

**EnvH 536: Health Impact Assessment**

Dept. of Environmental and Occupational Health Sciences, UW School of Public Health

**UrbDP 536: Health Impact Assessment**

Dept. of Urban Design and Planning, UW College of Built Environments

EnvH 536 and UrbDP 536 are taught concurrently. 2 credits.

3<sup>rd</sup> credit available for student(s) who volunteer to synthesize and edit the final class project HIA report into a form suitable for submission to external project stakeholders.

Instructor

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Course collaborators

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Class sessions: Spring Quarter, Thursdays, 5:00-6:50pm, March 30 – June 1, 2017

Location: Gould Hall, Room 110, University of Washington

Course Description

Health impact assessment (HIA) is a process used to inform decision-makers about the potential health impacts of proposed projects, plans, programs, and policies that do not traditionally focus on health outcomes (e.g. transportation, education, housing), but are likely to affect the public's health (<http://www.cdc.gov/healthyplaces/hia.htm>). HIAs are commonly used in Europe, Australia, and elsewhere. Over the past decade, HIA practice has grown rapidly in the United States. This course is appropriate for students interested in evaluating the links between community design and public health and applying this evidence to inform decision-making for new policies and plans. In the course, students consider the rationale for conducting HIAs, learn the steps to conduct an HIA, review national and international case studies, and discuss how HIA findings may impact decision-making. Then students conduct a detailed HIA of the health aspects of a currently proposed project or plan. For Spring Quarter 2017, this project will be an HIA of the Georgetown Mobility Study plan for multimodal circulation and safety improvements in the Georgetown area, in collaboration with Diane Wiatr and Ian Macek from the Seattle Department of Transportation. During the course, students will participate in a field visit to Georgetown to help them visualize the issues involved in the plan.

Prerequisites: Prior classes and/or experience in health and built environment, health policy, and urban planning issues are helpful but not required.

### **Course Learning Objectives**

At the conclusion of the course, students should be able to:

- Describe the purpose, benefits, and challenges of using health impact assessments to convey information about health to decision-makers
- Describe the core steps used to conduct HIAs including screening, scoping, assessment, making recommendations, reporting, and monitoring and evaluation
- Summarize the similarities and differences in using HIA as an approach separate from Environmental Impact Assessments
- Collaborate effectively with others in completing an HIA in an interdisciplinary environment
- Explain the application of HIAs to the policymaking process

### **Student Evaluation**

- Class participation including discussion of ideas from required readings - 15%
- Contribution to HIA conducted as class project - 50%
- Required paper #1: Paper and presentation analyzing an existing completed HIA - 20%
- Required paper #2: Comments on class draft HIA report and reflections on HIA process – 15%

### **Access and Accommodations**

Your experience in this class is important to us, and it is the policy and practice of the University of Washington to create inclusive and accessible learning environments consistent with federal and state law. If you experience barriers based on a disability or temporary health condition, please seek a meeting with Disability Resources for Students (DRS) to discuss and address them. If you have already established accommodations with DRS, please communicate your approved accommodations to your instructor so we can discuss your needs in this course. DRS offers resources and coordinates reasonable accommodations for students with disabilities and/or temporary health conditions. Reasonable accommodations are established through an interactive process between you, your instructors, and DRS. If you have not yet established services through DRS, but have a temporary health condition or permanent disability that requires accommodations (this can include but not limited to; mental health, attention-related, learning, vision, hearing, physical or health impacts), you are welcome to contact DRS at 206-543-8924 or [uwdrs@uw.edu](mailto:uwdrs@uw.edu) or <http://depts.washington.edu/uwdrs/>.

### **Academic Integrity**

Students at UW are expected to maintain the highest standards of academic conduct, professional honesty, and personal integrity. UW is committed to upholding standards of academic integrity consistent with the academic and professional communities of which it is a part. Plagiarism, cheating, and other misconduct are serious violations of the UW Student Conduct Code (WAC 478-120). We expect you to know and follow the university's policies on cheating and plagiarism, and the [SPH Academic Integrity Policy](#). Any suspected cases of academic misconduct will be handled according to UW regulations. For more information, see the UW Community Standards and Student Conduct website <http://www.washington.edu/cssc/>.

### **Readings**

Readings are available online and/or on Canvas Share Space. **For each class there are 1 or 2 REQUIRED readings and several optional readings. It is expected that, in addition to the required readings, you will read at least the abstract or executive summary of each of the optional articles and HIA reports listed.** Excellent performance involves reading completely at least half of all articles listed and contributing ideas from these readings to the class discussions.

