

1. Record Nr.	UNINA9910459286803321
Titolo	Consciousness, awareness, and anesthesia / / edited by George A. Mashour [[electronic resource]]
Pubbl/distr/stampa	Cambridge : , : Cambridge University Press, , 2010
ISBN	1-107-20690-1 0-511-73952-4 1-282-53613-3 9786612536137 0-511-67845-2 0-511-68168-2 0-511-67719-7 0-511-68366-9 0-511-67629-8 0-511-67970-X
Descrizione fisica	1 online resource (x, 262 pages) : digital, PDF file(s)
Collana	Cambridge medicine
Disciplina	617.9/6
Soggetti	Anesthesia Consciousness Awareness
Lingua di pubblicazione	Inglese
Formato	Materiale a stampa
Livello bibliografico	Monografia
Note generali	Title from publisher's bibliographic system (viewed on 05 Oct 2015).
Nota di bibliografia	Includes bibliographical references and index.
Nota di contenuto	Relevance of sleep neurobiology for cognitive neuroscience and anesthesiology / Giancarlo Vanini, Helen A. Baghdoyan, and Ralph Lydic -- The neurobiology of consciousness / Christof Koch and Florian Mormann -- Memory formation during general anesthesia / Chantal Kerssens and Michael Alkire -- Dreaming during anesthesia / Kate Leslie -- Etiology and risk factors of intraoperative awareness / Mohammed Ghoneim -- Monitoring anesthetic depth / Gerhard Schneider -- Current controversies in intraoperative awareness I / Paul S. Garcia and Peter Sebel -- Current controversies in intraoperative awareness II / Benjamin J. Palanca, Adam Searleman, and Michael S. Avidan -- Awareness during general anesthesia in the pediatric

population / Andrew J. Davidson and Rachel Hutchens -- Psychological consequences of intraoperative awareness / Claes Lennmarken and Gunilla Sydsjö -- Medicolegal consequences of intraoperative awareness / Karen B. Domino and Christopher D. Kent -- Complaints of awareness after sedation and regional anesthesia : the role of patient expectations / Roy K. Esaki -- Philosophical implications of awareness during general anesthesia / Eric LaRock.

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#### Sommario/riassunto

Hypnosis, amnesia, and immobility are three major therapeutic endpoints of general anesthesia. In one to two cases out of a thousand, hypnosis and amnesia are not achieved - often leaving a patient immobile but capable of experiencing and remembering intraoperative events. Awareness during general anesthesia is one of the most dreaded complications of surgery and is feared by patients and clinicians alike. Despite many advances in the field, there are also a number of unresolved questions that persist. Some of the difficulties in the detection and prevention of awareness during anesthesia relate to the underlying complexities of the neuroscientific basis of consciousness. Consciousness, Awareness, and Anesthesia is a multidisciplinary approach to both the scientific problem of consciousness and the clinical problem of awareness during general anesthesia. An international cadre of authors with expertise in anesthesiology, neurobiology, and philosophy provides a cutting-edge perspective. No other book on the subject has drawn from such a breadth of scholarship.

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