

## Question n°6

### Quel est le traitement de la réaction allergique survenant en cours d'anesthésie et en particulier du choc anaphylactique ?

D. Longrois

*Département d'anesthésie-réanimation, CHU Brabois Adultes, 4 rue du Morvan, 54511 Vandœuvre-les-Nancy cedex*

## RÉFÉRENCES

1. Chamberlain D. Emergency medical treatment of anaphylactic reactions. Project Team of the Resuscitation Council (UK). *J Accid Emerg Med* 1999 ; 16:243-7.
2. Whittington T. Anaphylactic and anaphylactoid reactions. *Baillières Clin Anaesthesiol.* 1998;12:301-23.
3. Currie M, Webb RK, Williamson JA, Russell WJ, Mackay P. The Australian incident monitoring study. Clinical anaphylaxis: an analysis of 2000 incident reports. *Anaesth Intensive Care* 1993 ; 21:621-5.
4. Laxenaire MC, et le Groupe d'études des réactions anaphylactoïdes peranesthésiques. Epidémiologie des réactions anaphylactoïdes peranesthésiques. Quatrième enquête multicentrique (juillet 1994-décembre 1996). *Ann Fr Anesth Réanim.* 1999 ;18:796-809.
5. Fisher MM. Clinical observations on the pathophysiology and treatment of anaphylactic cardiovascular collapse. *Anaesth Intensive Care* 1986;14:17-21.
6. Fox AJ, McLaren IM, Naylor AR. Cerebral perfusion monitored using transcranial Doppler during acute anaphylaxis. *Anaesthesia* 1999 ;54:678-82.
7. Robertson CE. Advanced life support guidelines. European resuscitation council. *Br J Anaesth* 1997 ; 79:172-7.
8. Cummins RO, Sanders A, Mancini E, Hazinski MF. In-hospital resuscitation: a statement for healthcare professionals from the American Heart Association Emergency Cardiac Care Committee and the Advanced Cardiac Life Support, Basic Life Support, Pediatric Resuscitation, and Program Administration Subcommittees. *Circulation* 1997 ; 95:2211-2.
9. Kloeck W, Cummins RO, Chamberlain D, Bossaert L, Callanan V, Carli P, et al. Special resuscitation situations: an advisory statement from the International Liaison Committee on Resuscitation. *Circulation* 1997 ; 95:2196-210.
10. Kloeck W, Cummins RO, Chamberlain D, Bossaert L, Callanan V, Carli P, et al. The universal advanced life support algorithm: an advisory statement from the Advanced Life Support Working Group of the International Liaison Committee on Resuscitation. *Circulation* 1997 ; 95:2180-2.
11. Bailey B, McGuigan MA. Management of anaphylactoid reactions to intravenous N-acetylcysteine. *Ann Emerg Med* 1998 ;31:710-5.

12. Laxenaire MC, Moneret-Vautrin DA, Guéant JL. Réactions allergiques au cours de l'anesthésie. In : Sfar, Ed. Conférences d'actualisation. Paris: Elsevier ; 1996. p. 229-44.
13. James JM. Anaphylaxis: multiple etiologies-focused therapy. *J Ark Med Soc* 1996 ; 93:281-7.
14. Settipane GA. Anaphylactic deaths in asthmatic patients. *Allergy Proc* 1989 ; 10:271-4.
15. Brown AF. Therapeutic controversies in the management of acute anaphylaxis. *J Accid Emerg Med* 1998 ; 15:89-95.
16. Fisher M. Treatment of acute anaphylaxis [see comments] [published erratum appears in *BMJ* 1995 Oct 7;311(7010):937]. *Br Med J* 1995 ; 311:731-3.
17. Fugner A. Inhibition of antigen-induced histamine release by beta-adrenergic stimulants in vivo. *Int Arch Allergy Appl Immunol* 1977; 54:78-87.
18. Simons FE, Roberts JR, Gu X, Simons KJ. Epinephrine absorption in children with a history of anaphylaxis. *J Allergy Clin Immunol* 1998 ; 101:33-7.
19. Becker DE. Management of immediate allergic reactions. *Dent Clin North Am* 1995 ; 39:577-86.
20. Gueugniaud PY, Mols P, Goldstein P, Pham E, Dubien PY, Deweerdt C, et al. A comparison of repeated high doses and repeated standard doses of epinephrine for cardiac arrest outside the hospital. European Epinephrine Study Group [see comments]. *N Engl J Med* 1998 ; 339:1595-601.
21. Slater RM, Bowles BJ, Pumphrey RS. Anaphylactoid reaction to oxytocin in pregnancy. *Anaesthesia* 1985;40:655-6.
22. Konno R, Nagase S. Anaphylactic reaction to cefazolin in pregnancy. *J Obstet Gynaecol* 1995 ;21:577-9.
23. Maycock EJ, Russell WC. Anaphylactoid reaction to Syntocinon. *Anaesth Intensive Care* 1993 ; 21:211-2.
24. Schierhout G, Roberts I. Fluid resuscitation with colloid or crystalloid solutions in critically ill patients: a systematic review of randomised trials. *Br Med J* 1998 ; 316:961-4.
25. Haupt MT, Kaufman BS, Carlson RW. Fluid resuscitation in patients with increased vascular permeability. *Crit Care Clin* 1992 ; 8:341-53.
26. Bickell WH, Dice WH. Military antishock trousers in a patient with adrenergic-resistant anaphylaxis. *Ann Emerg Med* 1984 ; 13:189-90.
27. Granata AV, Halickman JF, Borak J. Utility of military anti-shock trousers (MAST) in anaphylactic shock—a case report. *J Emerg Med* 1985 ; 2:349-51.
28. Jacobs RL, Rake GW, Fournier DC, Chilton RJ, Culver WG, Beckmann CH. Potentiated anaphylaxis in patients with drug-induced beta-adrenergic blockade. *J Allergy Clin Immunol* 1981 ; 68:125-7.

