12th European Public Health Conference 2019 in Marseille, France: "Building bridges for solidarity and public health"

Pre-conference: HIA institutionalization and multisectoral collaboration in Europe, 20 Nov 2019

Health Impact Assessment (HIA) in context

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Presentation structure

- 1. Background, HIA and impact assessments
- 2. Governance-supporting health assessments
- 3. Commonalities / shared features
- 4. Beyond commonalities
- 5. Discussion incl. research topics

1. Background

- In all societal sectors, decision-makers often give too little consideration to health issues
- Quality-assured knowledge ("evidence") on health tends to be underutilized for decision-making
- The intersection of science and governance needs improved approaches
- Existing concepts include: "Transdisciplinarity", "Public Policy Making", "Transformative research", "Consequentialist epidemiology", etc.
- Consensus: there is still a long way to go -

Health Impact Assessment (HIA)

One organized approach to better integrate health into societal decision-making is HIA

The basic idea is widely applauded

The practical implementation tends to be tenacious

For efforts to institutionalize HIA, the success varies (among regions, and over time).

Impact assessments

From the beginning of work for HIA in Germany (early 1990s):

- a double pathway was pursued, with both options: "health in Environmental Impact Assessment (EIA)" and "stand-alone" HIA; and
- a focus was on comparative analyses which were seen as useful for supplementing own experiences, incl. avoidance of pitfalls, and for improvement of efficiency.

Health Impact Assessment (HIA)

Adriane-Bettina Kobusch/Rainer Fehr/Hans-Jürgen Serwe (Hrsg.)

Gesundheitsverträglichkeitsprüfung

Grundlagen – Konzepte – Praxiserfahrungen

1997



Part I Basics, Concepts

- Methods, Procedures
- Role of quantitative risk assessment
- Valuation criteria
- Strategies to resolve conflicts
- Urban planning
- International comparison

Part II Practice

- Waste disposal (dump site expansion)
- Transport (new road)
- Local practice
- Administrative networking
- Cost and benefit

Part III

- Perspectives
- Ministerial resolution 1992

8 selected approaches: WHO-Europe, CPHA, EPA, ATSDR, CAPCOA, AUS, NZ, NL

159

Rainer Fehr, Hans-Jürgen Serwe

GVP-Ansätze im internationalen Vergleich

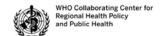
Australien, Kanada, Neuseeland, Niederlande, USA, WHO

- 1 Chronologischer Überblick
- 2 Acht ausgewählte GVP-Ansätze
- 3 Die GVP-Ansätze in Einzeldarstellungen
- .1 WHO-Europa
- 3.2 Kanada, Canadian Public Health Association (CPHA)
- 3.3 US-Environmental Protection Agency (EPA):

"Baseline Risk Assessment"

- 3.4 US-Agency for Toxic Substances and Disease Registry (ATSDR): "Public Health Assessment"
- 3.5 California Air Pollution Officers Association (CAPCOA):
 "Air Toxics 'Hot Spots' Program"
- 3.6 Australien, National Health and Medical Research Council: "Environmental and Health Impact Assessment"
- Neuseeland, Public Health Commission:
- "Health Impact Assessment"
- 3.8 GVP-Ansätze in den Niederlanden
- 4 Synopse

Anmerkungen Literatur







Family of health-related Impact Assessments

Rainer Fehr 1, Marco Martuzzi 2, Gabriel Gulis 3

NRW Institute of Health and Work (LIGA.NRW), Düsseldorf/Bielefeld (D) / WHO Collaborating Center for Regional Health Policy and Public Health, Bielefeld (DE).