## Class schedule

**March 30:** Introduction to course and introduction to HIA: Andrew Dannenberg

### Readings

- **REQUIRED:** Dannenberg AL. A brief history of health impact assessment in the United States. *Chronicles of Health Impact Assessments*. 1(1), 2016.

<https://journals.iupui.edu/index.php/chia/article/view/21348>

Additional readings for those with little knowledge in healthy community design:

- Malizia EE. City and regional planning: a primer for public health officials. *American Journal of Health Promotion*. 2005; 19(5S):1–13.
- Frumkin H, Wendel A, Abrams R, Malizia E. Introduction to healthy places. Chapter 1 in Dannenberg AL, Frumkin H, Jackson RJ, editors. *Making Healthy Places: Designing and Building for Health, Well-being and Sustainability*. Island Press, 2011 ([www.makinghealthyplaces.com](http://www.makinghealthyplaces.com)). Chapter 1 available on Canvas Share Space.

**April 6:** Introduction to Georgetown Mobility Plan for class HIA project: Diane Wiatr and Ian Macek, Seattle Department of Transportation  
HIA screening step: Andrew Dannenberg

### Readings:

- **REQUIRED:** HIA Toolkit, pages 31-38, Chapter 3 (Screening)  
<http://www.humanimpact.org/component/jdownloads/finish/11/81>
- **REQUIRED:** UW Spring 2015 HIA class project on SDOT Delridge Corridor Transportation Plan:  
[http://www.seattle.gov/transportation/docs/DelridgeCorridorHIA\\_FinalReport\\_8June2015.pdf](http://www.seattle.gov/transportation/docs/DelridgeCorridorHIA_FinalReport_8June2015.pdf)
- Optional: Paid sick leave HIA:  
<http://www.humanimpact.org/component/jdownloads/finish/5/72>
- Optional: Humboldt County (CA) General Plan HIA:  
<http://www.healthimpactproject.org/hia/us/humboldt-county-general-plan-update>
- Optional: Previous UW HIA class projects:
  - 2011: King Street Multi-modal Hub for Seattle Department of Transportation:  
<http://www.seattle.gov/transportation/docs/KingStreetStationMultimodalHubHIA.pdf>
  - 2012: Duwamish River Superfund Cleanup:  
<http://deohs.washington.edu/sites/default/files/2012-07-25-Duwamish-HIA-Report.pdf>
  - 2013: Tacoma South Downtown Subarea Plan:  
[http://cms.cityoftacoma.org/planning/Dome-Brewery%20Subarea/HIA\\_SouthDowntown\\_Tacoma\\_Low%20\(6-10-13\).pdf](http://cms.cityoftacoma.org/planning/Dome-Brewery%20Subarea/HIA_SouthDowntown_Tacoma_Low%20(6-10-13).pdf)
  - 2014: Pioneer Square Plan: [http://allianceforpioneersquare.org/wp/wp-content/uploads/2014/07/Pioneer\\_Square\\_HIA\\_final\\_16June2014.pdf](http://allianceforpioneersquare.org/wp/wp-content/uploads/2014/07/Pioneer_Square_HIA_final_16June2014.pdf)
  - 2016: Anacortes South Commercial Avenue Corridor Plan:  
<http://cms4.revize.com/revize/anacortes/South%20Commercial%20HIA%20Final%20Report%20June%202016.pdf>

**April 13:** Scoping step of HIA: Andrew Dannenberg  
Interactive session: Scoping phase for Georgetown Mobility HIA

### Readings:

- **REQUIRED:** HIA Toolkit, pages 39-48, Chapter 4 (Scoping)  
<http://www.humanimpact.org/component/jdownloads/finish/11/81>
- **REQUIRED:** Bhatia R, Farhang L, Heller J, Lee M, Orenstein M, Richardson M, Wernham A. *Minimum elements and practice standards for health impact assessment*, Version 3. September 2014.  
<https://sophia.wildapricot.org/resources/Documents/HIA-Practice-Standards-September-2014.pdf>

- Optional: Tamburrini A, Gilhuly K, Harris-Roxas B. Enhancing benefits in health impact assessment through stakeholder consultation. *Impact Assessment and Project Appraisal* 2011; 29(3):195-204. <http://www.tandfonline.com/doi/abs/10.3152/146155111X12959673796281>
- Optional: Bhatia R. *Health impact assessment: a guide for practice*. Human Impact Partners, 2011. <http://www.humanimpact.org/downloads/hia-guide-for-practice/> (skim this 89-page HIA reference guide now for later use in course).

