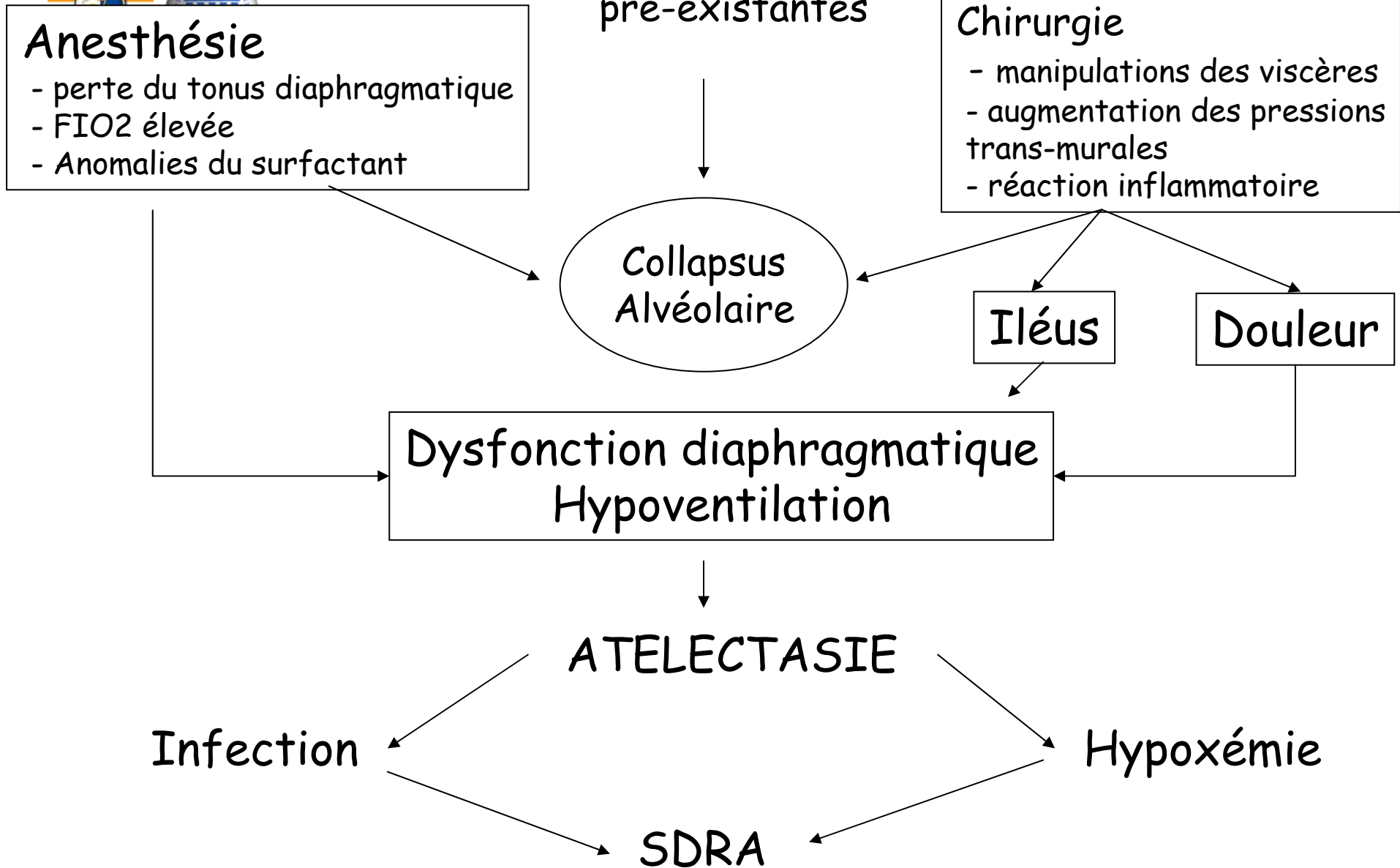




Prévention des complications respiratoires en chirurgie thoraco-abdominale: le point de vue de l'anesthésiste.

D. Blayac, DAR SUD, Marseille

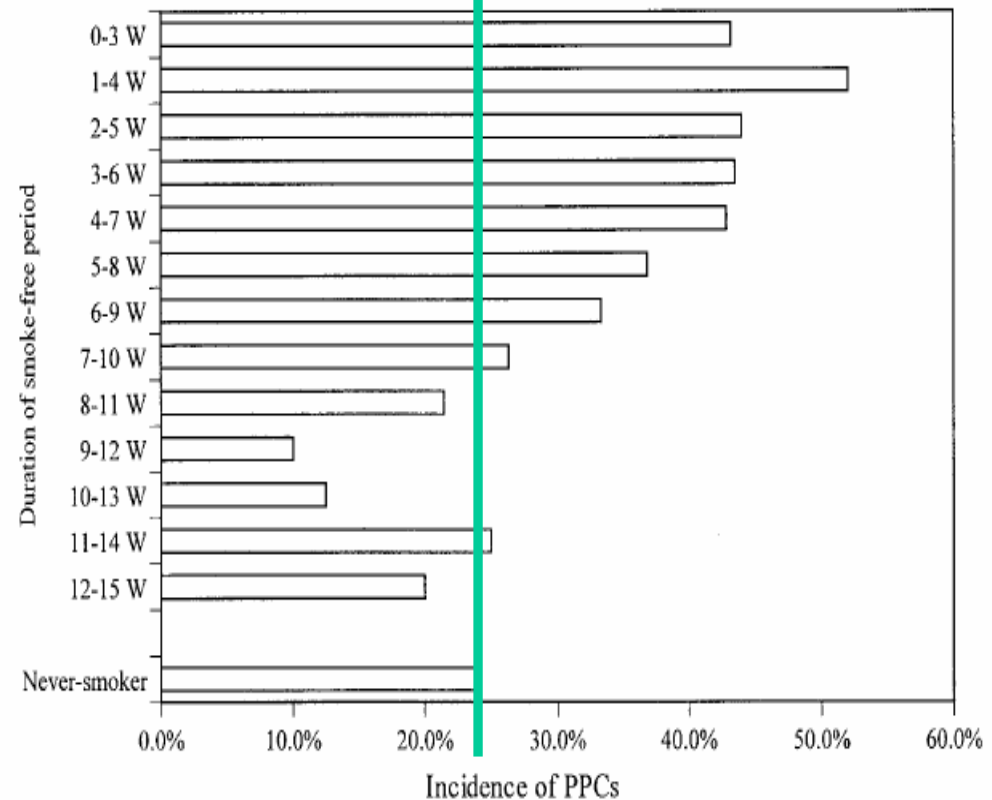
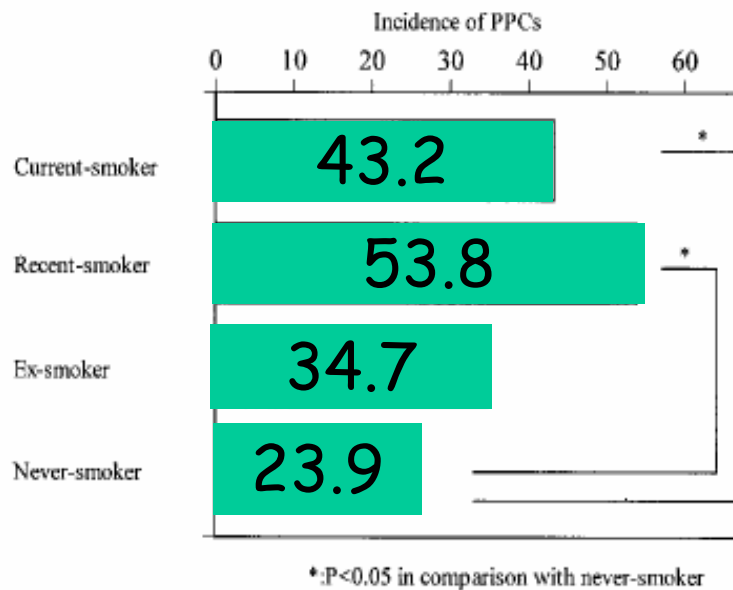
Pathologies pulmonaires pré-existantes

