Title: Institutionalising Health Impact Assessment in London as a public health tool

for increasing synergy between policies in other areas

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Abstract

Objectives: To describe: the background to the inclusion of health impact assessment (HIA) in the development process for the London Mayoral strategies; the HIA processes developed; how these evolved; and the role of HIA in identifying synergies between and conflicting priorities of different strategies.

Study design: Case series

Methods: Early HIAs had just a few weeks for the whole HIA process. A rapid appraisal approach was developed. Stages included were: scoping, reviewing published evidence, a stakeholder workshop, drafting a report, review of the report by the London Health Commission and submission of the final report to the Mayor. The process evolved as more assessments were conducted. More recently an integrated impact assessment (IIA) method has been developed that fuses the key aspects of this HIA method with Sustainability Assessment, Strategic Environmental Assessment and Equalities Assessment.

Results: Whilst some of the early Strategy drafts encompassed some elements of health, health was not a priority. Conducting HIAs was important both to ensure that the strategies reflected health concerns and to raise awareness about health and its determinants within the Greater London Authority (GLA). HIA recommendations were useful for identifying synergies and conflicts between strategies. HIA can be successfully integrated into other Impact Assessment processes.

Conclusions: The HIAs ensured that health became more integral to the Strategies and increased understanding of determinants of health and how the GLA impacts on health and health inequalities. Inclusion of HIA within IIA ensures health and health inequalities impacts are considered robustly within statutory impact assessments.

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Key words

Health impact assessment (HIA)	Methodology	Policy
Integrated Impact Assessment	Rapid appraisal	Regional government
Evidence reviews		

Introduction

Health status depends on the risks of developing disease and the treatments available. Health services, although important, contribute much less to the former than do socioeconomic and environmental conditions.¹ Despite the major effects of determinants of health,² many people involved in policy development at local, regional or national level government (apart from those with responsibilities for health policy, health services or environmental health) are often unaware of their ability to influence health or health inequalities by their decisions.

Health Impact Assessment (HIA) is one way in which policy proposals that affect determinants of health and inequalities can be assessed for both their potential intended and unintended consequences on the health of the population and the distribution of impacts within specific sub-groups. HIAs formulate recommendations to improve positive and mitigate negative impacts on health and to reduce inequalities. Beyond that, involvement in the HIA process itself can raise awareness among participants about determinants of health and how these are affected by government and policy decisions outside the health sector. HIA can be an important tool for engaging with non-health professionals for policy advocacy for health improvement.

Raising awareness of health and its social determinants through HIA has ensured that health is properly considered and has subsequently led to its integrations into wider impact assessments. This paper explains the political background that led to the integration of HIA within the process of strategy development, the HIA method developed and the recent approach of integrating HIA with other types of assessment in Integrated Impact assessment (IIA). It reports on synergies and conflicts found between the potential health

impacts of the first nine strategies that were developed, the effects of embedding health in the policy-making process, and the 'learning' approach taken in the development and mainstreaming/ institutionalisation of HIA into the Mayor's/Greater London Authority (GLA) regional strategy development process.

London's Regional Government and the London Health Strategy

London is the only English region with a directly elected Mayor and an Assembly with a scrutiny role. The Mayor has a wide range of powers devolved from national government and responsibility for setting regional policy for the Greater London area. Information about London and the development of Regional Strategies is given in a web Appendix.

The Greater London Authority Act 1999 sets out the Mayor's powers³: Section 30 states that the Authority must exercise its power in a manner calculated *"to promote improvements in the health of persons in Greater London*". Making the case for 'social determinants' impacting on health enabled this inclusion in the GLA Act. In 2007 the Mayor of London's responsibilities for health were increased in the Greater London Authority Act 2007⁴ that requires the Mayor to publish a health inequalities strategy that contains all the policies that are aimed at reducing health inequalities. This amendment in the 2007 GLA Act was as a result of the cross-government review of the original GLA Act, and was influenced by the success of HIA and other health-related activities that had been enabled by the original Act's health requirement.

