

CriticalThinkRx was made possible by a grant from the Attorneys General Consumer and Prescriber Grant Program, funded by the multi-state settlement of consumer fraud claims regarding the marketing of the prescription drug Neurontin®









#### **Brand-name** drugs

Manufacturer holds an exclusive patent to market them for about 15 years - 40% of prescription volume

- 90% of revenues



Generic drugs Once patent on marketing a brand-name drug expires, drug becomes a "generic," and sells for much less, as other manufacturers may apply to market it

(IMS Health, 2007; Pharmaceutical Executive, 2007)

#### "Blockbuster" drugs

Generate more than \$1 billion of revenue each year

Are heavily marketed, so their manufacturer can make profits during the marketing exclusivity period

7 of the top 10 companies have 1 psychotropic drug among their top 3 blockbusters

(Pharmaceutical Marketing, 2006)



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Antidepressants, antipsychotics, anticonvulsants: among top 6 drug classes sold in U.S.

(Pharmaceutical Executive, 2007; IMS Health, 2006)

#### Growing consensus:

Psychotropics are not popular because they are particularly effective

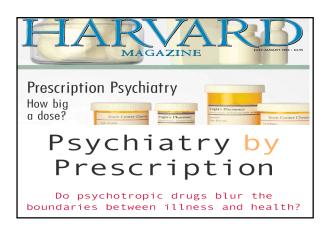
... "medicalization" and "disease mongering" also stimulate drug use "Medicalization"

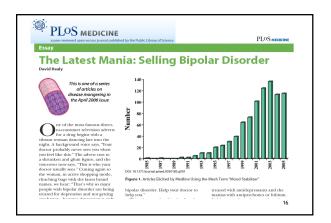
- Defining or treating a problem as a *medical* disease, requiring *medical* treatments

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#### DISEASE-IONGERS Disorders Made to Order "Disease mongering" ew strategy to market their drugs: First go out and find a new mental illness, then push Pharmaceutica pills to cure it. Brendan I. Koerner - Turning ordinary ailments into MotherJones diseases - Framing conditions as being Disease severe and widespread awareness campaigns turn healthy people into patients - Seeing mild symptoms as serious Pills are often marketed as a solution to human anxieties and dissatisfactions Owen Dyer Lo - Seeing risks as diseases (Moynihan, Health, & Henry, 2002; Moynihan, 2002) 13 14









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Drug company marketing targets all players in the health care system



## It influences physicians to prescribe through:

- Gifts:
- free lunches
- drug samples
- continuing medical education
- *payments* for lecturing, consulting and research

### It influences physicians to prescribe by:

- ✓ funding countless activities of professional organizations
- ✓ drug advertising in professional journals
- ✓ paying doctors to serve on "expert committees" that create and promote guidelines for drug treatments used by other doctors

## It influences consumers to seek drugs through:

- ✓ direct-to-consumer-advertising (DTCA)
- $\checkmark$  "disease awareness" campaigns
- $\checkmark$  funding "patient advocacy" groups
- ✓ online medical information and promotions

It influences legislators and government agencies to approve drugs and create favorable conditions for drugmakers through:

- ✓ lobbying at all levels of government
- $\checkmark$ large donations to political parties
- $\checkmark$  payment of "user fees" to the FDA

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## It influences experts to evaluate drugs positively by:

- ✓ paying researchers to run clinical trials and develop treatment guidelines
- ✓ signing "secrecy agreements" with researchers to conceal negative drug information
- ✓ paying academics and researchers to lend their names to articles they have not written ("ghostwriting")







# Doctors who meet frequently with reps:

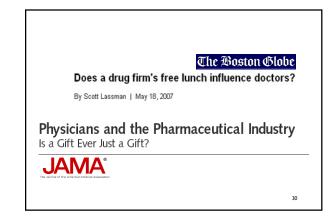
- ✓ increase prescribing of newer, costlier drugs
- ✓ reduce prescribing of generics
- ✓ increase nonrational prescribing
- $\checkmark$  use rep as main information source

(Dana & Loewenstein, 2003; Reist & VandeCreek, 2004, Schwartz et al. 2001; Wazana, 2000)

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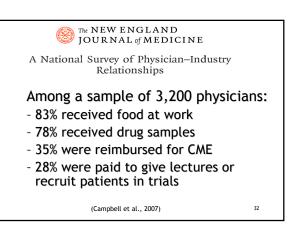
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#### 1 in 3 Minnesota psychiatrists received money from drugmakers

"One in three Minnesota psychiatrists has received funding from drug manufacturers in the past five years, including seven past presidents of the Minnesota Psychiatric Society, two state drug policy advisers and 17 faculty psychiatrists at the University of Minnesota."

