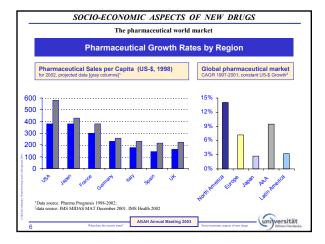
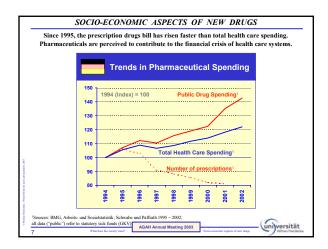


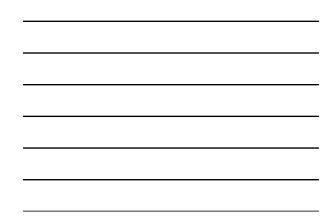
NEW DRUGS AS A COST DRIVER

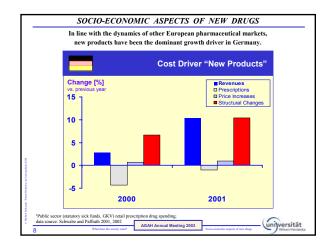
¬ Health Care Market Dynamics



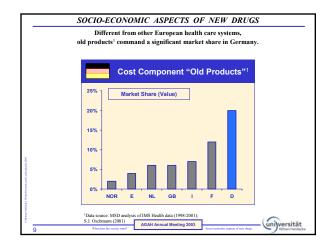




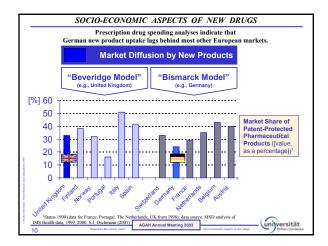




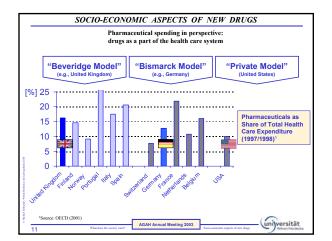




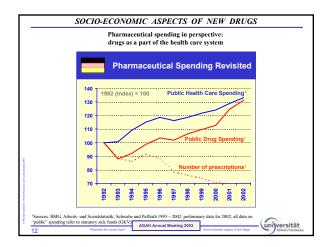


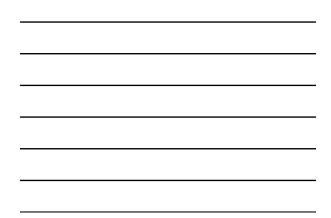


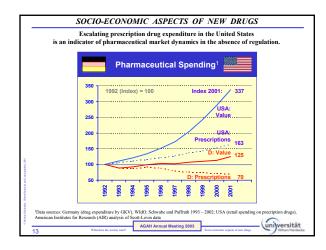




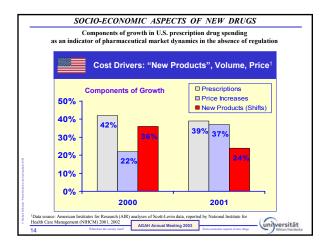




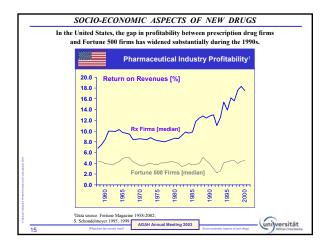


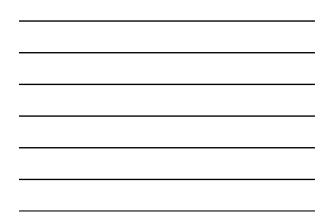






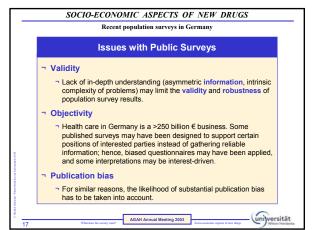


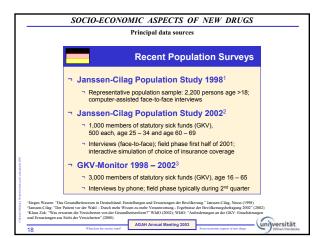




SOCIETAL PREFERENCES

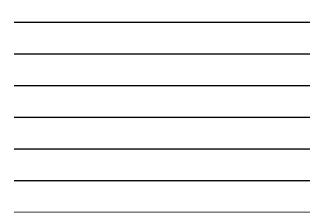
¬ Recent Population Surveys

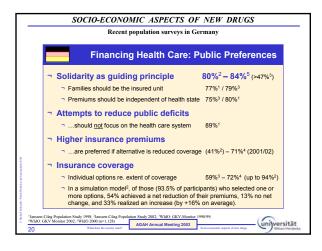




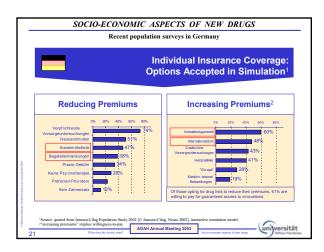


Recent population surveys in Germany		
Health Care System: P	ublic Perceptions	
Satisfaction with health system	74% ¹ (1998)	
 High quality of health care provision 	52%4 / 86%1 (2002/1998)	
 Overall situation has deteriorated 	68% ² (2001)	
Overall situation will deteriorate	59% ⁴ (2002)	
 Perception of unequal access ("fairness") 	58% ¹ / 61% ⁴ (1998/2002)	
