# Articles from originals

## Bioethical Analysis of brain death diagnosis, and organs donation in reference public hospital in the **Federal District**

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### **Abstract**

Bioethical analysis of brain death diagnosis, and organs donation in a reference public hospital in the Federal District, Brazil

The present study consists of a bioethical analysis of brain death diagnosis in the context of obtaining organs for transplantation in a public hospital in the Federal District of Brazil. The following aspects were analyzed: physicians' knowledge concerning the criteria established by Resolution number 1,480/97 from the Federal Council of Medicine; the difficulties in observing these criteria; the physicians' view on the effectiveness and security of brain death diagnosis; the structure offered by the medical center; and the complementary exams considered safe for the diagnosis under debate. The methodological procedure comprised two moments: 1) the analysis of documents - Brain Death Declaration Forms (BDDF) and Notifications of Potential Donors issued from January/2000 September/2004; to and 2) application and interpretation of questionnaires answered by thirty physicians and residents. The study showed low efficiency of the analyzed hospital in obtaining organs for transplantation. It also showed that the hospital is not prepared to determine brain death with effectiveness and safety, and that brain electroencephalography is the safest complementary exam for that diagnosis.

**Key words:** Bioethics. Brain death diagnosis. Organ transplantation.

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Organs transplants are part of medical daily There is a tireless search to develop routine in the 20th Century. If, in one hand, they new transplant techniques, and for bring hope for better quality of life to thousands the ellaboration of standards that people, in the other hand, they present as major are more suitable, which enables problem due to difficulties faced by those who, maintenance of human life with dramatically, need organs in order to continue quality, and allowing for his return to living.

previous status quo. Consequently, organs transplant, in the past thirty years, had a remarkable progress due to greater biological



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knowledge, to new surgical techniques, and use of immunosuppressive drugs <sup>1</sup>.

In Brazil, the legislation in force allows for free disposition of tissues, organs and parts of the human body, in life or *post mortem*, for transplantation <sup>2</sup>. In case of donation between living people, its effectiveness can be authorized only after undertaking, in donor, routine exams for infection diagnosis and infestation screening. Living donor is any citizen over 21 yers old and capable, within the terms of law, who can donate organ or tissue without compromising his health or vital capabilities.

Post mortem withdraw of organs aimed for transplant shall be preceded indispensably of brain death diagnosis, verified and recorded by two physicians non-participants in the removal and transplantation teams through use of clinical and technological criteria defined by specific resolution set by the Federal Council of Medicine (CFM). The removal of organ or tissue of donator-corpse, in its turn, will depend on spouse or relative's authorization, following the direct or collateral successor line until second degree inclusively, signed in documents subscribed by two witnesses who are present at death verification <sup>2,3,4</sup>.

Organs will be targeted to patients who need transplant, and are waiting for their turn in a single list, defined by the Transplant Central of each state health secretariat and controlled by the Public Attorney's Office.

There are several questionings surrounding capture and distribution of organs and tissues for transplants. However, there are aspects related to this procedure that deserve special attention, like used criteria by physician for the brain death diagnosis, which is the object of present work.



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Ethical dilemmas and the need to get donators for transplants required setting clinical and technological criteria for verification of brain death foreseen, currently, in Brazil, in CFM Resolution no. 1,480, of August 21, 1997 <sup>5</sup>. Lack of brain activity, including brainstem, bases these criteria. They were disciplined by the Council using it attribution conferred<sup>6</sup>, and regulated by Decree no. 44,045/58,by Law no. 3,268/57 and, still, in attention to the foreseen in Article 3 of Law 9,434/97 <sup>2</sup>, which deals with removal of organs, tissues and parts of human body for transplantation.

Physicians should follow strictly the criteria foreseen in CFM Resolution no. 1,480/97 <sup>5</sup> , not only to dismiss doubts regarding certification of brain death occurrence as well as to safeguard them before society and the State, in view of the possibility of becoming target to administrative processes and legal suits when they may be charged responsibility for the death.

