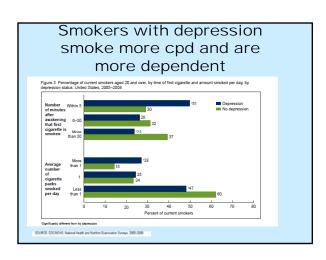
Number of cigarettes per day (cpd)

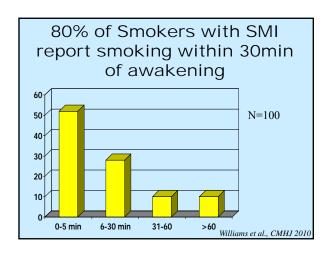
AM Time to first cigarette (TTFC)

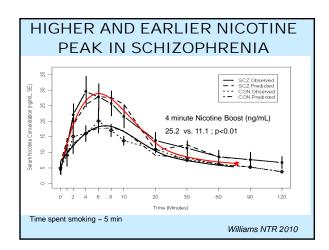
- \leq 30 minutes = moderate
- \leq 5 minutes = severe

Heatherton 1991









NRT and Agitation in Smokers With Schizophrenia:

- 40 smokers in psych ER
- 21mg patch vs placebo patch
- Usual care for psychosis
- Agitated Behavior was 33% less at 4 hours and 23% lower at 24 hours for NRT group
- Better response in lower dependence
- Same magnitude of response as antipsychotic studies Allen 2011; Am J Psych

Assessment of Carbon Monoxide

CO = product of combustion Expired CO in smokers > 4 ppm Displaces oxygen on RBCs Strain on heart, risk factor for CVD

REVERSIBLE effect

Normal levels 2-3 days (0-3ppm)

Carbon Monoxide Meters



- Cost \$600-1500
- Cardboard mouthpiece
- Easy to use
- CO ppm (or %COHb)
- Lights and tone

Purposes:

- Document smoke exposure
- Confirm abstinence
- Motivator

Stages of Change Prochaska and DiClemente

• Precontemplation

not thinking of stopping in next 6 months

• Contemplation

thinking of stopping in next 6 months

• Preparation

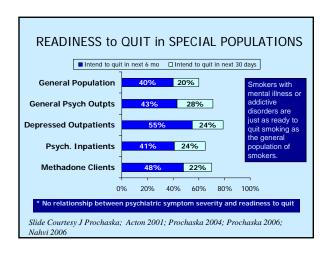
planning stop in next 1 month

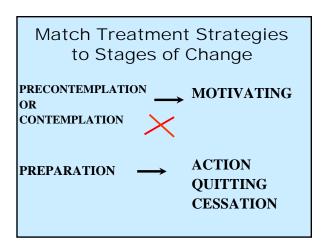
• Action

quit date

• Maintenance

abstinent >6 months







Language is Important

Tobacco Dependence Treatment vs.

"Smoking Cessation"

"Quitting"

"Stop Smoking"





Complete Wellness Approach

- LAHL developed to help low motivated smokers
- Mental health settings
- Group format
- Education on range of topics
 - Healthy eating
 - Increasing activity
 - Awareness of tobacco addiction

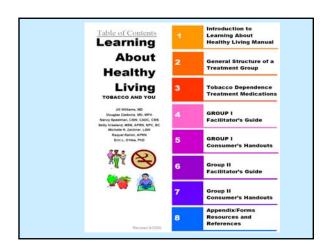
Learning About Healthy Living

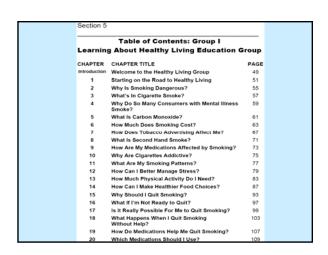
- This treatment is designed as two groups.
- Group I Learning About Healthy Living
- Group II Quitting Smoking
- It is designed so that consumers can progress from Group I to Group II, when appropriate or desired

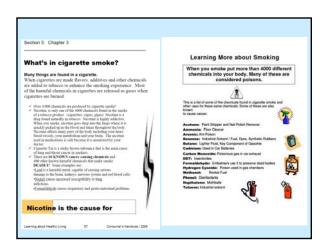
Group I: Learning About ... Healthy Living

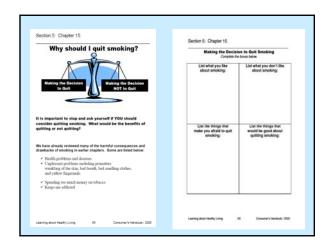
- 20 Weeks
- · Educational and Motivational
- · Accepts all smokers with SMI
- Piloted in outpatients
- Smoking within the context of Healthy Living (Exercise, stress, & diet)
- Could change the order of the sessions and some may take longer than 1 session

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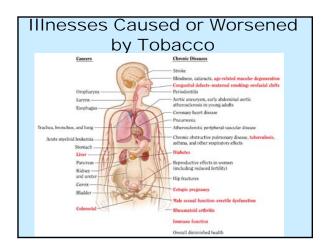






Biological Assessment

- Evaluate Tobacco Use Disorder
 - (Z72.0 Mild)
 - (F17.200 Moderate)
 - (F17.200 Severe)
- Tobacco Smoke Exposure/ Expired CO
- Nicotine Withdrawal Quitting History
- Medical Consequences of Tobacco Use



