EXPERIMENTS IN TORTURE: Evidence of Human Subject Research and Experimentation in the “Enhanced” Interrogation Program

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PHYSICIANS FOR
HUMAN RIGHTS

PHR was founded in 1986 on the idea that health professionals, with their specialized skills, ethical commitments, and credible voices, are uniquely positioned to investigate the health consequences of human rights violations and work to stop them.

Since 2005, PHR has documented the systematic use of psychological and physical torture by US personnel against detainees held at Guantánamo Bay, Abu Ghraib, Bagram airbase, and elsewhere in its groundbreaking reports Break Them Down; Leave No Marks; Broken Laws, Broken Lives; and Aiding Torture.

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# Evidence of Human Subject Research and Experimentation in the “Enhanced” Interrogation Program

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EXECUTIVE SUMMARY

Following the Sept. 11, 2001, attacks, the Bush administration initiated new human intelligence collection programs. To that end, it detained and questioned an unknown number of people suspected of having links to terrorist organizations. As part of these programs, the Bush administration defined acts, such as waterboarding, forced nudity, sleep deprivation, temperature extremes, stress positions and prolonged isolation, that had previously been recognized as illegal, to be “safe, legal and effective” “enhanced” interrogation techniques (EITs).

Bush administration lawyers at the Department of Justice’s (DoJ’s) Office of Legal Counsel (OLC) accomplished this redefinition by establishing legal thresholds for torture, which required medical monitoring of every application of “enhanced” interrogation. Medical personnel were ostensibly responsible for ensuring that the legal threshold for “severe physical and mental pain” was not crossed by interrogators, but their presence and complicity in intentionally harmful interrogation practices were not only apparently intended to enable the routine practice of torture, but also to serve as a potential legal defense against criminal liability for torture.

Investigation and analysis of US government documents by Physicians for Human Rights (PHR) provides evidence indicating that the Bush administration, in the period after Sept. 11, conducted human research and experimentation on prisoners in US custody as part of this monitoring role. Health professionals working for and on behalf of the CIA monitored the interrogations of detainees, collected and analyzed the results of those interrogations, and sought to derive generalizable inferences to be applied to subsequent interrogations. Such acts may be seen as the conduct of research and experimentation by health professionals on prisoners, which could violate accepted standards of medical ethics, as well as domestic and international law. These practices could, in some cases, constitute war crimes and crimes against humanity.

The knowledge obtained through this process appears to have been motivated by a need to justify and to shape future interrogation policy and procedure, as well as to justify and to shape the legal environment in which the interrogation program operated.

PHR analyzes three instances of apparent illegal and unethical human subject research for this report:
1. Medical personnel were required to monitor all waterboarding practices and collect detailed medical information that was used to design, develop, and deploy subsequent waterboarding procedures;
2. Information on the effects of simultaneous versus sequential application of the interrogation techniques on detainees was collected and used to establish the policy for using tactics in combination. These data were gathered through an assessment of the presumed “susceptibility” of the subjects to severe pain;
3. Information collected by health professionals on the effects of sleep deprivation on detainees was used to establish the “enhanced” interrogation program’s (EIP) sleep deprivation policy.

The human subject research apparently served several purposes. It increased information on the physical and psychological impact of the CIA’s application of the “enhanced” interrogation techniques, which previously had been limited mostly to data from experiments using US military volunteers under very limited, simulated conditions of torture. It served to calibrate the level of pain experienced by detainees during interrogation, ostensibly to keep it from crossing the administration’s legal threshold of what it claimed constituted torture. It also served as an attempt to provide a basis for a legal defense against possible torture charges against those who carried out the interrogations, since medical monitoring would demonstrate, according to the Office of Legal Counsel memos, a lack of intent to cause harm to the subjects of interrogations.

Yet the Bush administration’s legal framework to protect CIA interrogators from violating US statutory and treaty obligations prohibiting torture effectively contravened well-established legal and ethical codes, that, had they been enforced, should have protected prisoners against human experimentation, and should have prevented the “enhanced” interrogation program from being initiated in the first place. There is no evidence that the Office of Legal Counsel ever assessed the lawfulness of the medical monitoring of torture, as it did with the use of the “enhanced” techniques themselves.

The use of torture and cruel and inhuman treatment in interrogations of detainees in US custody has been well-documented by Physicians for Human Rights (PHR) and others. The role of health professionals in designing, monitoring and participating in torture also has been investigated and publicly documented. This current report provides evidence that in addition to medical complicity in torture, health professionals participated in research and experimentation on detainees in US custody.

The use of human beings as research subjects has a long and disturbing history filled with misguided and often willfully unethical experimentation. Ethical codes and federal regulations have been established to protect human subjects from harm and include clear standards for informed consent of participants in research, an absence of coercion, and a requirement for rigorous scientific procedures. The essence of the ethical and legal protections for human subjects is that the subjects, especially vulnerable populations such as prisoners, must be treated with the dignity befitting human beings and not simply as experimental guinea pigs.
The use of health professionals to monitor intentionally harmful interrogation techniques places them in the service of national security objectives which are in conflict with the interests of those who they are monitoring. The result has been a co-opting of health professionals by the national security apparatus and a violation of the highest medical admonition to “do no harm.” Until the questions examined in this paper are answered and, if ethical violations or crimes were committed, those responsible are held accountable, the misuse of medical and scientific expertise for expedient and non-therapeutic goals jeopardizes the ethical integrity of the profession, and the public trust in the healing professions risks being seriously compromised.

**Methods and Limitations**

This PHR report draws primarily upon US government documents in the public record, including memoranda from the Office of Legal Counsel and the CIA’s Office of Inspector General Special Review of the CIA Enhanced Interrogation Program.

Most of these documents are heavily redacted and many additional, relevant documents remain classified. While the observational medical monitoring data are not publicly available for the instances indicating human experimentation cited by PHR, and while the specific extent to which medical personnel complied with requirements of the CIA’s Office of Medical Services (OMS) monitoring requirements is not known, there is clear evidence that medical personnel were required to monitor and document all EIT practices and that generalizable knowledge derived therefrom subsequently was used to refine harmful EIT practices.

While this report provides evidence that data from human research were compiled, apparently analyzed, and used to affect subsequent interrogations and to set policy, a comprehensive federal investigation is required to answer the questions this evidence raises.

**Recommendations**

Physicians for Human Rights calls on the White House and Congress to investigate thoroughly the full scope of the possible human experimentation designed and implemented in the post-Sept. 11 period. The War Crimes Act must be amended to restore traditional human subject protections.

Those who authorized, designed, implemented and supervised these alleged practices of human experimentation — whether health professionals, uniformed personnel, or civilian national security officials — must be held to account for their actions if they are found to have violated what international tribunals previously have held to constitute war crimes and crimes against humanity.

If any victims of research and experimentation perpetrated by the United States are found, they must be offered compensation, including health care services, to address ongoing health effects related to the experimentation, and a formal apology.

Based on the findings of this investigation, the United States should take the following actions:

1. President Obama must order the attorney general to undertake an immediate criminal investigation of alleged illegal human experimentation and research on detainees conducted by the CIA and other government agencies following the attacks on Sept. 11, 2001.
2. The secretary of the Department of Health and Human Services must instruct the Office for Human Research Protections (OHRP) to begin an investigation of alleged violations of the Common Rule by the CIA and other government agencies as part of the “enhanced” interrogation program.
3. Congress must amend the War Crimes Act to eliminate changes made to the Act in 2006 which weaken the prohibition on biological experimentation on detainees, and ensure that the War Crimes Act definition of the grave breach of biological experimentation is consistent with the definition of that crime under the Geneva Conventions.
4. Congress should convene a joint select committee comprising members of the House and Senate committees responsible for oversight on intelligence, military, judiciary and health and human services matters to conduct a full investigation of alleged human research and experimentation activities on detainees in US custody.
5. President Obama should issue an executive order immediately suspending any federally funded human subject research currently occurring in secret — regardless of whether or not it involves detainees.
6. The Department of Justice’s Office of Professional Responsibility should commence an investigation into alleged professional misconduct by OLC lawyers related to violations of domestic and international law and regulations governing prohibitions on human subject experimentation and research on detainees.
7. President Obama should appoint a presidential task force to restore the integrity of the US regime of protections for human research subjects. This task force, comprising current and former officials from the Department of Health and Human Services, the Food and Drug Administration, the National Institutes of Health, the human rights community, and leading health professional associations, should review current human subject protections for detainees, and recommend changes to ensure that the human rights of those in US custody are upheld.
8. States should adopt policies specifically prohibiting participation in torture and improper treatment of prisoners by health care professionals. Such participation is considered professional misconduct and is grounds for loss of professional licensure. Proposed legislation in New York State provides a model for such policy.
9. The United Nations special rapporteur on torture should undertake an investigation of allegations that the United States engaged in gross violations of international human rights law by engaging in human subject research and experimentation on detainees in its custody.
BACKGROUND ON ILLEGAL AND UNETHICAL RESEARCH AND EXPERIMENTATION

Bush administration lawyers at the Department of Justice’s (DoJ’s) Office of Legal Counsel (OLC) utilized the collection and application of medical information from detainees for the purpose of drawing conclusions about the potential harm inflicted from the acts committed during “enhanced” interrogation, in an attempt to redefine acts previously recognized as torture to be “safe, legal and effective” interrogation techniques.

The OLC lawyers accomplished this by establishing legal thresholds for “severe physical and mental pain” for torture that could only be assessed by meticulous medical monitoring of individual enhanced interrogation techniques. Whether the OLC lawyers or the health professionals involved realized that the federally-funded systematic collection and recording of those observations for such purposes constitutes human experimentation may be important in assessing intent, but has no bearing on whether or not it can constitute a crime. It is important to understand that the evidence of human experimentation presented in this report was part of an interrogation program that authorized torture and required the complicity of health professionals in the intentional infliction of harm.