(Olson, 2007)

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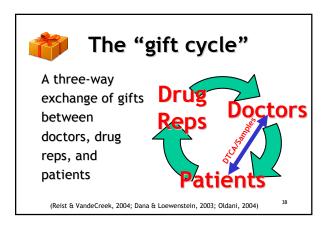


#### Small gifts are powerful

Studies suggest that the most powerful form of influence might be small gifts

The more gifts a doctor received, the more he/she believed that they had no influence on prescribing

(Reist & VandeCreek, 2004; Dana & Loewenstein, 2003; Oldani, 2004) 37





1997: FDA allows full-scale, direct-to-consumer advertising (DTCA) of prescription drugs - DTCA only allowed in the U. S. and New Zealand

(Gellad et al. 2007)

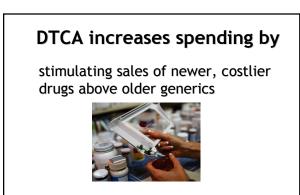
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#### DTCA increases drug use by

- ✓ encouraging people to visit doctor
- ✓ encouraging patients to request advertised drugs
- ✓ influencing doctor's behavior through patient requests

(Gellad et al., 2007; Donohue & Bernd, 2004; Wolfe, 2002; Consumer Reports, 2007)



(Gellad et al., 2007; Donohue & Bernd, 2004)

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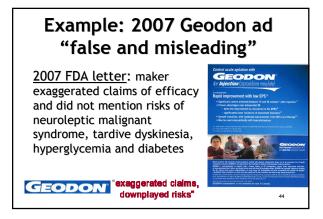
#### Accuracy of DTC ads questioned

**1995 to 2004:** FDA sent 1,359 warning letters to drug companies for <u>false or misleading</u> advertising

### Only 4 FDA staffers review thousands of ads

(Donohue et al., 2007; Zalesky, 2006)

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#### Industry funds "patient advocacy" groups

2005-2006: \$29 million to 6 groups - 7%-91% of the groups' budgets Groups rarely disclose funding Funds decline when drugmakers don't benefit

(Philadelphia Inquirer, 2006; Los Angeles Times, 2007)



NAMI, CHADD, and DPSA, among "patient advocacy" groups receiving most industry funding, promote view of distress as chronic brain disease, requiring latest drugs and neurobiological research

### Continuing Medical Education

"Educating" to expand markets?

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Medical Education Communication Companies (MECCs) earned over \$1 billion in 2004 to deliver industry-sponsored continuing medical education (CME)

(Relman, 2001; Elliott, 2004; Wazana, 2000)

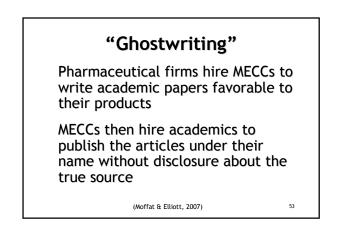
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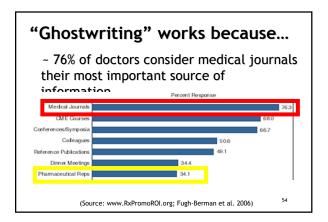
Industry-sponsored CME highlights sponsor's drugs and is associated with increased prescriptions of those drugs

(Relman, 2001; Elliott, 2004; Wazana, 2000)











#### Even without ghost-writing...

A drug firm may pay a journal \$1 million for reprints, creating enormous incentive for the journal to publish a favorable article

A former editor of *British Medical Journal* called journals "extensions of marketing arms" of drug firms and urged journals to *stop publishing all clinical trials*, and only evaluate them critically

(Moffat & Elliot, 2007; Smith, 2004; The New York Times, 2002)

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Pharmaceutical Researchers and Manufacturers of America (PhRMA) represents pharmaceutical and biotechnology companies in the U.S.



