

CHART #1: U.S. PRESIDENTIAL CANDIDATES' HEALTH CARE PLANS: SIDE-BY-SIDE COMPARISON OF LEADING DEMOCRATIC CANDIDATES' SCIENTIFIC AND MEDICAL RESEARCH PROPOSALS

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	Key Features	Funding Requirements	Workforce Recruitment Issues	Stem Cell Research	Special Research Initiatives
<p>Hillary Clinton</p> 	<ul style="list-style-type: none"> ➤ Ensure that research institutes (e.g. National Institutes of Health, National Science Foundation, Department of Defense, and Department of Energy) and e-science initiatives are well-funded¹ ➤ Multi-year funding commitment will provide predictability and help ensure the next generation of scientists will be adequately funded¹ ➤ Reinvigorate the White House Office of Science and Technology Policy and prevent politicization of science² ➤ Boost support for multidisciplinary research in areas such as the intersection of bio, info and nanotechnologies³ 	<ul style="list-style-type: none"> ➤ Increase the budget of the National Institutes of Health by 50% over 5 years and double it over 10 years⁴ ➤ Increase the basic research budgets by 50% over 10 years at the National Science Foundation, Department of Defense, and Department of Energy⁵ ➤ Require that Federal research agencies set aside at least 8% of their research budgets for discretionary funding of high-risk research⁶ ➤ Cost of enhanced NSF fellowship program is \$500 million¹ 	<ul style="list-style-type: none"> ➤ Provide incentives to foster science innovation and recruitment of new scientists⁷ ➤ Triple the number of graduate fellowships offered by the National Science Foundation to a total of 3,000 annually⁸ ➤ Proposes increasing the National Science Foundation student stipend by one-third to \$40,000⁹ ➤ Proposes to direct Federal agencies to award prizes in order to accomplish specific innovation goals¹⁰ ➤ Supports initiatives to recruit more women and minorities into the math, science, and engineering professions¹¹ ➤ Proposes that Federal agencies adopt criteria that consider diversity when awarding research grants¹² 	<ul style="list-style-type: none"> ➤ Has pledged to lift the ban on Federal funding of embryonic stem cell research if elected^{13,14} ➤ Voted <i>in favor</i> of the S.5 Stem Cell Research Enhancement Act of 2007¹⁵ 	<ul style="list-style-type: none"> ➤ Increase investments in non-health applications of biotechnology through the NIH¹ ➤ Supports breast cancer research to help us find the causes and cure¹⁶ ➤ Establish an independent public/private best practices institute to finance comparative effectiveness research and evidence based medicine to determine what drugs, devices, surgeries and treatments work best and reduce use of inefficient and ineffective treatments¹⁷ ➤ Would increase focus on AIDS including addressing disparities in education and services¹⁸

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<p align="center">John Edwards</p> 	<ul style="list-style-type: none"> ➤ Strengthen scientific research ➤ Believes science is the key to innovation in the American economy and that the United States must lead the way in scientific inquiry¹⁹ ➤ White House Office of Science and Technology Policy will play a central role²⁰ ➤ Policy should be science-driven. Will insulate scientists in the Federal government from political influence²¹ 	<ul style="list-style-type: none"> ➤ Strongly disapproves of funding cuts that have occurred at the National Institutes of Health²² 	<ul style="list-style-type: none"> ➤ Send more children to college and invest in graduate programs to create a new generation of scientists²³ ➤ Invest in next generation of math and science teachers with higher pay, college loan forgiveness and better teacher training programs²⁴ ➤ Supports student visa programs with better and more efficient tracking mechanisms to attract young international scholars²⁵ ➤ Convene an expert panel to identify whether there are discoveries where prizes, not patent monopolies, would offer new incentives to researchers²⁶ 	<ul style="list-style-type: none"> ➤ Favors expanding Federal funding for embryonic stem cell research²⁷ 	<ul style="list-style-type: none"> ➤ Supports medical research into health disparities²⁸ ➤ Provide leadership and collaborate with other countries to address and solve global health problems²⁹ ➤ Evaluate devices and drugs, compare effectiveness, and disseminate findings to health care providers and patients³⁰ ➤ Direct NIH to do research on more efficient vaccine production methods³¹
<p align="center">Barack Obama</p> 	<ul style="list-style-type: none"> ➤ Would create a national sense of urgency for scientific and technological innovation³² ➤ Proposes doubling Federal funding of basic research over the next five years³³ ➤ Invest in the modernization of infrastructure, particularly public health laboratories³⁴ 	<ul style="list-style-type: none"> ➤ Invest to maintain U.S. scientific and technological edge will be about \$42 billion over five years³⁵ 	<ul style="list-style-type: none"> ➤ Invest in workforce recruitment³⁶ ➤ Invest in future scientific innovators by training 100,000 more engineers and scientists over the next four years, or providing new research grants to the most outstanding early career researchers in the US³⁷ 	<ul style="list-style-type: none"> ➤ Supports relaxing Federal restrictions on embryonic stem cell research³⁸ ➤ Voted <i>in favor</i> of the S.5 Stem Cell Research Enhancement Act of 2007³⁹ 	<ul style="list-style-type: none"> ➤ Supporter of over \$1 billion in Federal funding for autism research and treatment⁴⁰ ➤ Increase genomics-based research⁴¹ ➤ Expand and accelerate research on medications and treatments for HIV/AIDS⁴² ➤ Supports the development of microbicides, which holds promise for HIV prevention for women⁴³ ➤ Establish independent Institute to guide reviews and research on comparative effectiveness drugs, devices and procedures to improve medical decision-making⁴⁴

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¹ "Hillary Clinton's Innovation Agenda: Investing in Ideas and Creating High-Wage Jobs of the Future," 8 August 2007 <<http://www.hillaryclinton.com/feature/innovation/>>.

