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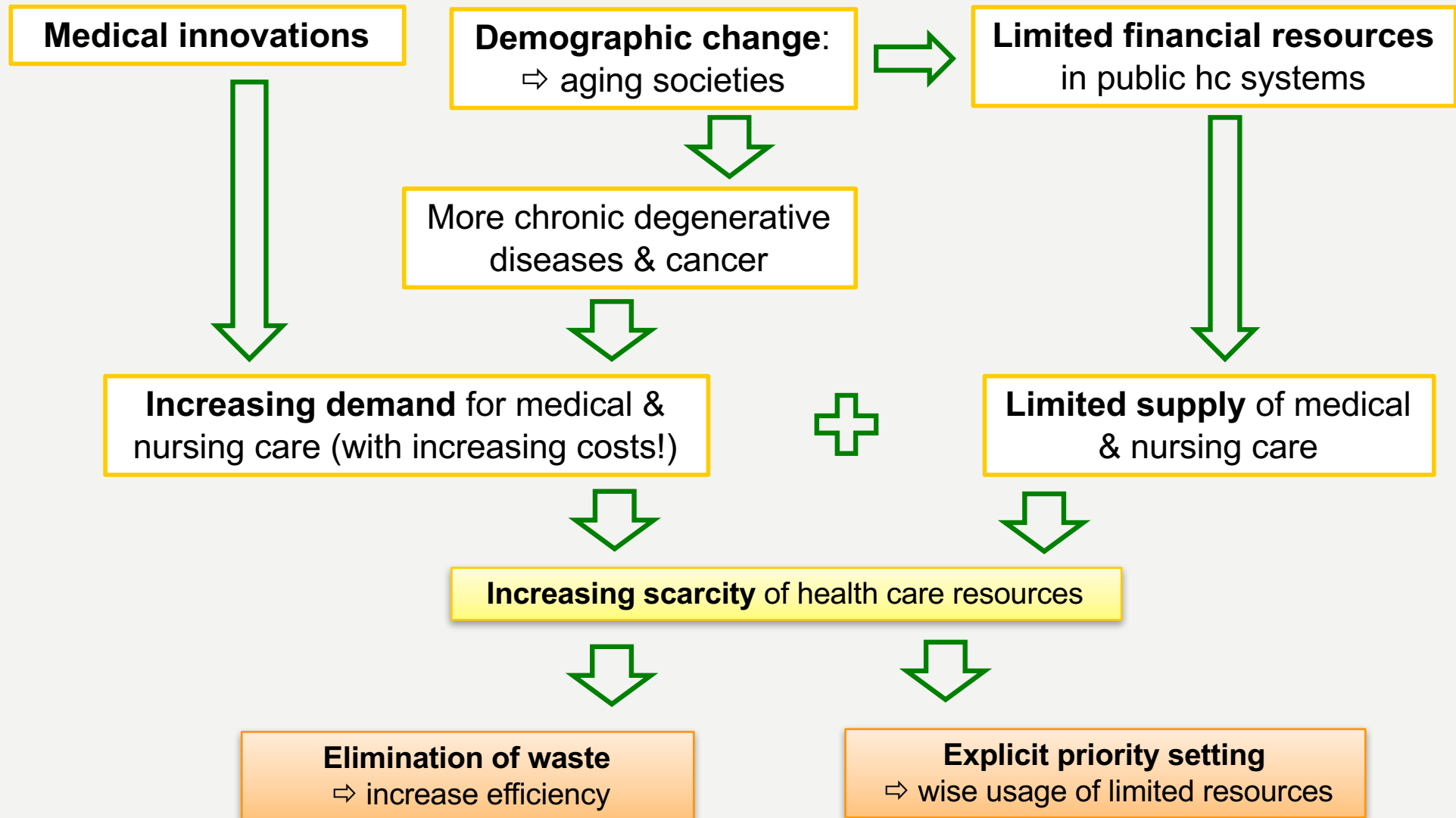
Ethical approaches to Innovation in Global Health

World Health Summit Satellite Event

“Innovation in Health: The contribution of biologic medicines
to public health“

Berlin, October 10, 2016







Explicit priority setting – Definition

- Explicit, *evidence based* determination what is more or less important in health care based on clearly defined *ethical criteria*
- ⇒ Direct limited health care resources to those areas where they are *needed* most!