In the eighteen months before the first mayoral elections (held in June 2000) the Regional Director of Public Health led a multi-agency project to develop the London Health Strategy. HIA, a structured method for assessing and improving the health consequences of projects

and policies in the non-health sector,^{5,6,7} was advocated, by this multi-agency project, as an underpinning theme.

The Mayor agreed that HIA should be undertaken during development of each of his strategies, as it provides a mechanism to fulfil his legal responsibility to *'take the health of Londoners into account'* in policy-making.

Method

HIA methods have developed over the course of the eight years that they have been used for the Mayor's strategies. A rapid appraisal HIA method was the first approach developed. It was used on statutory strategies and several early non-statutory strategies developed by the first Mayor of London (Table 1). Since 2004 the GLA has developed and piloted Integrated Impact Assessment (IIA). This incorporates the key components of rapid appraisal HIA into other types of assessment.

Process

The GLA strategy lead is responsible for ensuring that the HIA/IIA is undertaken. It is included in project planning so that it fits the strategy development timeline and budget. The assessment is undertaken by an independent group but the strategy team is involved in the appraisal process so that they can utilise the outputs effectively in the strategy development.

A steering group oversees the process of the HIA and IIA. The membership usually includes health, sustainability and equalities experts, the GLA, the London Health Commission (LHC), the Regional Public Health Group, and the London Health Observatory. The steering group provides oversight of the assessment process, ensuring that it is independent; they provide expert advice on the content and methods employed in the HIA/IIA.

The stages of the rapid appraisal HIA and the way in which these stages are used in IIA are now described.

Screening

The first Mayor of London was responsible for developing eight high level statutory regional strategies. Each strategy tackled at least one, and generally several, important determinants of health. It was agreed that a HIA would be done on all of these initial strategies, providing an opportunity to make recommendations and incorporate health in the policy-making process.

For later non-statutory regional strategies and those developed since 2004, there has been an informal screening process to decide whether a policy needs an impact assessment and if so, whether it needs and HIA or an IIA. The Mayor is required by the GLA Act (1999)³ to consider the impact of his policies on health, health inequalities, sustainability and equalities. There is also national legislation that requires Sustainability Appraisal (SA), Strategic Environmental Assessment (SEA) and Equalities Impact Assessment (EqIA) of some of the Mayoral strategies. The screening stage allows the strategy team to establish which impact assessments are required and then decide whether to do separate impact assessments or an IIA.

Rapid Appraisal HIA

The HIAs initially took place prior to public consultation. Usually, there was less than two months in which to complete the whole HIA process, from scoping to delivering the final report to the Mayor and the Assembly. A rapid appraisal approach was developed, which includes: a) scoping, b) reviewing published evidence, c) a stakeholder workshop, d) preparation of a draft report, review of the report and recommendations by the LHC, and submission of the final report and recommendations to the Mayor and the GLA officers. Later HIAs have been conducted in parallel with the three month public consultation period

in the strategy development process, increasing community involvement and contributing to the evidence used to inform the HIA.

a) Planning and Scoping the HIA

For each HIA, a steering group develops the process and organises the HIA. The steering group decides on the scope of the HIA based on the potential health impacts of the strategy, the level of controversy associated with the strategy, and engagement with health advisors in strategy development.

b) Evidence-base rapid reviews

The steering group organises a rapid review of the evidence base for health in relation to each of these specific strategies (e.g. transport and health,⁸ noise and health issues⁹). Searching and reviewing the evidence is undertaken by a commissioned expert prior to the strategy being available, usually over the course of two to three months. Once the draft strategy is available, the evidence base is summarised and used to decide the focus of the HIA. The process has been refined with each HIA; the summaries of evidence have been made clearer to ensure the evidence is accessible for lay participants in the workshops and are published for others to use in similar policy proposals. This was initially on the London Health Commission website^{10,11,12} but more recently via the GLA website, e.g. for the recent Health Inequalities strategy.¹³

