Health impact assessment: assessing opportunities and barriers to intersectoral health improvement in an expanded European Union

Karen Lock, Martin McKee

On 1 May 2004 the European Union (EU) underwent unprecedented enlargement, from 15 to 25 countries, increasing its population by 20% to over 450 million. Although EU law has limited specific competence in the area of health, its influence on other policy sectors such as agriculture, trade, and employment has wide ranging implications for health. Yet with the exception of provisions on communicable disease control and food safety, public health considerations have played little part in negotiations on EU accession. This paper argues for an intersectoral public health approach in the expanded EU. It reviews the legal basis for assessing the health impacts of policy in the EU and, using health impact assessment as a case study, it examines how well the new member states may be prepared to tackle intersectoral public health action within the constraints imposed by EU policy.
that health is only considered opportunistically and is not included systematically in policy development.

It is important to develop processes that facilitate intersectoral health action. Health impact assessment (HIA) has the potential to increase the probability that the impact of policies is more likely to benefit than to harm health. This paper reviews the existing legal basis for assessing the health impacts of EU policies and its implementation. Then, using the example of HIA, it considers facilitating factors and potential obstacles to intersectoral health policy formation. It asks how prepared are the public health sectors in new member states to address the population health impacts of non-health sector policies.

**THE EU BASIS FOR ASSESSING HEALTH IMPACTS OF NON-HEALTH SECTOR POLICIES**

Impact assessment methodologies are applied at the level of the EU and individual member states. The first European directive on environmental impact assessment (EIA) was adopted in 1985. There is also experience with social impact assessment, sustainability assessment, and integrated impact assessment. The last of these has been developed in the context of the complex challenge of identifying the implications of long range trans-border pollution and entails the integration of many diverse sources of data. A legal basis for assessing policy health impacts emerged in article 129 of the Maastrict Treaty (1993) and remained in article 152 of the Amsterdam Treaty (1997). Article 129 on public health stated that “health protection shall form a constituent part of the Community’s other policies”. However, as article 129 precluded harmonising legislation it had little influence on policy within member states. It also did little to foster an intersectoral approach to policy at a European level as despite the intentions of article 129 the means to carry it out are lacking. Article 152 of the Amsterdam treaty (ratified in 1999), stated that “a high level of human health protection shall be ensured in the definition and implementation of all community policies and activities”. This strengthened the case for EU action, creating an opportunity to develop HIA as a means to achieve assessment of policy health impacts.

**OPPORTUNITIES AND BARRIERS**

It remains unclear who should be responsible for initiating HIA in the EU (the Commission, the European parliament, or member states). While there has been much discussion about integrating public health into other policies, the only examples of progress have been pilot HIA projects funded through Directorate General Sanco, as part of the EU Health Strategy 2000, and the current public health programme 2003–2008. An initial guide to assessing policy health impacts was published by Director General Sanco but has yet to be implemented. A more recent EC funded project aims to develop a generic methodology for HIA of EU policies and has been piloted on the European Employment Strategy.

HIA is a cross cutting theme in the EU’s current public health programme. Yet despite this activity, there remains some scepticism about its future potential at EU level. Yet even if implemented more widely it is not clear how HIA would be integrated into policymaking. Health is, of course, not the only consideration in policymaking and final decisions will take account of a number of issues. Decision making may entail trade offs between different objectives, of which health will compete with economic, environmental, employment, and other considerations. The balance between these is political but a realistic aim is to ensure that possible health consequences of other policy sectors are at least not overlooked. In this way, any negative impacts on people’s health and wellbeing can be removed or mitigated.

The voluntary status of HIA within the EU contrasts with that of EIA and strategic environmental assessment (SEA), which have a statutory legal basis. While health protection is defined in EIA legislation, in practice, little has been achieved in integrating health considerations into the process, either being completely absent or restricted to technical issues such as levels of pollutants. The ownership of the EIA, SEA, or other impact assessment processes by agencies that have no direct stake in population health is seen as an obstacle to the effective integration of health concerns. Some recent European initiatives are attempting to strengthen the health elements of EIA. One approach is so called “integrated impact assessment tools”. The EU is currently in the process of developing integrated approaches for screening new proposals. Another approach is to integrate aspects of HIA in a new European legal protocol on SEA, launched at the 5th Pan European Ministerial Conference on Environment in 2003. The protocol offers a potential mechanism to institutionalise HIA in European law.

