Gestion des risques: Cyberattaques, stress hospitalier

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Systematic review and consensus definitions for anaesthesia-related severe morbidity: The AMORI study.

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Position du problème et objectif(s) de l'étude:

Anaesthesia-related severe morbidity is a marker of quality and safety of care. Several recent studies have attempted to describe and define it with some limitations: overlap with surgical complications, no formal experts' consensus, indicators without consensual definitions and/or not applicable in clinical routine practice. The aim of this study was to provide an operative consensual definition of anaesthesia-related severe morbidity.

Matériel et méthodes:

After conducting a systematic review of studies published in 2010-2021 that investigated anaesthesia-related severe morbidity as a primary outcome, we created a set of indicators with definitions, that was submitted to an international panel of 37 experts. Consensus was reached using a Delphi process. Experts were asked to score each of the listed indicators with definition using a scale graded from 1 to 5. Up to 3 definitions could be proposed for each indicator. Analysis of the percentage of response and comment of the first round was made by the research group. Indicators were modified accordingly for the second round.

Résultats & Discussion:

Overall, 142 studies were included in the systematic review, and 68 criteria of anaesthesia-related severe morbidity were identified (Table 1). After selection, 34 indicators divided into 8 categories (cardiovascular, respiratory, sepsis, renal, neurological, medication error, digestive and others) were submitted to the experts. After 2 Delphi rounds, the 26 indicators with a consensual definition were: acute heart failure, cardiogenic shock, ARDS, pulmonary embolism and thrombosis, bronchospasm or laryngospasm, pneumonia, inhalation pneumonitis, pneumothorax, difficult or impossible intubation, atelectasis, self-extubation or accidental extubation, sepsis or septic shock, transient ischemic attack, postoperative confusion or delirium, post-puncture headache, medication error, liver failure, unplanned ICU admission, multiple-organ failure.

Conclusion:

This study provides a set of indicators with specific definition obtained by experts' consensus, useful in clinical practice and in research.

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Table 1 : Severe anaesthes	ia-related mo	orbidit	y criteri	ia extrac	ted	from the lit	erature	(N= 142 s	tudies).		
Category	Indicators										
Mortality 🗐	Study Period for mortality										
	During hospital stay		D30			3 mon	ths 6 mo		nths 1		year
Total 84 studies (59%)	10 (12%)		49 (58%)			8 (9%	5)	3 (49		3	(4%)
Cardio-vascular	Cardiac Arrest		SVRD			Myocardial infarction	Myocardial Injury		Hypotension		Acute heart failure
			The same			"	"				
Total: 90 studies (63%)	36 (25%)		32 (23%)			51 (36)%	20 (14%)		28 (20%)		25 (18%)
Respiratory	Unplanned reintubation	Bron spa		Hypoxemia		Pneumoniae			ration moniae	Acute respiratory failure	Pulmonary embolism
		3	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1				28			<u>Q</u>	
Total: 85 studies (60%)	23 (16%)	13 (9%) 15 (11%)	47 (33%)	18 (12%	6) 17 ((12%)	30 (21%)	22 (16%)
Neurological	Stroke		Transient cerebrovascular accident			Coma	Delirium		Cognitive disorder		Neurologic al deficit
						Ť					J. B.
Total: 74 studies (52%)	50 (35%) 7 (5%)					6 (4%)	22 (16%)	15 (11%) 7 (5%)		
Renal	Acute Renal Failure						Dialysis				
Total : 49 studies (35%)	45 (32%)						12 (9%)				
Infectious	S	ock	ck Abs			scess			SIRS		
*						لے			**		
Total: 33 studies (23%)	23 (16%)					20 (20 (14%) 6 (4%)				
Characteristics of hospital admission	Intensive care admission						Extension of length of stay				
							o → ⊞				
Total : 49 studies (35%)	39 (28%)						34 (24%)				
Surgical complications involving anaesthesia	Bleeding O						Revision Surgery				
Total : 25 studies (18%)	17 (12%)						15 (11%)				

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