Context, objectives: Internationally, a host of Impact Assessments (IAs) has emerged, many of them at least partially related to human health. In order to harness the potential mutual benefits and to avoid the in 2009 to scientifically and practically deal with this "family" of IAs.

experience in HIA and interest to carry the issue forward. Discussions were held at various occasions, including: HIA09, Rotterdam (NL), with "World cafe" workshop: EUPHA 2009, Lodz (PL): German Epidemiologic Association (DG Epi) 2010, Charité Berlin (DE)

			7
Box 1:	Choice of family	Yahoo®	Potential inspirations derivable for HIA
	members	hits	(for comparison: HIA = 814,000 hits in Yahoo®)
EIA	Environmental	6,210,000	Worldwide spread; legal basis, E.C. directives; systematic procedures to identify, describe and assess
	IA		impacts; established routines; community of practitioners; strives to consider interaction between factors,
			and to establish post-decision monitoring activities
SE A	Strategic	1,200,000	> Europe-wide spread; legal basis, EC directives; "upstream" orientation ("causes of causes" / policy-
	Environmental Assessment		related decision-making instead of project-related decision-making; range of impacts incl. secondary, cumulative, synergetic, short- and long-term, permanent or transient, positive and negative
CLA		651 000	
SIA (1)	Social IA	651,000	Broad view of social determinants; Interorganizational Committee on Guidelines and Principles for SIA: "all social and cultural consequences of any public or private actions that after the ways in which people
(1)			live, work, play, relate to one another, organize to meet their needs, and generally cope*
SIA	Sustainability IA	94 700	Environmental sustainability refers to the ability of the functions of the environment to sustain the human
(2)	o do tamao my ny	,,	ways of life. Socio-cultural sustainability: objective is to secure people's socio-cultural and spiritual needs
,-,			in an equitable way, with stability in human morality, relationships, and institutions
GIA	Gender IA	49,700	EU Guide on Gender Impact Assessment: objective is to compare and assess, according to gender
			relevant criteria, the current situation and trend with the expected development resulting from the
			introduction of the proposed policy
IIA	Integrated IA	34,700	Standardized, wide-ranging and ambitious I A system for policy proposals within EC; strives to analyse
			both benefits and costs; transparency: all IAs and all opinions of the IA Board on their quality are
			published online
HEIA,	Health (In)Equalities IA	11,300	Efforts to identify and analyse health-related (in)equality / (in)equity issues of new initiatives; high-ranking support, e.g. incorporated in the Jakarta Declaration (1997) and called for by the United Kingdom's
HIIA	(In)Equalities IA		Independent Inquiry into Inequalities in Health (1998)
HSIA	Health Systems	641	Acknowledging that policies may have unintended impacts on health systems, due to their large and
пыа	IA	041	complex structures; EC DG Health and Consumers' tool providing information about the objectives and
			health system functions that a proposal may impact on, either in a positive or negative way
(HTA)	(Health	1,790,000	A specialized version of IA dealing with (medical) technologies in health care; typically featuring strong
**********	Technology	Charles All Market	infrastructure incl. dedicated (inter-)national institutions; standardized procedures; focus on "evidence" as
	Assessment)		assessed by systematic review, evaluation, and integration of scientific literature



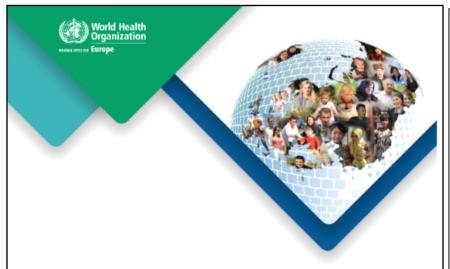
Option A: No integration, Pro: Requires no "extra" effort; strengths of existing IAs are maintained. on: Risk of duplication of efforts; risk of confusing stakeholders; risk of producing contradictory inpu nto decision-making and other policy contexts which could then contribute to "IA fatigue". ro: Opportunity to involve stakeholders comprehensively and efficiently: results might be more easil municated to decision-makers. Con: Difficult to establish "equal footing" of topics, disciplines.

- Although the list of IAs for which names have been coined is long (and growing), a smaller number of IAs is supported by specific "cultures"
- hard to come by. All suggestions are welcome

- . Continue the exchange of information, and the joint discussion, within the "family"
- In HIA publications (cf. books currently being prepared; gateways / websites), include chapters on other
- · E stablish ongoing discussion on "family" within emerging HIA development efforts in professional associations, e.g. EUPHA.