**THE USE OF HEALTH IMPACT ASSESSMENT IN AN EXPANDED EU**

Although HIA is not a legal requirement in the EU, 12 governments recognise its potential. Several of the pre-2004 member states already have considerable experience at applying HIA at local, regional, and national level including Germany, Ireland, UK, the Netherlands, and Sweden. Table 1 gives an overview of HIA applications in pre-2004 countries. At least 8 of the 10 new member states have already considered HIA development or had experience of applying HIA or other intersectoral health improvement (table 2). A variety of methods have been used, all of which aim to assess the impact of a policy on public health. The former communist new member states have some tradition of assessing health impacts of other policies. For example, in 1966 the public hygiene service in the former Czechoslovakia was given legal powers to assess health impacts, although in practice it had little influence on decisions. However, this formal “environmental health” role was narrow, focusing on adherence to technical standards. It contrasts with the emergence of broader public health approaches, creating a legacy of ambiguity about the concept of HIA.

Many new member states are developing more broadly based models of HIA, adopting multisectoral approaches to public health. For example, a Hungarian national health strategy, for example, announced in 1999, stated that “a high level of human health protection shall be ensured in the definition and implementation of all community policies and activities”. This strengthened the case for EU action, creating an opportunity to develop HIA as a means to achieve assessment of policy health impacts.

[Further text not shown]
Aarendonk, personal communication). EHIA and broader HIA should thus be seen as complementary applications.

Table 2 gives an overview of HIA activity in new member states.

WHAT ARE THE OPPORTUNITIES FOR AND BARRIERS TO INTERSECTORAL HEALTH IMPROVEMENT USING HIA IN NEW MEMBER STATES?

Despite the growing volume of HIA activity, there is still much uncertainty about how HIA can be used by all new member states. There are, however, lessons that can be drawn from other countries.

The important advantages conferred by HIA seem to have been the strengthening of understanding by policymakers of interactions between health and other policy areas with associated improvement in intersectoral relations. For example, in Slovenia, the involvement of a wide range of stakeholders in agriculture policy was a very important part of the process. Engagement of other sectors in HIA workshops widened the perspective, increased understanding of public health issues, and created shared agendas for future policy negotiations. Stakeholder involvement has been promoted as one of the strengths of HIA. However, such wide-ranging stakeholder involvement may not always be necessary, nor useful particularly if conducted badly. Such participation has not been a feature of all HIAs in pre-2004 or

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**Table 1** Selected examples of how HIA has been applied in EU member states

<table>
<thead>
<tr>
<th>Country</th>
<th>Administrative level at which HIA conducted (national, regional, local)</th>
<th>Policy sectors to which HIA has been applied</th>
</tr>
</thead>
<tbody>
<tr>
<td>Netherlands</td>
<td>Health impact screening of national policy</td>
<td>Housing policy, employment, environmental energy tax, national budget</td>
</tr>
<tr>
<td>England</td>
<td>National</td>
<td>Burgundy reduction initiative, national alcohol strategy</td>
</tr>
<tr>
<td>Regional</td>
<td>London Mayoral strategies including transport, waste disposal, economic development</td>
<td></td>
</tr>
<tr>
<td>Wales</td>
<td>Local</td>
<td>Regeneration projects, farmers markets</td>
</tr>
<tr>
<td></td>
<td>National</td>
<td>Home energy efficiency scheme, Objective 1 programme, tourism (national botanical garden)</td>
</tr>
<tr>
<td></td>
<td>Local</td>
<td>Power station development, landfill site, housing renewal scheme</td>
</tr>
<tr>
<td>Sweden</td>
<td>National</td>
<td>Agriculture, alcohol policy</td>
</tr>
<tr>
<td></td>
<td>Local county council level</td>
<td>Various</td>
</tr>
</tbody>
</table>

Sources: Welsh Assembly government (2003), Health Development Agency HIA gateway web site (http://www.hiagateway.org.uk/).