The purpose of present study is to undertake a bioethical analysis of brain death diagnosis and organs donation, having as reference a tertiary public hospital integrated to the National Transplant System, Base Hospital of the Federal District (HBDF). It aims at verifying physicians' perception regarding such diagnosis safety and efficacy, in accordance to criteria set forth in CFM Resolution no. 1,480/97 <sup>5</sup>.

# Evolution of brain death concept and the setting of criteria to determine brain death

Death is a polemic issue within the scope of medicine, even more so in view evolution that neurologic therapeutics achieve in the past years. However, it is always difficult to be accurate, despite all researches, about the exact timing of its occurrence since it does not constitute an instantaneous fact, but a sequence of gradually processed phenomena

in several organs and life maintenance systems.

The emergence of artificial means of protocol on encephalic death, in maintenance and support to life made it Brazil, was approved by the Rio even more difficult the definition of death. The establishment of Medicine, in 1987. Later, CFM issued, in criteria for determination of brain death, August 8, 1991, the Resolution no. in its turn, gradually acquired greater 1,346/91<sup>10</sup>, establishing criteria to be adopted in importance in light of standards set to Brazilian hospitals since then. carry out transplants. All this gave opportunity to most diverse debates about the With issuance of Law no. 9,434/97 2, CFM issue seeking uniformization of concepts 8.

The Council for Organizations of Medical jointly established by the World Health of required integral, feasible, in good conditions, Organization (WHO) and the United perfused organs, along with new techniques of Nations Educational, Scientific Cultural Organization (Unesco) met in Geneva, in 1968, and set criteria about The issue is complex as one would suppose, "brain" death (currently denominated becoming necessary to consider several encephalic death) that were unanimously factors for the establishment of criteria, since approved by all participant countries. no technological process has shown, isolated, The declaration produced is based on: integrally satisfying, to accurately define the (...) what one should understand by donator's death in moment of death 8. Criteria for certification of transplant cases: 1. Loss of all sense of ambience; encephalic death differentiate case by case, and 2. Total debility of muscles; 3. they generate questionings. Additionally, Spontaneous paralysis of breathing; 4. Colapse of physicians experience constantly major blood pressure in the moment that it is not kept artificially dilemmas in the decision of suspending anymore; 5. Trait absolutely linear of the reanimation efforts in a patient, since electroencephalogram 8.

Several scientific events were undertaken seeking to safe. elaborate documents capable to characterize brain death. Such discussions, most of the time, have as It is necessary, in order to understand the clinical reference the original text issued in 1968 by parameter for encephalic death, to know the

in many countries. Some prefer a previous declaration, The Human Tissue Act, of 1961, instituted in England 8. The first accurate Grande do Sul Regional Council of

issued another resolution, that of no. 1,480/97, conforming to the new scientific and International technological knowledge, since transplant undertaking Sciences, imposed specific criteria in determining death, in view and rejection control.

> diagnosis and certification encephalic death must be absolutely

the Harvard Committee 9, which began to be used coma concept. This word comes from the Greek

koma (similar to sleep) and it characterizes by These professionals have special attention in inadequate responses or lack of external stimuli ellaboration and setting encephalic death criteria, and/or internal necessities. Historically, this because they are the only ones with competence to necessity came from the certification that certain make its diagnosis and, therefore, they need to be sure patients admitted in hospital emergency services in relation to them. Additionally, ethical and moral presented some level of disturbance of conscience, what motivated the emergence of relationship with patients, both in the private-individual several proposals for monitoring the evolution of scope and in the public-collective dimension, may be coma conditions. Thus, the need to employ clinical, laboratory and electrophysiological rather essentially conflictive 13. criteria, among them, for example, the classic Glasgow scale 11, traditionally used In addition to physicians difficulties in the evaluation severity of brain in damage, post-traumatic or not, that specific situations in which there is need to serves as indicator in evolution of communicate or to discuss the situation coma conditions.

