Promoting Health Science Competencies through Socioscientific Issues
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Web Resources

**Pedagogy in Action, The SERC Portal for Educators**
*Using Socioscientific Issues-Based Instruction*
*Provides rationale and resources, including examples and modules for SSI-based teaching*

**SENCER, Science Education for New Civic Engagements and Responsibilities**
[http://www.sencer.net/About/aboutus.cfm](http://www.sencer.net/About/aboutus.cfm)
*“SENCER courses and programs connect science, technology, engineering, and mathematics content to critical local, national, and global challenges.”*
The website provides models for interdisciplinary STEM courses and teaching practices such as service learning and interdisciplinary learning.

**PIHNet (Persistent Issues in History Network), SSI Framework**
[http://156.56.1.74/pbltec/ssinetcur/ssinetframework](http://156.56.1.74/pbltec/ssinetcur/ssinetframework)
*Describes use of Socioscientific Inquiry in the Classroom. Includes a biology curriculum map.*

**Books**

*Provides explanation of SSI, descriptions of various SSI learning environments, and outcomes of studies on SSI teaching.*

*Provides full SSI units for K12 education. While modules are not appropriate to college classrooms, they provide concrete examples of the types of activities that can be built into SSI lessons. Additionally, selected issues can be adapted for college classes.*

**Recommended Articles**

*This paper illustrates a process and multiple pedagogical techniques for engaging students in ethical reasoning around science or health issues.*

*This paper is pitched to K-12 teachers, but has some wonderful principles for structuring argumentation and describes the “silent debate” activity.*
Tools & Activities for SSI

**Sources**
- Video clips
- Newspaper articles
- Opposing viewpoints
- Historical debates
- Case studies
- SSI resource sites
- Google News
  - Health
  - Science

**Activities**
- Web quests
- Analysis of primary literature
- Data collection (lab)
- Debate (silent debate)
- Stakeholder perspectives (jigsaw)
- Ethical arguments
- “Anatomy in the News”
- Poster presentations
- Role play
- Service Learning, community-based projects

Modified from Sadler, 2011