29. Compton J. Use of glucagon in intractable allergic reactions and as an alternative to epinephrine: an interesting case review. *J Emerg Nurs* 1997 ; 23:45-7.
30. Lee ML. Glucagon in anaphylaxis [letter]. *J Allergy Clin Immunol* 1982 ; 69:331-2.
31. Zaloga GP, DeLacey W, Holmboe E, Chernow B. Glucagon reversal of hypotension in a case of anaphylactoid shock. *Ann Intern Med* 1986 ; 105:65-6.
32. McKinnon RP, Sinclair CJ. Angiotensinamide in the treatment of probable anaphylaxis to succinylated gelatin (Gelofusine). *Anaesthesia* 1994 ; 49:309-11.
33. Levy JH. Anaphylactic emergencies. *Semin Anesth* 1998 ; 17:93-8.
34. Kohno S, Nakao S, Ogawa K, Yamamura H, Nabe T, Ohata K. Possible participation of histamine H<sub>3</sub>-receptors in the regulation of anaphylactic histamine release from isolated rat peritoneal mast cells. *Jpn J Pharmacol* 1994 ; 66:173-80.
35. De Soto H, Turk P. Cimetidine in anaphylactic shock refractory to standard therapy [letter] [see comments]. *Anesth Analg* 1989 ; 69:264-5.
36. Mayumi H, Kimura S, Asano M, Shimokawa T, Au-Yong TF, Yayama T. Intravenous cimetidine as an effective treatment for systemic anaphylaxis and acute allergic skin reactions. *Ann Allergy* 1987 ; 58:447-50.
37. Yarbrough JA, Moffitt JE, Brown DA, Stafford CT. Cimetidine in the treatment of refractory anaphylaxis. *Ann Allergy* 1989 ; 63:235-8.
38. Greenberger PA, Patterson R, Tapio CM. Prophylaxis against repeated radiocontrast media reactions in 857 cases. Adverse experience with cimetidine and safety of beta-adrenergic antagonists. *Arch Intern Med* 1985 ;145:2197-200.
39. Knapp AB, Grimshaw RSJ, Goldfarb JP, Farkas PS, Rubin M, Rosenstreich DL. Cimetidine-induced anaphylaxis. *Ann Intern Med* 1982 ; 97:374-5.
40. Runge JW, Martinez JC, Caravati EM, Williamson SG, Hartsell SC. Histamine antagonists in the treatment of acute allergic reactions. *Ann Emerg Med* 1982 ; 21:237-42.
41. Zull DN. Preventing fatalities from anaphylaxis: an emergency medicine physician's perspective [editorial]. *Allergy Proc* 1995 ; 16:113-4.
42. Sandhu BS, Requena R. Cimetidine and hypersensitivity [letter]. *Ann Intern Med* 1983 ; 98:111
43. Whalen JP. Hypersensitivity to cimetidine. *J Clin Pharmacol* 1985 ; 25:610
44. Fulcher DA, Katelaris CH. Anaphylactoid reaction to intravenous hydrocortisone sodium succinate: a case report and literature review [see comments]. *Med J Aust* 1991 ; 154:210-4.
45. Hopper JM, Carter SR. Anaphylaxis after intra-articular injection of bupivacaine and methylprednisolone. *J Bone Joint Surg Br* 1993 ; 75:505-6.
46. Polosa R, Cacciola R, Pacino G, Prosperini G. Anaphylactic reaction to oral prednisone: a case report and review of the literature. *Ann Ital Med Int* 1998 ; 13:47-52.