US Laws and Regulations Governing Human Subject Research and Experimentation

Human subject experimentation and research have specific meanings in US law. Federal regulations define research as follows:

Research means a systematic investigation, including research development, testing and evaluation, designed to develop or contribute to generalizable knowledge. Activities which meet this definition constitute research for purposes of this policy, whether or not they are conducted or supported under a program which is considered research for other purposes.1

Human subject research is defined under federal regulations as follows:

Human subject means a living individual about whom an investigator (whether professional or student) conducting research obtains

1. data through intervention or interaction with the individual, or
2. identifiable private information.2

Human research, therefore, involves the systematic collection of data for the purpose of drawing generalizable inferences. Activities that constitute human subject research and experimentation do not require a particular research study design, the testing of hypotheses, or the use of control groups. Many types of legitimate human subject research3 constitute human experimentation, including observational studies, such as the SERE4 (Survival, Evasion, Resistance, and Escape) studies, which evaluated the effects of various interrogation techniques on US soldier-subjects, and for which human subject protections applied and informed consent was required and obtained. The systematic collection of personalized information from any human subjects, whether patients, volunteers, soldier-subjects, prisoners, or any other group, for purposes other than their direct benefit requires human subject protections, such as informed consent, and prospective review of and approval by an institutional review board (IRB), regardless of the information-gathering methods used or the stated purpose of the inquiry.

In general, federally funded experimentation involving human subjects can occur only with the prior informed consent of the study subjects. Human experimentation without the consent of the subject is a violation of international human rights law to which the United States is subject; federal statutes; the Common Rule, which comprises the federal regulations for research on human subjects and applies to 17 federal agencies, including the Central Intelligence Agency (CIA) and the Department of Defense (DoD); and universally accepted health professional ethics, including the Nuremberg Code.5 Human experimentation on detainees also can constitute a war crime6 and a crime against humanity7 in certain circumstances.

In US medical and other scientific settings, federally funded research regimes involving human subjects are subject to a rigorous pre-approval process by the research institution’s IRB or similar mechanism. In both civilian and government settings, the institutional review board prospectively reviews the purposes, methods, and goals of the project, the benefits expected to result, the potential harm to volunteer subjects, the investigators’ efforts to minimize these harms, and specific details about how informed consent of

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Footnotes:

1. 45 Code of Federal Regulations (C.F.R.) § 46.102(d) (2005)
2. Ibid
3. Legitimate human subject research conducted by health professionals, academic researchers, and other scientists can include studying the effectiveness of specific medical treatments on patients, collecting data to better understand a sociological problem, or assessing the susceptibility of certain demographic groups to disease, etc.
4. US military and intelligence services participate in Survival, Evasion, Resistance, Escape (SERE) training to prepare their personnel to withstand torture and abuse if captured by a hostile force that does not observe the Geneva Conventions’ standards for POW treatment.
the volunteer subjects will be obtained. Any US health professional who has participated in research involving humans is required to be fully familiar with such approval mechanisms, which credible institutions undertake with the utmost rigor and seriousness in promoting the ethical conduct of human research, in compliance with the Nuremberg Code and other international and US research standards.

The essence of the extensive ethical and legal protections for human subjects is that the subjects, especially vulnerable populations such as prisoners, must be treated with the dignity befitting human beings and not simply as experimental guinea pigs. The Nuremberg Code and other guidelines also call on the medical professional to treat persons with their best interests in mind and to minimize pain or other risks and harms in the service of a research goal. Doctors are required to use treatments that are expected to be effective and not to engage in speculative medicine at the expense of a human research subject.

By contrast, no official, explicit review and authorization by an institutional review board for research on detainees who were designated as enemy combatants during the period in question exists in the public record, to fulfill the requirements of the Common Rule. No publicly-available evidence indicates that the Bush administration ever sought or received such formal authorization for the “enhanced” intelligence research program. There is also no evidence that the CIA or DoD ever filed a waiver for informed consent covering this research with the Department of Health and Human Services (HHS), as required by federal regulations.

No evidence has yet been made public of a formal protocol for research by the CIA’s Office of Medical Services (OMS) on detainees in US custody. However, several examples within the DoJ memos and other government documents reveal the implementation of a program of medical monitoring that involved many core elements of a research regime, namely, the meticulous collection and analysis of data to derive generalizable knowledge (in this case, knowledge relating to the “safety” and effects of torture techniques). As Llanusa-Cestero documented in Accountability in Research, the core elements, goals, roles, and rationales of a research plan are present in declassified documents related to the “enhanced” intelligence program (EIP), despite there being no public evidence of IRB approval or a formalized research plan.

Both before and after Sept. 11, 2001, experimentation for non-clinical purposes on detainees by US military and intelligence services—either with or without their consent—would not have been permissible under widely accepted and understood interpretations of US and international law and medical ethics. Such experimentation violates accepted US legal interpretations, as well as all governing codes of conduct for any health professionals involved.

Also, the “science” on which the authorization of the EIP was based is flawed by any reasonable standard because it served as a means of justifying a predetermined legal end of aiding in the authorization of torture. Even the claim of systematic medical monitoring in the name of making “enhanced” intelligence techniques (EITs) “safe, legal, and effective” is contradicted by official monitoring policy, which failed to adequately take into account the mental harm caused by the tactics, among other factors. In fact, the “enhanced” interrogation techniques are premised on the infliction of mental harm, so the concept of studying them to make them more effective is ethically impermissible, and studying them to make them “safer” is logically untenable — as the techniques are unsafe by design.

The Bush Administration Violated Human Subject Protections after Sept. 11, 2001

Physicians for Human Rights (PHR) has identified evidence that in the months and years following the Sept. 11, 2001 attacks, the Bush administration violated essential standards that prohibited human experimentation on detainees. The experimentation that ensued by evading these legal and ethical standards was then in turn apparently used by the Office of Legal Counsel as a basis for concluding that the EIP did not constitute torture and that those who carried out the program would not be subject to prosecution.

No publicly available “blueprint” has come to light regarding the implementation of detainee experimentation as a component of the EIP during the Bush years. PHR’s assessment of this program therefore relies upon facts from the public record that require further inquiry by Congress.
and government investigators who have full access to information currently unavailable to the public. Declassified public documents do not demonstrate that the experimental regime employed on detainees came complete with stated hypotheses, methodology, results, and conclusions — the fundamental elements of all legitimate scientific investigation. The declassified public documents do, however, provide evidence of human experimentation that is consistent with legal definitions of human subject research and experimentation cited above, namely, the systematic collection of data and/or identifiable personal information for the purpose of drawing generalizable inferences.

The subject of interrogation and research is not simply relevant to the issue of accountability for alleged crimes committed in the recent past by the Bush administration. It also pertains to ongoing activities by the US intelligence community. In testimony before the House Intelligence Committee in February 2010, President Obama’s director of national intelligence, Admiral Dennis Blair (USN-Ret.), disclosed that the United States has established an elite interrogation unit that will conduct “scientific research” to find better ways to question suspected terrorists.

While stating that the unit’s responsibility is to do “the scientific research to determine if there are better ways to get information from people that are consistent with our values,” the director declined to provide details about this research effort, including whether or not it would involve human subjects, and, in particular, subjects in vulnerable populations. A spokesman for the director stressed that the program would follow US law.14 Given recent history, this program must be subject to rigorous oversight to avoid potential violations of human subject research protections.

Three Instances of Human Subject Research and Experimentation

The available evidence of human experimentation comes from declassified government documents which detail a policy of systematic medical monitoring of the “enhanced” interrogation techniques by health professionals, and describes the use of the medical information so collected to produce generalizable knowledge that could inform specific EIT practices and to justify the EI program.

Three instances that provide evidence of illegal and unethical human subject research and experimentation are analyzed by Physicians for Human Rights in this report. Actual observational medical monitoring data are not publicly available in the instances cited below. However, data collection was required by OMS monitoring guidelines,15 and a Justice Department memo draws legal conclusions about the permissibility of the techniques based on apparent scientific analysis of the OMS data referenced in the memos.

1. Medical personnel were required to monitor all waterboarding practices and collect detailed medical information that was used to design, develop, and deploy subsequent waterboarding procedures;
2. Information on the effects of simultaneous versus sequential application of the abusive interrogation techniques on detainees was collected and used to establish the policy for using tactics in combination. These data were gathered through an assessment of the presumed “susceptibility” of the subjects to severe pain;
3. Information collected by health professionals on the effects of sleep deprivation on detainees was used to establish EIP sleep deprivation policy.

Evidence of Research and Experimentation

Health Professionals Develop New Methods and Procedures for Waterboarding

In the instance of waterboarding, the evidence of human experimentation consists of highly specific OMS guidelines for the systematic collection and documentation of medical data and subsequent refinement of waterboarding practices which apparently made use of such required medical monitoring and documentation (i.e. the use of potable saline and a specialized gurney). Although actual waterboarding medical observations/data are not publicly available, and the extent to which medical personnel complied with OMS monitoring guidelines is not known, it is clear that the OMS policy of compulsory monitoring was followed by a series of revised waterboarding practices.

It is important to note that the involvement of medical personnel in waterboarding could represent evidence of human experimentation. Such medical involvement illustrates the danger and harm inherent in the practice of waterboarding and the enlistment of medical personnel in an effort to disguise a universally recognized torture tactic as a “safe, legal and effective” interrogation tactic.

In this excerpt from the CIA guidelines for OMS health professionals involved in the EIP, the health professionals are explicitly directed to record:

...how long each application (and the entire procedure) lasted, how much water was applied (realizing that much splashes off), how exactly the water was applied, if a seal was achieved, if the naso- or oropharynx was filled, what sort of volume was expelled, how long was the break between applications, and how the subject looked between each treatment.\(^{16}\)

The results of this monitoring were apparently used in subsequent assessments of the procedure’s safety. Then Principal Deputy Assistant Attorney General Steven G. Bradbury to then Acting CIA General Counsel John A. Rizzo states in his 2005 “combined techniques” memo that:

We understand that these limitations have been established with extensive input from OMS, based on experience to date with this technique and OMS’s professional judgment that use of the waterboard on a healthy individual subject to these limitations would be ‘medically acceptable.’\(^{17}\)

Prior to the experimental use of large-volume waterboarding on detainees in US custody, little scientific information was apparently available to OMS to develop parameters for the application of this technique. The OMS guidelines state: A rigid guide to the medically approved use of the waterboard in essentially healthy individuals is not possible, as safety will depend on how the water is applied and the specific response each time it is used. The following general guidelines are based on very limited knowledge, drawn from very few subjects whose experience and response was quite varied.\(^{18}\)

OMS health professionals were directed by their superiors at CIA to collect information on, and apply their findings to the application of waterboarding. That knowledge appears explicitly intended to be used to “best inform future medical judgments,” or to develop generalizable knowledge about new procedures for applying the technique of waterboarding.