 Awareness of inefficiency / waste of resources 	61% ⁴ / 76% ¹ (2002/1998)	
¬ Health insurance		
Awareness of moral hazard / "free rider behavior	" 76% ¹ (1998)	
Health insurance premiums will rise	76% ² - 91% ⁴ (2001/2002)	
 Health care coverage by (statutory) sick funds has <u>not</u> been reduced 	65% ³ / 39% ⁴ (1998/2002)	
Health insurance coverage will be reduced	71%4 (2002)	

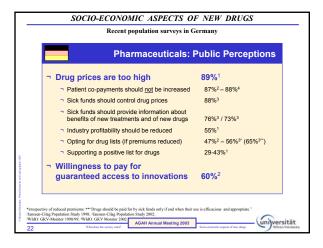


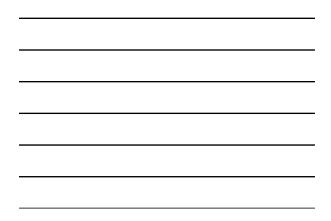


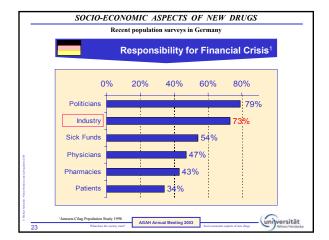




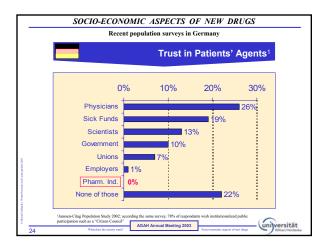




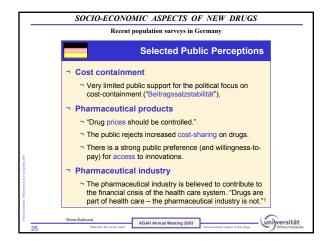










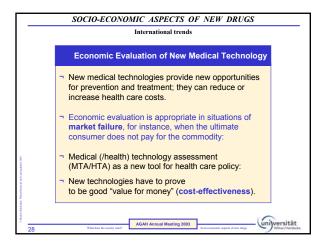


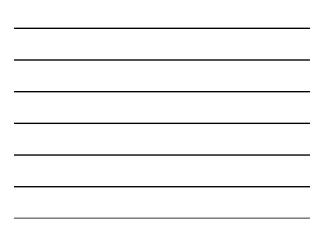


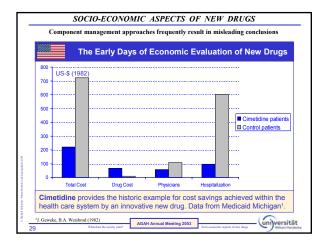
	Societal Preferences
	Societal Preferences
¬ Fair	distribution of health care services
he	eople think the efficiency with which society distributes ealth care resources must be balanced with the erceived fairness, or equity, of this distribution.
- Give	priority to severely ill patients
⊐ ev	ven when their care is less cost-effective
	d discrimination against people with nic illness or disability
¬ e	ven when their treatments are not cost-effective