**Student teams to be formed to be responsible for sections of final Georgetown Mobility HIA report, due June 2. Volunteers are sought to integrate and edit the final HIA document, including writing the introduction and conclusions. An extra credit hour is available for this role.**

**April 20:** Student presentations: Analysis of selected completed HIAs, Edmund Seto and Arthur Wendel

Readings:

- **REQUIRED:** James P, Ito K, Buonocore JJ, Levy JI, Arcaya MC. A health impact assessment of proposed public transportation service cuts and fare increases in Boston MA. *International Journal of Environmental Research and Public Health*. 2014;11:8010-8024; <http://www.mdpi.com/1660-4601/11/8/8010>
- Optional: Bhatia R, Seto E. Quantitative estimation in Health Impact Assessment: Opportunities and challenges. *Environmental Impact Assessment Review* 2011; 31:301-309.
- Optional: Hom E, Dannenberg AL, Farquhar S, Thornhill L. A systematic review of health impact assessments in the criminal justice system. *American Journal of Criminal Justice*. 2017. <http://link.springer.com/article/10.1007%2Fs12103-017-9391-9>
- Optional: Dannenberg AL, Ricklin A, Ross CL, Schwartz M, West J, White S, Wier ML. Use of health impact assessment for transportation planning: importance of transportation agency involvement in the process. *Transportation Research Record*. 2014; 2452:71-80.

**REQUIRED PAPER #1 DUE: ANALYSIS OF AN EXISTING COMPLETED HIA**

**April 27:** Assessment step: Andrew Dannenberg  
Interactive session: Assessment phase of Georgetown Mobility HIA

Readings:

- **REQUIRED:** HIA Toolkit, pages 49-72, Chapter 5 (Assessment) <http://www.humanimpact.org/component/jdownloads/finish/11/81>
- **REQUIRED:** Gase LN, Pennotti R, Smith KD. "Health in All Policies": taking stock of emerging practices to incorporate health in decision making in the United States. *Journal of Public Health Management and Practice*. 2013; 19(6):529-540.
- Optional: Johnson-Thornton RL, Greiner A, Fichtenberg CM, Feingold BJ, Ellen JM, Jennings JM. Achieving a healthy zoning policy in Baltimore: results of a health impact assessment of the TransForm Baltimore zoning code rewrite. *Public Health Reports*. 2013; 128(suppl 3):87-103.
- Optional: Richardson MJ, English P, Rudolph L. A health impact assessment of California's proposed cap-and-trade regulations. *American Journal of Public Health*. 2012; 102(9):e52-e58.

**May 4: Field visit to Georgetown.** Guided by Diane Wiatr and Ian Macek, Seattle Department of Transportation; depart UW 3:00pm, return 7:00pm

Readings:

- **REQUIRED:** Bhatia R, Wernham A. Integrating human health into environmental impact assessment: An unrealized opportunity for environmental health and justice. *Environmental Health Perspectives*. 2008; 116(8):991-1000. <http://www.ncbi.nlm.nih.gov/pmc/articles/PMC2516559/pdf/ehp0116-000991.pdf>
- Optional: Council on Environmental Quality. A Citizen's Guide to the National Environmental Policy Act (NEPA). 2007. [https://ceq.doe.gov/docs/get-involved/Citizens\\_Guide\\_Dec07.pdf](https://ceq.doe.gov/docs/get-involved/Citizens_Guide_Dec07.pdf)
- Optional: Heller J, Givens ML, Yuen TK, Gould S, Jandu MB, Bourcier E, Choi T. Advancing efforts to achieve health equity: equity metrics for health impact assessment practice. *International Journal of Environmental Research and Public Health*. 2014; 11(11):11054-11064. <http://www.mdpi.com/1660-4601/11/11/11054>
- Optional: Witter RZ, McKenzie L, Stinson KE, Scott K, Newman LS, Adgate J. The use of health impact assessment for a community undergoing natural gas development. *American Journal of Public Health*. 2013; 103(6):1002-1010.