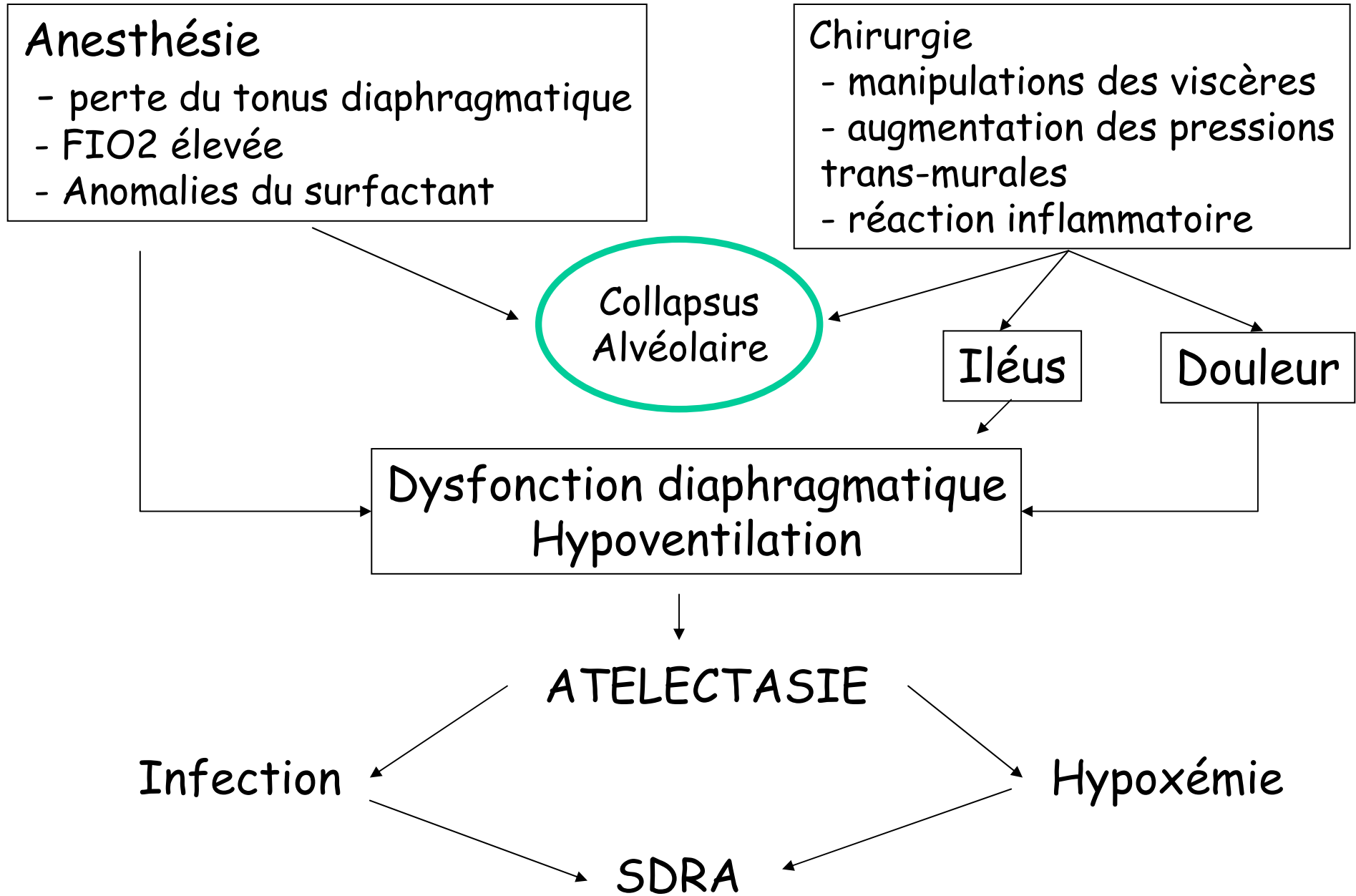


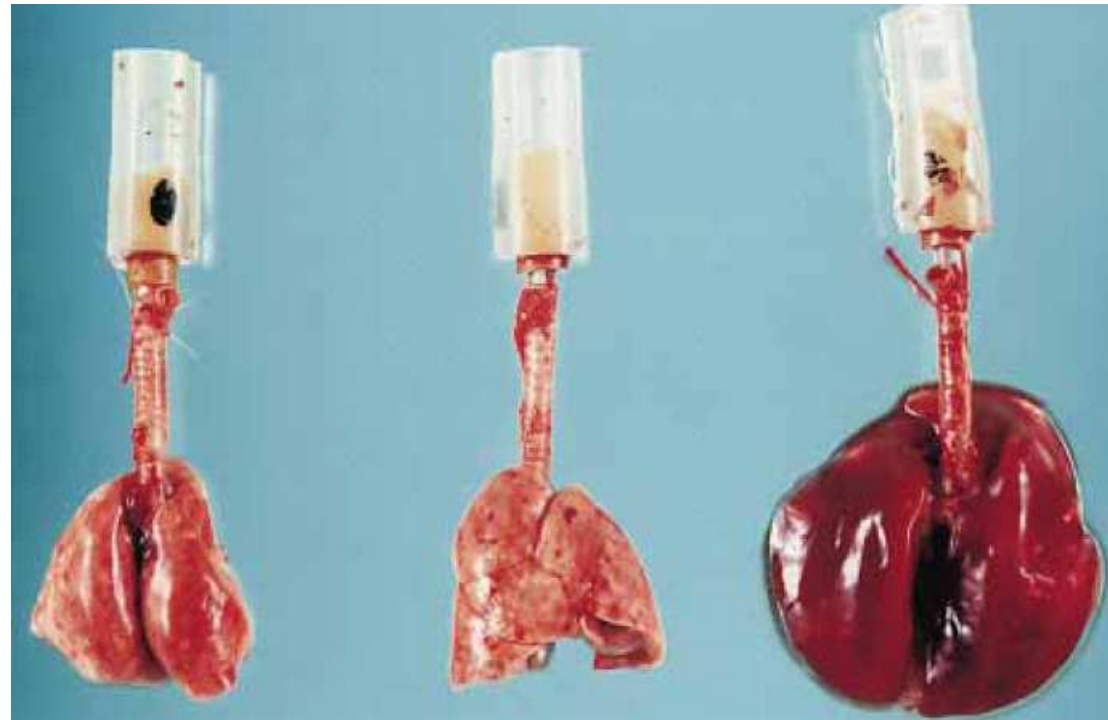
Relationship Between the Duration of the Preoperative Smoke-Free Period and the Incidence of Postoperative Pulmonary Complications After Pulmonary Surgery