As the HIA method developed, an initial policy assessment was undertaken prior to the stakeholder workshop. The workshop is now used to test and further develop the policy assessment.

c) The HIA stakeholder workshops

The majority of the rapid appraisal workshops are half-day events but the HIA of the London Plan was a full-day event (detailed method in web appendix 1B). The events include:

- i. a presentation about the strategy and the major policy objectives within the strategy;
- ii. a short presentation about the public health evidence related to the strategy (from the evidence base);
- iii. an explanation of what health impact assessment is; then
- iv. small group work; this was the focus of the assessment process and participants were asked to consider
 - Which determinants of health are likely to be affected by the strategy?
 - How may health determinants change as a result of the strategy?
 - How might the expected changes affect the health of people?
 - What might be the outcomes for health?
 - What do you think should be recommended in this area?
- v. feedback.

d) The HIA Report

An external consultant, who attends the workshop, drafts the report using the notes taken by the rapporteurs from the small groups' workshops, the feedback and discussion of recommendations, and the commissioned evidence review. Recommendations are formulated on the basis of the policy assessment, including workshop discussions and, where it existed, supporting evidence is cited in the report. The draft report is circulated to all the workshop participants for comments, with responses incorporated into the report before it goes to the LHC for debate and ratification. The report is then submitted to the Mayor, the Assembly and the strategy development team.

Incorporating HIA into the Strategy

Where feasible, in the early HIAs, the recommendations were incorporated into the draft strategy before it went out for public consultation. The strategy development team reported back to the LHC on whether recommendations were incorporated into the strategy, or why they had not been included.

Integrating health into other impact assessments

Strategies developed at the GLA are now subject to a number of statutory assessments including SA, SEA and EqIA. Because of overlaps in the methods and outputs from these assessments, an IIA method, drawing together health, sustainability and equalities, was developed. The IIA method fuses the statutory requirements of SA, SEA and EqIA and involves key elements of the HIA method described above.

HIA was initially a short process undertaken before the strategies were publically released for consultation. However, IIA, in line with other statutory assessment processes, is an ongoing process working in parallel with the strategy development process. Table 2 outlines the stages used in the rapid appraisal HIA and how these elements were adapted first for including health in other IA processes and then embedded within IIA.

The method used for the IIA changes depending on types of assessments that are being integrated and decisions made about the approach at the scoping stage, however, these key elements of HIA are integrated into the IIA method:

- A health representative involved in all aspects of the assessment
- A literature review of the relevant health evidence

- Key findings from the initial assessment are tested at a health stakeholder workshop and the outcome from the workshop fed into the assessment
- A report bringing together the health findings of the assessment
- Report back to LHC the implementation of health recommendations in the strategy following the assessment

Results

Health impact assessment of individual Draft Mayoral Strategies

Whilst some of the early drafts of strategies encompassed some elements of health, health was not a priority. It was an important exercise to conduct HIAs both to ensure that the strategies reflected health concerns and opportunities and to raise awareness about health and its determinants within the Greater London Authority.

Of the first two strategies to be developed, the draft Economic Strategy did not overtly reflected health concerns. The draft Transport Strategy's main health emphasis was on air pollution.¹⁴ There was brief mention of walking and cycling but the HIA ensured that these featured more prominently in later versions.^{15,16} Health became more integral to both strategies as a result of the HIAs.^{15,17}

Use of HIA to assess cross-linking themes

The key messages from all the initial health impact assessments have been summarized.¹⁸ Consideration of the HIA findings from the first nine strategies (Table 1) also identified large numbers of policies that overlapped. Many recommendations from the HIA of one strategy would also benefit the aims of other strategies, while other strategies had health consequences that were in conflict. Figures 1 and 2 show these overlaps. The first nine strategies are presented in ovals. The 'clouds' around them indicate relevant policy recommendations that affect health. In Figure 1, recommendations from one strategy that also contribute to the desired outcomes of another strategy are shown as arrows. In Figure 2, arrows indicate where recommendations from one strategy could cause tension with the objectives of another strategy.