² Ibid.

³ "Fact Sheet," 31 July 2007 <<http://hillaryclinton.com/?splash=1>>.

⁴ "Hillary Clinton's Innovation Agenda: Investing in Ideas and Creating High-Wage Jobs of the Future," 8 August 2007 <<http://www.hillaryclinton.com/feature/innovation/>>.

⁵ Ibid.

⁶ Ibid.

⁷ "Hillary Clinton, as President, Would Shift Budget Priorities for Scientific Research," *The Chronicle of Higher Education: News Blog*, 1 June 2007, 6 August 2007 <<http://chronicle.com/news/article/2415/hillary-clinton-as-president-would-shift-budget-priorities-for-scientific-research>>.

⁸ "Hillary Clinton's Innovation Agenda: Investing in Ideas and Creating High-Wage Jobs of the Future," 8 August 2007 <<http://www.hillaryclinton.com/feature/innovation/>>.

⁹ "Hillary Clinton, as President, Would Shift Budget Priorities for Scientific Research."

¹⁰ "Hillary Clinton's Innovation Agenda: Investing in Ideas and Creating High-Wage Jobs of the Future," 8 August 2007 <<http://www.hillaryclinton.com/feature/innovation/>>.

¹¹ Ibid.

¹² Ibid.

¹³ "Statement of Hillary Clinton on Expected Veto of Stem Cell Legislation," 20 June 2007, 6 August 2007 <<http://www.hillaryclinton.com/news/release/view/?id=2111>>.

¹⁴ "Clinton vows to lift ban on stem-cell research," 15 June 2007, 6 August 2007 <<http://politicalticker.blogs.cnn.com/2007/06/15/clinton-vows-to-lift-ban-on-stem-cell-research/>>.

¹⁵ "U.S. Senate Roll Call Votes 110th Congress- 1st Session, Measure Number: S.5 (Stem Cell Research Enhancement Act of 2007), Measure Title: A bill to amend the Public Health Service Act to provide for human embryonic stem cell research.," 11 April 2007, 8 August 2007 <http://www.senate.gov/legislative/LIS/roll_call_lists/roll_call_vote_cfm.cfm?congress=110&session=1&vote=00127>.

¹⁶ "We Cannot Afford Breast Cancer," *Blog for Hope: Hillary Clinton*, 14 August 2005, 14 August 2007 <http://blogs.health.yahoo.com/blog-for-hope/clinton/11/we-cannot-afford-breast-cancer:_ylt=AqPFgmj.6g5mjlrV29AKCDdEskF>.

¹⁷ "Health Care: Hillary Remarks on Reducing the Cost of Health Care," 24 May 2007, 14 August 2007 <<http://www.hillaryclinton.com/news/speech/view/?id=1789>>.

¹⁸ Maria Liasson, "Democratic Presidential Hopefuls Debate," *NPR: Morning Edition*, 29 June 2007, 14 August 2007 <<http://www.npr.org/templates/story/story.php?storyId=11596240>>.

¹⁹ "Exclusive: Interview with Senator John Edwards on Science-Related Topics," *Science Blogs*, 9 July 2007, 6 August 2007 <http://scienceblogs.com/clock/2007/07/exclusive_interview_with_senat.php>.

²⁰ Ibid.

²¹ Ibid.

²² Ibid.

²³ Ibid.

²⁴ Ibid.

²⁵ Ibid.

²⁶ "Reforming Health Care to Make it Affordable, Accountable, and Universal." *John Edwards 08*. 26 June 2007 <<http://johnedwards.com/news/headlines/20070614-healthcare-costs-quality.pdf>>.

²⁷ "The Candidates on Stem Cell Research," *The Pew Forum on Religion and Public Life*, 6 August 2007 <http://pewforum.org/religion08/compare.php?Issue=Stem_Cell_Research>.

²⁸ "Universal Health Care Through Shared Responsibility," 6 August 2007 <<http://johnedwards.com/issues/health-care/health-care-fact-sheet/>>.

²⁹ "Restoring America's Moral Leadership by Fighting Worldwide Poverty," 8 August 2007 <<http://johnedwards.com/issues/global-poverty/>>.

³⁰ "Reforming Health Care to Make it Affordable, Accountable, and Universal." *John Edwards 08*. 26 June 2007 <<http://johnedwards.com/news/headlines/20070614-healthcare-costs-quality.pdf>>.

³¹ Ibid.

³² Barack Obama, *The Audacity of Hope*, Oct 1, 2006, p.165-167.

³³ Ibid.

³⁴ Ibid.

³⁵ Ibid.

³⁶ Ibid.

³⁷ Ibid.

³⁸ "The Candidates on Stem Cell Research," *The Pew Forum on Religion and Public Life*, 6 August 2007 <http://pewforum.org/religion08/compare.php?Issue=Stem_Cell_Research>.

³⁹ "U.S. Senate Roll Call Votes 110th Congress- 1st Session, Measure Number: S.5."

⁴⁰ "Barack's Principles: Quality Affordable Healthcare for All by the End of Barack Obama's First Term in Office," 8 August 2007 <<http://www.barackobama.com/issues/healthcare/>>.

⁴¹ "Health Care," 8 August 2007 <http://obama.senate.gov/issues/health_care/>.

⁴² Ibid.

⁴³ "One-on-One: US Senator Barack Obama (D-IL)," *The Body: The Complete HIV/AIDS Resource*, September/October 2006, 6 August 2007 <<http://www.thebody.com/content/art38112.html>>.

⁴⁴ "Barack Obama's Plan for a Healthy America." Obama '08. 26 June 2007 <<http://www.barackobama.com/pdf/HealthPlanFull.pdf>>.