**The Use of Saline as Part of Waterboarding**

According to the Bradbury memoranda (see page 12, this paper), OMS teams, based on their observation of detainee responses to waterboarding, replaced water in the waterboarding procedure with saline solution ostensibly to reduce the detainees’ risk of contracting pneumonia and/or hyponatremia, a condition of low sodium levels in the blood caused by free water intoxication, which can lead to brain edema and herniation, coma, and death.\(^{19}\) Bradbury stated that, “based on advice of medical personnel, the CIA requires that saline solution be used instead of plain water to reduce the possibility of hyponatremia (i.e., reduced concentration of sodium in the blood) if the detainee drinks the water.”\(^{20}\)

Prior to the procedures for waterboarding described in these memoranda, the experience with waterboarding was limited to restricted applications of waterboarding in SERE training. The use of saline in the CIA’s application of waterboarding, as a response to potential medical conditions induced by uncontrolled ingestion of large volumes of water, contrasts with the application of the waterboarding technique in SERE training. Pouring saline into the detainee instead of water would be medically necessary only if the tactic were being used repeatedly on a subject, which was not done to participants in the SERE project. In the case of one CIA detainee, Khalid Sheik Mohammed, the technique was used at least 183 times.\(^{21}\) Under the SERE program’s guidelines (established under an IRB regime and implemented with the informed consent of the military trainees who participated in it), the waterboard technique employed water, not saline, and was used on trainees only once:

**WATERBOARD:** Subject is interrogated while strapped to a wooden board, approximately 4’x7’. Often the subject’s feet are elevated after being strapped down and having their torso stripped. Up to 1.5 gallons of water is slowly poured directly onto the subject’s face from a height of 12-24 inches. In some cases, a wet cloth is placed over the subject’s face. It will remain in place for a short period of time. Trained supervisory and medial [sic]/staff monitors the subject’s physical condition... However, no student will have water applied a second time.\(^{22}\)

**“Waterboarding 2.0”**

Changes to the waterboarding technique described above resulted in a set of procedures and protocols that differs markedly from those used in the SERE training program. The differences between the CIA’s eventual application of waterboarding and that of the SERE program indicate that CIA medical personnel helped modify the SERE version of

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16. Ibid.
the technique.23 “Waterboarding 2.0” was the product of the CIA’s developing and field-testing an intentionally harmful practice using systematic medical monitoring and the application of subsequent generalizable knowledge.

In addition to introducing the use of potable saline to the CIA’s use of waterboarding, OMS supervised the introduction of other specific medical equipment and procedures for waterboarding. These included a “specially designed” gurney to move the detainee upright quickly in case of choking, the use of a blood oximeter to measure detainee vital signs, placing detainees on a liquid diet so their emesis would be soft and less likely to cause choking or aspiration pneumonia if the detainee were to vomit, and having a tracheotomy kit “not visible to the detainee” present in case a detainee’s airway had to be surgically opened in order to prevent drowning.24

Without evidence of a procedurally appropriate amendment to the SERE IRB process, the series of changes to the waterboarding technique implemented by CIA personnel cannot scientifically or legally be considered merely an extension of previous SERE IRB approvals. Importantly, SERE research on the effect of the tactics on humans was done with the subjects’ signed consent. OMS personnel were likely performing this particular experiment without informed consent because they were engaging in purposeful torture of the subject. Even with some form of IRB approval, this research and subsequent modification of waterboarding or any other torture technique would still represent a serious violation of medical ethics and international human rights law because of the nature of the two acts being carried out — research on a prisoner and the infliction of torture.

Reasearching the “Susceptibility” of Detainees to Severe Pain

In the second and third instances indicating human experimentation presented here, the evidence also suggests that the collection of medical information was acquired and applied to inform subsequent EIT practices. In the second instance, health professionals analyzed data based on observations of 25 detainees who were subjected to individual and combined applications of the EITs. They derived generalizable knowledge about whether one type of application over another would increase the subjects’ susceptibility to severe pain.

This investigation had no direct clinical health care application, nor was it in the detainees’ personal interest nor part of their medical management. It appears to have been used primarily to enable the Bush administration to assess the legality of the tactics, and to inform medical monitoring policy and procedure for future application of the techniques. While the actual findings and/or observational data are not publicly available and may not even exist, it is clear that the authorized policy of using multiple EITs simultaneously was officially based on medical observations of 25 detainees.

This evidence of research on detainees is documented in the 2005 OLC memo (known as the “combined techniques” memo) from Bradbury to Rizzo. In the following excerpt, Bradbury references OMS observations of 25 detainees subjected to the tactics to argue that the use of the EITs in combination, rather than individually, would not likely make detainees more susceptible to pain:25

But as we understand the experience involving the combination of various techniques, the OMS medical and psychological personnel have not observed any such increase in susceptibility. Other than the waterboard, the specific techniques under consideration in this memorandum – including sleep deprivation – have been applied to more than 25 detainees. See [redacted] Fax at 1-3. No apparent increase in susceptibility to severe pain has been observed either when techniques are used sequentially or when they are used simultaneously – for example, when an insult slap is simultaneously combined with water dousing or a kneeling stress position, or when wall standing is simultaneously combined with an abdominal slap and water dousing. Nor does experience show that, even apart from changes in susceptibility to pain, combinations of these techniques cause the techniques to operate differently so as to cause severe pain. OMS doctors and psychologists, moreover, confirm that they expect that the techniques, when combined as described in the Background Paper and in the April 22 [redacted] Fax, would not operate in a different manner from the way they do individually, so as to cause severe pain.26

The relationship between the collection of medical knowledge on 25 detainees and the justification of the official practice of simultaneous application of multiple EITs is stated explicitly in the Bradbury memo on the combined techniques. It is unclear whether the data referenced in the memo were collected specifically for the purpose of determining the “susceptibility” to severe pain caused by combined application of the techniques, or whether they were analyzed after being generally collected as part of standard OMS monitoring policy. Regardless, the data and the conclusions drawn from it were utilized to justify the application of simultaneous and combined “enhanced” techniques.

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25. The validity of such conclusions are questionable given major limitations associated with the outcome measures described in the study.

Revisiting the Effects of Sleep Deprivation on Detainees

The specific process of data analysis of varied applications of sleep deprivation, and the identities of those who performed it, are not currently evident from public documents. It is clear, however, that the application of this particular course of monitoring and assessment demonstrates that US government lawyers used such observational data collected by health professionals from varying applications of sleep deprivation to inform legal evaluations regarding the risk of inflicting certain levels of harm on the detainee, and to shape policy that would guide further application of the technique on other detainees.

You have informed us that to date, more than a dozen detainees have been subjected to sleep deprivation of more than 48 hours, and three detainees have been subjected to sleep deprivation of more than 96 hours; the longest period of time for which any detainee has been deprived of sleep by the CIA is 180 hours. Under the CIA’s guidelines, sleep deprivation could be resumed after a period of eight hours of uninterrupted sleep, but only if OMS personnel specifically determined that there are no medical or psychological contraindications based on the detainee’s condition at that time. As discussed below, however, in this memorandum we will evaluate only one application of up to 180 hours of sleep deprivation.

Limited Practical Scientific Knowledge on How to Deploy EITs

The first purpose of experimentation was to determine how EITs should be deployed. Because the EITs had previously been considered torture, there was little scientific evidence prior to Sept. 11, 2001, to guide the deployment of these techniques on detainees. Questions about their impact and effectiveness were arising as the program proceeded. Before the initiation of the EIP, which occurred simultaneously with a finding by the Bush administration that the Geneva Conventions did not apply to Taliban and Al Qaeda prisoners, experience with the techniques was limited to studies in two settings: repatriated US prisoners of war who had been subjected to torture, and the restricted environment of US military survival-training courses, in which members of the military and intelligence community participated only after providing signed consent. While there is a rich literature regarding the harmful effects of these techniques, that literature appears to have been ignored by the authors of the legal memos. At the same time, health professionals in OMS appear to have accepted the unachievable assignment of designing torture-based interrogation techniques that were both “safe” and “effective.”

Calibrating Levels of Pain and Suffering in Accordance with the OLC Memos

A second purpose of collecting generalizable medical information appears to have been an attempt to calibrate the level of pain caused by the techniques in an effort to keep the pain from crossing the threshold they had defined as constituting torture. The research information gathered was used by government lawyers to create a basis for defending interrogators against potential charges of violating US antitorture law.

The OLC interpretation defined torture as an act causing “long-term” mental harm or physical “pain and suffering” equal to the pain and suffering inflicted by either organ failure.

APPARENT PURPOSES FOR HUMAN RESEARCH AND EXPERIMENTATION ON DETAINES

While Physicians for Human Rights does not yet know the motives of the various actors involved in initiating and reviewing what appears to be human experimentation on detainees, including health professionals, interrogators, CIA officials, and administration lawyers, it appears that the program served at least three distinct purposes.

27. Memorandum from Steven G. Bradbury, Principal Deputy Assistant Attorney General, for John A. Rizzo, Senior Deputy General Counsel, Central Intelligence Agency (10 May 2005): FN 36. 30. “To assist in monitoring experience with the detainees, we understand that there is regular reporting on medical and psychological experience with the use of these techniques on detainees and that there are special instructions on documenting experience with sleep deprivation and the waterboard. See OMS Guidelines at 6-7, 16, 20.”


28. Ibid.


or death. In particular, the authors of the OLC memos argued that the “enhanced” techniques would not constitute torture as long as they were applied in a manner that was “safe.” In a legal context, concepts of “pain,” “suffering,” and “safety” are questions of fact that relate to the experiences of the individual interrogators and people being interrogated. The OLC memo authors argued that if medical professionals approved the interrogations and monitored the application of the “enhanced” techniques, the abusive acts would not constitute torture.  

Under the legal framework established by the OLC legal memoranda, health professionals thus became responsible for ensuring that the authorized tactics did not inflict a level of “severe and long-lasting” mental and physical pain and suffering that ostensibly, under the lawyers’ rationale, could be considered “torture.” In order to measure the harm inflicted by the tactics, health professionals were required to collect medical information and make inferences from it that constituted generalized knowledge: i.e., to engage in human subject research and experimentation.