**Table 2** HIA projects and development activity in new member states

<table>
<thead>
<tr>
<th>Country</th>
<th>HIA guidelines and/or training</th>
<th>HIA projects</th>
<th>Administrative level at which HIA conducted (national, regional, local)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Czech Republic</td>
<td>Health risk assessment (National Institute of Public Health, Prague) Health Impact Assessment in the Hygiene Service</td>
<td>Development regional plan—strategic health plan (planned)</td>
<td>Regional</td>
</tr>
<tr>
<td>Estonia</td>
<td>Guidelines for health impact assessment of municipality policies (Estonian Centre for Health Promotion 2002)</td>
<td>Pilot project: health impact assessment in Rapla municipality (in progress)</td>
<td>Local</td>
</tr>
<tr>
<td>Hungary</td>
<td>National HIA Workshop (December 2003)</td>
<td>Part of ongoing EU and WHO co-funded project mapping the use and context of HIA</td>
<td>National</td>
</tr>
<tr>
<td></td>
<td>Environmental health impact assessment of waste management system, Siauliai region</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Malta</td>
<td>Technical assistance by the EU to strengthen environmental health impact assessment to assist compliance with the EIA directive (personal communication)</td>
<td>Consideration of health issues in EIA for abattoir waste incinerator (preliminary HIA)</td>
<td>Local</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Part of ongoing EU and WHO co-funded project mapping the use and context of HIA</td>
<td>National</td>
</tr>
<tr>
<td>Poland</td>
<td>Health impact assessment in the hygiene service HIA workshop for nine central and eastern European countries (2002, 2003)</td>
<td>Part of ongoing EU and WHO co-funded project mapping the use and context of HIA</td>
<td>Local and national</td>
</tr>
<tr>
<td>Slovakia</td>
<td>Health impact assessment in the hygiene service</td>
<td>WHO healthy cities network PHASE project are developing: a HIA Toolkit; a HIA training module, a resource pack to support planning for health and sustainable development. Together with the Slovak and Italian healthy cities network they are piloting the draft HIA toolkit in 2004 in Trnava (Slovakia) and Bologna (Italy)</td>
<td>National</td>
</tr>
<tr>
<td>Slovenia</td>
<td>Two day HIA training course run at National Institute of Public Health (2002)</td>
<td>Part of ongoing EU and WHO co-funded project mapping the use and context of HIA</td>
<td>National</td>
</tr>
</tbody>
</table>

post-2004 member states. For example, two assessments of the health impact of the EU’s Common Agricultural Policy have been conducted by the Swedish Institute of Public Health. The most recent contributed to improved understanding by the agricultural sectors even though it was a desk based expert led study.

However, the implementation of HIA faces many obstacles, especially in such complex policy sectors as agriculture or environment. These include uncertainty about which stage of the policy process a HIA should be undertaken, deficiencies in the evidence base, lack of capacity, and difficulty embedding HIA in political and organisational culture.

While some countries have used the more limited EHIA approach, so far the most common approach to HIA has been one based on broad health determinants. This means that HIAs will confront considerable uncertainty about potential health impacts. For many policies, especially those implemented at a supranational level where even the immediate effects are often unclear, the causal pathways are complex, with the current evidence base patchy and often irrelevant to concrete policy options. Methods to assemble the evidence to enable HIA to contribute to decision making remain poorly developed and often require a trade off between speed of working and depth of analysis. Other impact assessment methodologies, such as EIA, are also constrained by poor evidence. Perhaps HIA should learn from these and concentrate more on working within the constraints of the evidence rather than expecting the evidence to be available one day. In these cases HIA can usually show a direction of change, itself useful information, especially at early stages of policy development.