Several exams of extreme importance for the diagnosis of encephalic death evaluate brain electrical activity, metabolic activity, and brain blood perfusion, such as computerized tomography, intracranial monitoring, chemical markers of the cephaloraquidian liquid, the electroencephalogram, brain angiography, transcranial doppler, radionuclide imaging, and evoked brainstem auditory potential 12.

Physicians should observe strictly the criteria stipulated in CFM resolution in order to arise Objectives doubts regarding certification encephalic death occurrence, as well as to safeguard them from possible administrative processes or legal suits aiming at turning them responsible for death occurrence. based in both Penal and Civil Codes.

dilemmas that they experience are huge, since their characterized not only just as eventually conflictive, but

diagnosis of encephalic death, there are with the family, not speaking of the characteristics of each patient and of each case, which should be analyzed carefully by the team 14. In view of this picture of uncertainties and conflict, it is impossible not evoke bioethical referential to deal with present topic, because there is a very close relation between history of organs transplants and bioethics genesis itself (una muy estrecha relación entre la historia de los transplantes de órganos y la gênesis misma de la bioética) 15.

The present work has as overall objective to study encephalic death situation, the capture of organs for transplant in the HBDF, and the following up of criteria foreseen in CFM Resolution no. 1,480/97 5. Specific objective were: a) to evaluate the declaration term of encephalic death (TDME), and the potential donor notification (NPD), routine documents issued in

cases of capture of organs for transplant undertaken justified by the fact that they are responsible in this hospital, during the period of January 2000 and for carrying out exams for encephalic death September 2004; b) to analyze the level of knowledge of neurologists and intensivist (physician working in the intensive care units - ICU) about mentioned criteria; c) to verify difficulties in following up criteria foreseen in above mentioned resolution; d) to get these physicians' opinion regarding if they understand as safe or not the declaration of encephalic death based in such criteria; e) to analyze interviewees' perception about the efficacy of encephalic death diagnosis in capturing organs; f) to verify if studied medical institution is structured suitably to enable such diagnosis; g) to question if physicians included in the sample for the study would provide a TDME based so lely in a neurologic clinical examination; h) to get a report on which complementary exams they consider cause of coma, while coma due to hypothermia and as the safest for encephalic death diagnosis

## Method

two instances. The first, analysis of signed by two physicians, information stated in the TDME and cannot comprise organs removal and NPD, in cases of capture of organs in transplant teams. Still, the following items are the HBDF, obtained at the Central of Capture analyzes in these exams: non-perceivable of Organs and Tissues, during the period of coma, January 2000 to September 2004. The second, pupils, absence of corneal and regards submission of questionnaires to 30 pupil neurologist and intensivist doctors in mentioned oculocephalic reflex, absence to hospital, and chosen randomly with analysis of heat responses a posteriori. The option for coughing reflex, and apnea. Finally, neurologist and intensivist doctors is

diagnosis and, jointly they experience the dilemmas pertinent to studied topic. After signing the free and clarified consent term by participants in the research, it was clarified that their respective identities would be anonymity.

TDME, the first document analyzed, serves to attest occurrence of encephalic death. Clinical and complementary data are recorded in this document. It presents a field targeted to patient's identification and to clinical diagnosis. Next, it deals with the for the central nervous system depressive drugs ceases. Then, it follows the field targeted for neurological exams, which will be carried out in preset periods, in accordance to patient's age. Neurological exams, are designed as exam 1 and exam 2 The research process was divided in and they must be carried out and fixed and non-reactive reflex. absence test reflex, absence complementary exam is carried in order to unequivocally show lack o intracranial blood circulation, of electrical brain activity metabolic brain activity, with observations about patients' age as well.

TDME, duly filled up and signed, as well as 5. adequacy of the structure for encephalic death complementary exams used for encephalic diagnosis in mentioned hospital; 6) eventual death diagnosis should be filed i patient's own supply of a TDME based just in clinical medical records file, as determined by Article 8 examination; of CFM resolution. Once encephalic death is exams would be considered by the certified and documented, the clinical director of interviewed as the safest for encephalic the hospital institution or someone delegated by death diagnosis. him, should communicate the even to patient's possible legal representative and to the Central Results of Notification, Capture, and Distribution of Organs to which the hospital unit is linked and One verified that, in first instance of the where the patient was intern, as prescribed by research, TDMEs and NPDs at HBDF Article 9 of the resolution, while a copy of the are filled up in accordance to what is term must be sent mandatorily to the state set forth in Resolution no. 1,480/97 controlling agency (item 7 of TDME).