**Providing a Basis for a “Good Faith” Legal Defense against Torture Charges**

A third purpose for such experimentation appears to have been to create a basis for legal defenses for individuals engaging in acts that arguably constituted torture. In a circular application of science to law, and in violation of the ethical principles of both professions, experimentation relating to the EITs apparently was used by Bush administration lawyers in an effort to protect US personnel engaged in the EIP from potential legal liability for their acts. OLC lawyers argued that efforts to refine and improve the application of techniques would provide a potential “good faith” defense for interrogators against charges of torture. They argued that such a medical monitoring regime would remove the element of intent to cause harm from the act, which is a necessary requirement for a successful prosecution of a torture charge under US law, and that “a good faith belief need not be a reasonable belief; it need only be an honest belief.”

Thus, research on the detainees became a key part of the OLC’s legal strategy to demonstrate the lack of intent to commit torture. The following section from a 2003 memo written by then Deputy Assistant Attorney General John Yoo refers specifically to prolonged mental harm:

A defendant could show that he acted in good faith by taking such steps as reviewing professional literature, consulting with experts, or reviewing evidence gained from past experience. See, e.g., Ratzlaf, 510 U.S. at 142 n.10 (noting that where the statute required that the defendant act with the specific intent to violate the law, the specific intent element “might be negated by, e.g., proof that defendant relied in good faith on advice of counsel.”) ... *All of these steps would show that he has drawn on the relevant body of knowledge concerning the result proscribed by the statute, namely prolonged mental harm.* [Emphasis added]

A 2008 DoJ Office of Professional Responsibility (OPR) report evaluating allegations of professional misconduct by OLC lawyers Yoo and Jay Bybee details how pivotal this medical supervision was considered to be in circumventing the “intent” language in the US torture statute. The report says that then Assistant Attorney General for the Criminal Division Michael Chertoff told Yoo in 2002 that: ...the more investigation into the physical and mental consequences of the techniques they did, the more likely it would be that an interrogator could successfully assert that he acted in good faith and did not intend to inflict severe physical or mental pain or suffering.

**Operational Implementation of OLC Guidance by the CIA**

Documenting and understanding the effects of the techniques as part of mounting a “good faith” defense against torture charges affected how the CIA subsequently implemented the guidance provided by the OLC into a research program. A document entitled “Legal Principles Applicable to CIA Detention and Interrogation of Captured Al-Qaeda Personnel,” referred to hereafter as the CIA “Bullet Points,” was prepared in 2003 by the CIA’s general counsel, Scott Muller.

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34. CIA Bullet Points, supra note 12, at 7.

35. Ibid.


37. The 2008 DoJ OPR Report was the result of OPR’s investigation of the OLC’s legal memorandum concerning the use of “enhanced interrogation techniques” on suspected terrorists by the CIA. The initial report concluded that the drafters of the first OLC memos (Bybee and Yoo) failed to act under standards of DoJ professional conduct, *inter alia*, but this conclusion was not accepted by other DoJ officials.


39. The CIA Bullet Points were written, according to the OPR, with the assistance of both CTC (CIA-Counter-Terrorism Center) staff and the OLC for use by the CIA-OIG in its inquiry of CIA treatment of detainees. Ibid. at 100-101.
One of the Bullet Points states:

The interrogation of al-Qa’ida detainees does not constitute torture within the meaning of [the torture statute] where the interrogators do not have the specific intent to cause “severe physical or mental pain or suffering.” The absence of specific intent (i.e., good faith) can be established through, among other things, evidence of efforts to review relevant professional literature, consulting with experts, reviewing evidence gained from past experience where available (including experience gained in the course of U.S. interrogations of detainees), providing medical and psychological assessments of a detainee (including the ability of the detainee to withstand interrogation without experiencing severe physical or mental pain or suffering), providing medical and psychological personnel on site during the conduct of interrogations, or conducting legal and policy reviews of the interrogation process (such as the review of reports from the interrogation facilities and visits to those locations). A good faith belief need not be a reasonable belief; it need only be an honest belief.40 [Emphasis added.]

The Bullet Points demonstrate that documentation and review of the impact of the tactics on the detainees was central to the CIA program — not for ensuring the well-being or medical treatment of the detainee, but for displaying “good faith” as an inoculation for the agency against potential prosecution for torture.

The Bradbury “Combined Techniques” Memo Relied on Research Data from Detainees

The Bullet Points, based upon Yoo’s March 14, 2003, memo, were rescinded by the OLC in 2004.41 The Yoo memo was withdrawn the same year. Even after these initial memoranda authorizing torture were rescinded, health professionals continued to document the impact of the tactics and the new knowledge obtained to refine the application of the EITs. A memorandum from Bradbury to the CIA dated May 10, 2005 (known as “the Combined Techniques Memo”), like the OLC memoranda that preceded it, explicitly relied on “medical screening, monitoring, and ongoing evaluations” as a means of supposedly preventing “serious or lasting physical or psychological harm.”42

Bradbury’s 2005 opinion was apparently based on information collected by the OMS monitoring and research program that the Yoo memo had called for to inoculate interrogators against torture charges. At that point, OMS had been monitoring the EIT program for more than two years.43 Yoo and Bybee appeared to have relied only on the limited SERE research available to them when they wrote their opinions, as well as input from selected experts on the effects of the techniques. The Bradbury memo,44 however, demonstrates that the OMS had closely followed the guidance of the CIA Bullet Points. OMS personnel collected “evidence gained from past experience where available (including experience gained in the course of U.S. interrogations of detainees),” performed medical and psychological assessments, including assessing a detainee’s ostensible ability to withstand the techniques without incurring severe mental pain or suffering, and methodically amassed other, tactic-specific information from human subjects.45 The outcomes were used not only to monitor stress levels in individual detainees undergoing “enhanced” interrogation but also apparently to perform research with the goal of calibrating interrogation techniques in the interest of achieving maximum effect with detainees in the future. In short, the OMS had conducted a program of human subject research.46

The OLC lawyers apparently, therefore, used human experimentation both as a justification for torture and as a way of mitigating legal liability for torture. But in attempting to legitimize the crime of torture, the lawyers left those who authorized and performed the research open to the charge of illegal human experimentation. Even if medical monitoring was dutifully applied for the intended purpose of mitigating the infliction of severe physical and psychological harm, the medical monitoring itself, because it generated research that was applied to future application of the techniques and as part of efforts to mitigate legal liability, could be considered a major breach of professional medical ethics, and could constitute a crime.

Despite the apparent scrupulousness with which OLC lawyers approached the issue of the legality of the harsh interrogation techniques, as of 2005, the OLC appears never to have directly assessed the legality of the monitoring and research regime itself. If such guidance exists, it has not yet been publicly disclosed.

40. CIA Bullet Points, supra note 33, at 7 (bolding and italics added).
45. CIA Bullet Points, supra note 33, at 7.
46. 45 C.F.R. § 46.102(d) (2005); see also Standards for Privacy of Individually Identifiable Health Information, 65 Fed. Reg. 82,462, 82,497 (28 Dec. 2000).
HUMAN EXPERIMENTATION AND HUMAN SUBJECT PROTECTIONS

The Bush administration’s legal framework to protect CIA interrogators from violating US statutory and treaty obligations prohibiting torture effectively contravened well-established legal and ethical codes that, had they been enforced, should have protected prisoners against human experimentation, and should have prevented the EIP itself from being initiated in the first place. This strategy therefore may have effectively employed one criminal act to protect against liability for another, as illegal and non-consensual human experimentation can constitute a war crime and a crime against humanity, when its perpetration is systematic and widespread. 

The Nuremberg Code

International and US prohibitions restricting human experimentation were developed in response to some of the most serious human rights violations of the 20th century. Following the trials of German health professionals at Nuremberg after World War II, international attention was focused on the practice of human experimentation inflicted upon vulnerable human subjects. The fundamental right of individuals to choose not to be subjected to human experimentation was first codified in the form of the Nuremberg Code—a direct response to atrocities that took place during the war. Among other protections, the Nuremberg Code states that the voluntary informed consent of the human subject in any experiment is absolutely essential, and that volunteer subjects should always be at liberty to end their participation in the experiment. In addition, the Nuremberg Code states that any experiment should be conducted so as to avoid all unnecessary physical and mental suffering and injury.

Implementation of the Nuremberg Code was neither immediate nor consistent. Despite the experiences of World War II, human experimentation on vulnerable populations without the participants’ consent continued in the United States into the second half of the 20th century. One of the most egregious examples was the Tuskegee syphilis experiment, in which poor African-American men in the South were denied treatment for syphilis so that researchers could study the natural progression of the untreated disease.

The National Commission

In the wake of public outrage surrounding these non-consensual experiments, the US Congress created the National Commission for the Protection of Human Subjects of Biomedical and Behavioral Research (National Commission), a group of leading experts in medicine, law, and ethics, charged with developing guidelines on human subject research based on ethical principles. The National Commission made its recommendations in the Belmont Report, establishing “respect, beneficence and justice” as principles guiding the ethical conduct of research, including the right of informed consent. The Belmont Report established the concept that the ethical conduct of research required that volunteer subjects be informed about the risks and benefits, if any, that might accrue to them before they gave their consent. Additional protections were established for vulnerable populations, such as prisoners, whose ability to give truly informed consent may be problematic.

As further protection for human subjects, the National Commission called for establishment of institutional review boards within medical and scientific organizations. These bodies comprise combinations of researchers, ethics experts, and laypeople that oversee study design based upon ethical principles.

The Common Rule

These human subject protections became codified in federal regulations, as well as in codes of professional conduct. Collectively, these regulations are known as the Common Rule. The Common Rule applies to all federally funded human subject experimentation, including all research conducted by the CIA and the DoD.

By the end of the 20th century, therefore, all people who were subject to US experimentation were protected by three interconnected bodies of law: customary international law, US federal statute, and federal regulations — specifically, the Common Rule. Although the Nuremberg Code is a code of conduct and not, by its terms, a treaty binding explicitly named parties, in the decades following the 1947 articulation of Nuremberg, prohibitions against human experimentation without the informed consent of the volunteer subjects have been deemed by international legal scholars to be part of “customary international law.” This makes human

experimentation without the informed consent of volunteer subjects one of a small number of acts (including genocide and torture) that are so heinous that they are universally considered to be crimes against humanity.