One example of synergy between strategies can be seen for policies identified within the Municipal Waste Strategy to develop recycling to reduce landfill and incineration of waste: this would also aid delivery of the Biodiversity strategy. Similarly, moving freight (or waste) by river, rather than by trucks, would not only improve air quality and transport but would also reduce ambient noise, supporting the delivery of commitments made in all three strategies.

Insert Figure 1 (synergies) around here

However, the HIAs also identified areas where the aims of one strategy could oppose an objective of another strategy (Figure 2). For example, promoting growth for economic development could make targets to reduce municipal waste and to improve biodiversity harder to achieve. Promoting energy efficiency was proposed in both the air quality and energy strategies but could impinge adversely on economic development. Although moving freight by river could reduce noise over a wider area, promotion of river transportation could increase ambient noise in certain areas of London.

The complexity of these various interactions, both synergies and conflicts, are represented in the figures: policy makers, who may have knowledge of one area, may not see the potential impact on other policies.

Insert Figure 2 (conflicts) around here

Integrating impact assessment

The Rapid Appraisal HIA approach forged working relationships across disciplines, raised the profile of health in regional policy development and created the opportunity to integrate different types of impact assessment. The IIA method is now being applied to a number of strategies in London. The IIA approach was piloted on the further alterations to the spatial plan for London, which was completed in 2007.¹⁹ The timing of the IIA facilitated interaction with the strategy team from the early stages of drafting and it was an iterative process that allowed health to influence the policy throughout it's development. A result is that improving health, reducing health inequalities, and providing health and social care facilities are overarching objectives of the London Plan.

The IIA method is currently being used for the 'London enriched - the draft strategy for refugee integration' ²⁰ and the Health Inequalities Strategy for London.²¹

Discussion

Ensuring that potential health impacts were considered in the development of the Mayor's statutory strategies has been a real opportunity to embed health into the work of the Greater London Authority and its functional bodies. Along with public health input during the writing of the strategy, the HIA process has been an opportunity to create more understanding about the wider determinants of health; how the work of local and regional government impacts on health and health inequalities; and to incorporate health into the strategies.

The HIA process evolved as more HIAs were conducted. In particular, there were changes to the timing of the HIA in the strategy development process; timing and extent of the policy assessment; and the role, format and content of the stakeholder workshops.

An area debated widely and identified for further development in the early independent evaluation of the HIA method related to community involvement in the HIA process. In the 2006 HIA of the Mayor's Older People Strategy, the HIA was conducted in parallel with the public consultation stage of the strategy development and 'community intelligence'/ 'evidence' from the public consultation was included in the rapid appraisal of evidence informing the HIA

The London HIA process for assessing the health impacts of regional strategies was innovative when it started. At that time, most HIAs examined projects or programmes.²² Methods and detailed guidance²³ for rapid appraisal workshops were being developed elsewhere, in parallel with this work in London, for use primarily in assessing local projects and occasionally policies. As the steering group became more confident about the process, they looked for more interesting and creative ways of developing the participative nature of the HIAs (eg in the Culture strategy).²⁴

Over time, the awareness that HIAs were being undertaken led the GLA strategy development teams to incorporate consideration of the wider determinants of health into the strategy during development. The evidence review was seen by the strategy developers as particularly useful. For example, when the draft London Plan was being developed, members of the strategy development team worked with public health specialists to ensure that health was central to the strategy. Thus, workshop participants

welcomed an expressed concern for health that was already apparent in the draft strategy documents.