Current situation in most health care systems

- *No explicit* priority setting
- ⇒ But: *implicit* priorities “implemented” in the system by financing infrastructure, reimbursement of services, regulation of providers, market expectations, etc.
- ⇒ Often does not match primary health needs of the population!
- ⇒ Today: *What role shall biologics play in the hc system?*



Priority setting – distributive justice: 3 levels

| Level | Area | Explanation |
|-------|---|--|
| 1 | Allocation of research resources | Allocation of resources <i>into</i> biologics (vs. alternative ways to promote health, prevent and treat diseases) |
| 2 | | Allocation of resources <i>within</i> the field of biologics |
| 3 | Distribution of biologics | Distribution of / access to biologics |

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Level 1: Allocation of resources *into* biologics (vs. other alternatives)

- Central issue: high investment in biologics ⇒ right priorities?
 - ⇒ Directed towards priority health needs of the population?
 - ⇒ Higher health gain if resources are invested in other approaches (including prevention)?
 - ⇒ Are existing *inequalities* in health status taken into account?

Policy options:

- (1) Explicit priority setting in public funding for research
 - Health care needs in an ageing society (chronic diseases, multi-morbidity)
 - Priority for disadvantaged (sub-)populations
 - Potential for improving health status in population
 - Priority for common diseases?
 - Cost-effectiveness (efficiency) – anticipative assessment possible?
- (2) Incentives for pharmaceutical companies to invest in areas with high priority



Level 2: Resource allocation *within* biologics

- Investment in profitable areas \Rightarrow populations with rare (genetic) profile are neglected \Rightarrow „orphan populations“
- Neglect of vulnerable, already disadvantaged subpopulations
- Research with patient subgroups beyond biologics neglected \Rightarrow **higher risks** through insufficiently tested interventions

Policy options

- Incentives for investments by pharmaceutical industry in „orphan populations“ (cf. current orphan drug regulation)
- More public research funding in (genetically) rare patient populations
- **Challenge:** increasing number of „orphan drugs“ \Rightarrow increasing public spending necessary \Rightarrow limits? priorities?



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Challenge: many innovative biologicals are expensive

⇒ Affordability: Do public hc systems have to set limits? E.g. based on cost-effectiveness assessment (cf. the NHS)?

At the time of licensing of the drug: effectiveness/benefit under routine conditions difficult to assess

- Studies for licensing: usually assess efficacy under ideal conditions
 - Selected, not representative samples
 - Surrogate endpoints instead of patient relevant endpoints (⇒ overall survival, quality of life)
 - No head-to-head comparison with standard treatment
 - Incomplete data transparency (reporting & publication bias)
- ⇒ Requirements for a needs oriented and fair allocation & distribution are often not met!



Policy options

(1) First: Improve effectiveness/benefit assessment

- Independent, publicly financed clinical studies after licensing of the drug (patient relevant outcomes)
- (Initially) coverage only in clinical studies („coverage with evidence development“)
- (Germany: benefit assessment according to AMNOG too early!)

(2) Improve decision making on the micro level

- Patients should be fully informed about benefits & risks of new treatments and alternatives (e.g. palliative care in advanced oncological disease)
- Shared decisions making \Rightarrow respect patient preferences

(3) Cost-effectiveness assessment (CEA/CUA)

- Price negotiations with pharmaceutical industry
- Consider limited coverage of interventions with bad incremental C/E-ratio
- Goal: unlimited access to *real innovations* for all patients, exclusion of „pseudo innovations“



Thank you very much for your attention!

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| Procedural criteria | Substantive criteria |
|-----------------------------|--|
| Transparency | Medical need |
| Justification | <ul style="list-style-type: none"> • severity of disease |
| Evidence-based | <ul style="list-style-type: none"> • urgency of treatment |
| Consistency | Expected individual benefit |
| Legitimacy | Cost-benefit ratio |
| Manage conflict of interest | |
| Revision & appeal | Meta criterion: |
| Regulation | <ul style="list-style-type: none"> • quality of evidence |