Ultimately, if HIA is to contribute to policy making, it must be integrated with administrative processes, in a similar way to EIAs. None of the new member states have yet institutionalised HIA, although in eight countries the ministry of health has been involved in some activity. However, this situation is little different from that in the pre-2004 members states. Despite considerable experience over several years only the Netherlands and Wales have had established national resourced HIA units operating as part of government. In many countries HIAs have been conducted on an ad hoc basis, but some have had a clear mechanism to feed into government strategy making. Such approaches have included joint ministerial committees or interdepartmental working groups (for example, Slovenia, UK), although the public health benefit of these has not been proved and in the UK government HIA no longer seems to be a current political theme. A failure to embed HIA in the organisational structure of decision making bodies reduces the benefits that can accrue for intersectoral working. This was the case in British Columbia, Canada, where, after political changes, HIA fell off the policy agenda having previously been located within the cabinet. In Lithuania a more systematic approach has been piloted to embed HIA in administrative processes and structures. The project applied the policy arrangement model to analyse the political and administrative circumstances to understand the opportunities and barriers for HIA implementation. However, despite some insights gained through this approach it was also found to have limitations both in designing practical recommendations and in giving insufficient recognition to the influence of different actors on the process. It is probable that difficulties in institutionalisation of HIA and intersectoral public health will be similar for all EU member states whatever approach is taken.

Yet even if a decision was made to institutionalise HIA, a lack of human resources remains an important constraint in many new members states. The ability to assess health effects of policies in other sectors requires people with appropriate skills. In several of the new member states the public health community has yet to complete the transition from the old environmental health and hygiene services. In this system, HIA is interpreted as a narrow technical analysis, such as toxicological analysis of water or air samples. Modern public health, taking account of broader health determinants, such as the impact of policies on employment and income distribution, is a comparatively new discipline, although where investments have been made they have achieved considerable success, as in Hungary and the Baltic States. Another barrier to effective HIAs is a lack of mechanisms by which public health can work with or influence other policy sectors. The narrow focus of public health in former communist countries of central and eastern Europe contrasts with a broader multisectoral approach in some pre-2004 member states, such as the UK, the Netherlands, or the Nordic countries (although in others, such as Germany and France, the public health focus has also been narrow). In the absence of formal mechanisms for involvement, several countries have established ad hoc approaches, as in Slovenia and Malta.

HIA entails societal value judgements on the importance of HIA acceptability and trade offs in formulating recommendations. A WHO consensus paper on HIA lists equity, sustainable development, and ethical use of evidence as core values of an HIA. Some groups involved in HIA, such as one from Slovakia, have identified the need for explicit values on which public health can work with or influence other policies. The narrow focus of public health in former communist countries of central and eastern Europe contrasts with a broader multisectoral approach in some pre-2004 member states, such as the UK, the Netherlands, or the Nordic countries (although in others, such as Germany and France, the public health focus has also been narrow). In the absence of formal mechanisms for involvement, several countries have established ad hoc approaches, as in Slovenia and Malta.

CONCLUSIONS
The importance of the health consequences of other policies will grow after EU accession. Yet in many EU member states there remain considerable obstacles to implementing intersectoral approaches such as HIA. These include identification of the most appropriate methods to be used, institutionalisation of the process, development of mechanisms for intersectoral participation, and building public health capacity. While HIA is not the only way to ensure that health is on the broader policy agenda, it does offer one transparent

What this paper adds

- This paper adds a comprehensive review and analysis of the use of HIA in EU new members states.
- It adds an analysis of the constraints these 10 new countries may experience in tackling public health in intersectoral policy issues, and suggests how these may be tackled or in fact how they do not differ from the situation in pre-2004 member states.

Policy implications

- The lack of structures and processes to address intersectoral public health issues in the enlarged EU
- The need to support new member states strengthen their skills and capacity for using intersectoral approaches such as health impact assessment

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mechanism to embed public health in sectors in which it is currently marginalised. Its strengths include the combination of a structured approach with flexibility of methods, as well as involvement of a wide range of stakeholders. Experiences so far show that it has potential to contribute to integration of policies in a range of sectors. HIA can add value to intersectoral health improvement by complementing other approaches such as interministerial working groups that have not necessarily been that successful. It is essential that practitioners and policy makers draw the lessons from the experience of HIA, in particular from evaluations planned and under way, so as to better support governments that are presiding over rapid processes of change to make “healthier” policy choices.

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REFERENCES
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