**Legal and Ethical Standards Violated Following Sept. 11, 2001**

Under the existing system of human research protections, experimentation on detainees in US custody was not permitted. If CIA personnel had followed the Common Rule, prospective review by an IRB would have protected the rights and welfare of the targeted detainee subjects by forbidding the proposed research on legal, ethical, scientific, and moral grounds. Other violations may include:

* **Violation of the Geneva Conventions:**

The four Geneva Conventions, treaties completed in 1949, and to which the United States traditionally has adhered, as well as their additional protocols, form the core elements of the law of armed combat. On February 7, 2002, President Bush issued an executive order finding that “Taliban detainees are unlawful combatants and, therefore, do not qualify as prisoners of war under Article 4 of Geneva.” While this conclusion is generally viewed as legally accurate given the Third Geneva Convention’s narrow definition of POWs, the executive order went on to state that “Geneva does not apply to our conflict with al-Qaida . . . .”\(^{54}\)

As the Supreme Court determined in Hamdan v. Rumsfeld,\(^{55}\) this assessment is incorrect: Whereas Taliban and al-Qaida prisoners did not have all the specific POW protections provided under the Third Geneva Convention, Common Article 3 provisions did continue to apply.\(^{56}\)

Common Article 3 is a provision common to all four Geneva Conventions. Among other things, it proscribes “cruel treatment and torture” and “humiliating and degrading treatment.” The appropriate enforcement of Common Article 3 would have precluded any human subject research on detainees unrelated to their hospital treatment or their medical interest.\(^{57}\) Beyond the applicability of Common Article 3 it has not been clearly determined what other provisions of the Geneva Conventions apply to detainees deemed “unlawful combatants,” yet it is important to note that all four Geneva Conventions explicitly state that “biological experiments” are grave breaches of the respective conventions — and apply to all detainees, whether POWs or otherwise.\(^{58}\)

* **Contravention of the Nuremberg Code:**

As discussed above, well prior to Sept. 11, 2001, there was widespread international consensus that the Nuremberg Code prohibiting human subject experimentation without consent had become customary international law binding upon all countries. In 2003, however, a CIA legal interpretation indicated that the US government’s position was that “customary international law imposes no obligations regarding the treatment of al-Qaida detainees beyond that which the Convention [Against Torture], as interpreted and understood by the United States in its reservations, understandings, and declarations, imposes.”\(^{59}\) It is not clear whether those conducting the US experimentation program believed that they were not bound by the Nuremberg Code, or simply ignored its requirements. In any case, the experimental regime clearly violated the code as well as applicable US laws and regulations that remained in place.

* **Disregarding and Amending the US War Crimes Act:**

Enacted by a Republican Congress in 1996, the Jones War Crimes Act for the first time imposed US criminal penalties for “grave breaches” of any of the Geneva Conventions. In 1997, the legislation was expanded, at the request of the Departments of State and Defense, to encompass a broader range of war crimes, including violations of Common Article 3. As previously noted, all four Geneva Conventions list “biological experiments” as grave breaches, which may have created liability for human experimentation on detainees even under the original act. Once Common Article 3 was included as a war crime in the amended WCA, its prohibitions on “cruel treatment and torture” and “degrading treatment” would likely create criminal liability for experimentation on detainees. Due to the Bush administration’s erroneous conclusion that it could detain “war on terror” prisoners outside of Geneva protections, it appears to have concluded before 2006 that interrogators were not liable to criminal prosecution under the War Crimes Act.\(^{60}\)

Subsequent to the program of experimentation discussed in this report, changes were made to the War Crimes Act...
which, despite occurring after the experimentation, are still relevant to the legality of the program because of their retroactivity. Following the Supreme Court’s 2006 Hamdan v. Rumsfeld decision, which clearly established that enemy combatants were protected by Common Article 3, the Bush administration quickly sought again to limit potential legal exposure of its personnel by amending the WCA. The administration expressed concerns that it was unclear under the act exactly which forms of detainee treatment or interrogation constituted punishable offenses. As part of the 2006 Military Commissions Act, the WCA was amended to delineate the specific violations of Common Article 3 that would be punishable. Among those violations is “performing biological experiments.” The amended language prohibits:

The act of a person who subjects, or conspires or attempts to subject, one or more persons within his custody or physical control to biological experiments without a legitimate medical or dental purpose and in so doing endangers the body or health of such person or persons.61

While this language maintains the existing prohibition on biological experiments contained in the previous version of the WCA, the effect of this amendment appears to weaken the prohibition by moving away from the type of strict language found in the Geneva Conventions (Third Geneva Convention, Article 13), which states:

No prisoner of war may be subjected to physical mutilation or to medical or scientific experiments of any kind which are not justified by the medical, dental, or hospital treatment of the prisoner concerned and carried out in his interest.62

The new language of the WCA added two qualifications that appear to have lowered the bar on biological experimentation on prisoners. That language requires that the experiment have a “legitimate” purpose, but does not require that it be carried out in the interest of the subject. It also adds the requirement that the experiment not “endanger” the subject, which appears to raise the threshold for what will be considered illegal biological experimentation.

Neither the source of this language change nor the reason for it is clear. It is possible that the language was changed in an attempt to protect those involved in experiments before 2006. Because changes to the WCA were made retroactive to 1997, the new weaker language applied to the EIP discussed in this report, and these provisions became the standard for determining if a grave breach occurred.

Another component of the amended WCA that is relevant to the experimentation program provides immunity for military and intelligence officials from criminal prosecution for acts after Sept. 11, 2001, that were part of “authorized interrogations.” While this language seems directed at those who may have engaged in torture during interrogations, it would also apply to the grave breach of biological experimentation that is listed as a war crime.

Regardless of whether the rationale for legislative amendments undertaken by the Bush administration is ever fully known, it is important to note that human subject protections have not been restored to their previous state. Despite President Obama’s Jan. 22, 2009, executive order barring the use of almost all “enhanced interrogation techniques,” Bush administration revisions to the WCA remain in effect. As long as weakened statutory language exists that may permit experimentation on detainees in US custody, the risk remains that current and future detainees could be subjected to serious violations of human rights.

### CONCLUSIONS AND RECOMMENDATIONS

This report identifies evidence of unethical and illegal human subject experimentation conducted by US health professionals on detainees. Human experimentation, in the form of systematic medical monitoring and subsequent transformation of the data obtained into generalizable knowledge, appears to have been used to justify practices previously recognized as torture, to inform specific “enhanced” interrogation practices, and to serve as a part of the US government’s legal defense against criminal liability for torture.

It is evident from this analysis that the premise and practice of what was erroneously claimed to be “safe, legal and effective” torture depended on what appears to be research and experimentation on detainees, which could rise to the level of war crimes and crimes against humanity. This program engaged in violations of the detainees’ health and human rights that are explicitly prohibited by international human rights agreements to which the United States is party including the United Nations Conventions Against Torture,63 the International Covenant on Civil and Political Rights,64 and the Universal Declaration of Human Rights.65

The claim that health professionals served to ensure the safety of the detainees through the systematic monitoring of intentionally

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harmful practices is not only inherently contradictory but also a perversion of centuries of health professional ethics.\(^{66}\)

Those who authorized, designed, implemented, and supervised this regime of human experimentation — whether health professionals, uniformed personnel, or civilian national security officials — must be held to account if further in-depth investigation confirms that they have violated ethical and legal strictures on professional behavior in ways that previously have been found to constitute war crimes and crimes against humanity by international tribunals.

Physicians for Human Rights calls on the White House and Congress to investigate thoroughly the full scope of the human experimentation designed and implemented in the post-Sept. 11 period. The War Crimes Act must be amended to restore the previous language protecting detainees from being subjects of experimentation. Any victims of research and experimentation perpetrated as part of the CIA’s “enhanced” interrogation program who may be found through further investigations must be offered compensation and health care services to address ongoing health effects related to the experimentation, as well as a formal apology by the United States.

**Recommendations**

Based on the findings of this investigation, the United States should take the following actions:

1. President Obama must order the attorney general to undertake an immediate criminal investigation of alleged illegal human experimentation and research on detainees conducted by the CIA and other government agencies following the attacks on Sept. 11, 2001.

2. The secretary of the Department of Health and Human Services must instruct the Office for Human Research Protections (OHRP) to begin an investigation of alleged violations of the Common Rule by the CIA and other government agencies as part of the “enhanced” interrogation program.

3. Congress must amend the War Crimes Act to eliminate changes made to the Act in 2006 which weaken the prohibition on biological experimentation on detainees, and ensure that the War Crimes Act definition of the grave breach of biological experimentation is consistent with the definition of that crime under the Geneva Conventions.

4. Congress should convene a joint select committee comprising members of the House and Senate committees responsible for oversight on intelligence, military, judiciary and health and human services matters to conduct a full investigation of alleged human research and experimentation activities on detainees in US custody.

5. President Obama should issue an executive order immediately suspending any federally funded human subject research currently occurring in secret — regardless of whether or not it involves detainees.

6. The Department of Justice’s Office of Professional Responsibility should commence an investigation into alleged professional misconduct by OLC lawyers related to violations of domestic and international law and regulations governing prohibitions on human subject experimentation and research on detainees.

7. President Obama should appoint a presidential task force to restore the integrity of the US regime of protections for human research subjects. This task force, comprising current and former officials from the Department of Health and Human Services, the Food and Drug Administration, the National Institutes of Health, the human rights community, and leading health professional associations, should review current human subject protections for detainees, and recommend changes to ensure that the human rights of those in US custody are upheld.

8. States should adopt policies specifically prohibiting participation in torture and improper treatment of prisoners by health care professionals. Such participation is considered professional misconduct and is grounds for loss of professional licensure. Proposed legislation in New York State provides a model for such policy.

9. The United Nations special rapporteur on torture should undertake an investigation of allegations that the United States engaged in gross violations of international human rights law by engaging in human subject research and experimentation on detainees in its custody.