(Health-related) *Impact assessments*



Health in Impact Assessments

Opportunities not to be missed

2014

Fehr R, Viliani F, Nowacki J, Martuzzi M (eds.) (2014) by WHO-Europe, EUPHA, IAIA: Health in Environmental Impact Assessment (EIA) in Estonia, Norway, Sweden Health in Strategic Environmental Assessment (SEA) Sustainability assessment & Health Health in Social Impact Assessment (SIA) Health Impact Assessment (HIA) Enhancing health in Impact **Assessments**









2014

Annex: Chronology 2009-

2. Governance-supporting health assessments

HIA can be seen as a member of:

- of the group of "impact assessments", and
- of the larger group of "health assessments" (which support governance, decision-making)

The common goal of these two perspectives is to explore how the respective expert groups can benefit from an integrative view on the "tools":

- by learning from each other
- by supporting each other.

Health assessments

"Assessments": organized procedures in support of decision-making

Health-related assessments:

- Health Reporting (incl. Monitoring, Surveillance)
- Health Needs Assessment (HNA)
- Health Impact Assessment (HIA)
- Health Technology Assessment (HTA)
- Health Systems Performance Assessment (HSPA)
- Health-related evaluative activities.

Health assessments

Europ. J Public Health 2017, The European Journal of Public Health, Vol. 27, No. 4, 609-616 © The Author 2017. Published by Oxford University Press on behalf of the European Public Health Association All rights reserved. doi:10.1093/eurpub/ckx062 Advance Access published on 3 June 2017

Health assessments for health governance—concepts and methodologies

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- 8 Division of Health Data and Assessments, Health Care System, NRW Centre for Health (LZG.NRW), Bielefeld, Germany
- 9 Department of International Health, Maastricht University, Maastricht, The Netherlands
- 10 Centre for Health Knowledge Integration, Centre for Health and Society, National Institute for Public Health and the Environment (RIVM), Bilthoven, The Netherlands 2017
- 11 European Public Health Association, Utrecht, The Netherlands

Chapter 9 **Relating Population Health Monitoring** to Other Types of Health Assessments

Rainer Fehr and the EUPHA Sections working group on Health Assessments



About This Chapter

While population health monitoring, as presented in this book, qualifies as one key approach to using information and evidence for health policy-making, additional organized approaches are frequently used at the interface of (health) science and (health) governance. This is largely due to the fact that in public health, most of the

professio purposes

and acco health re for bette the scien public he tions are such que ing com

In: Verschuuren M, Oers H von, nsiveness, (eds.) (2019): Population Health Monitoring – Climbing the Information Pyramid. Springer Nature Switzerland, Cham (CH)

Additional overnance tention in

ments. It covers definitions, goals, procedures, and methods of such assessments, in a comparative way. It outlines practical examples, describes how various assessment types relate to population health monitoring, and sketches current and future

Working group members: Kristina Alexanderson, Carlo Favaretti, Rainer Fehr, Judith de Jong, Giuseppe La Torre, Tek-Ang Lim, Piedad Martín-Olmedo, Odile C.L. Mekel, Kai Michelsen, Nicole Rosenkötter, Marieke Verschuuren, Chiara de Waure and Dineke Zeegers Paget EUPHA sections involved: Health Impact Assessment, Health Services Research, Health Technology Assessment, Public Health Economics, Public Health Epidemiology, Public Health Monitoring & Reporting, Public Health Practice and Policy

Gesundheitswissenschaften/Public Health, Universität Bielefeld, Bielefeld, Germany e-mail: rainer.fehr@uni-bielefeld.de

2019

Questions studied:

- 1) What do the various types of health assessment have in common, and how do they differ?
- 2) Which assessment(s) to apply for which purpose?
- 3) Which are the needs and options for future (joint) development?