Masashi Nakagawa, Hideo Tanaka, Hideaki Tsukuma and Yoshihiko Kishi

Chest 2001;120;705-710

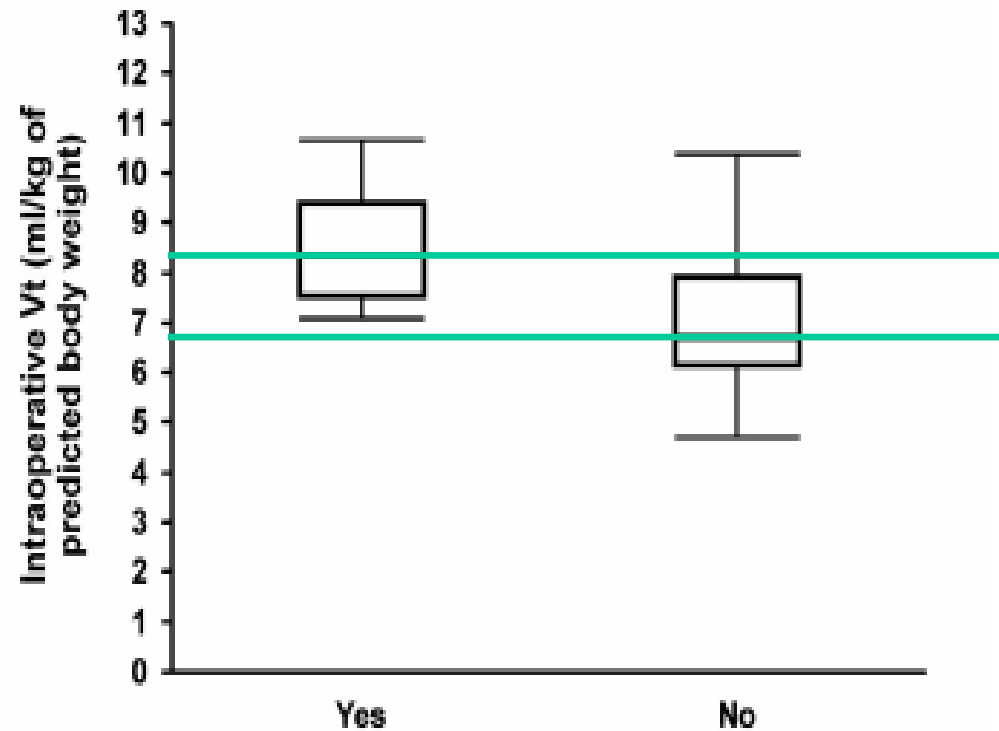






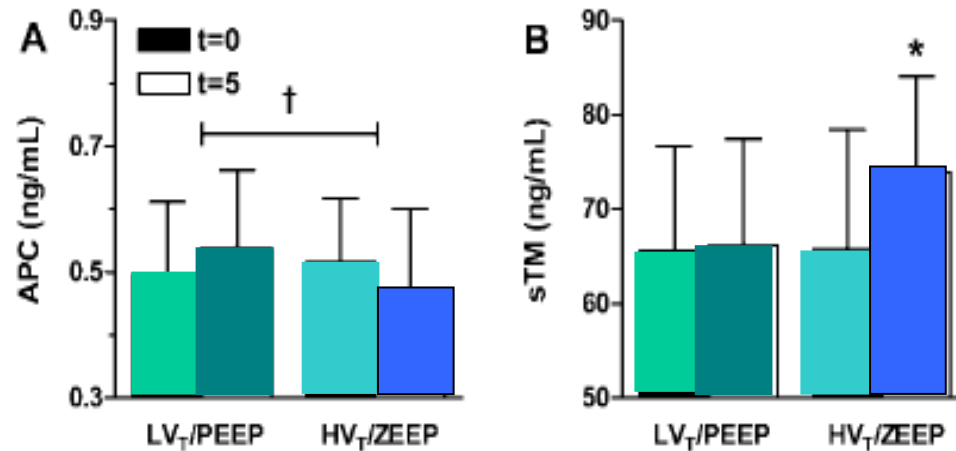
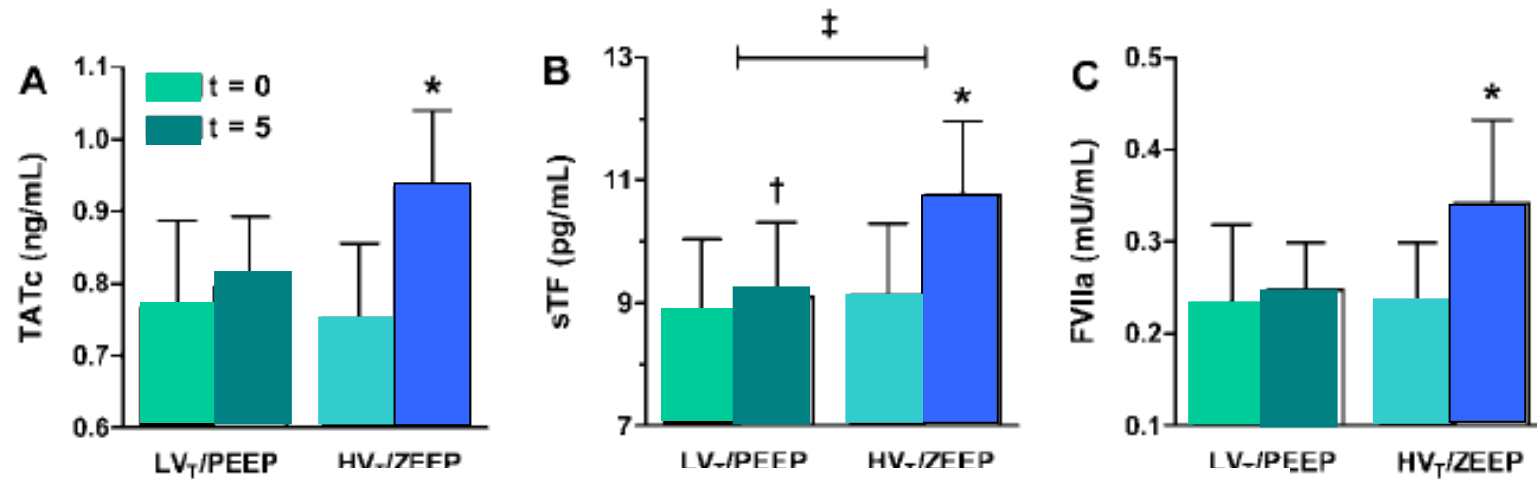
Intraoperative Tidal Volume as a Risk Factor for Respiratory Failure after Pneumonectomy

Evans R. Fernández-Pérez, M.D.,* Mark T. Keegan, M.B.M.R.C.P.I.,† Daniel R. Brown, M.D., Ph.D.,†
Rolf D. Hubmayr, M.D.,‡ Ognjen Gajic, M.D., M.Sc.§



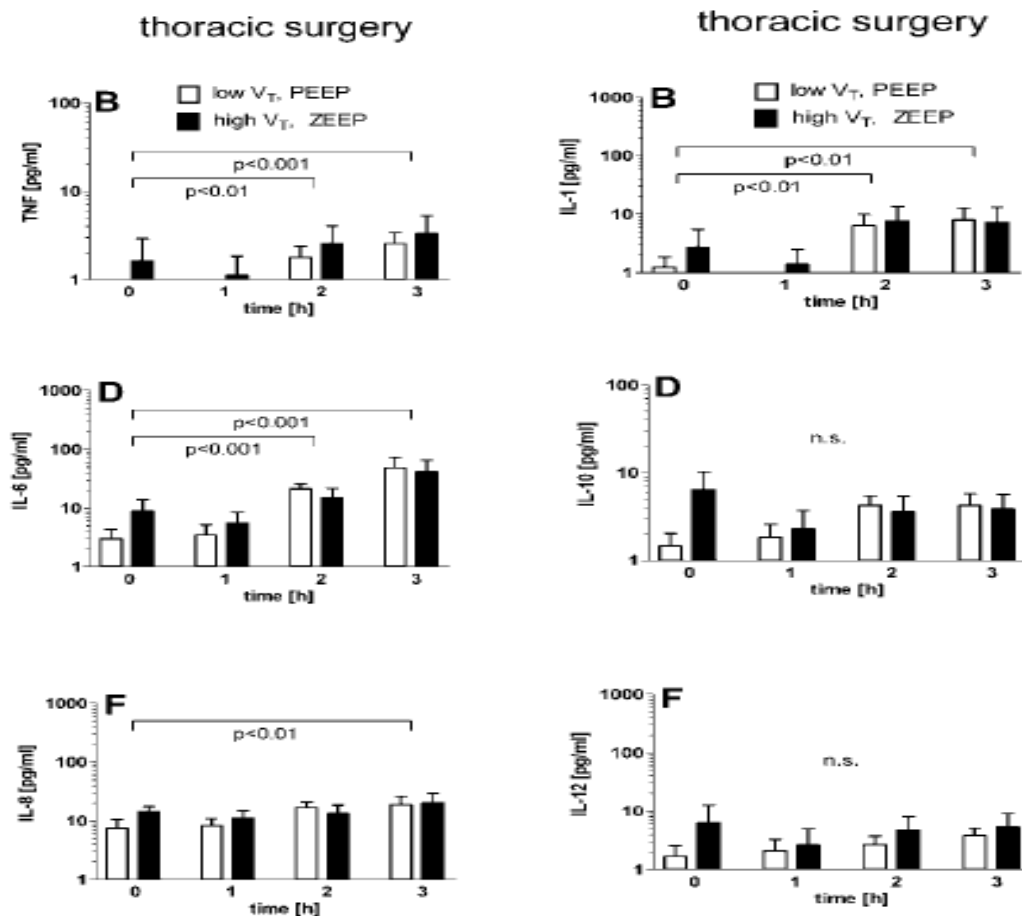
Mechanical Ventilation with Lower Tidal Volumes and Positive End-expiratory Pressure Prevents Alveolar Coagulation in Patients without Lung Injury