**May 11:** HIA recommendations step: Andrew Dannenberg  
Interactive session: Recommendations phase for Georgetown Mobility HIA

Readings:

- **REQUIRED:** HIA Toolkit, pages 73-75, Chapter 6 (Recommendations) <http://www.humanimpact.org/component/jdownloads/finish/11/81>
- **REQUIRED:** Ross CL, Leone de Nie K, Dannenberg AL, Beck LF, Marcus MJ, Barringer J. Health impact assessment of the Atlanta BeltLine. *American Journal of Preventive Medicine*. 2012; 42(3):203-213. **See especially Table 2.**
- Optional: Gottlieb LM, Fielding JE, Braveman PA. Health impact assessment: necessary but not sufficient for healthy public policy. *Public Health Reports*. 2012; 127(2):156-162. <https://www.ncbi.nlm.nih.gov/pmc/articles/PMC3268800/pdf/phr127000156.pdf>
- Optional: Mindell J, Bowen C, Herriot N, Findlay G, Atkinson S. Institutionalizing health impact assessment in London as a public health tool for increasing synergy between policies in other areas. *Public Health* 2010; 124:107-114.

**May 18:** HIA reporting step: Andrew Dannenberg  
Interactive session: Reporting phase for Georgetown Mobility HIA

Readings:

- **REQUIRED:** HIA Toolkit, pages 76-84, Chapter 7 (Reporting) <http://www.humanimpact.org/component/jdownloads/finish/11/81>
- **REQUIRED:** SOPHIA Equity Workgroup. Communicating about equity in health impact assessment: a guide for practitioners. 2016. [https://sophia.wildapricot.org/resources/Documents/Communicating\\_Equity\\_in\\_HIA\\_Final.pdf](https://sophia.wildapricot.org/resources/Documents/Communicating_Equity_in_HIA_Final.pdf)
- Optional: Home energy assistance and child health HIA: <http://www.hiaguide.org/sites/default/files/ChildHIAofenergycostsandchildhealth.pdf>
- Optional: Hoehner CM, Rios J, Garmendia C, Baldwin S, Kelly CM, Knights DM, et al. Page Avenue health impact assessment: building on diverse partnerships and evidence to promote a healthy community. *Health and Place*. 2012; 18:85-95.

**FIRST DRAFT OF INDIVIDUAL HIA CHAPTERS DUE**

**May 25:** Monitoring and evaluation of HIAs – Andrew Dannenberg

Interactive session: Monitoring and evaluation phases for Georgetown Mobility HIA

Readings:

- **REQUIRED:** HIA Toolkit, pages 85-98, Chapters 8 and 9 (Monitoring and Evaluation) <http://www.humanimpact.org/component/jdownloads/finish/11/81>
- **REQUIRED:** Dannenberg AL. Effectiveness of health impact assessments: a synthesis of data from five impact evaluation reports. *Preventing Chronic Disease*. 13:150559, 2015. <http://dx.doi.org/10.5888/pcd13.150559>.
- Optional: Evaluation of Health Impact Assessment: Clark County Bicycle and Pedestrian Master Plan. 2011. [http://bikeportland.org/wp-content/uploads/2011/12/HIA\\_BPplan-copy.pdf](http://bikeportland.org/wp-content/uploads/2011/12/HIA_BPplan-copy.pdf)
- Optional: Mathias KR, Harris-Roxas B. Process and impact evaluation of the Greater Christchurch Urban Development Strategy Health Impact Assessment. *BMC Public Health*. 2009; 9:97. <http://www.ncbi.nlm.nih.gov/pmc/articles/PMC2670296/pdf/1471-2458-9-97.pdf>
  - **SECOND DRAFT OF INDIVIDUAL HIA CHAPTERS DUE**
  - **FIRST DRAFT OF INTEGRATED FULL HIA REPORT DUE**

**June 1:** Student presentations to SDOT stakeholders: Georgetown Mobility HIA report

- **REQUIRED PAPER #2 DUE: DRAFT REPORT EDITS AND REFLECTIONS**
- **SEMI-FINAL DRAFT OF FULL GEORGETOWN MOBILITY HIA REPORT DUE**

**June 6 (Tuesday): Due date for Georgetown Mobility HIA integrated final report**, ready for submission to SDOT stakeholders. Students completing report synthesis and editing will receive 3<sup>rd</sup> credit hour for course.

