

**Quelle est la réalité du risque allergique en anesthésie ? Incidence. Aspects cliniques.  
Morbidity-mortality. Substances responsables.**

M-C. Laxenaire

*Département d'anesthésie-réanimation chirurgicale, hôpital central, CHU, 29 av du Ml de Lattre-de-Tassigny, CO n°34,  
54035 Nancy cedex*

**REFERENCES**

1. Clarke RSJ, Dundee JW, Garrett RT, McArdle GV, Sutton JA. A survey of 100 reports. Adverse reactions to intravenous anaesthetics. *Br J Anaesth* 1975;47:575-85.
2. Fisher MM, More DG. The epidemiology and clinical features of anaphylactic reactions in anaesthesia. *Anaesth Intensive Care* 1981;9:226-34.
3. Sage D. Intradermal drug testing following anaphylactoid reactions during anaesthesia. *Anaesth Intensive Care* 1981;9:381-6
4. Laxenaire MC, Moneret-Vautrin DA, Boileau S, Moeller R. Adverse reactions to intravenous agents in anaesthesia. *Klin Wochenschr* 1982;60:1006-9.
5. Hatton F, Tiret L, Maujol L, N'Doye P, Vourc'h G, Desmonts JM et al. Enquête épidémiologique sur les anesthésies. *Ann Fr Anesth Réanim* 1983;2:333-85.
6. Charpin J, Vervloet D. Les chocs anaphylactiques de l'anesthésie générale : à propos de 41 accidents aigus dus aux myorelaxants. *Bull Acad Med (Paris)* 1983;167:285-90.
7. Youngman PR, Taylor KM, Wilson JD. Anaphylactoid reactions to neuromuscular blocking agents: a commonly undiagnosed condition? *Lancet* 1983;10:597-9.
8. Leynadier F, Luce H, Dry J. Les accidents de type anaphylactoïde au cours de l'anesthésie générale. A propos de 55 cas. *Sem Hôp (Paris)* 1984;60:1029-33.
9. Galletly DC, Treuren BC. Anaphylactoid reactions during anaesthesia. Seven year's experience of intradermal testing. *Anaesthesia* 1985;40:329-33.
10. Watkins J. Adverse anaesthetic reactions. An update from a proposed national reporting and advisory service. *Anaesthesia* 1985;40:797-800.
11. Watkins J. Second report from an anaesthetic reactions advisory service. *Anaesthesia* 1989;44:157-9.
12. Assem ESK. Anaphylactic anaesthetic reactions. The value of paper radioallergosorbent tests for IgE antibodies to muscle relaxants and thiopentone. *Anaesthesia* 1990;45:1032-8.
13. Moscicki R, Sockin S, Corsello BF, Ostro MG, Bloch KJ. Anaphylaxis during induction of general anesthesia: subsequent evaluation and management. *J Allergy Clin Immunol* 1990;86:325-32.

