





Top 20		2011	2011	% Growth
10p 20		Rank	Sales	2011
Global		(US\$)	(US\$BN)	(LC\$)
Global	Global Market		855.5	4.8%
Therapeutic				
Therapeutic				
Classes	Oncologics	٠,	62.2	5.5%
Classes		2	39.4	7.3%
	Respiratory Agents	3		
	Antidiabetics	4	39.2 38.7	11.4% 3.7%
	Lipid Regulators			
	Antipsychotics	5	28.4	9.4%
	Angiotensin II Antagonists	6	27.4	-0.7%
	Anti-Ulcerants	7	26.9	-6.4%
	Autoimmune Agents	8	24.4	14.1%
	Antidepressants	9	20.4	-1.5%
	HIV Antivirals	10	17.4	9.5%
	Platelet Aggr. Inhibitors	11	16.4	4.1%
	Anti-Epileptics	12	14.1	10.1%
	Vitamins & Minerals	13	13.9	6.1%
	Vaccines	14	13.4	13.0%
	Narcotic Analgesics	15	12.3	0.7%
	Cephalosporins	16	12.0	0.6%
	Non-Narcotic Analgesics	17	11.8	3.8%
	Multiple Sclerosis	18	11.7	15.8%
Source: IMS	Hospital Solutions	19	11.4	7.9%
Health MIDAS	Anti-Rheumatics, Non-Steroidal	20	10.8	5.4%
December 2011				

Global Pharmaceutical Market By Region Market size (2011) Forecast % growth (2012-2016) Forecast % growth (2012) \$955.5 Global 3-4% 3-6% North America \$347.1 1-2% 1-4% \$265.4 0-1% 0-3% Europe Asia/Africa/ \$165.2 10-11% 10-13% Austrialia Japan \$111.2 0-1% 1-4% Latin America \$66.7 13-14% 10-13% Source: IMS Health Market Prognosis, May 2012 Barts and The London www.smd.qmul.ac.uk





Examples

- a. What is the role of the pharmaceutical industry in contemporary society? What is the relationship with medicine?
- b. Why has the pharmaceutical industry grown in western society? How is this different elsewhere?
- c. What health problems do pharmaceutical companies focus on and why?
- d. What are the interests of different stakeholders (e.g. shareholders, doctors, regulators, patients, public) in this expansion?

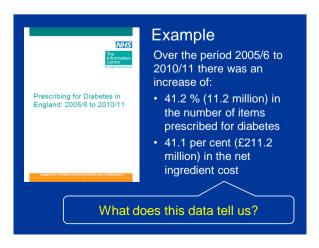
When you have completed the reading and participated in the taught components for this week, we hope you will be able to....

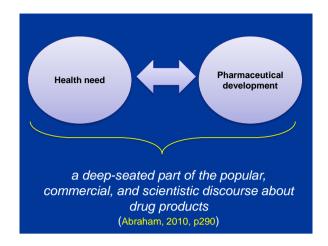
Outline different proaches to thinking about the work, power and impact of the pharmaceutical industry in relation to Industry, illness and medicine.

Critically reflect upon the relationship between patients / patient organizations and the pharmaceutical industry

















Marketing diseases (not just drugs)



'widening the boundaries of treatable illness in order to expand markets for products' (Moynihan 2002)

Seeding trials





The STEPS trial was a seeding trial, used to promote gabapentin and increase prescribing among investigators, and marketing was extensively involved in its planning and implementation.

Shaping trial outcomes



- Trials design bias
- Multiple trials with predictable outcomes
- · Scientific misconduct
- Interpretive and rhetorical effects
- Publication bias

Pharmaceutical company funding of clinical trials is strongly associated with published results favouring those companies' interests



B. Changing relationship with state regulatory agencies

- Reduced regulatory hurdle and increased the dependency of regulatory agencies on industry
 - Large financial stake in agencies
 - Increased speed of drug approvals
- Globalisation of established models of regulation



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Corporate bias?