NPD, in its turn, has a field targeted to analysis evidenced that, for effect of identification of possible donor and other organ donation from patients with to justify the causes for non-donation in encephalic death, different physicians those cases considered as non-suitable who do not comprise transplant team (lack clinical conditions. encephalic confirmed death. respiratory arrest, positive serology for used complementary exam. infectious-contagious disease, family refusal, non-located family, or others).

In the second stage of the work, the questionnaires submitted to 30 neurologist and intensivist doctors had seven multiple choices questions, with demands about: 1. Knowledge about encephalic death concept; 2. Interviewee's impression about confiability of encephalic death diagnosis in light of criteria without clinical conditions presented a rate of 57%. foreseen in CFM resolution; 3. Difficulties in following up mentioned criteria; 4. HBDF efficacy in capturing organs

7. which complementary

and in pertinent legislation, while observing inherent procedures. TDME non- undertake two neurological exams, and cardio that electroencephalogram is the most

> Figure 1 presents the results of analyzed 676 potential donor notifications from January 2000 to September 2004. One verified that average effective donation was at the level of 15.8%, family refusal had a percentage average of 27.2%, and other causes for loss of donation, which refer to possibilities of PCR (cardio respiratory arrest), serology, non-confirmed encephalic death diagnosis, non-donor while alive or

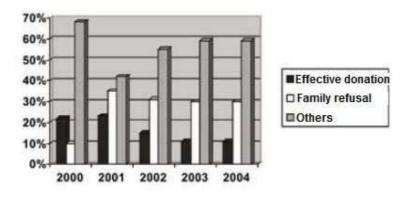


Figure 1. Data from analysis of 676 NPDs at HBDF, January/2000-September/2004 Source: authors' research.

One verified that, regarding the evaluation of criteria are followed. Still, it was found that 80% questionnaires, interviewed neurologist and would not provide a TDME exclusively based in intensivist doctors were in age group of 26 to 53 neurologic clinical exam, without complementary years old. Among these, 93.3% had knowledge exam, and 63,4% consider that HBDF is not of CFM Resolution no. 1.480/97 to certify, structured in a way to enable such unarguably, occurrence of encephalic diagnosis safely. death. Concerning the reason for difficulty in following the criteria from mentioned Concerning questioning related to safer resolution, some of the interviewees complementary exams, respondent chose check more than one item, with the more than one item. One noticed that following outcome: 57% stated lack of 73.3% technological resources, 53% understand that angiography, difficulty lies in shortage of human doppler, resources, and just 17% point to lack of electroencephalogram, 19.9% preferred financing resources. The majority (86,6%), radionuclide imaging, and 6.7% believe that certification is safe, as long as resolution

of interviewed indicated 63.3% chose transcranial 56.6% indicated the chose the electric potential, as shown in Figure 2.

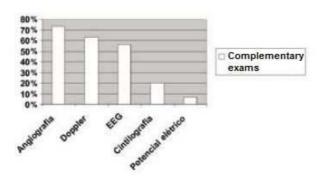


Figure 2. Safer complementary exams for encephalic death diagnosis, according to interviewed intensivist doctors at the HBDF

Source: authors' research.

## **Discussion**

From the necessity and obligation for physician to follow criteria foreseen in **CFM** Resolution no. 1,480/97 diagnosis encephalic death, one creates a bridge to analyze the issue in light of bioethics. The present work aims at, among other aspects, analyzing the necessity of encephalic death diagnosis to be absolute safe and unarguable for the security of potential donor and his family (in cases of donor-corpse), in addition to rescue needed protection to medical class, in the hypothesis of administrative process or legal suit aiming at accountability.