14. Laxenaire MC, Moneret-Vautrin DA, Widmer S, Mouton C, Guéant JL. Substances anesthésiques responsables de chocs anaphylactiques. Enquête multicentrique française. *Ann Fr Anesth Réanim* 1990;9:501-6.
15. Mitsuhata H, Hasegawa J, Matsumoto S, Ogawa R. The epidemiology and clinical features of anaphylactic and anaphylactoid reactions in the perioperative period in Japan: a survey with a questionnaire of 529 hospitals approved by Japan Society of Anesthesiology. *Masui* 1992;41:1825-31.
16. Binkley K, Cheema A, Sussman G, Moudgil G, O'Connor M, Evans S et al. Generalized allergic reactions during anesthesia. *J Allergy Clin Immunol* 1992;89:768-74.
17. Murat I. Anaphylactic reactions during paediatric anaesthesia; results of the survey of the French Society of Paediatric Anaesthetists (ADARPEF) 1991-1992. *Paediatr Anaesth* 1993;3:339-43.
18. Currie M, Webb RK, Williamson JA, Russell WJ, Mackay P. Clinical anaphylaxis: an analysis of 2000 incident reports. *Anaesth Intensive Care* 1993;21:621-5.
19. Laxenaire MC. Médicaments et substances responsables des chocs anaphylactiques peranesthésiques. Enquête épidémiologique multicentrique française. *Ann Fr Anesth Réanim* 1993;12:91-6.
20. Clarke RSJ, Watkins J. Drugs responsible for anaphylactoid reactions in anaesthesia in the United Kingdom. *Ann Fr Anesth Réanim* 1993;12:105-8.
21. Pecquet C, Leynadier F. IgE mediated allergy to natural rubber latex in 100 patients. *Clin Rev Allergy* 1993;11:381-4
22. Pepys J, Pepys EO, Baldo BA, Whitwam JG. Anaphylactic/anaphylactoid reactions to anaesthetic and associated agents. Skin prick tests aetiological diagnosis. *Anaesthesia* 1994;49:470-5.
23. Kwittken PL, Sweinberg SK, Campbell DE, Pawlowski NA. Latex hypersensitivity in children: clinical presentation and detection of latex-specific immunoglobulin E. *Pediatrics* 1995;95:693-9.
24. Laxenaire MC et le Groupe d'étude des réactions anaphylactoïdes peranesthésiques. Substances responsables des chocs anaphylactiques peranesthésiques. Troisième enquête multicentrique française (1992-1994). *Ann Fr Anesth Réanim* 1996;15:1211-8.
25. Holzman RS. Clinical management of latex-allergic children. *Anesth Analg* 1997;85:529-33.
26. Tan BB, Lear JT, Watts J, Jones P, English JSC. Perioperative collapse: prevalence of latex allergy in patients sensitive to anaesthetic agents. *Contact Dermatitis* 1997;36:47-50.

27. Dormans JP, Templeton J, Shreiner MS, Delfico AJ. Intraoperative latex anaphylaxis in children: classification and prophylaxis of patients at risk. *J Pediatr Orthop* 1997;17:622-5.
28. Whittington T, Fisher MM. Anaphylactic and anaphylactoid reactions. *Clinical Anaesthesiology*. Bailleres Clin Anaesthesiol 1998;12:301-23.
29. Laxenaire MC et le Groupe d'étude des réactions anaphylactoïdes peranesthésiques. Epidémiologie des réactions anaphylactoïdes peranesthésiques. Quatrième enquête multicentrique (juillet 1994-décembre 1996). *Ann Fr Anesth Réanim* 1999;18:796-809.
30. Thacker MA, Davis FM. Survey. Subsequent general anaesthesia in patients with a history of previous anaphylactoid/anaphylactic reaction to muscle relaxant. *Anaesth Intensive Care* 1999;27:190-3.
31. Rose M, Fisher M. Rocuronium: high risk of anaphylaxis? *Br J Anaesth* 2001;86:678-82.
32. Laxenaire MC, Mertes MP et le Groupe d'étude des réactions anaphylactoïdes peranesthésiques. Anaphylaxis during anaesthesia. Results of a two-year survey in France. *Br J Anaesth* 2001;87:549-58.
33. Laroche D, Bricard H, Laxenaire MC. Consultation d'allergo-anesthésie : pas assez de patients testés après un accident anaphylactoïde peranesthésique. *Ann Fr Anesth Réanim* 1998;18:89-90.
34. Péquignot F, Jouglà E, Laurent F, Clergue F, Laxenaire MC, Auroy Y et al. L'anesthésie en France en 1996. Méthodologie de l'enquête. *Ann Fr Anesth Réanim* 1998;17:1302-10.
35. Laxenaire MC, Auroy Y, Clergue F, Péquignot F, Jouglà E, Lienhart A. Organisation et techniques de l'anesthésie. *Ann Fr Anesth Réanim* 1998;17:1317-23.
36. Turjanmaa K, Reunala T, Tuimala R, Kärkkäinen T. Allergy to latex gloves: unusual complication during delivery. *Br J Anaesth* 1988;297:1029.
37. Gerber AC, Jörg W, Zbinden S, Seger RA, Dangel PH. Severe intraoperative anaphylaxis to surgical gloves: latex allergy, an unfamiliar condition. *Anesthesiology* 1989;71:800-2.
38. Jorrot JC, Mercier F, Pecquet C, Jacquinet P, Conseiller C. Choc anaphylactique peropératoire au latex. *Ann Fr Anesth Réanim* 1989;8:278-9
39. Leynadier F, Pecquet C, Dry J. Anaphylaxis to latex during surgery. *Anaesthesia* 1989;44:547-50.
40. Morales C, Basomba A, Carreira J, Sastre A. Anaphylaxis produced by rubber glove contact. Case reports and immunological identification of the antigens involved. *Clin Exp Allergy* 1989;19:425-30.