Whilst the evidence reviews were focussed specifically for London, they provide the basis of evidence that could be used by others undertaking HIa on similar topics and were therefore made available on public websites.^{8,10,11,12,13} Use of rapid evidence reviews also led to a project to improve their quality, accepting that the rapid time frames generally precluded a systematic review.^{25 26}

The GLA funded an external evaluation of the HIA process which showed that HIA did lead to changes in strategy, with more focus and inclusion of health issues and recognised health determinants.²⁷ An impact evaluation⁶ of the first (Transport) strategy had also demonstrated this.¹⁶

Incorporating HIA into the strategy development has had other benefits. It has provided an overt mechanism for the Mayor to fulfil his duties to consider health and health inequalities as cross-cutting themes and has ensured that many officers working at the GLA are more aware of health and its determinants and of their ability to affect these. This increased understanding of health led to the development of the Integrated Impact Assessment (IIA) method and recognition of the opportunities and overlaps between existing impact assessment processes.

The IIA method is evolving as it is used in different contexts. Experience to date has demonstrated that the advantages of integrating health into the SA, SEA EqIA process include:

- resources are focused on a single assessment process and the joint approach has engendered learning across both the health and sustainability sectors;
- health is considered as part of the statutory impact assessment processes;
- health is considered throughout the strategy process.

However, there is a need for active management to ensure that health is properly considered in the IIA. The IIAs completed by the GLA have mainly been undertaken by sustainability issues consultants; having a health expert in the team is specified in the consultant brief. The health expert on the steering group also champions the inclusion of health in the IIA.

The IIA method is now being mainstreamed in the GLA,

and is currently being used on the Mayor's Housing strategy and the replacement London Plan, Economic Development, and Transport strategies. Experience to date suggests that health may be incorporated into this IIA process. However, an evaluation of IIA is planned, to determine whether health is adequately addressed in this way.

The additional powers for the Mayor and the GLA in national legislation in 2007 gave the Mayor new lead roles on housing and adult skills; a strengthened role over planning, and additional strategic powers in a range of policy areas including waste, culture and sport, health inequalities, and climate change,⁴⁴ In 2008, there was a change of political leadership in the GLA, from Labour to Conservative with a new Mayor of London being elected. As the new areas of responsibility all impact on health, we anticipate that HIA and IIA will continue to be integral to strategy development. Word count 3,333

Contributors

Prof Sue Atkinson (RDPH) and Hilary Samson-Barry (London Regional Office NHSE secondee to Greater London Authority) persuaded the Mayor and Assembly to have the health impact assessments conducted. Those involved with organizing two or more health impact assessments included Caron Bowen (London Health Observatory, LHO); Gus Wilson (Greater London Authority); Dr Linda Sheridan, Dr Lesley Mountford, Liza Cragg, Gail Findlay (London Health Commission and Health Development Agency); Dr Steven Hajioff, Erica Ison; Dr Jennifer Mindell (Imperial College London and LHO) and Hilary Samson-Barry (DH). Dr Lesley Mountford summarized the recurrent recommendations from the HIA. Dr Steven Hajioff analysed the overlaps between the strategies and their health impacts and devised Figures 1 and 2. Paul Plant and Nannerl Herriott have led the work integrating health and Impact Assessment methods.

The first draft of the paper was written by CB, the second by JM and SA; the third by JM, NH, and CB; the fourth by NH and GF. All authors contributed to the final draft.

Ethical Approval

None required

Competing Interests

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Figure titles and legends

Figure 1 Synergies between Mayoral Strategies identified by HIAs

Footnote :

Source : Mindell J, Bowen C, Herriot N, Atkinson S. L'évaluation d'impact sur la santé: un instrument de santé publique dans le développement des stratégies régionales. [Health impact assessment: a public health instrument in the development of regional strategies]. *Télescope*. 2008;**14**:26-37. Reprinted with permission

Figure 2 Conflicts between Mayoral Strategies identified by HIAs

Footnote :

Source : Mindell J, Bowen C, Herriot N, Atkinson S. L'évaluation d'impact sur la santé: un instrument de santé publique dans le développement des stratégies régionales. [Health impact assessment: a public health instrument in the development of regional strategies]. *Télescope.* 2008;**14**:26-37. Reprinted with permission