Approach and methods used:

Human ecology perspective, combining multiple facets into a (+/-) coherent picture

Multiple EUPHA sections involved (representing multiple disciplines & workfields)

Synoptic tables based on systematic comparisons:

- · Definition, history, typology, incl. goals, legal basis
- Projects & practice, incl. examples, recent projects
- Procedures, infrastructure; methods, tools, actors
- Issues of current debate; key references

3. Commonalities / Shared features of health assessments

These health assessments ...

- ... take place "in society" (not research environments) – on legal basis, or initiated by NGOs etc.
- ... are meant to inform policy-making and solve "real-world" problems, by organizing "evidence"
- ... are based on assumptions and involve uncertainty -> the assessors are endowed with high levels of responsibility.

Commonality: forming "cultures"

For each type of assessment, there is a (dynamic) "culture" of:

- traditions, terminology
- resources, infrastructure ...
- associations, conferences ...

... but for the group as a whole: rather little exchange / interaction / cross-fertilization ...

Commonalities (ctd.)

Typically, these health assessments are "institutionally embedded", so the political system (modes of governance) and stakeholders with open or vested interests may exert influence

Challenges include:

- Justifying the assumptions and decisions made
- Handling of (strongly) opposing views.

Communality: Limited output visibility

The assessment *output* typically materializes in an "report" document, meant to support the decision-making process

Authors often abstain from publishing in the first place, or submissions are not accepted

-> health assessments tend to be (unpublished) "grey" literature, incl. website materials - not included in standard scientific databases. This results in highly limited visibility.

4. Beyond commonalities

Also numerous *differences* among health assessments:

partly related to the character of each assessment type; but other differences may point to useful features which could be transferred, e.g. methods, resources (cf. Ws 7.L "Health in EIA")

Further benefits of looking beyond commonalities:

- existing local health reports provide baseline information, as required in impact assessments
- existing ex-post evaluations of similar projects can inform prospective IA.

5. Discussion: Research topics

Topics of interest for each assessment type:

- Ethical issues ("assessment responsibility") concerning ethical dilemmas, undue influence, fraud
- Quality assessment and quality assurance
- Modes of weighing (& synthesizing) evidence
- Fuller understanding of assessment "cultures".

(And there are, of course, *cross-cutting* research topics of interest, too.)

Summary

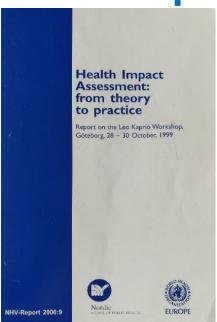
Health assessments are routinely applied in many countries, but rarely studied together

They enshrine a wealth of concepts and experiences for evidence-based policy-making both within and beyond the health sector

The *family* perspective of health assessments can help to derive impulses for learning, and to support each other. It helps to make best use of existing knowledge and capacities.

Optional addendum

Health Impact Assessment (HIA)



Fehr, R. (2000): Environmental Health Impact Assessment: the example of transportation. In: Diwan, V., Douglas, M., Karlberg, I. et al. (eds.): Health Impact Assessment: from theory to the Company of the Loc Kaprio workshop, Gothenburg, 28-30 October 1999. WHO-Europe and Nordic School of Public Health, Gothenborg, Sweden, NHY-report 2000-9, pp. 213-229

Environmental health impact assessment: the example of transportation

Rainer Fehr, Institute of Public Health, Bielefeld

This paper summarizes a view of Health Impact Assessment (HIA) which has evolved over several years $^{(1-5)}$. The current paper intends to contribute the following:

- · a selective chronology of HIA
- a sketch of WHO's Transport, Environment and Health (TEH) project and the related HIA workshop in Bielefeld, Germany, May 1999
- components of a systematic framework for HIA
- · ideas for future developments of HIA.