41. M'Raihi ML, Charpin D, Pons A, Bongrand P, Vervloet D. Allergénicité croisée entre latex et banane. *Rev Fr Allergol* 1989;29:187-9.
42. Slater JE. Rubber anaphylaxis. *N Engl J Med* 1989;320:1126-30.
43. Zenarola P. Rubber latex allergy: unusual complication during surgery. *Contact Dermatitis* 1989;21:197-8.
44. Mathey C, Gaudiche O, Bavoux F, Saint-Maurice C. Trois accidents anaphylactiques peropératoires latex-oxyde d'éthylène. *Cah Anesthésiol* 1990;38:568-70.
45. Moneret-Vautrin DA, Laxenaire MC, Bavoux F. Allergic shock to latex and ethylene oxide during surgery for spina bifida. *Anesthesiology* 1990;73:556-8.
46. Parat S, Dassieu G, Pecquet C, Houfani B, Brunet D, Le Bourgeois M, et al. Allergie aux gants de latex. *Arch Fr Pediatr* 1990;47:129-30.
47. Sleth JC, Legroux P. Hypersensibilité immédiate au latex. A propos d'un choc anaphylactique peropératoire. *Cah Anesthésiol* 1990;38:571-2.
48. Swartz J, Braude BM, Gilmour RF, Shandling B, Gold M. Intraoperative anaphylaxis to latex. *Can J Anaesth* 1990;37:589-92.
49. Tasset B, Calenda E, Ensel J, Durand JP, Delmon P, Winckler C. Choc anaphylactique peropératoire au latex chez un enfant. *Presse Méd* 1990;19:1681.
50. Calendra E, Durand JP, Petit J, Bawab F, Coquerel A, Ensel J, et al. Anaphylactic shock produced by latex. *Anesth Analg* 1991;72:839-45.
51. Gold M, Swartz S, Braude B, Dolovich J, Shandling B, Gilmour RF. Intraoperative anaphylaxis: an association with latex sensitivity. *J Allergy Clin Immunol* 1991;87:662-6.
52. Nguyen DH, Burns MW, Shapiro GG, Mayo ME, Murrey M, Mitchell ME. Intraoperative cardiovascular collapse secondary to latex allergy. *J Urol* 1991;146:571-4.
53. Sussman GL, Tarlo S, Dolovich J. The spectrum of IgE-mediated responses to latex. *JAMA* 1991 265:2844-7.
54. D'Astous J, Drouin MA, Rhine E. Intraoperative anaphylaxis secondary to allergy to latex in children who have spina bifida. *J Bone Joint Surg* 1992;74:1084-6.
55. Laurent J, Malet R, Smiejan JM, Madelenat P, Herman D. Latex hypersensitivity after natural delivery. *J Allergy Clin Immunol* 1992;89:779-80.
56. Lavaud F, Cossart C, Reiter, Bernard J, Deltour, Holmquist I. Latex allergy in patient with allergy to fruit. *Lancet* 1992;339:492-3.
57. McKinstry LJ, Fenton WJ, Barrett P. Anaesthesia and the patient with latex allergy. *Can J Anaesth* 1992;39:597-9.
58. Meehan PL, Galina MP, Daftari T. Intraoperative anaphylaxis due to allergy to latex. *J Bone Joint Surg* 1992;74:1087-9.