## **CLASS ACTIVITIES/REQUIREMENTS**

1. **Required paper #1** (submit to Canvas): 3 to 5 page single-spaced paper reviewing and critiquing an existing completed HIA, including
  - description of project/policy,
  - HIA quantitative and qualitative methods used,
  - major findings,
  - major recommendations,
  - strengths and weaknesses of this HIA, and
  - impact of HIA on subsequent decisions if available.

Choose your HIA for review from one of the following overlapping sources:

- a. List of 18 exemplary HIAs selected by SOPHIA – see below.
- b. List of 400+ HIAs completed in the US: Go to <http://www.healthimpactproject.org/hia/us>, use the “**List View**” tab (not “Map View”) and check the box for “Completed HIAs”. On this website, you can select an HIA by location or by sector such as agriculture and food, built environment, climate change, economic policy, education, gambling, housing, labor and employment, natural resources and energy, physical activity, transportation, and water. Some HIAs listed may contain too little or too much information to be useful for review purposes.

**[Let instructor know if any difficulty accessing this Health Impact Project website – it is currently being updated]**

**DUE DATE: April 20, 5:00pm**

2. **Student presentations of their analyses of existing completed HIAs:**  
On **April 20 in class**, students will present and discuss the HIA they reviewed for their written paper. Presentations will be 5 minutes per student plus 3 minutes for questions and discussion.
3. **Required paper #2** (submit to Canvas): 2 to 3 page single-spaced paper responding to following issues:
  - Specific comments about first draft of class HIA report; these should be sent to the class report editors no later than 5:00pm on Sunday, May 28 so they can be considered in the final report. These comments should also be included in this required paper #2 (report editors need not submit comments about report).
  - Reflections (not sent to editors) on the overall process of developing the class HIA
  - Reflections on any of the readings that you found particularly useful
  - Thoughts on how HIA may be useful as a tool in your future professional work
  - Any other comments about the class – both positive and critical comments are welcome

**DUE DATE JUNE 1, 5:00pm**
4. **Class report with contributions by all students: HIA of Georgetown Mobility Plan**  
On **June 1 in class**, a spokesperson for each of the 4-5 small groups of students will present for about 10 minutes the details of the portion of the Georgetown Mobility HIA for which they took primary responsibility, followed by class discussion of the issues presented. A student editor/synthesizer will open and close the student presentations. Georgetown Mobility Plan stakeholders from SDOT will be present and will provide feedback.
5. **Field trip to Georgetown – May 4.** Depart UW 3:00pm, return 7:00pm, using car pools. Photos taken by students during field trip will be used in final HIA report. Participation strongly encouraged. Alternate option will be to do a self-guided tour of site and write a brief report on observations.

**Examples of exemplary HIAs based on reviews by SOPHIA, available at**

<https://sophia.wildapricot.org/Model-HIA-Reports>

- Healthy Neighborhood Equity Fund HIA, 2013, Roxbury, MA; Community development
- Full-service grocery store development in a food desert HIA, 2013, Indianapolis; Food & nutrition
- US Equal Employment Opportunity Commission policy guidance HIA, 2013; Criminal justice
- San Francisco Bay Area's regional transportation plan HIA, 2013; Transportation
- Baltimore-Washington rail intermodal facility HIA, 2013; Transportation
- Rental assistance demonstration project HIA, 2012, U.S.; Housing
- Hawaii County agriculture development plan HIA, 2012; Agriculture
- Madison (WI) alcohol license density ordinance HIA, 2014; Government policy
- Preesall underground gas storage facility, Lancashire (UK) HIA, 2011; Industrial facility
- Baltimore comprehensive zoning code rewrite HIA, 2010; Urban development
- Christchurch urban development strategy options HIA, 2006, New Zealand; Urban development
- Page Avenue HIA, 2010, St. Louis; Urban redevelopment
- HIA of mining activities near Keno City, Yukon, Canada, 2012; Resource development
- Poultry litter-to-energy facility in the Shenandoah Valley (VA) HIA, 2013; Resource development
- California Domestic Work Employee Equality and Fairness Act of 2011 HIA; Government policy
- Oregon HB 2800 farm-to-school and school garden policy HIA, 2011; Government policy
- Potential health effects of casino development in southeast Kansas, 2012; Government plan
- Health effects of road pricing in San Francisco, 2011; Municipal plan