ECONOMIC IMPACT OF NEW DRUGS

 Relating Costs to Effectiveness



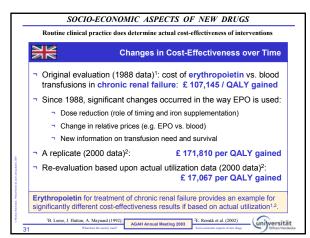


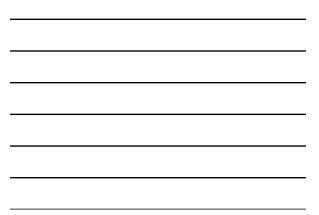




	Substantial benefits may accrue outside the realm of third-party payers
	A Case for a Broad Perspective in Economic Evaluations
g w p	tholinesterase inhibitors (e.g., donezepil, rivastigmine, and alantamine) have been shown to improve cognition in patients with mild to moderate Alzheimer's disease. Benefits include rolonged time that patients have without severe disease, and ecreased burden of caring for patients.
С	nternational modeling studies have indicated cost-savings ompared to no treatment, resulting from the delay in time until III-time care in patients will be required ¹ .
ir	cost-savings have been found to be sensitive to the cost of stitutional care. Extent and type of formal care available in ifferent health care settings varies substantially ² .
	g treatment of Alzheimer's Disease may provide substantial savings on al and informal care, even though conclusive German evidence is lacking



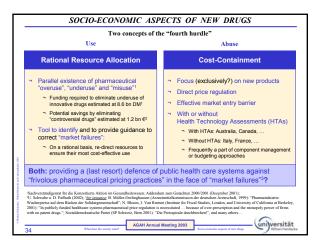


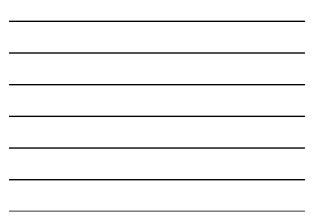


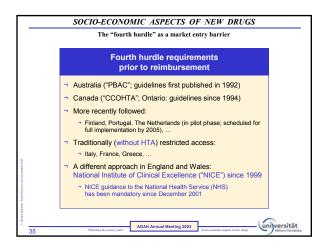
	SOCIO-ECONOMIC ASPECTS OF NEW DRUGS Economic evaluation of new medical technologies	
	Key Questions Addressed	
	1. Safety	
	 Does it harm? (controlled conditions) 	
	2. Efficacy	
	Can it work? (controlled conditions)	
	3. Effectiveness	
and Landon lightle it a 2.0	 Does it work and is it safe? (normal practice) 	
efferde de	4. Efficiency	
	□ Is it cost-effective?	
32	Was door for society war? AGAH Annual Meeting 2003 Scoresumeric arpent of war days.	

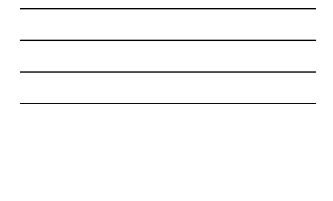


THE CONCEPT OF THE "FOURTH HURDLE"



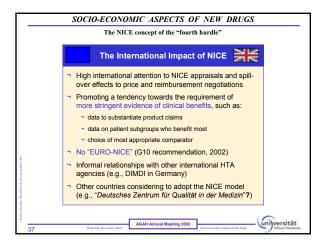








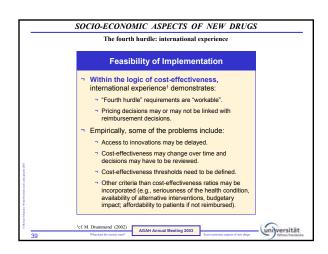






The concept of the "	fifth hurdle"
Budgetary Impact ('	'Affordability")
 Rationale: Without the over cost-effectiveness analysis opportunity cost of adopti 	cannot identify the
In practice: Can the new i the constraints of a given	
Perspective of the third-	party payer
Part of the appraisals p	erformed by NICE
Mandatory in Australia	and Finland
Potentially restricted view	<i>r</i> :
Might foster a tendency to r interventions and fall behind	
¹ Budgetary impact considerations implicitly playee "life style" products such as Viagra [®] was denied in ² Australian and Finnish guidelines do not request d impact analyses. AGAH Annual Meet	Germany and elsewhere. lata on societal benefit within budgetary