\(^{66}\). See appendix 2.
**Glossary of Abbreviations and Terms**

APA: . . American Psychological Association
CIA: . . Central Intelligence Agency
CTC: . . CIA Counter-Terrorism Center
DoD: . . Department of Defense
DoJ: . . Department of Justice
EI: . . Enhanced interrogation, the Bush administration’s euphemism for its program of physical and psychological torture
EIT: . . Enhanced interrogation techniques. These include isolation, sensory deprivation, sensory bombardment, stress positions and waterboarding, among many others
EIP: . . Enhanced interrogation program
Experimentation: . . To carry out experiments or try out a new procedure, idea, or activity
HHS: . . Department of Health and Human Services
IRB: . . Institutional Review Board
JPRA: . Joint Personnel Recovery Agency
MCA: . .2006 Military Commissions Act
OGC: . . CIA Office of General Counsel
OHRP: . HHS Office for Human Research Protections
OIG: . . CIA Office of Inspector General
OLC: . . DoJ Office of Legal Counsel
OMS: . . CIA Office of Medical Services
OPR: . . DoJ Office of Professional Responsibility
OTS: . . CIA Office of Technical Services
SERE: . “Survival, Evasion, Resistance and Escape.” A survival training program for US soldiers at high risk for capture and torture by enemies. Also the setting for clinical research done on US soldiers with their informed consent
WCA: . . War Crimes Act
The involvement of health professionals in a torture program was clearly illegal prior to the issuance of legal memoranda by the Department of Justice’s Office of Legal Counsel (OLC). It was also unethical by standards of the medical profession. The task of keeping subjects of the “enhanced” interrogation program “safe” was also illegitimate in that it placed health professionals in the role of calibrating pain and injury in a non-therapeutic act. But, beyond that, a program in which health professionals were tasked with keeping subjects of “enhanced” interrogation safe was by its very nature experimental, in that it was based on untested ideas or techniques not yet established or finalized.

One example of the lack of prior knowledge and established procedure for the “safe” administration of so-called “enhanced” interrogation techniques (EITs), in this case waterboarding, is found in the 2004 CIA OIG (Office of Inspector General) Report:

In retrospect based on the OLC extracts of the OTS (Office of Technical Services) report, OMS (Office of Medical Services) contends that the reported sophistication of the preliminary EIT review was exaggerated, at least as it related to the waterboard, and that the power of this EIT was appreciably overstated in the report. Furthermore, OMS contends that the expertise of the SERE (Survival, Evasion, Resistance, Escape) psychologist/interrogators on the waterboard was probably misrepresented at the time, as the SERE waterboard experience is so different from the subsequent Agency usage as to make it almost irrelevant. Consequently, according to OMS, there was no a priori reason to believe that applying the waterboard with the frequency and intensity with which it was used by the psychologist/interrogators was either efficacious or medically safe.4

At the time when the program was being designed and approved, there was no established or accepted way to keep an interrogation using EI techniques safe. Any medical monitoring by a health professional to keep the subject safe was therefore by its very nature experimental.

The Belmont Report2 acknowledged that there is a gray zone in medical certainty between accepted medical practice and experimental practice. In distinguishing between accepted practice and research, the National Commission for the Protection of Human Subjects of Biomedical and Behavioral Research examined two factors:

1. the level of risk to the subject, and
2. the intent of the physician.5

Schuchardt interprets the Belmont Report as follows:

The most important difference between “research” and “practice” is the degree of risk each procedure entails. Research, by its very nature, involves procedures that are new and not well understood. The risk to the human subject is that the procedure will be unnecessarily applied, performed in a negligent manner, or cause anomalous injuries due to the ignorance about the procedure. Practice, on the other hand, involves therapies that are standard or performed frequently because their risks are known and the procedure is expected to benefit the patient.6

In addressing physician intent as it relates to the distinction between research and practice, Schuchardt comments:

Physicians engage in practice when they seek to benefit the patient and patient alone through the best-known treatment. On the other hand, physicians engage in research whenever they intend to develop new knowledge through their dealings with the patient. The intent of the physician is important because it determines whether the physician has a conflict of interest between the patient and the research.5

This conflict is important to note in this context, because the primary goal of health professionals working in US interrogation programs was supporting the interrogation process. Patient care and treatment duties were made a secondary priority to the operational objective of implementing the techniques in a manner that limited legal liability for torture.

In reviewing the proposed use of experimental drugs to protect US troops from biological weapons, Annas and Grodin have argued, however, that it is “the investigational nature of the intervention, not the intent of the physician or researcher, that determines whether or not an intervention is research or therapy,” and they note that “the absence … of effective alternatives does not convert an existing investigational intervention into a therapeutic one.”6

The Belmont Report does note that a procedure does

not automatically qualify as research just because it is experimental.

Thus, any program employing health professionals to keep a SERE-based interrogation program safe was not only illegal and unethical, but it was experimental. The CIA’s own Inspector General’s report supports the assertion that OMS personnel did not believe that sufficient information and adequate review had existed at the time the tactics were authorized to support judging them either medically safe or efficacious.

Furthermore, simply saying this conduct was illegal and unethical does not fully describe the problem of having health professionals serve as “safety officers.” A doctor who robs a bank has done something illegal, in a manner not directly related to his or her professional skills. Similarly, a doctor who accepts sexual favors from a patient in exchange for standard medical care is, among other things, guilty of unethical professional misconduct in a manner that brings harm to the patient and the profession, but in a manner that does not involve misapplication of scientific knowledge.

In this case, health professionals were involved in unethical experimentation. Doctors here were engaged in activities that likely involved the infliction of physical and mental pain and were not following any accepted, established, or proven medical practice. The activities directly involved “bad medicine” and “bad science,” and the doctors were not acting primarily in the patient’s interest, but supporting the interrogators.

This argument has not been prominent to this point in the debate over health professional support of the “enhanced” interrogation program. We believe it is essential to a full understanding of what occurred. Note that we are separating the discussion about whether the “safety officer role” was formal research, from the discussion of whether the role was experimental by virtue of being without sufficient scientific basis or clinical standards.

It is important to clarify that we do not concede the legitimacy of the safety officer role on any grounds. But it must be recognized, however, that it was the key rationale used to justify the involvement of health professionals used by the Bush administration and is still used by the current administration and DoD.

The SERE Studies: A Summary of Research Findings on the Effects of “Enhanced” Interrogation Techniques on Voluntary Soldier-Subjects

In establishing the legal rationale for the torture regime, the OLC not only cited the health professional presence as a safety mechanism limiting pain and injury, it also cited expert opinion of health professionals and referenced medical literature describing the likely effects of these techniques. We argue that neither the professional opinions nor the literature cited were a good-faith, accurate representation of the limited state of knowledge regarding the health effects of the “enhanced” interrogation techniques. In fact, the SERE studies demonstrate that even mild applications of EITs were harmful, despite incomplete measures of their physical and psychological effects.

A review of the literature describing the experience of US servicemen subjects in the survival training programs (SERE) clearly established several facts. First, the techniques resulted in marked stress responses as indicated by significant hormone spikes and troughs, and significant adverse psychological effects. In other words, the literature demonstrated that these techniques were likely to cause significant harm to the subjects even though they were exposed to limited forms of EITs, provided their consent for the study, and were able to stop their participation at any time. The OLC discussion does not demonstrate an appreciation of these risks, nor does it document a balanced review of these data, including marked differences between consenting US servicemen and “suspected terrorists” detained in US custody.

SERE subjects were volunteers who gave consent; they could terminate consent during the exercise; and they were exposed to limited application of the interrogation techniques over a short and discrete period of several days. In addition, the context of the experience differed greatly — especially the uncertainty regarding possible injury and/or death as well as the purpose and meaning of the harm inflicted, since SERE participants understood that their discomfort could serve a useful, even patriotic, purpose by helping to protect future US military personnel subjected to torture.

In addition, the SERE literature documents that the techniques as applied in these studies differed markedly from the techniques as applied in the field on detainees undergoing “enhanced” interrogation.

Understanding the state of knowledge about the physical and psychological effects of the EITs at the time the EI program began is essential for assessing whether or not the tactics health professionals were supervising could be deemed experimental. The CIA OIG report, among other Bush administration documents now in the public record, specifically cites extant SERE/JPRA (Joint Personnel
Recovery Agency) research as the basis for the legal analysis conducted by the DoJ and other administration lawyers, including the attorney general, of the EITs.

OTS also solicited input from DoD/JPRA regarding techniques used in its SERE training and any subsequent psychological effects on students. DoD / JPRA concluded no long-term psychological effects resulted from use of the EITs, including the most taxing technique, the waterboard, on SERE students. The OTS analysis was used by OGC (Office of General Counsel) in evaluating the legality of techniques.

The SERE studies provide information on the very techniques that were later “reverse-engineered” and deployed as the EIP. The SERE studies not only demonstrate that the EITs carried high risk of harm; they serve as a foundation for understanding that:

1. more severe and prolonged applications of EITs would likely result in increased harm;
2. the differences between volunteer US soldiers and detainees in US custody would likely amplify the physical and psychological harm associated with EITs;
3. the physical and psychological effects of EITs were not adequately measured (e.g., 96% of pilots reported dissociative symptoms, which can lead to post-traumatic stress disorder (PTSD), but PTSD and other trauma-related conditions were not assessed); and
4. systematic medical monitoring would be necessary to know the effects of EITs under an entirely different set of circumstances.

Among other findings, the SERE studies indicated that the exposure of the soldier-subjects to the “uncontrollable stress” of the survival training exercise produced “rapid and profound changes in cortisol” and other stress hormones. The cortisol levels measured were found to be high enough to produce immune suppression and adversely affect memory and were comparable to levels measured in subjects undergoing major surgery. Norepinephrine and epinephrine (noradrenaline and adrenaline) levels were comparable to levels measured in novice parachutists and during tracheal suctioning in intubated patients. The protective neuropeptide, NPY, was found to be rapidly depleted during the short exercise, and testosterone levels were reduced by over 50% (all participants studied were men).

The SERE literature describes significant limitations in the investigators’ understanding of how the complex neuroendocrine and psychological responses to uncontrollable stress are mediated. Subject follow-up studies are too short to provide any insight into the risk of development of adverse sequela to the groups such as long-lasting immune dysfunction, endocrine dysfunction, or PTSD and related disorders.

Finally, the SERE studies are important in establishing that the EITs were known to be harmful among consenting soldier-subjects and, therefore, likely to be much more harmful among detainees in US custody exposed to more intense forms of EITs. Even if the SERE studies did not demonstrate harm among volunteer soldier-subjects, their application to an entirely different population under very different circumstances would have to be considered experimental at best. When these techniques were applied to US soldiers in a mock setting and were monitored by health professionals, that protocol was submitted for approval by an institutional review board and the informed consent of the subject was obtained. The EIT program deployed these techniques and monitoring on a vulnerable detainee population in a much higher risk setting (in terms of uncontrollable psychological stress and its physical response) and did so for durations that greatly exceeded the experimental training setting. The SERE studies demonstrate that health professionals who monitored the EITs should have known that severe physical and psychological harm was likely and that their presence in assessing thresholds for “severe and long-lasting” physical and mental pain and applying their medical knowledge to calibrate the level of pain inflicted constituted complicity in both torture and human experimentation.