## **Other resources available**

### **Books**

- National Research Council of the National Academies. *Improving health in the United States: The role of health impact assessment*. Washington, DC: National Academies Press, 2011. Available free at [http://www.nap.edu/catalog.php?record\\_id=13229](http://www.nap.edu/catalog.php?record_id=13229).
- Birley M. *Health impact assessment: Principles and practice*. London: EarthScan/Taylor and Francis, 2011. <http://www.routledge.com/books/details/9781849712774/>
- Kemm JR, editor. *Health impact assessment: Past achievement, current understanding, and future progress*. Oxford: Oxford University Press, 2012. [http://www.amazon.com/dp/0199656010/ref=rdr\\_ext\\_tmb](http://www.amazon.com/dp/0199656010/ref=rdr_ext_tmb)
- O'Mullane M, editor. *Integrating health impact assessment with the policy process: Lessons and experiences from around the world*. Oxford: Oxford University Press, 2013. <http://ukcatalogue.oup.com/product/9780199639960.do>.
- Ross CL, Orenstein M, Botchwey N. *Health impact assessment in the United States*. New York: Springer, 2014. <http://www.springer.com/medicine/book/978-1-4614-7302-2?otherVersion=978-1-4614-7303-9>
- Wismar M, Blau J, Ernst K, Figueras J. *The effectiveness of health impact assessment: Scope and limitations of supporting decision-making in Europe*. Brussels: European Observatory on Health Systems and Policies, 2007. Available free at: [http://www.euro.who.int/\\_data/assets/pdf\\_file/0003/98283/E90794.pdf](http://www.euro.who.int/_data/assets/pdf_file/0003/98283/E90794.pdf)

### **Websites** for more information about HIA

- Pew Charitable Trusts Health Impact Project: [www.healthimpactproject.org](http://www.healthimpactproject.org)
- Human Impact Partners, Oakland CA: [www.humanimpact.org](http://www.humanimpact.org)
- Centers for Disease Control and Prevention: [www.cdc.gov/healthylives/hia.htm](http://www.cdc.gov/healthylives/hia.htm)
- UCLA HIA Clearinghouse: [www.hiaguide.org](http://www.hiaguide.org)
- American Planning Association: <https://www.planning.org/nationalcenters/health/planninghia/>
- HIA Gateway, Association of Public Health Observatories (UK): [http://www.apho.org.uk/default.aspx?QN=P\\_HIA](http://www.apho.org.uk/default.aspx?QN=P_HIA)
- World Health Organization: <http://www.who.int/hia/en/>

### **List of HIA publications with US authors:** 1999-March 2017 available on Canvas

- List for 1999-February 2016 available at [http://www.cdc.gov/healthylives/docs/hiaarticles\\_usauthors\\_29february2016.pdf](http://www.cdc.gov/healthylives/docs/hiaarticles_usauthors_29february2016.pdf)

### **Selected guides** to conducting HIAs

Review of all guides to conducting HIAs: Hebert KA, Wendel AM, Kennedy SK, Dannenberg AL. *Health impact assessment: a comparison of 45 local, national, and international guidelines. Environmental Impact Assessment Review*. 2012; 34:74-82. Available on Canvas.

Bhatia R. *Health impact assessment: a guide for practice*. Human Impact Partners, 2011.

<http://www.humanimpact.org/downloads/hia-guide-for-practice/>

Human Impact Partners. *A health impact assessment toolkit: a handbook to conducting HIA*.

3<sup>rd</sup> edition. 2011. <http://www.humanimpact.org/downloads/hia-toolkit-2011/>

International Health Impact Assessment Consortium, Liverpool, UK. *The Merseyside guidelines for health impact assessment*. 2001.

<http://www.apho.org.uk/resource/item.aspx?RID=44256>

International Health Impact Assessment Consortium, Liverpool, UK. *European policy health impact assessment: a guide*. 2004. <http://www.apho.org.uk/resource/item.aspx?RID=44882>

University of Birmingham, Department of Public Health and Epidemiology. *A training manual for health impact assessment*. 2003. [www.apho.org.uk/resource/item.aspx?RID=44927](http://www.apho.org.uk/resource/item.aspx?RID=44927)

University of Minnesota, Design for Health. *Rapid health impact assessment toolkit*. 2008.

[http://designforhealth.net/wp-content/uploads/2012/12/BCBS\\_Rapidassessment\\_011608.pdf](http://designforhealth.net/wp-content/uploads/2012/12/BCBS_Rapidassessment_011608.pdf)