From Evidence to Memory: Neo-Liberal Corporate Blas as a Framework for Understanding UK Pharmaceuticals Regulation – Response to Alison Edgley

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Barts and The London

- Historical analysis of regulatory change
- Corporate bias
- Most important factor was influence of pharma industry:
 - ✓ Privileged strategic access
 - ✓ Decisive in determining regulatory policy outcomes

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C. The role of the media DTC advertising = media as marketing tool Marketing through education, information Provides diagnostic validity (particularly for new drugs) Coverage contradictory, but tends to serve pharmaceutical interests Www.smd.qmul.ac.uk

'the latest lifestyle "wonder drug" to hit Britain'

- British newspaper coverage of the drug Modafinil, that promotes wakefulness
- Media communicates market potential
 - Medical conditions++
 - Lifestyle
 - Military uses
 - Competitive spot

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D. Drugs for non-medical purposes

- · Creation of new consumer markets
- Enhancement (augmentation)
 - Cosmetic surgery
 - Prescribing (e.g. human growth hormone)
 - Non-medical use e.g. modafinil







**The potential market for Modafinil...extends far beyond the boundaries or confines of the doctor's surgery or sleep clinic, including a significant 'lifestyle' market...as with a range of other so-called 'enhancement' technologies designed to make us 'better than well' or 'better humans'...if not 'better than human'

E. Drug innovation

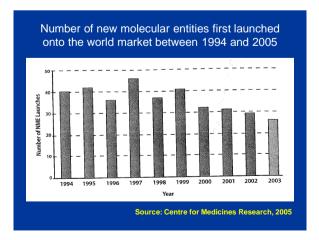
- Key role of the future in shaping the present
 - Drug developments (e.g. pharmacogenetics)
 - Hope for patients and public
 - Policy planning
- Specific focus on one path potentially rules out other options



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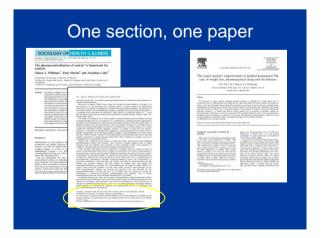


- Required to demonstrate quality, safety, and efficacy of new products
- Product innovation is the key for pharma
- Similarity e.g. me-too's'
- Little requirement to demonstrate therapeutic advance
- No available data on new drugs that offer therapeutic advance in EU and Japan (some in US)









Virtual seminar discussion

Read the set reading. Consider how the role of patients and consumer groups DOES or DOESN'T support pharmaceuticalisation:

- Lead to post position (c200-300 words)
- One volunteer to post a counter-argument
- Others to review/reply



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Patients and pills

According to Busfield (2006), pills are....

- frequently taken by those whose problems might be better dealt with by other means
- · have unwanted side effects
- frequently produced and prescribed in doses that are far too high
- often prescribed for far too long

What role do patients have in this process?









Challenge to biomedicalism and an extension of medicalisation

Pharmaceutical industry seeks to shape science and knowledge, about products through various means

Pharmaceuticalisation is a socio-technical process

De-pharmaceuticalisation is possible

The media and medical profession play a role

What role do patients and consumers groups have in the process of pharmaceuticalisation?

Ethical issues are present in ANY kind of research... informed consent is key...



Choose one of the following questions...

- 1. What do you understand to be the difference between 'illness' and 'disease'?
- Outline what you understand by the term 'profession' and consider the key sociological concepts and thinkers relevant to analysing professions and their relevance to contemporary health care
- 3. Why is it useful to study patients' subjective illness experience?

Guidance

- Write an essay of up to 2000 (BSc) / 3000 (MSc) words, not including abstract, references, tables or diagrams.
- Include one reference to the virtual seminar discussions relevant to your example/question
- Guidance provided for EACH of the specific essay questions
- Guidance relevant to ALL questions (e.g. on presentation and referencing)
- All available on QMPlus

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