From TDME and NPD analysis one found that HBDF follows, in filling up these documents, what is foreseen in laws no. 9,434/97 <sup>2</sup> and 10,211/01 <sup>3</sup> and in already mentioned CFM resolution. That is, the institution and its physicians have a conduct based in national standards that govern the issue.

However, Figure 1, produced after analyses of NPDs, evidences that organ capture is not been effective, in as much as the decrease in effective organs donation during the almost five years surveyed. In this period, effective donation, this was about 20% in the period of 2000-2001, lowered to just 10% in the period of 2003-2004. In parallel, family refusal, preponderant factor in organs capture that was significantly below 10% in 2000, increased to about 30% in the following years, probably due to inopportune and unskilled way that

Executive Power and National Congress dealt and enacted, at the time, the so-called Law of Presumed Donation, later revoked, which generated so much distrust among population <sup>16</sup>. The major reason detected for loss of donations, however, is in item "other causes" that presents an average about 57.7% for the period. These, are consubstantial in: cardio respiratory arrest, positive serology (hepatitis, HIV/Aids, or other problems), non-confirmed encephalic death diagnosis, non-donator statement in life, and lack of clinical conditions.

Brazil made significant progress in the past years regarding legislative feature in health sector. Its Constitution is considered as one of the most advance in the world regarding health <sup>13</sup>. Laws 9,434/97 and 10,211/2001, as well as CFM Resolution no. 1.480/97, were issued following this constitutional advance. However, despite legislative progress in the health sector, particularly in human organ and tissues transplant realm, the survey showed that there inefficacy in organs capture at HBDF, which implies in long permanence of people in queue, waiting for an organ. The fact that benefits for society are far below what should be expected, despite the country counting on suitable legislation, indicates that the collective practice is far from following progress provided by law 13.

Additionally, as families' refusal in the donation field gradually increased tp a high level, one understands that

families do not feel safe regarding the process. According to responses gotten in the survey, that involves organs donation and transplant. major difficulty in following criteria of This mistrust may be related both in the regular mentioned resolution, actually of the HBDF, compliance of transplant complex process and, specially, to criteria used for encephalic death resources sufficient for good institutional work. certification at HBDF, what one may infer from responses given by interviewed Physician has his conduct guided in experts. In this context, people are in the way to vulnerability position probably for not knowing procedures involving organs donation, or because they are not duly clarified regarding to his well-being <sup>17</sup>. This is what one extracts encephalic death concept. The State. because what is set forth in Article 10. single paragraph of Law no. 9,434/97<sup>2</sup>, temhas the duty and responsibility to undertake public campaigns to clarify the public and to stimulate organ donations, which would allow people to understand the waits in line for an organ, it is prevented from meaning of encephalic death concept and the whole ethical dimension that involves the where physicians work is not structured suitably to issue.

Regarding to what refers the second instance of the research, related to analysis of questionnaires, one noticed that majority of interviewees informed to know CFM resolution criteria related to certification of encephalic death occurrence. Those few respondents, who stated not knowing of it, possibly do not work routinely and directly with organs transplant procedures. Nevertheless, the majority of physicians heard was duly aware of all procedures that must be followed in the diagnosis of encephalic death, what is least minimized, to patients. fundamental so they can act with commitment and responsibility, providing benefits expected by patients in the waiting line for organs.

relied in lack of human and technological

minimize risks and damages, and to avoid any loss to patients, seeking to contribute always from beneficence and non-maleficence, respectively, both historical references in Hippocratic tradition of, above all, to do the good and to avoid evil. At this point, a major conflict is set out that is experienced by the medical class. In the yearning that is peculiar to it of providing continuation of life to a human being who contributing to this higher good because the institution enable safely encephalic death diagnosis.