2000

Step / components Tools and resources Step 4: Background situation Environmental monitoring Compilation of background pollution Environmental reports, e.g. UBA: "Daten zur Umwelt" data concerning: Air (outdoor / indoor) Systematic information on emissions from point sources / · Water (drinking water, groundwater, industrial plants. Toxics Release bodies of surface water) Inventory (TRI) in USA · Soil, incl. contaminated sites Geographic Information Systems Food Step 5: Prediction of future pollution Technology-related specifications as a basis for prognosis of levels emissions from the project Prediction of future emissions from (Multi-media) dispersion models the project (e.g. ISC-LT, MISKAM) and (Based on predicted emissions:) determination of dilution factors. Pollutant dispersion modelling using e.g. EML, EpiCode, (Based on dispersion modelling:) Risk*Assistant, RiskPro Prognosis of future pollutant Tools to support selection of concentrations in environmental dispersion models, e.g. IMES media · Bibliographies, e.g. MEDLINE, Steps 6 and 7: Prediction and assessment of health impacts SOMED Qualitative assessment of impact on Population survey, using software quality of life, e.g. by rating / expert for questionnaire design and judgement statistical analysis · Survey of citizen concerns about Round-table discussions with public health impairments and quality of life participation Total exposure assessment, using all Tools for dose-response estimation, pathways and various scenarios, e.g. e.g. GEN.T, EPID.T concerning patterns of food · Tools for exposure modeling, e.g. consumption and leisure activities EML. @risk, HRA92, Comparison with legal limit values Risk*Assistant, RiskPro and / or recommended reference Sources of reference values, e.g. values, e.g. Acceptable Daily Intake HEAST, IRIS, TOMES plus, NIS (ADI) Tools for determination of Hazard Quantitative Risk Assessment Index and Hazard Quotient, e.g. (QRA), especially for carcinogens HRA92 · Tools for risk (cancer risk, cancer

burden), e.g. HRA92,

Risk*Assistant, RiskPro



Landesinstitut für Gesundheit und Arbeit des Landes Nordrhein-Westfale



Health Impact Assessment (HIA) in Germany

Rainer Fehr, Odile Mekel

te of Health and Work NRW (LIGA NRW). Düsseldorf/Bielefeld (D) / WHO Collaborating Center for Regional Health Policy and Public Health

Context: In the European arena, Health Impact Assessment (HIA), either within Environmental Impact Assessment (EIA) and Strategic Environmental Assessment (SEA), or performed independently, evolves into comprehensive 'cultures', including, e.g., HIA conferences, guidelines, and gateways. In Germany, up to now there is little explicit reference to HIA. This paper aims to illustrate that approaches towards HIA in Germany do exist which can serve as a basis for more comprehensive HIA development in the country.

Methods and materials: From current and past activities of LIGA.NRW and predecessor institutes, 10 examples of health-related impact analyses were selected, based on a broad understanding of HIA. The HIAs are described and compared according to a set of descriptive (e.g. topic, qualitative and quantitative methods applied in the HIA) and evaluative (e.g. strengths and weaknesses of the HIA) criteria, with a focus on 'integrative' features.

Tab. Examples of Health Impact Assessments, conducted by LIGA.NRW (incl. predecessor insitutions) and/or U Bielefeld

