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Altri autori (Persone)	NovitzkyDimitri CooperD. K. C <1939-> (David K. C.)
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Nota di contenuto	Introduction -- Historical Aspects of the Diagnosis of Death -- The Determination of Brain Death -- Legal Aspects of Declaration of Brain Death and Organ Donation.-Ethical Aspects of Declaration of Brain Death and Organ Donation -- Pathophysiology of Brain Death in Small Animal Models.-Pathophysiology of Brain Death and Effects of Hormonal Therapy in Large Animal Models.-The Efficacy of Thyroid Hormone Therapy in Brain-Dead Heart Donors: A Review of Thyroid Function in Health and Disease.-The Inflammatory Response to Brain Death -- The Influence of Brain Death and Intensive Care Management on Donor Organs: Assessment of Inflammatory Markers.-Brain-Death-Induced Inflammation: Possible Role of the Cholinergic Anti-Inflammatory Pathway -- Innate Immunity and Injury During Brain Death: Opportunities for Intervention -- Selection of the Brain-Dead Potential Organ Donor -- Infectious Disease Aspects of the Brain-Dead Potential Organ Donor -- Malignancy in the Brain-Dead Organ Donor -- Early Clinical Experience of Hormonal Therapy in the Brain-Dead Potential Organ Donor -- Assessment, Monitoring, and Management of the Brain-Dead Potential Organ Donor -- Assessment, Monitoring and Management of Brain-Dead Potential Organ Donors in Europe --

Current Management of Brain Dead Donors in Australia -- Management of the Brain-Dead Organ Donor—Perspectives of the Transplant Coordinator.-Surgical Aspects of Thoracic and Abdominal Organ Procurement from Brain-Dead Donors -- Impact of Brain Death on Storage of the Heart -- Impact of Brain Death on Abdominal Organs and Allograft Preservation Strategies -- Functional Repair of Brain Death-Induced Injury.-Functional Repair of Brain-Death-Injured Donor Lungs -- Thyroid Hormone Therapy to the Recipient of a Heart from a Brain-Dead Donor -- Current and Potential Future Trends in the Management of the Brain-Dead Organ Donor.-Maximizing Utilization of the Potential Deceased Donor—The Challenge Continues. Introduction -- Historical Aspects of the Diagnosis of Death -- The Determination of Brain Death -- Legal Aspects of Declaration of Brain Death and Organ Donation.-Ethical Aspects of Declaration of Brain Death and Organ Donation -- Pathophysiology of Brain Death in Small Animal Models.-Pathophysiology of Brain Death and Effects of Hormonal Therapy in Large Animal Models.-The Efficacy of Thyroid Hormone Therapy in Brain-Dead Heart Donors: A Review of Thyroid Function in Health and Disease.-The Inflammatory Response to Brain Death -- The Influence of Brain Death and Intensive Care Management on Donor Organs: Assessment of Inflammatory Markers.-Brain-Death-Induced Inflammation: Possible Role of the Cholinergic Anti-Inflammatory Pathway -- Innate Immunity and Injury During Brain Death: Opportunities for Intervention -- Selection of the Brain-Dead Potential Organ Donor -- Infectious Disease Aspects of the Brain-Dead Potential Organ Donor -- Malignancy in the Brain-Dead Organ Donor -- Early Clinical Experience of Hormonal Therapy in the Brain-Dead Potential Organ Donor -- Assessment, Monitoring, and Management of the Brain-Dead Potential Organ Donor -- Assessment, Monitoring and Management of Brain-Dead Potential Organ Donors in Europe -- Current Management of Brain Dead Donors in Australia -- Management of the Brain-Dead Organ Donor—Perspectives of the Transplant Coordinator.-Surgical Aspects of Thoracic and Abdominal Organ Procurement from Brain-Dead Donors -- Impact of Brain Death on Storage of the Heart -- Impact of Brain Death on Abdominal Organs and Allograft Preservation Strategies -- Functional Repair of Brain Death-Induced Injury.-Functional Repair of Brain-Death-Injured Donor Lungs -- Thyroid Hormone Therapy to the Recipient of a Heart from a Brain-Dead Donor -- Current and Potential Future Trends in the Management of the Brain-Dead Organ Donor.-Maximizing Utilization of the Potential Deceased Donor—The Challenge Continues.

Sommario/riassunto

Addressing all aspects of brain death and thoroughly detailing how a potential organ donor should be maintained to ensure maximum use of the organs and cells, *The Brain-Dead Organ Donor: Pathophysiology and Management* is a landmark addition to the literature. This first-of-its-kind, multidisciplinary volume will be of interest to a large section of the medical community. The first section of the book reviews the historical, medical, legal, and ethical aspects of brain death. That is followed by two chapters on the pathophysiology of brain death as investigated in small and large animal models. This includes a review of the many hormonal changes, including the neuroendocrine-adrenergic 'storm', that takes place during and following the induction of brain death, and how they impact metabolism. The next section of the book reviews various effects of brain death, namely its impact on thyroid function, the inflammatory response that develops, and those relating to innate immunity. The chapters relating to assessment and management of potential organ donors will be of interest to a very large group of transplant surgeons and physicians as well as critical

care and neurocritical care physicians and nurses. Neurologists, endocrinologists, neurosurgeons, and pathologists will also be interested, especially in the more basic science sections on various aspects of brain-death and hormonal therapy. Organ procurement organizations and transplant coordinators worldwide will also be interested in this title. Other chapters will be of interest to medical historians, medico-legal experts, and ethicists. .