Thus, it becomes a flagrant case of maleficence due to omission. One inflicts an evil to people in queue waiting for an organ, in order to continue living, because the hospital does not have human and technological resources to make operational organs transplantation. The nonmaleficence principle presents the obligation of not inflicting any damage to patient, and it derives from the maxim primum non nocere, assuring that physical harm is avoided, or al It becomes necessary, then, an interventional of a responsible bioethics in the 21st behavior by the responsible public powers Century<sup>18</sup>: precaution, prevention, prudence, (Ministry of Health and Public Attorney's and protection. Office), seeking to solve such deficiencies in order to organs transplants become it was formally proposed at RIO 92 Conference effective.

One must stresses, still, the vulnerability to in accordance to current status of knowledge, which physician undergoes, due to lack of conditions in consequence of non compliance of legislation by the institution in which he works, been liable, by omission, to professional and legal processes. Encephalic death certification is safe, for large majority of interviewed, as long as CFM resolution criteria are followed. The majority stated that they would not provide a TDME only based in neurologic clinical characterizing the conduct of majority examination, without complementary exam.

as the safest complementary exam for ME diagnosis without complementary exam. (73.3% of responses), followed by transcranial doppler (63.3% of responses), and the electroencephalogram (56.6% of responses). However, our survey found that this third option electroencephalogram - was the most means in the institution complementary exam for ME certification, according **TDMEs** analysis. Additionally, 63% understood that the HBDF is not structured to safely enable such diagnosis.

The current discussion can be enriched with references proposed in the context of the four "Ps" needed for the exercise

the precaution principle, understood as (...) the guarantee against potential risks that, cannot be identified. This principle states that lack of formal scientific certainty, the existence of severe or irreversible damage risk requires implementation of measures that may foresee this 19. This principle, by nature, seeks to set away the danger of damage in situations of uncertainties. It implies a cautious action in face of of interviewed physicians who stated that they would not provide a TDME just Those Interviewed consider brain angiography based in a neurologic clinical exam,

> The idea of prevention, in its turn, focus on the management and control need at instance previous to undesired event. the However, in the case under study, its applicability collides with HBDF structural problems informed by the interviewees. Physicians, in their replies, showed prudence in their acts, that is, careful, cautious. analysis reveals that they guide their activity in not acting hastily for their patients' protection, and it shows that they intend to act with legal support in transplant area, aiming at greater safety for all involved.

> > The virtue of *prudence* is essential in medical activity related to organs

transplants, since accredits professional to habitually execute what is However, efficacy of transplants is correct, what is convenient, and what is truly hindered by the fact that professional good for patient. This coherence with the activity developed by due to issues concerning insufficiency or physicians in studied sample, since the majority shortage of human and technological would not provide a TDME just based in resources. It is necessary, in the realm of neurologic clinical exam. complementary exam. Similarly, this posture science advances to other ethically is in agreement with the fact of not been responsible, of a technocracy that satisfied with the choice of one single dominates Man toward a technology that complementary which exam, is accordance to the fact that one of major of a legal-formal democracy to a real democracy that problems with encephalic death diagnosis conciliates freedom and justice 21. relies in the fact that any single isolated technological process has shown to be Final considerations integrally satisfying 8.

understood by Schramm as (...) the of the 1988 Federal Constitution, laws no. measure that must, necessarily, be taken to protect 9,434/97 and 10,211/01 related to health individuals and populations that do not have other sector were issued, as well as CFM measures to assure their indispensable conditions to Resolution no 1,480/97, aiming at making lead a dignified life 20. That is, protecting operational discussion herein gets two ways, according procedure in the country. to interviewees' perspective: that of the donator-corpse safety in encephalic death diagnosis in HBDF, showed that there is difficulty in order to remove organs; and that of practical implementation of the patient who is in the waiting list, waiting conquests, particularly about safety in for a savior organ. Therefore, both must encephalic death diagnosis. In that institution, be protected.

Thus, it is unarguable that, for interviewed and physicians, following criteria set forth by element of the whole process of organ CFM is indispensable to the end proposed capture is the precocious encephalic by legislation related with organ donation in death the country, which gives them need security establishment turns organs for donation

the to exert activities related to transplants. posture shows feel difficulty in following referred criteria without organs capture, that an ethically free in is at service of Man's own humanity ( ...)