Goda Choi, M.D.,* Esther K. Wolthuis, M.D.,† Paul Bresser, M.D., Ph.D.,‡ Marcel Levi, M.D., Ph.D.,§ Tom van der Poll, M.D., Ph.D.,|| Misa Dzoljic, M.D., Ph.D.,# Margreeth B. Vroom, M.D., Ph.D.,** Marcus J. Schultz, M.D., Ph.D.††



The Effects of Different Ventilatory Settings on Pulmonary and Systemic Inflammatory Responses During Major Surgery

Hermann Wrigge, MD*, Ulrike Uhlig, MSc, PhD†, Jörg Zinserling, MSc*, Elisabeth Behrends-Callsen*, Gunther Ottersbach*, Matthias Fischer, MD, PhD*, Stefan Uhlig, MSc, PhD†, and Christian Putensen, MD, PhD*

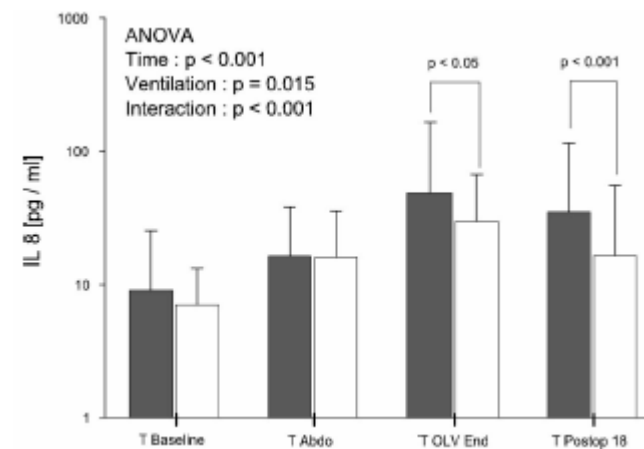
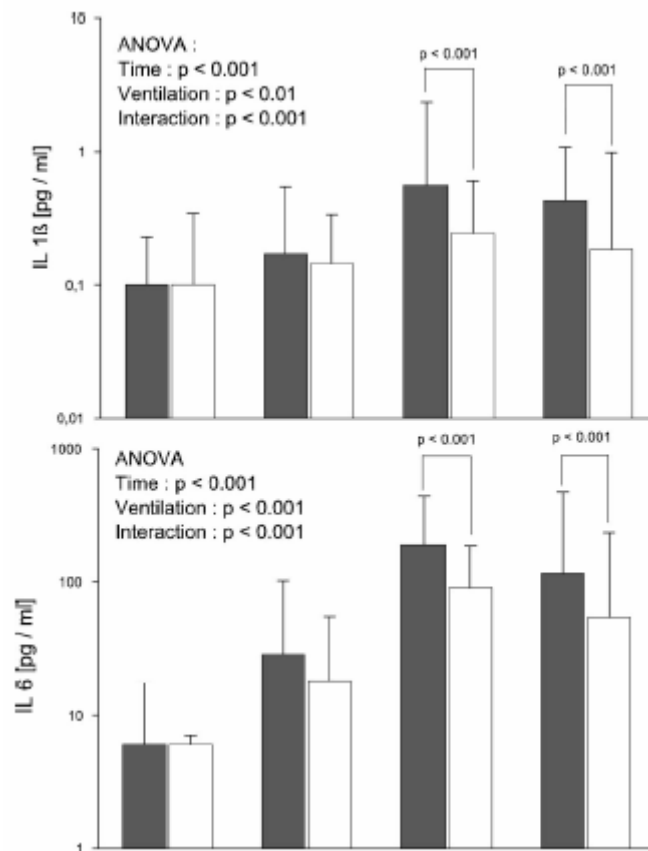


AA 2004;98:775-81

Protective Ventilation Influences Systemic Inflammation after Esophagectomy

A Randomized Controlled Study

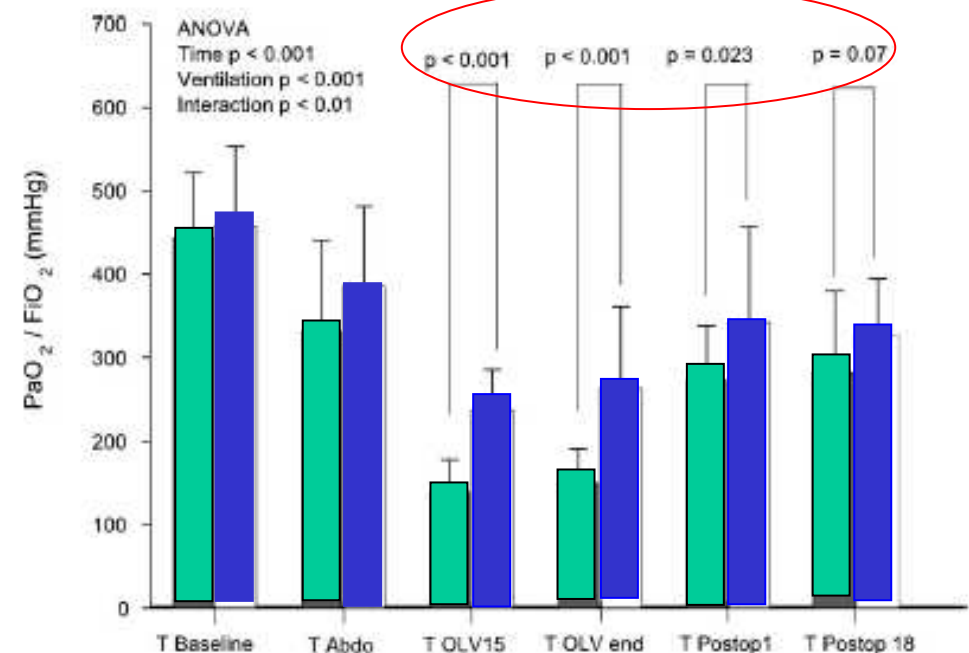
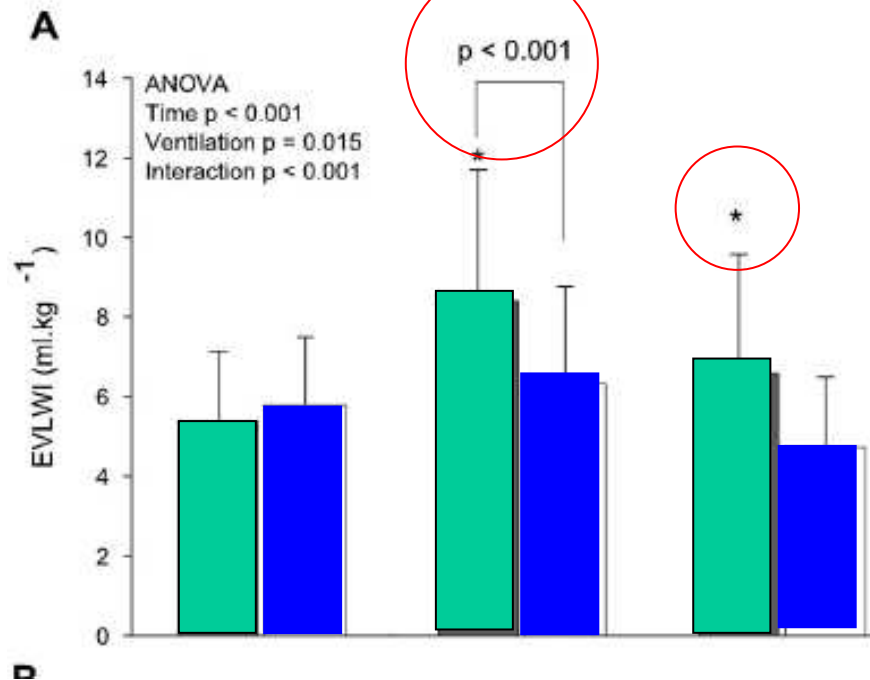
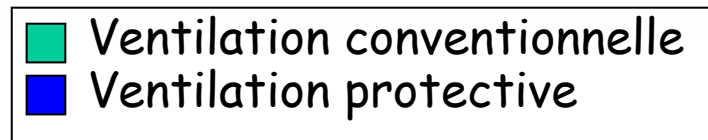
Pierre Michelet, M.D.,* Xavier-Benoît D'Journo, M.D.,† Antoine Roch, M.D., Ph.D.,‡ Christophe Doddoli, M.D.,§ Valerie Marin, M.D.,|| Laurent Papazian, M.D., Ph.D.,# Isabelle Decamps, M.D.,* Fabienne Bregeon, M.D., Ph.D.,** Pascal Thomas, M.D.,†† Jean-Pierre Auffray, M.D.‡‡