59. Stehna NF, Sockin SM, Holzman RS, Slater JE. Latex anaphylaxis in a child with a history of multiple anesthetic drug allergies. *Anesthesiology* 1992;77:372-5.
60. Mathew SN, Melton LA, Wagner WO. Latex hypersensitivity: a case study. *Ann Allergy* 1993;70:483-6.
61. Opsomer O, Van Boven M, Pendeville P, Veyckemans F. An unusual presentation of latex allergy. *Can J Anaesth* 1993;40:1000-6.
62. Schwartz HA, Zurowski D. Anaphylaxis to latex in intravenous fluids. *J Allergy Clin Immunol* 1993;92:358-9
63. Zucker-Pinchoff B, Chandler MJ. Latex anaphylaxis masquerading as fentanyl anaphylaxis : retraction of a case report. *Anesthesiology* 1993;79:1152-3.
64. Dormans JP, Templeton JJ, Edmonds C, Davidson RS, Drummond DS. Intraoperative anaphylaxis due to exposure to latex (natural rubber) in children. *J Bone Joint Surg* 1994;76:1688-91.
65. Harding L, White JB. Another latex allergy. *Anaesthesia* 1994;49:926.
66. Hodgson CA, Andersen BD. Latex allergy: an unfamiliar cause of intra-operative cardiovascular collapse. *Anaesthesia* 1994;49:507-8.
67. Kelly KJ, Pearson ML, Kurup VP, Havens PL, Byrd RS, Setlock MA, et al. A cluster of anaphylactic reactions in children with spina bifida during general anesthesia. Epidemiologic features, risk factors, and latex hypersensitivity. *J Allergy Clin Immunol* 1994;94:53-61
68. Ballantyne JC, Brown E. Latex anaphylaxis another case, another cause. *Anesth Analg* 1995;81:1303-4.
69. Delorme M, Gall O, Constant I, Murat I. Hypersensibilité au latex : un accident prévisible ? *Cah Anesthésiol* 1995;43:467-70.
70. Gosgnach M, Bourel LM, Ducart A, Barre E, Viars P. Pulmonary artery catheter balloon: an unusual cause of severe anaphylactic reaction. *Anesthesiology* 1995;83:220-1.
71. Spears FD, Littlewood KE. Anaesthesia for the patient with allergy to latex. *Anaesth Intensive Care* 1995;23:623-5
72. Sullivan TJ, Magera BE. Recurrent allergic reactions to latex in a hospitalized pediatric patient. *J Allergy Clin Immunol* 1995;96:423-5.
73. Baykara N, Kati I, Arikan Z. Intraoperative latex anaphylaxis observed in a farmer. *Anesthesiology* 1996;84:476-7.
74. Deusch E, Reider N, Marth C. Anaphylactic reaction to latex during cesarean delivery. *Obstet Gynecol* 1996;88:727.