. '	Policy / Plan / Project	Type	reference	Qualitative aspects	Quantitative aspects
	European Employment Strategy (EES) (Mekel, Haigh, Fehr, Welteke 2004)	Policy	Germany / Europe	Policy analysis: Implementation in Germany, espec. flexibilisation of employments; literature reviews Participatory workshop: Aspects of implementation of EU strategy in Germany, scenario development, prioritization	Self-reported health status; absenteeism Modeling the flexibilisation of employments Point estimates and distributional estimates of additional and/or avoided cases of impaired health
	Demographic change in Ruhr area (Terschüren, Mekel, Samson et al. 2009)	Baseline for policies	Federal state and subregion	Decreasing and ageing population Selection of appropriate groups of diagnoses; certain neoplasms; myocardial infarction; dementia	 Application of WHO methodology "Burden of disease", using Disability Adjusted Life Years (DALYs) Based on predicted changes of age distribution: Estimation of changes of burden of disease
	Joint regional land utili- zation plan Ruhr (Volmer, Welteke, Fehr 2010)	Plan	Consor- tium of 6 cities	Planning process, structure and content of regional joint plan Legal basis for human health as an item of concern Coverage of health in the text / maps / environmental report; assessment and recommendations	(not implemented)
	Housing subsidy program NRW (Sierig, Mekel, Fehr 2009) / in progress	Program	Federal state	Analysis of components of the subsidy program Causal web with various causal pathways Participatory workshops	Modeling of selected causal pathways Point estimates of additional and/or avoided cases of disease and injury
	Waste site extension (Kobusch, Serwe, Proto- schill-Krebs, Fehr 1995)	Project	Four hamlets	 Structure model with 7 exposure pathways Complex physico-chemical processes within the waste site; range of emitted pollutants, e.g., in leachate; additional road traffic Vulnerable populations, e.g., children and teenagers 	Modeling for _receptors' in several locations (Carcinogenic) emissions, pollutant levels, exposures Additional cancer risks and cancer cases Noise exposure
	Highway project: Circular road (Serwe, Protoschill-Krebs 1995)	Project	City / Outskirts	Various siting options Innercity traffic relief Planning areas with vulnerable populations, e.g. seniors	Traffic densities; chemical emissions, pollutant levels, exposures; noise exposures, espec. at night Injuries and deaths due to traffic crashes
	Drinking water privati- zation (Fehr, Mekel, Lacombe, Wolf 2003)	Policy	Federal state / D / Europe	Qualitative model: legal requirements, "over-achievements" vs. economic approach Identification of 8 carcinogens in drinking water	Additional cancer cases; point estimates and distributional estimates for lifetime risks Relative risks; additional cancer cases
	Environmental tobacco smoke (ETS) and non- smoker protection (Hornberg, Samson et al., in prep.)	Policy	Federal state	Non-smoker protection legislation in NRW (2008) Affected by ETS: health of children (incl. pre-natal), of adults Range of health impacts of ETS exposure	Application of WHO methodology _Environmental burden of disease*, before and after policy implementation Estimation of fractions of burden of disease (e.g. DALYs) attributable to ETS
	Living on a contamin- ated site (Mekel, Nolte, Fehr 1997; Mekel & Fehr 2000)	Baseline for clean-up projects	City quarters	Discussion of Quantitative Risk Analysis for Impact Assessments Sample applications: Settlements on sites contaminated with (i) cadmium and (ii) dioxins and furans	Quantitative exposure assessment, using personal and chemical-specific parameters Point estimates and probabilistic exposure estimates Measured (HBM) vs. modeled exposure
	Traffic noise / Children (Mekel & Sierig 2007, within ENHIS project)	Baseline for policies	E.g., cities	Development of guideline for this topic "Strong annoyance" and "sleep disturbance" were identified as proxy outcomes for which data were available	Calculation of attributable cases, based on modeled exposures and adjusted exposure-response functions Estimation of health gains under various scenarios

Results: The set of HIAs covers a wide range of topics. The generic public health impact assessments included in this study refer to: 'European Employment Strategy', 'Housing policy North Rhine-Westphalia 2010', 'Joint spatial planning of six Ruhr area cities', and 'Demographic change in the Ruhr area' (No. 1 - 4). Other impact assessments focus on environmental health topics, e.g. waste site extension, transport planning / urban ring road, and drinking water privatization. Several of these assessments were (or are currently being) conducted within EC-funded projects (EPHIA, ENHIS, RAPID).

Strength and weakness: As a general tendency, our HIAs reflect the stepwise procedure as described in HIA guidelines. Most of the HIAs involve some level of quantification for selected health determinants and/or health effects. Sometimes we also applied probabilistic modeling (No. 1, 9). For a large fraction of our HIAs, participation of stakeholders and/or public is underdeveloped or altogether missing. An example of strong effort and very limited success is example no. 1. On the other hand, in the currently ongoing example no. 4, stakeholder participation has already produced very valuable input.

Conclusions: In contrast with many other countries, in Germany the large potential of HIA for health protection and promotion is widely untapped. Beyond existing examples of feasibility, a broader debate on HIA is needed. Current auxiliary activities include a comparative analysis of HIA guidelines; the exploration of dedicated health plans on local/regional level to strengthen the health sector; and an initiative to study the whole 'family' of health-related impact assessments.