Psychological Assessment

- Motivation to Quit
- Relationship of tobacco to symptoms
- Confidence/ self-efficacy about quitting
- Alternate coping strategies

Social Assessment

- Smokers in Home
- Smoking Indoors
- Smokers in Social Network
- Smoke-Free Recreation
- Support for Quitting
- Financial Consequences

Treatment Planning in the Behavioral Health Setting

- Add Tobacco Use Disorder (305.1) to Problem List and Treatment Plan
- Complete Assessment
- Identify measurable long-term and short-term goals

{HINT: Other substance abuse goals}

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Principles of Co-occurring Disorders Treatment

- Integrated mental health and addiction services
- Comprehensive services
- Treatment matched to motivational level
- Long-term treatment perspective
- Continuous Assessment of substance use
- Motivational interventions
- Psychopharmacology
- Case management
- Housing

Treating Tobacco Cost Effective

- For every \$1 spent, statewide heath care costs ↓ by \$3.60 (California 2000).
- MA Medicaid, use of a comprehensive tobacco cessation pharmacotherapy benefit was associated with a \in claims for acute MI and CAD (Land 2010).
- Tobacco dependence treatment less costly than screening mammography and other measures
- If all smokers enrolled in Medicaid programs stopped smoking, the Medicaid program would save \$9.7 billion after 5 years. (Legacy 2009)

Government Publications Say this Should be Paid For

- Public Health Service clinical practice guidelines on Treating Tobacco: <u>comprehensive coverage of effective</u> <u>tobacco-dependence medications and counseling by health</u> insurers
- Healthy People 2010: objective for Medicaid programs to cover all FDA approved medications and counseling for tobacco cessation yet even as recently as 2007, <u>only six</u> states do



Fiore 2008; MMWR 2009

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Reality of Today

Only 6 states have comprehensive benefit 23 states cover individual/ group tobacco counseling for all Medicaid beneficiaries.

36% of Medicaid-enrolled smokers, and 60% of physicians, knew that their State program offered any coverage for tobacco treatments

Search at ALA website

http://lungusa2.org/cessation2/

ALA 2012; McMenamin et al., 2004

Medicare Part B Coverage

- Varies for medications (poor for OTCs)
- Counseling since 2005
- 4 sessions (max 2x/year)
- · Inpatient/outpatient
- Tobacco users: have a "disease or an adverse health effect linked to tobacco
- Intermediate 99406/G0375 (3-10min); \$12.89
- Intensive 99407/G0376 (>10mins); \$20.88
- · Adjunctive to another visit

Recommendations for ideal Medicaid benefit

- Coverage of all 7 FDA approved meds
 - No PA
 - No requirement to be in counseling
 - No stepped care
 - No time limits
 - Allow combinations

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	Barriers to avoid:			
×	Co-pays			
	Prior authorization			
×	Duration limits			
×	Annual limits on quit attempts			
	Dollar limits			
	Requirements to try one medication before another			
×	Requirements to pair medications with counseling			

- Coverage of multiple options for counseling
- · Access to several courses of meds/ year
- · Access to multi-session counseling/ year
- · Low or no co-pay

ALA; PFP; Action to Quit 2010

Obama Administration Tells Health Insurers They Must Cover Evidence-Based Treatments to Help Smokers Quit (May 2014 ACA Updates)

Affordable Care Act (ACA) included language mandates coverage for all US Clinical Preventive Services Task Force (USPSTF) "A" and "B" level recommendations. (Tobacco cessation "A" level)

- 2 quit attempts must be covered each year
- at least four 10 minute counseling sessions per quit attempt (telephone, group or individual counseling)
- all FDA-approved cessation medications for 90 days per quit attempt, including OTC medications, when prescribed by a health care provider must be covered
- a prohibition against requiring pre-authorization for counseling or medication.

HHS document cites the 2008 United States Public Health Service Clinical Practice Guideline, Treating Tobacco Use and Dependence as its evidence source.

Short Term Goals

- Increase motivation about quitting
- Increase understanding that treatment works to increase chances of success in making a quit attempt
- Attend a LAHL group
- Become aware of three consequences of tobacco use
- To comply with tobacco-free policies while at treatment facility

Long Term Goals

- Quit smoking (eventual abstinence)
- Move Client to Preparation
- Make a 24 Hour Quit Attempt

Meet Mr Q

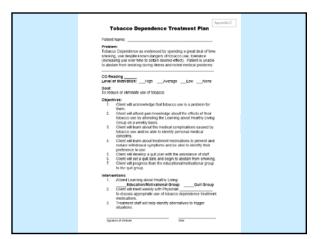
- 52 yo divorced, lives alone
- 24 cigarettes per day; TTFC 15 min
- Used patch for 2 weeks, then relapsed back to smoking
- Heart attack 5 years ago; Hypertension, High cholesterol, Hepatitis C positive
- Drinks 5 beers on weekends
- Struggling financially
- Doesn't want to quit at this time- too "stressed" but recognizes the problem

Assessment:

Level of Dependence Motivational Level

Goal:

Intervention:



Conclusions

- Assessment and documentation is important first step in systems change
- Document nicotine dependence and motivation to change
- Carbon monoxide meter powerful tool
- Match strategies to patient motivational level