Protective Ventilation Influences Systemic Inflammation after Esophagectomy

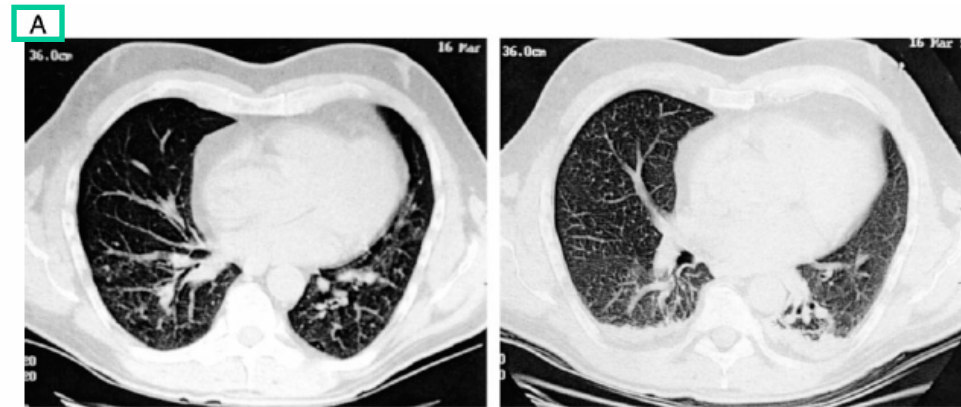
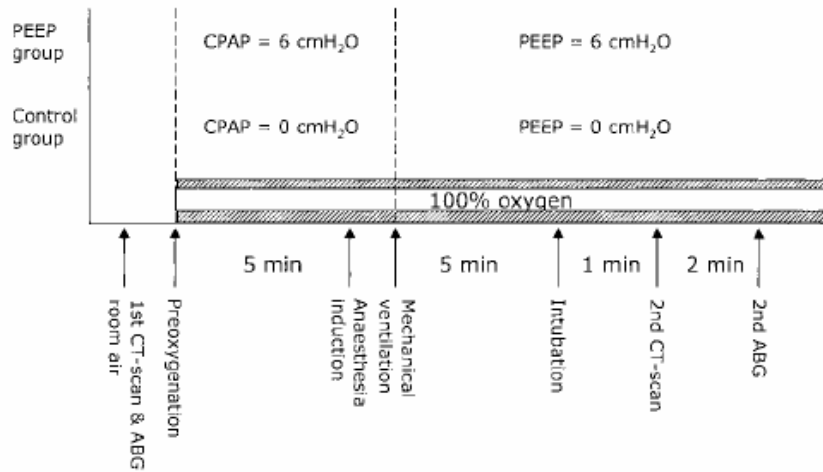
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Pierre Michelet, M.D.,* Xavier-Benoît D'Journo, M.D.,† Antoine Roch, M.D., Ph.D.,‡ Christophe Doddoli, M.D.,§ Valerie Marin, M.D.,|| Laurent Papazian, M.D., Ph.D.,# Isabelle Decamps, M.D.,* Fabienne Bregeon, M.D., Ph.D.,** Pascal Thomas, M.D.,†† Jean-Pierre Auffray, M.D.‡‡



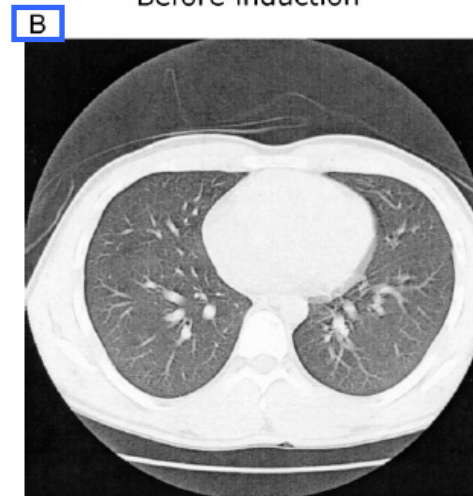
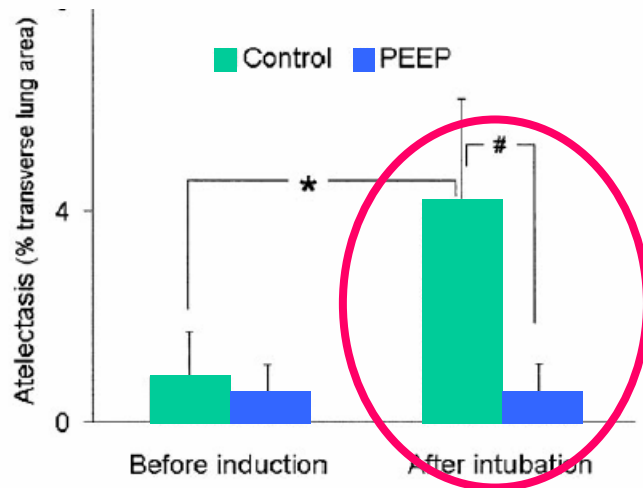
Prevention of Atelectasis Formation During Induction of General Anesthesia

Marco Rusca, MD*, Stefania Proietti, MD†, Pierre Schnyder, MD†, Philippe Frascarolo, PhD*,
Göran Hedenstierna, MD, PhD‡, Donat R. Spahn, MD*, and Lennart Magnusson, MD, PhD*