PhRMA hired hundreds of lobbyists to help pass the Medicare Part D bill in 2004

Originally estimated to cost taxpayers \$534 billion, Medicare Part D forbids the government from negotiating drug prices



PhRMA head is Billy Tauzin, former Republican congressman from Louisiana



# Large investments in lobbying

2005 - 2006: \$182 million spent on federal lobbying 2005 - 2006: \$100 million spent on campaign contributions

Sales of top 20 lobbying spenders = 77% of the US drug market

(CBS News/60 Minutes, 2007; Center for Public Integrity, 2007) 60



#### **Defending industry interests**

Main goal in 2007:

- Oppose laws that would strengthen FDA's ability to monitor drug safety
- Fight bills that would allow Medicare to negotiate drug prices, which could reduce government drug spending by 60%

(CBS News/60 Minutes, 2007; Center for Public Integrity, 2007)

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Part C Conclusions and Recommendations

#### Conclusions

Industry promotion of expensive drugs permeates all phases of the life-cycle of drugs Deceptive drug marketing is "pervective, dangerous and

"pervasive, dangerous and primarily aimed at doctors"

#### Skepticism of industry grows

Previously "hidden" practices are increasingly exposed and scrutinized

Government hearings and legislative efforts highlight concerns over public health and public spending

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#### Some doctors call for limits Asking for stringent regulation to eliminate conflicts of interest: - no gifts, no speaking at industrysponsored CME, no ghostwriting, disclose research and consulting contracts, replace free samples with vo patients

#### Medical students take action More Med Schools **Only 5 of 116** Show Pharma The Door medical schools got July 2nd, 2007 8:56 am By Ed Silverman an "A: for having a Last month, the American Medical policy restricting Student Association <u>ranked</u> med drug industry schools based on their freebie access to students policies, using a PharmFree and faculty scorecard. Since then, several schools reacted with embarrassment over their rankings. 66

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#### But medical schools lag behind

- The International Committee of Medical Journal Editors (ICMJE) requires full disclosure of drug companies' role in research
- But even major journals still can't ensure transparency

(Rivera & Cummings, 2002)

- A study of 108 medical schools' agreements to conduct research for drug firms found that ICMJE guidelines were rarely followed
- Researchers have little access to data or power over publishing

(Schulman et al., 2002) 67

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#### States attempt legislation and sue drug firms

Most states have introduced bills or resolutions aimed at marketing

Several states are suing drugmakers for off-label promotion of antipsychotics and for hiding drug risks (see Module 5)

(Reist & VandeCreek, 2004; Zalesky, 2006)

#### 9 in 10 Americans favor reforms

Consumer Reports survey finds strong backing for drug reforms

As Congress prepares to vote on the most significant prescription drug safety legislation in 45 years, a new Consumer Reports poll finds that the American public strongly backs a number of reforms. Safety issues rose to the top, with 9 of every 10 Americans supporting reforms that would require warning labels and follow-up studies on drugs with safety problems, and public disclosure of all clinical drug trials.

ConsumerReports (2007)

#### Recommended reforms to research

Create a public registry of all clinical trials

Fund clinical trials publicly, and cease drugmakers' ties to clinical research Make *raw* clinical trial data accessible for independent analyses

(Antonuccio & Healy, 2008; NJPIRG Law & Policy Center, 2006) 70

#### **Researchers' commitment?**

Because research participants expose themselves to risk, information derived from them should not be misused, suppressed, or distorted

Researchers should promise to make all raw research data available publicly, or forego approval from Institutional Review Boards

(Antonuccio & Healy, 2008)

## Teach prescribers, academics and consumers to:

✓ critically evaluate drug marketing

- ✓ rely on independent sources of information
- ✓ implement best practices to minimize industry influence in schools, professional organizations, and mental health providers

(NJPIRG Law & Policy Center, 2006)

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