3rd European Fublic Health Conference

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[10-3

Interrelatedness of (health) assessments



European Policy Health Impact Assessment (EPHIA) project

- HIA of the European Employment Strategy (EES): across the European Union / in Ireland / the Netherlands / Germany / United Kingdom
- HIA: un guide / a guide / en Leidraad / Empfehlung zum Vorgehen

Other (health) assessments







XIth HIA conf, Granada, 14-15 April 2011

Developing integrated approaches in Impact Assessment – NRW perspectives

Institute of Health and Work North Rhine-Westphalia, LIGA.NRW WHO Collaborating Center for Regional Health Policy & Public Health

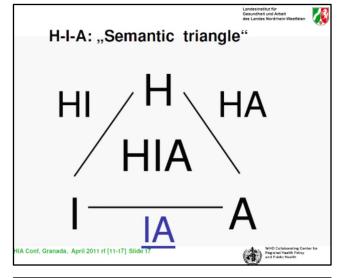
rainer.fehr@liga.nrw.de [11-17]

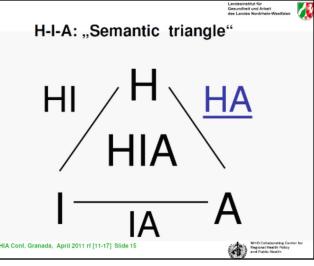
2011



"What is in a name?"

- Among the Impact Assessments, HIA is the one most strongly focused on health
- Among the Health Assessments, HIA is the one focusing on Impact. Question: Which are the other types of Health As-





Health assessments



WHO Collaborating Center for Regional Health Policy and Public Health Landesinstitut für Gesundheit und Arbeit des Landes Nordrhein-Westfalen



Quantitative health assessments for regional and local health policymaking – Adding value by considering their interrelationships

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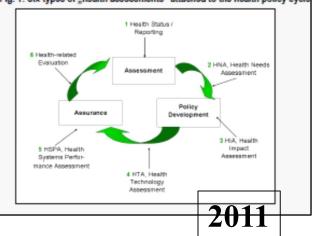
Context

Health policy-making on regional (subnational) and local level involves numerous actors, is subject to multiple constraints, and often short of resources. In this situation it is crucial to solidly support the policy-making process with reliable evidence. A range of different quantitative health assessments is in use for this purpose, but they are rarely used in a systematic, coordinated mode.

Methods and materials

A variety of quantitative health assessments known to be applied to support regional and local health policy-making were reviewed. We selected 6 main types of assessment not geared towards etiology of health/disease but towards supporting policy-making; identified their relationship with the "health policy cycle"; defined descriptive criteria; characterized the different assessments; and drew preliminary conclusions about the ments of considering such analyses together. - The descriptive criteria used in this brief report are: "Core companisons" implied in the assessments; "Special features"; and "Analogies outside health", either specific or generic.

Fig. 1: Six types of "health assessments" attached to the health policy cycle



[19_06] "Family of health assessments" approach 24

Landeszentrum Gesundheit Nordrhein-Westfalen





Im Dienst der Öffentlichen Gesundheit Fostering Public Health

Entwicklungslinien von den hygienisch-bakteriologischen Untersuchungsämtern bis zum Landeszentrum Gesundheit NRW

Trends of development from State Laboratories for Hygiene to the NRW Centre for Health

Öffentliche Gesundheit – Ein Querschnitt | Daten, Informationen, Analysen Public Health – A cross-sectional view | Data, Information, Analyses

Reporting, Assessing, Evaluating

Berichten, Abschätzen, Evaluieren

Zu Fragen des Gesundheitsschutzes und der Gesundheitsförderung umfassend Stellung zu beziehen gehört zu den

Berichterstattung

Eine wissenschaftlich fundierte Berichterstattung bringt transparent definierte Gesundheitsindikatoren sowie ein Spektrum epidemiologisch-statistischer Methoden zum Einsatz, darunter

15