Before induction

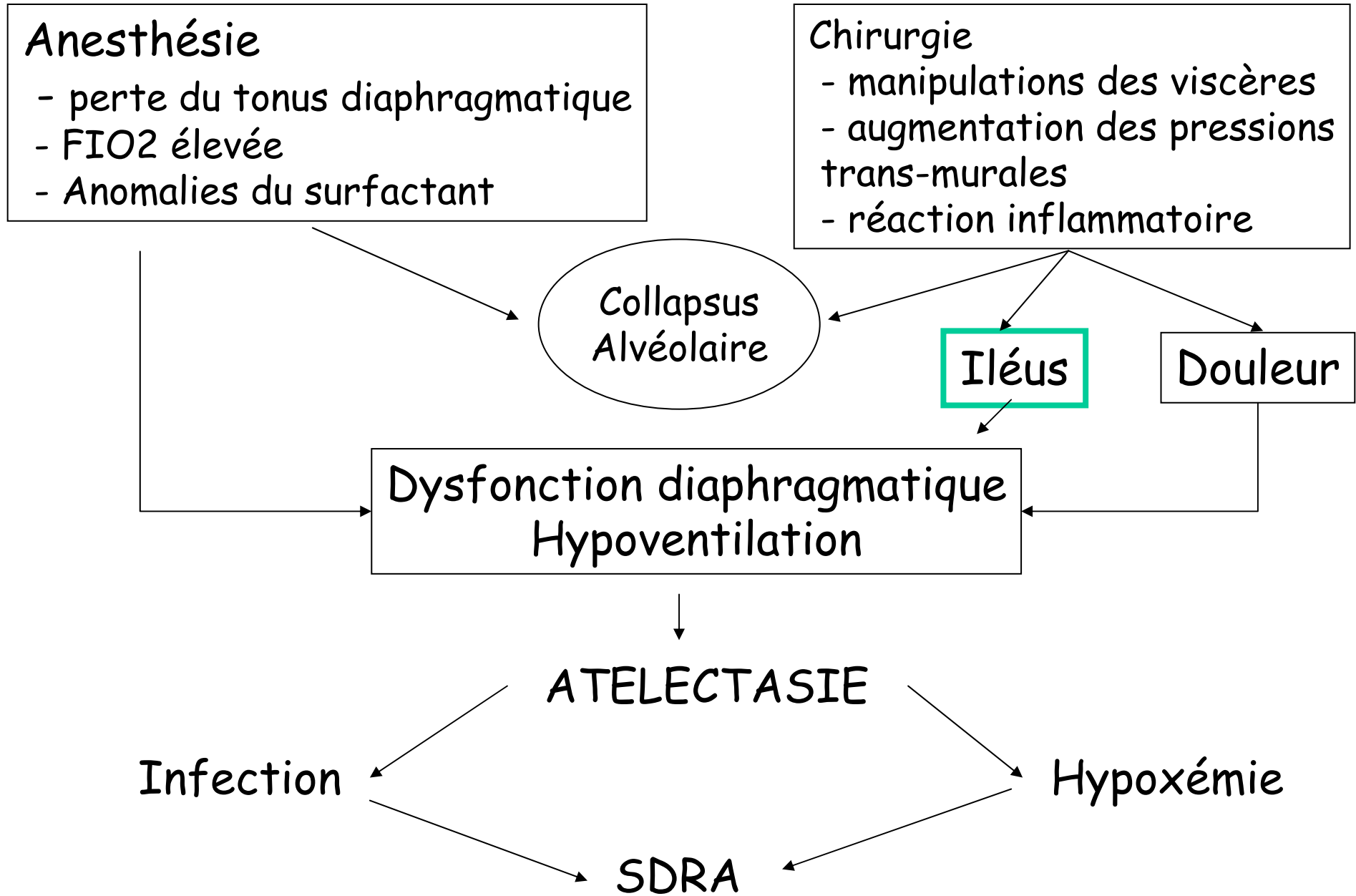
After intubation



Before induction

After intubation

Anesth Analg 2003;97:1835-9



Effect of Intraoperative Fluid Management on Outcome after Intraabdominal Surgery

Vadim Nisanevich, M.D.,* Itamar Falaenstain, M.D.,† Gidon Almogy, M.D.,† Charles Weissman, M.D.,‡
Sharon Einev, M.D.,§ Idit Matot, M.D.||

Complications	Liberal Protocol Group (n = 75)	Restrictive Protocol Group (n = 77)
Infectious		
Wound dehiscence/infection	11	7
Peritonitis/anastomotic leak/ intraabdominal abscess	3	2
Pneumonia	5	3
Urinary tract infection	2	3
Sepsis	1	0
Cardiovascular		
Myocardial infarction	1	1
Congestive heart failure/pulmonary edema	2	0
Arrhythmias (need to start new treatment)	3	1
Cerebrovascular accident	0	0
Gastrointestinal		
Bleeding	0	0
Bowel obstruction	2	0
Pulmonary		
Acute respiratory distress syndrome	2	0
Pulmonary emboli	0	0
Renal		
Renal dysfunction	0	0
Death		
Death	0	0
Total number of complications	32	17
Total number of patients with complications	23	13*

* $P < 0.05$ vs. liberal protocol group.

Reprise de transit

- 4 (3-7) jours dans le groupe LPG
 - 3 (2-7) jours dans le groupe RPG
- $p = 0,01$

Effects of Intravenous Fluid Restriction on Postoperative Complications: Comparison of Two Perioperative Fluid Regimens

A Randomized Assessor-Blinded Multicenter Trial

Brandstrup et al

Annals of Surgery • Volume 238, Number 5, November 2003

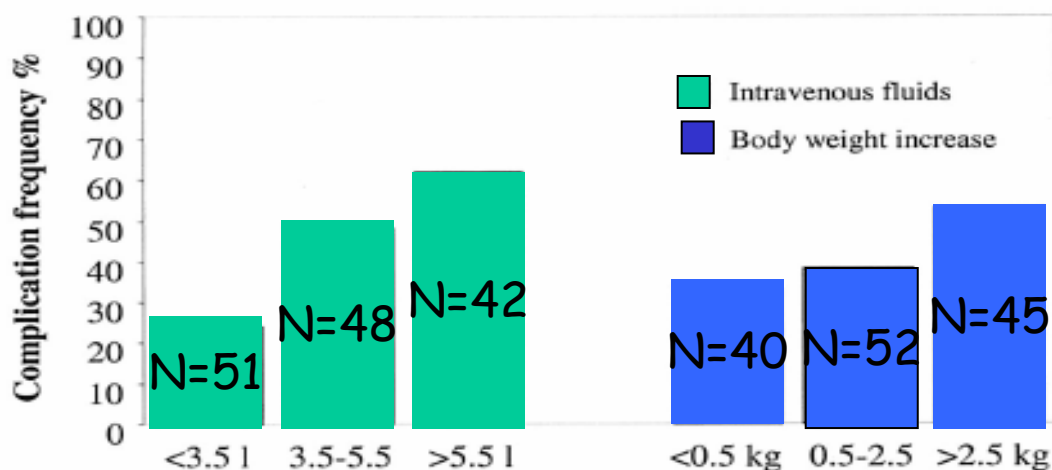


TABLE 3. Number of Patients With Complications (Per-Protocol Analysis)