The topic of organs transplant, in the The protection issue, in its turn, is 1990s, won notoriety. After promulgation the whole organs

> situation, which requires The present research, undertaken at efficacy in this diagnosis is hindered by structural problems related to shortage of human resources. technological Catalyst diagnosis. Delay in its unfeasible.

Still, in accordance to collected data, one regard, particularly related to encephalic death cannot forget the high rate of family refusal concept itself. in the past four years, which also turns transplants unfeasible. One may infer that Research points to the need of going families do not feel safe regarding organs from transplant process, possibly because they constitutional do not know organ donation procedure, practice of doing and changing, in order because they do not trust public health to have the consecrated hope of system to define encephalic death, or epidemiological pictures more dignified because they are not duly clarified to this

the suitable Brazilian dispositions to the regarding health of Brazilians 13.

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## Resumen

Análisis bioética del diagnostico de muerte encefálica y de la donación de órganos en el hospital público de referencia del Distrito Federal, Brasil

El estudio hace un análisis bioética del diagnostico de muerte encefálica (ME) en el contexto de la captación de órganos para trasplante en el Hospital de Base del Distrito Federal (HBDF), institución de referencia regional, con base en la Resolución 1.480/97 del Consejo Federal de Medicina (CFM) en lo referente a: i) grado de conocimiento médico; ii) confiabilidad; iii) dificultades para su seguimiento; iv) eficacia y seguridad; v) adecuación de la estructura y de los recursos del hospital para adopción de estos criterios. La investigación mostró bajo índice de donación efectiva (15,8%); significativo índice de recusa familiar (27,2%); otras causas de pérdida de la donación sumaron 57% (parada cardiorrespiratoria, serologia positiva etc.). La aplicación e interpretación de cuestionarios contestados por 30 médicos neurólogos e intensivistas del HBDF, que mostraron los siguientes resultados: los criterios preconizados por el CFM son conocidos por más del 93% de los entrevistados y considerados confiables por 86,6% de ellos; por falta de recursos tecnológicos y humanos, 63,4% piensan que el hospital no está estructurado para proveer un diagnóstico de ME seguro; 80% de los entrevistados no firmarían un TDME basado exclusivamente en el examen clínico; 73.3% indicaron la angiografía cerebral como el examen complementario más seguro para diagnosticar ME, aunque el electroencefalograma fuese el

medio más utilizado en la Institución.

Palabras-clave: Bioética. Muerte encefálica. Diagnóstico. Trasplante de órganos.

Resumo O estudo faz uma análise bioética do diagnóstico de morte encefálica (ME) no contexto da captação de órgãos para transplantes na instituição de referência regional, o Hospital de Base do Distrito Federal (HBDF), tendo por base a Resolução 1.480/97 do Conselho Federal de Medicina (CFM), quanto a: i) grau de conhecimento médico; ii) confiabilidade; iii) dificuldades para seguimento; iv) eficácia e segurança; v) adequação da estrutura e dos recursos do hospital para a adoção desses critérios. A pesquisa mostrou baixo índice de doação efetiva (15,8%); significativo índice de recusa familiar (27,2%); outras causas de perda (parada cardiorrespiratória, sorologia positiva etc.), 57%. A aplicação e interpretação de questionários respondidos por 30 médicos neurologistas e intensivistas do HBDF, indicaram os seguintes resultados: os critérios preconizados pelo CFM são conhecidos por mais de 93% dos entrevistados e considerados confiáveis por 86,6% deles; por falta de recursos tecnológicos e humanos, 63,4% acham que o hospital não está estruturado para prover um diagnóstico de ME seguro; 80% dos entrevistados não assinariam um TDME baseado exclusivamente no exame clínico; 73,3% indicaram a angiografia cerebral como o exame complementar mais seguro para diagnosticar ME, embora o eletroencefalograma fosse o meio mais utilizado na instituição.

Palavras-chave: Bioética. Morte encefálica. Diagnóstico. Transplante de órgãos

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