Detailed Summary of Military Survival Training (SERE) Studies and What They Teach Us about the Effects of “Enhanced” Interrogation Techniques

The literature describing the results of the SERE studies warrants review because these studies confirm that, even in mock settings, EITs have significant adverse physical and mental health effects.

13. For convenience, the group of studies involving survival training including interrogation components will be referred to throughout as “SERE studies.” However, it should be noted that not all papers refer to SERE explicitly.
Among the goals of the SERE program is to increase soldiers’ resistance to stress, particularly in detention and interrogation, in order to prepare them for the possibility of becoming prisoners in time of conflict. With this in mind, investigators have worked with the SERE program to study soldiers’ reactions to a mock survival program that involves evading capture, eventual capture, and interrogation. At the same time, investigators and the SERE program share a goal of identifying subject characteristics associated with resistance to stress, and potentially developing ways to reduce soldiers’ stress responses to intentionally harmful interrogation tactics.

Physicians for Human Rights has described the adverse health effects of “enhanced” interrogation in earlier reports involving extensive review of the literature on torture survivors and occupational health, government documents in the public domain, and firsthand evaluation of survivors of the “enhanced” interrogation program.14 The SERE studies, however, represent another important source of scientific evidence and provide insights into of the effects of the techniques on human subjects.

The SERE studies expanded upon a literature examining the link between various measurable phenomena such as stress hormone levels, heart rate variability, psychological state (as measured by standardized psychological assessment tools) and the development and treatment of stress-related pathology such as PTSD15 and of studies of soldiers in other stressful settings such as skydiving.16

Methodology of SERE Studies

Although the various SERE studies differ in their focus and measurements, the SERE or SERE-like survival component was common to all of them. In a curious lack of clarity for a peer-reviewed paper, one of the earliest SERE studies describes the methodology by saying, “The methodology employed in this study has been reported elsewhere,” and then goes on to cite unpublished data.17 In the self-described brief summary that follows, the authors go on to describe subject recruitment, screening, and the informed consent process. After baseline assessments including physical and psychological assessment and blood tests, the subjects were given … in as highly realistic manner as possible, a captivity experience in the Army’s training laboratory (TL). In the TL, each subject was subjected to intense and uncontrollable stress, and each attempted to avoid exploitation by their captors. Because of the classified nature of the course, a detailed description of the individuals is not possible.18

The authors then state that the stressors were modeled after those experienced by American captives in WWII, Korea, and Vietnam. The SERE program, of course, has been more fully described in other sources unrelated to this literature, and was the basis of the “enhanced” interrogation program.19 While the authors decline to describe specific stressors in detail for the reasons already stated, they do describe the use of hostile interrogation, sleep deprivation (subjects were allowed to sleep 19 minutes in a 72-hour period), exposure to extreme heat and cold, and food deprivation. All subjects were monitored by medical staff, and were reevaluated during a recovery period after the training.20

Results

In the studies, a variety of variables were measured, including stress hormone levels (serum neuropeptide-Y, serum and saliva cortisol, testosterone, and thyroid hormones) and standardized psychological instruments. Those results were correlated to “behavioral scores” grading soldier performance during the interrogation exercise.

Neuroendocrine Changes

SERE studies demonstrated significant changes in stress hormone levels comparable to those associated with major surgery or actual combat. In the investigators’ words, “[t]he realistic stress of the training laboratory produced


rapid and profound changes in cortisol, testosterone, and thyroid hormone levels.”

In discussing SERE study results in the following paragraphs of this report, it is essential to appreciate that, in the words of the investigators — who have researched human reactions to stress — ‘Multiple neurobiological systems become activated when animals and humans are threatened by dangerous stimuli. Complex interactions between brain regions and neurochemical systems’ are involved.”

While the research literature described here has added to the understanding of the human response to uncontrollable stress, it is clear in reviewing these studies that the understanding of this complex response, and how it might be manipulated to reduce the risk of enduring harm such as PTSD, is extremely limited.

Cortisol

Cortisol, a hormone produced by the adrenal gland, is usually referred to as the “stress hormone” because it is involved in response to stress and anxiety. It increases blood pressure and blood sugar and reduces immune responses, among many other effects. The SERE studies documented very high levels of cortisol during interrogation stress (927 nmol/L) that were higher than any other point during the study, and were higher than those measured in individuals undergoing major surgery (717 nmol/L), continuous and exhausting exercise (731 nmol/L), or skydiving (450 nmol/L). The authors note that theirs is the first study to demonstrate that psychological stress significantly increases bio-available cortisol in humans and also noted that the response varied from subject to subject. The authors note that the stress-induced elevations of cortisol are of a magnitude comparable with levels of glucocorticoids (including cortisol) known to be associated with immune suppression, and provide anecdotal notes of frequent episodes of cellulitis (skin and soft tissue infections) in survival training subjects. They also note that cortisol levels measured in their study are compatible with glucocorticoid-induced memory deficits, and they go on to note “reports by survival school participants that they cannot remember many aspects of their [training] experience.”

Norepinephrine and Epinephrine (Noradrenaline and Adrenaline)

Norepinephrine (NE) and epinephrine (EPI) are the so-called “fight or flight” hormones and they also act as neurotransmitters. The SERE studies noted that interrogation stress resulted in significant elevations in both NE and EPI (1309.8 pg/ml and 133.2 pg/ml respectively). These elevations were comparable to NE and EPI levels measured in novice parachutists (900 and 400 pg/ml respectively) and intubated patients undergoing endobronchial suctioning (1673 and 369 pg/ml respectively). In earlier studies, the authors described the evidence for norepinephrine’s role in encoding of memory for arousing and aversive events and in subsequent re-experiencing symptoms such as intrusive memories and nightmares, symptoms characteristic of PTSD.

Neuropeptide-Y (NPY)

NPY is a peptide that is released with neurons containing norepinephrine and epinephrine and is intimately involved with the regulation of both central and peripheral noradrenergic functioning. Based on preclinical studies, NPY is believed to function as an endogenous anxiolytic (a natural anti-anxiety mediator) that “may buffer the effects of stress on the mammalian brain.” In the SERE studies, the investigators demonstrated that uncontrollable stress significantly increased NPY levels in humans, and when stress was prolonged, it produced a significant depletion of plasma NPY. In addition, investigators found that NPY levels were significantly higher in Special Forces subjects than in general infantry subjects.

The authors describe NPY levels declining within days, and note that depletion is possible with prolonged stress (meaning more than a few days) in some subjects. This suggests that detainees who experience much more intense and prolonged application of EITs would likely experience marked and prolonged depletion of the anti-anxiety effects of NPY.

Testosterone

Testosterone is a steroid hormone from the androgen group. Among other effects, it is the principal male sex hormone, and is an anabolic steroid. The SERE studies indicated that serum testosterone levels were reduced by over 50% during interrogation stress and remained reduced during recovery.
Thyroid studies, including TSH, total and free T3 and T4, thyroid hormones T3 (free and total) and total T4 were significantly reduced during interrogation stress, and TSH significantly increased from baseline in the recovery period.

**Psychological Assessment**

Investigators employed standardized psychological instruments to measure stress, including a Subjective Units of Stress Scale, or SUDS, and a valid and reliable self-reporting instrument to measure dissociative experiences referred to as the Clinician-Administered Dissociative Symptom Scale, or CADSS.

Dissociation is a disruption in the usually integrated functions of consciousness, memory, identity, and perception. Dissociation (when subjects under stress have altered perceptions such as time moving slowly, feeling as if they were in a dream, or feeling as if they were watching things from outside their body), and in particular peritraumatic dissociation, has been associated with the development of PTSD.

Subjects of the survival training were evaluated using a standardized instrument for measuring symptoms of dissociation. The investigators found that before and after the period of the experiential phase of the training where soldiers were subject to semi-starvation, sleep deprivation, lack of control over personal hygiene, and external control over movement, social contact and communication the subjects reported significantly more dissociative symptoms. Whereas 42% of the subjects had reported dissociative symptoms prior to acute stress, 96% of them reported dissociative symptoms in response to acute stress, and dissociative symptoms before and after stress were significantly higher in subjects who had reported perceiving their lives to be in danger.

Despite the nearly uniform prevalence of dissociative symptoms among SERE subjects, there was no assessment of common psychological sequelae to extreme stress such as PTSD or other anxiety disorders and depression. The significance of the CADSS findings is difficult to assess, as the evaluations were done within days of the exposure, and there was no long-term follow-up. There was a positive correlation between dissociation and reports of somatic complaints. Mean dissociation scores for soldier subjects of survival training on the CADSS scale were 9.7 (SD=5.8) for Special Forces subjects and 21.3 (SD=14.6) for general infantry subjects. For reference, in earlier non-SERE related studies of subjects not under acute stress, CADSS scores for subjects with PTSD were 18.9 (SD=118.3), 3.7 (SD=5.2) for patients with schizophrenia, 7.5 (SD=9.6) in subjects with affective disorders such as anxiety or depression, 1.3 (SD=3.9) in Vietnam veterans without PTSD, and 1.5 (SD=2.5) in healthy control subjects.

Higher levels of plasma NPY during acute stress exposure were associated with fewer psychological symptoms of dissociation as well as with superior military performance.

The SERE studies did not track how dissociation scores might have changed in the weeks, months, or years after the training experience. This would have been helpful, since dissociation has greater association with the risk of developing PTSD. Rather, SERE investigators make the striking claim that because the vast majority of their subjects experience dissociative symptoms, the causal link between peritraumatic dissociation and PTSD “must be viewed with caution.” This claim is made in the complete absence of data regarding the number of subjects who go on to have persistent symptoms of dissociation, and more importantly, about the number of their subjects who go on to develop PTSD — which in some cases is only evident decades after the initial trauma.

**Factors affecting level of psychological stress: unavoidable stress**

The authors cite preclinical evidence that “unavoidable stress” (the subject cannot avoid or manipulate the stressor)

28. TSH is thyroid stimulating hormone, and T3 and T4 are thyroid hormones.
has a greater impact on neuroendocrine function than “avoidable stress.” They note that subjects of the training exercise had “no physical or verbal control” over the stressors.38

Variability between subjects

The studies note variability between subjects in both neuroendocrine responses and symptoms of dissociation, and specifically note more favorable stress responses in Special Forces subjects compared with general infantry subjects. The investigators postulate that factors such as prior stress exposure and personality factors may affect “stress hardness” or ability to withstand uncontrollable stress.39 40 They also note that individual factors prior to stress exposure affect response to acute stress and may affect the risk of development of PTSD, although PTSD was not measured.