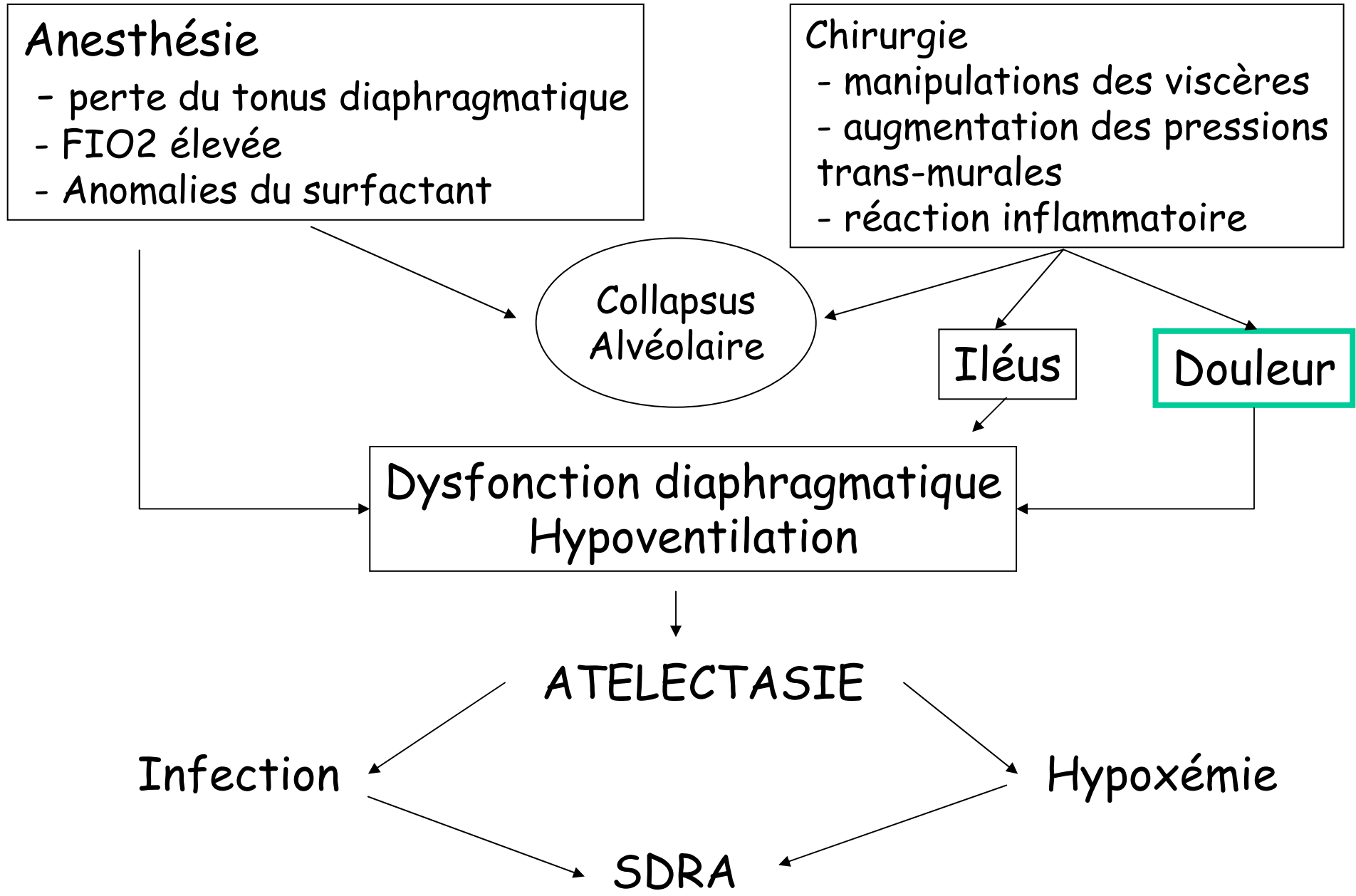
	Blinded Assessment			Unblinded Assessment		
	Restricted Group	Standard Group	P value	Restricted Group	Standard Group	P value
Overall complications	21	40	0.003	21	43	0.000
Major complications [†]	8	18	0.040	8	19	0.026
Minor complications [†]	15	36	0.000	15	37	0.000
Tissue-healing complications [†]	11	22	0.010	10	24	0.009
Cardiopulmonary complications [†]	5	17	0.007	4	18	0.002

n = 69 in restricted group and n = 72 in standard group

[†]Number of patients in subgroups does not add up to number of overall complications because some patients had more than 1 complication.

Réduction de l'iléus post-opératoire

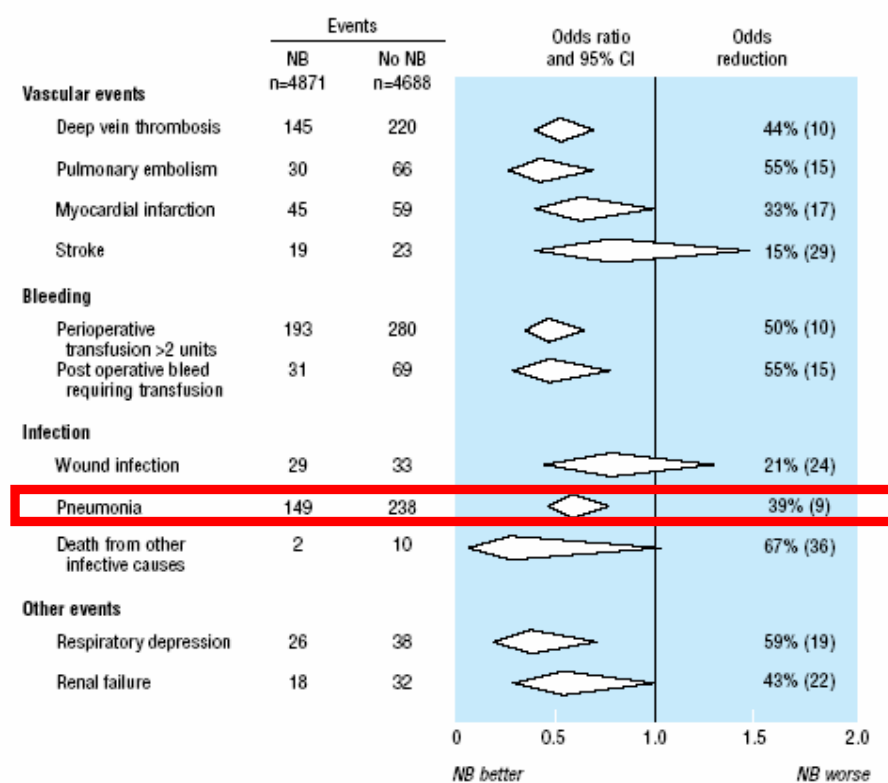
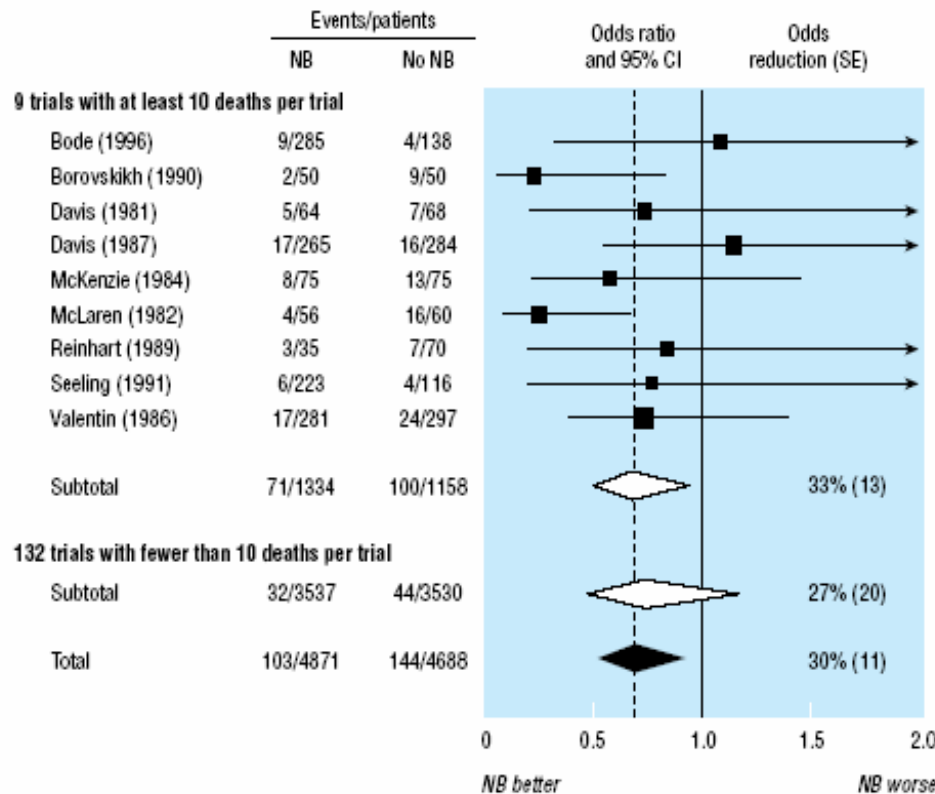
- Réalimentation précoce
 - Balg MK. Dis Colon Rectum 2004;47:516-26
- Utilisation raisonnée de SNG
 - Cheatmann et al. Ann Surg 1295;221:469-76
- Pro-kinétiques
 - Lidocaïne
 - Kaba et al. Anesthesiology 2007;106(1):11-18
- Épargne morphinique