fourth hurdle as a barrier to market entry: experience and is
Access to Innovation
 Empirical evidence shows that "fourth hurdle" requirements, including direct price regulation, at or prior to market entry or reimbursement does lead to delayed access to new medical technology:
 Early examples from Australia¹ included finasteride (for BPH), sumatriptan (for migraine), beta-interferons (for multiple sclerosis), dornase-alpha (for cystic fibrosis).
More often than total refusal, however, restrictions in use have been placed on new products (e.g., proton pump inhibitors as second line therapy (Kustralia) or gencitabine for pancreatic cancer in patients with Karnofsky status <u>50</u> and acety(cholinesterase inhibitors for Alzheimer's disease in patients with an MMSE score >12 [United Kingdom]).
In contrast to these effects, public preference has been identified for free access to innovation.



Th	e fourth hurdle as a barrier to market entry: experience and iss	ues
	The Paradox of the Fourth Hurdle	
	¬ Health economic appraisals at the time of or before market entry are prone to error:	
	 "Internal" versus "external" validity of data: The experimental context of clinical trials does not represent actual practice (utilization). 	
	 Highly selected patient populations 	
	Fixed dosing regimens	
	 Multiple protocol-induced biases in treatment 	
100	 High prevalence of specialized investigators 	
	 Over-reporting of non-clinically relevant events 	
2	 Focus on intermediary instead of long-term outcomes 	
	 Valid health economic assessments need to be based upon actual practice. 	
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	SOCIO-ECONOMIC ASPECTS OF NEW DRUGS
	The fourth hurdle: experience and issues
	Cost-Effectiveness Thresholds
	To make incremental cost-effectiveness ratios relevant, a criterion – threshold(s) – need(s) to be defined above which medical interventions are deemed less efficient.
	Empirically, such thresholds vary considerably:
	☐ In New Zealand, PHARMAC uses NZ-\$ 20,000 / QALY gained ¹
	In Australia, the PBAC has used thresholds in a range between A-\$ 42,000 / LYG and A-\$ 76,000 / LYG ²
	In the United Kingdom, NICE uses a threshold of approximately £ 30,000 / QALY gained
	¬ In the United States, US-\$ 100,000 / QALY has been suggested ³
	Some of the issues include the justification of thresholds, their flexible use (according to which additional criteria?), consistency with other sectors of public spending, and the consideration of societal values and preferences.
42	C. Pinchaid (2002), QALY: "quality-adjusted life year", "George et al. (2001), LYC: "H6 year gained" "D.M. Cacketa, M.M.Ccklein, (2001) What was nearly unit



	The fourth hurdle: experience and issues	
	Ethical Aspects	
	 While an ethical imperative can be postulated to eliminate waste and inefficient use of (scarce) resources: 	
	The "cost-effectiveness logic" is based upon (act) utilitarian thought, i.e. to maximize social utility. It is "normative" only within the boundaries of this approach (cf. "utility theory") ¹ .	
	 By definition, it does not incorporate other values neither distributional aspects ("fairness" of	
	 This explains³ why attempts to allocate health care resources purely on grounds of cost- effectiveness have failed without exception. 	
logic") owing to its focus of	jk ² reflects an even more restricted view ("medical utilitarianism" has been differentiated from "general utilita n measurable health outcomes; cf. Gramkich (1990), P. A. (Diel (2001); she term "appropriatenese" usually rele ly beneficial medical services; "hot excluding other factors; cf. A. Maynard, K. Bloor (1995) AGAH Annual Meetina 2003	



IMPLICATIONS