Limitations of the Studies

The authors themselves cite a number of limitations of the studies. They point out that the studies may underestimate the true effects of stress for a number of reasons. First, they note that their soldier-subjects were “stress hardy” and note evidence that stress-naïve populations have different neuroendocrine responses. Second, they note that they were measuring stress in a mock exercise where “subjects are aware they will not die” and note that the subjects were volunteers who are able to withdraw from the exercise at any time. Third, they note the baseline measures were taken at the classroom phase where it is likely the soldier-subjects were already experiencing some stress.41 Finally, with regard to standardized psychological assessments, they note that “[s]oldiers are familiar with psychological testing and often worry that their responses might negatively affect their status in training.”42

Later SERE Studies

This review has focused on the state of knowledge regarding the SERE-related research as of 2002, when the “enhanced” interrogation program was being designed and deployed. More importantly, this is the period in which some psychologists and psychiatrists advised the government that these techniques were safe. This literature contradicts those claims. Later SERE studies did expand the understanding of the effects of uncontrollable stress in the mock training setting, but did not demonstrate the safety or effectiveness of these techniques, and continued to document risks of harm.

The SERE Studies in the Context of Alleged Human Experimentation in the US Torture Program

Consideration of the SERE literature is essential in understanding the development of the US EIP. To begin with, the SERE program itself was reverse-engineered to develop the “enhanced” interrogation program. Second, professional opinions about the effects of the techniques were used to inform the legal rationale for the program. Third, the experimental framework of these studies intentionally or unintentionally laid the groundwork for unethical and illegal human experimentation that would follow.

Still, the “enhanced” interrogation program consisted of techniques long established as physical and psychological torture. No further experiments were required to demonstrate that these techniques caused and were designed to cause significant pain and suffering and carried significant risk of long-term harm.

It is not surprising, therefore, that the studies reviewed here confirmed that SERE and EI techniques, even when used in limited and controlled settings, produce harmful health effects on consenting soldier-subjects exposed to them. The knowledge of these harmful effects and the understanding that the physical and mental pain associated with EITs would likely be much greater among non-consenting detainees in US custody exposed to more intense forms of EITs, indicate that the EITs could not reasonably be applied without the intent to cause significant physical and mental pain.

OLC lawyers nonetheless used the SERE studies as part of their justification for redefining previously recognized acts of torture as “safe, legal and effective” EITs. Subsequent EI policy required health professionals to assume the role of “safety officers” by monitoring each EIT to ensure, according to OLC logic, that any pain inflicted did not exceed the legal thresholds for severe physical or mental pain. The intentional infliction of pain, whether severe or not, in the absence of any therapeutic purpose and without informed consent cannot reasonably be construed as ensuring “safety”; it is both unreasonable and dishonest. As PHR’s analysis demonstrates, apparent human experimentation, in the form of systematic medical monitoring of and subsequent application of generalizable knowledge, served other instrumental purposes: to justify previously recognized torture practices, to inform specific EI practices, and to serve as a potential legal defense against criminal liability for torture.
**APPENDIX 2**

*Health Professional Ethics on Detainee Research and Interrogation*

The Bush administration’s apparent research and experimentation on detainees in US custody violated accepted standards of medical conduct enshrined in the ethics codes of major American and international health professional associations, including the American Medical Association (AMA) and the World Medical Association (WMA). Each of the associations — with the sole exception of the American Psychological Association (APA) — prohibits human subject research without prior informed consent, in keeping with the Nuremberg Code. All applicable codes of ethics — even the APA’s weaker human subject protections — can be read to explicitly prohibit the research carried out on detainees by personnel of the CIA’s Office of Medical Services (OMS).

Universally recognized standards of health professional ethics forbid participation in torture and in the act of interrogation itself. Health professionals who participated in any of the core functions of the OMS program — whether physicians, psychologists, psychiatrists, or nurses — committed grave violations of their ethics codes. They should be investigated by the relevant professional associations and licensing boards and, if found to have been involved, should face appropriate professional sanctions, including loss of their ability to practice their professions.

*American Medical Association*

The AMA’s Code of Medical Ethics prohibits the research activities of the OMS because it requires that subjects be thoroughly and accurately informed by a physician before choosing whether to participate in any research. According to Section 8 of the AMA’s ethical guidelines, it is mandatory that physicians abide by this rule unless a subject is unable physically or otherwise to consent:

The patient’s right of self-decision can be effectively exercised only if the patient possesses enough information to enable an informed choice. The patient should make his or her own determination about treatment. The physician’s obligation is to present the medical facts accurately to the patient or to the individual responsible for the patient’s care and to make recommendations for management in accordance with good medical practice.

Physicians must neither conduct nor directly participate in an interrogation, because a role as physician-interrogator undermines the physician’s role as healer and thereby erodes trust in the individual physician-interrogator and in the medical profession.

Physicians must not monitor interrogations with the intention of intervening in the process, because this constitutes direct participation in interrogation.

Physicians may participate in developing effective interrogation strategies for general training purposes. These strategies must not threaten or cause physical harm from treatment is imminent. In special circumstances, it may be appropriate to postpone disclosure of information.43

The AMA’s Code of Ethics also states that health professionals are prohibited from using their skills and expertise in interrogations, and are prohibited from being involved in any form of interrogation, whether the involvement is direct or indirect. They also cannot monitor or participate in interrogations in any way—all principles that OMS physicians violated:

Interrogation is defined as questioning related to law enforcement or to military and national security intelligence gathering, designed to prevent harm or danger to individuals, the public, or national security. Interrogations are distinct from questioning used by physicians to assess the physical or mental condition of an individual. To be appropriate, interrogations must avoid the use of coercion — that is, threatening or causing harm through physical injury or mental suffering. In this Opinion, “detainee” is defined as a criminal suspect, prisoner of war, or any other individual who is being held involuntarily.

Physicians who engage in any activity that relies on their medical knowledge and skills must continue to uphold principles of medical ethics. Questions about the propriety of physician participation in interrogations and in the development of interrogation strategies may be addressed by balancing obligations to individuals with obligations to protect third parties and the public. The further removed the physician is from direct involvement with a detainee, the more justifiable is a role serving the public interest. Applying this general approach, physician involvement with interrogations during law enforcement or intelligence gathering should be guided by the following:

1. Physicians may perform physical and mental assessments of detainees to determine the need for and to provide medical care. When so doing, physicians must disclose to the detainee the extent to which others have access to information included in medical records. Treatment must never be conditional on a patient’s participation in an interrogation.

2. Physicians must neither conduct nor directly participate in an interrogation, because a role as physician-interrogator undermines the physician’s role as healer and thereby erodes trust in the individual physician-interrogator and in the medical profession.

3. Physicians must not monitor interrogations with the intention of intervening in the process, because this constitutes direct participation in interrogation.

4. Physicians may participate in developing effective interrogation strategies for general training purposes. These strategies must not threaten or cause physical harm from

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injury or mental suffering and must be humane and respect the rights of individuals.

5. When physicians have reason to believe that interrogations are coercive, they must report their observations to the appropriate authorities. If authorities are aware of coercive interrogations but have not intervened, physicians are ethically obligated to report the offenses to independent authorities that have the power to investigate or adjudicate such allegations.44

American Psychiatric Association

In May 2006, the American Psychiatric Association45 adopted an ethical prohibition against direct participation by psychiatrists in interrogations; as an affiliate organization of the AMA, it also abides by AMA guidelines on human subject research and interrogations.

American Psychological Association

Amendments to the APA’s ethics code in 2002 weakened human subject research protections. The APA changes allowed a waiver of the requirement for prior informed consent in circumstances “where otherwise permitted by law or federal or institutional regulations.”46 While the APA ethics standards for research offer significantly less protection than the codes of the other associations, the “enhanced” interrogation program (EIP) research program still appears to violate the amended APA code.

There is no evidence in the public record that the Bush administration provided health professionals with an official exemption from the Common Rule, the federal regulations governing federally funded human subject research.47 Thus, the 2002 APA ethics code as currently written does not protect psychologists involved in EIP research from ethics violation charges as long as the Common Rule applies.

United Nations

The UN document called Principles of Medical Ethics relevant to the Role of Health Personnel, particularly Physicians, in the Protection of Prisoners and Detainees against Torture and Other Cruel, Inhuman or Degrading Treatment or Punishment prohibits the involvement of OMS health professionals in interrogations. Under the UN principles, a health professional would violate medical ethics by using medical experience and expertise to facilitate interrogations of detainees:

It is a contravention of medical ethics for health personnel, particularly physicians: To apply their knowledge and skills in order to assist in the interrogation of prisoners and detainees in a manner that may adversely affect the physical or mental health or condition of such prisoners or detainees and which is not in accordance with the relevant international instruments...48

World Medical Association

The WMA Medical Ethics Manual, which was adopted from the Declaration of Helsinki (DoH),49 requires written documentation of informed consent by the subject. The manual also guarantees the right of research subjects to terminate their involvement in research at any point:

The DoH, like other research ethics documents, recommends that informed consent be demonstrated by having the research subject sign a ‘consent form’ (paragraph 24). Many ethics review committees require the researcher to provide them with the consent form they intend to use for their project. In some countries these forms have become so long and detailed that they no longer serve the purpose of informing the research subject about the project.

In any case, the process of obtaining informed consent does not begin and end with the form being signed but must involve a careful oral explanation of the project and all that participation in it will mean to the research subject.

45. Ibid.
47. 45 C.F.R. § 46.102(d) (2005)
Moreover, research subjects should be informed that they are free to withdraw their consent to participate at any time, even after the project has begun, without any sort of reprisal from the researchers or other physicians and without any compromise of their healthcare.50

The WMA’s guidelines on interrogations also prohibit the use of medical expertise to aid in interrogation practices on detainees, and provide that a physician must report to authorities any breach of the Geneva Conventions:

When providing medical assistance to detainees or prisoners who are, or who could later be, under interrogation, physicians should be particularly careful to ensure the confidentiality of all personal medical information.

A breach of the Geneva Conventions shall in any case be reported by the physician to relevant authorities.

The physician shall not use nor allow to be used, as far as he or she can, medical knowledge or skills, or health information specific to individuals, to facilitate or otherwise aid any interrogation, legal or illegal, of those individuals.51