Reduction of postoperative mortality and morbidity with epidural or spinal anaesthesia: results from overview of randomised trials

Anthony Rodgers, Natalie Walker, S Schug, A McKee, H Kehlet, A van Zundert, D Sage, M Futter, G Saville, T Clark and S MacMahon

BMJ 2000;321:1493-

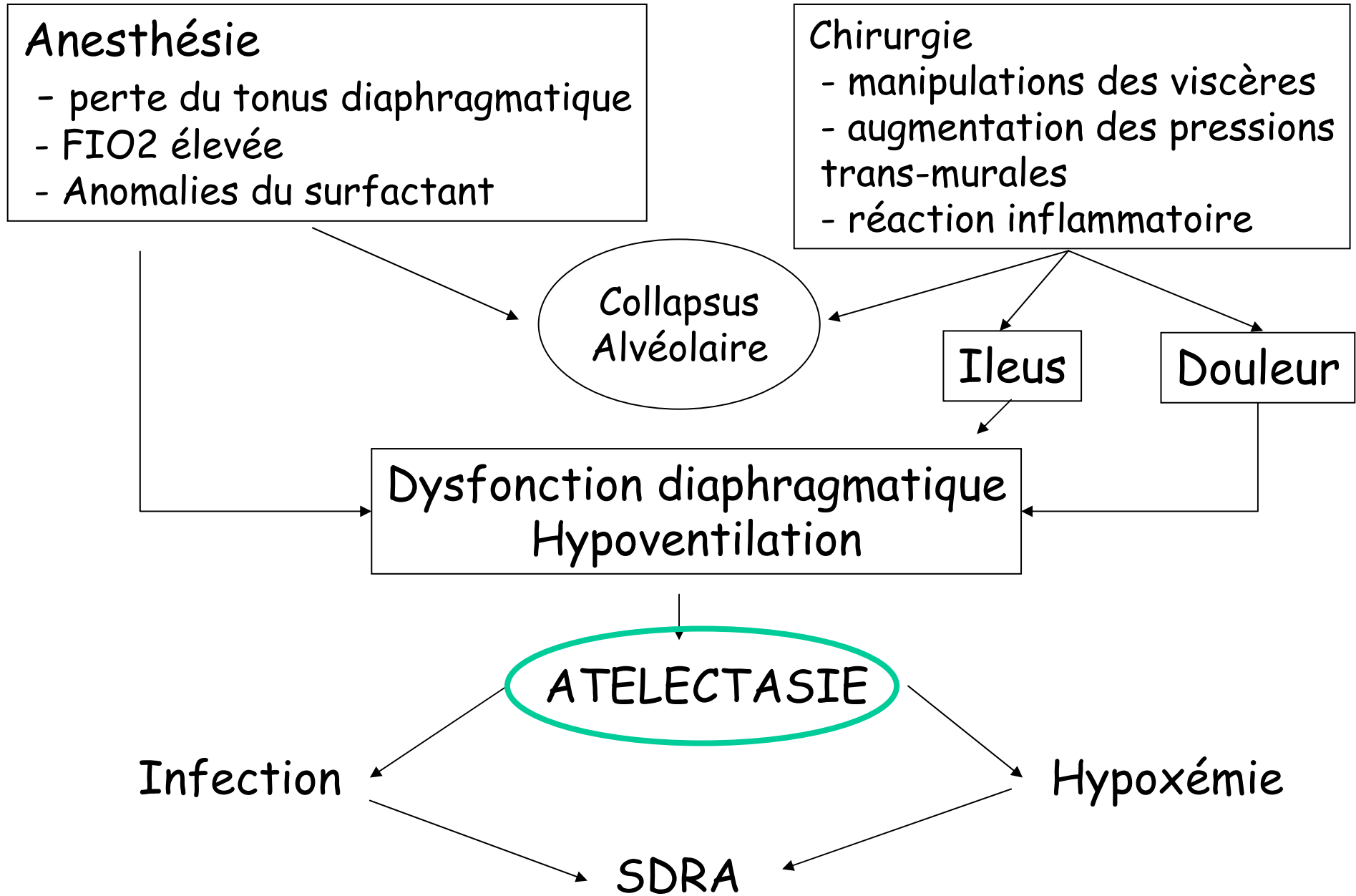


Thoracic Epidural Anesthesia

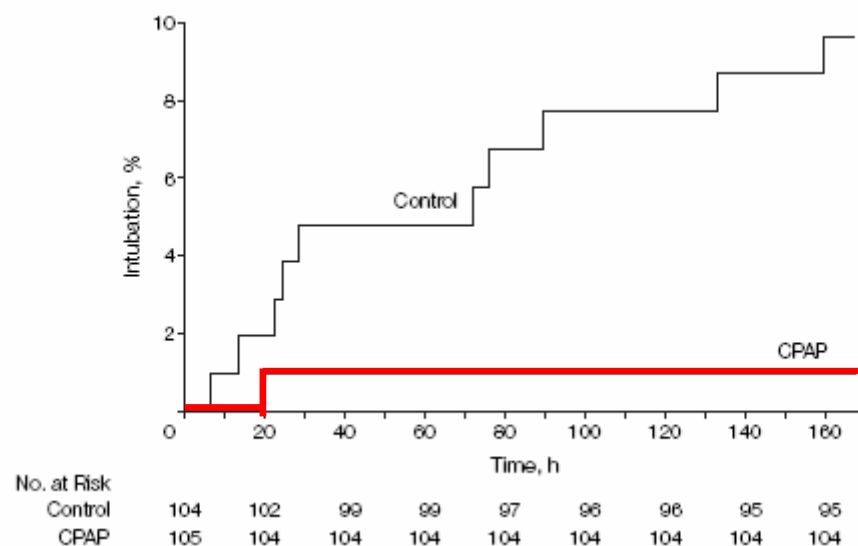
More than Just Anesthesia/Analgesia

Andreas W. Sielenkämper, M.D.* Hugo Van Aken, M.D.

- Atténuation de la réponse inflammatoire post-chirurgie.
- Amélioration de la vascularisation des sutures digestives
- Protection myocardique...



Continuous Positive Airway Pressure for Treatment of Postoperative Hypoxemia A Randomized Controlled Trial



Squadrone et al JAMA 2005

	Control (n = 104)	CPAP (n = 105)	Difference of Means (95% CI)	P Value*
ICU length of stay, mean, d	2.6	1.4	-1.2 (-2.0 to -0.3)	.09
Median (95% CI), d	1 (1-11)	1 (1-4)		
Hospital length of stay, mean (SD), d	17 (15)	15 (13)	-2 (-6 to 2)	.10
Median (95% CI)	12 (7-47)	11 (6-35)		
	Relative Risk (95% CI)			
Pneumonia, No. (%)†	10 (10)	2 (2)	0.19 (0.04 to 0.88)	.02
Infection, No. (%)‡	11 (10)	3 (3)	0.27 (0.07 to 0.94)	.03
Sepsis, No. (%)§	9 (9)	2 (2)	0.22 (0.04 to 0.99)	.03
Anastomotic leakage, No.	6	1		
Pneumonia, No.	3	1		
Deaths, No. (%)	3 (3)	0 (0)		.12



Conclusions

- Complications fréquentes et graves
- Moyens de prévention dont l'efficacité est parfois difficile à mettre en évidence de façon isolée
- Nécessité de protocoles de réhabilitation post-opératoires
- Concept de « fast-track surgery »