75. Fisher M. Latex allergy during anaesthesia: cautionary tales. *Anaesth Intensive Care* 1997;25:302-3.
76. Mazon A, Nieto A, Estornell F, Nieto A, Reig C, Garcia-Ibarra F. Factors that influence the presence of symptoms caused by latex allergy in children with spina bifida. *J Allergy Clin Immunol* 1997;99:600-4.
77. Péchinot M. Allergie au latex au décours d'une césarienne. *Ann Fr Anesth Réanim* 1997;16:79-80.
78. Porri F, Pradal M, Lemièrre C, Birnbaum J, Mege JL, Lanteaume A, et al. Association between latex sensitization and repeated latex exposure in children. *Anesthesiology* 1997;86:599-602.
79. Rae SM, Milne MK, Wildsmith JA. Anaphylaxis associated with, but not caused by, extradural bupivacaine. *Br J Anaesth* 1997;78:224-6.
80. Seigne R. Allergies and anaesthesia [letter]. *Br J Anaesth* 1997;78:778.
81. Theissen U, Theissen JL, Mertes N, Brehler R. IgE-mediated hypersensitivity to latex in childhood. *Allergy* 1997;52:665-9.
82. Zestos MM, Creighton R. Latex anaphylaxis during tissue expander insertion in a healthy child. *Can J Anaesth* 1997;44:1275-7.
83. MERIC F, Teitelbaum DH, Geiger JD, Harmon CM, Groner JI. Latex sensitization in general pediatric surgical patients: a call for increased screening of patients. *J Pediatr Surg* 1998;33:1108-12.
84. Ruëff F, Thomas P, Reißig G, Przybilla B. Natural rubber-latex allergy in patients not intensely exposed. *Allergy* 1998;53:445-9.
85. Ayeko MO, Smith NJ. Coexisting allergies to latex and to muscle relaxants in a primigravida. *Hosp Med* 1999;60:311.
86. Patterson LJ, Milne B. Latex anaphylaxis causing heart block: role of ranitidine. *Can J Anesth* 1999;46:776-8.
87. Levy JH, Rockoff MA. Anaphylaxis to meperidine. *Anesth Analg* 1982;61:301-3
88. Moneret-Vautrin DA, Moeller R, Malingrey L, Laxenaire MC. Anaphylactoid reaction to general anaesthesia. A case of intolerance to sodium benzoate. *Anaesth Intensive Care* 1982;10:156-7.
89. Moneret-Vautrin DA, Laxenaire MC, Viry-Babel F. Anaphylaxis caused by anti-cremophor le IgG STS antibodies in a case of reaction to althesin. *Br J Anaesth* 1983;55:469-71
90. Mishima S, Yamamura T. Anaphylactoid reaction to pancuronium. *Anesth Analg* 1984;63:865-6.

91. Cheung J, O'Leary J. Allergic reaction to chlorhexidine in an anaesthetised patient. *Anaesth Intensive Care* 1985;13:429-39.
92. Slater RM, Bowles JM, Pumphrey RSH. Anaphylactoid reaction to oxytocin in pregnancy. *Anaesthesia* 1985;40:655-6.
93. Bennett MJ, Anderson LK, McMillan JC, Ebertz JM, Hanifin JM, Hirshman CA. Anaphylactic reaction during anaesthesia associated with positive intradermal skin test to fentanyl. *Can Anaesth Soc J* 1986;33:75-8.
94. Moneret-Vautrin DA, Widmer S, Laxenaire MC, Maday T. Deux chocs anaphylactiques par sensibilisation probable au solvant du flunitrazépam. *Ann Fr Anesth Réanim* 1986;5:556-7.
95. Porter SS, Goldberg RJ. Intraoperative allergic reactions to hydroxyethyl starch: a report of two cases. *Can Anaesth Soc J* 1986;33:394-8.
96. Schuler TM, Frosch PJ, Arza D, Wahl R. Allergie von Soforttyp. Anaphylaktische Reaktion auf Aprotinin. *Münch Med Wschr* 1987;45:816-7.
97. Patriarca G, Nucera E, Schiavino D, Romano A, Di Rienzo V, Pellegrino S et al. Pancuronium allergy : a case report. *Br J Anaesth* 1989;62:210-2.
98. Zucker-Pinchoff B, Rimanathan S. Anaphylactic reaction to epidural fentanyl. *Anesthesiology* 1989;71:599-601.
99. Borgeat A, Linder S, Schwander D. Réaction anaphylactoïde singulière après chlorure de succinylcholine chez un enfant de 21 mois. *Can J Anaesth* 1990;37: 675-7.
100. Cullen MJ, Singer M. Severe anaphylactoid reaction to hydroxyethyl starch. *Anaesthesia* 1990;45:1040-2.
101. Greer IA. Anaphylactoid reaction to ranitidine in labour. *Br J Clin Pract* 1990;44:78.
102. Moneret-Vautrin DA, Widmer S, Guéant JL, Kamel L, Laxenaire MC, Mouton C, et al. Simultaneous anaphylaxis to thiopentone and a neuromuscular blocker: a study of two cases. *Br J Anaesth* 1990;64:743-5.
103. Sprung J, Schedewie HK, Kampine JP. Intraoperative anaphylactic shock after bacitracin irrigation. *Anesth Analg* 1990;71:430-3.
104. Barry JES, Madan R, Hewitt PB. Anaphylactoid reaction to ranitidine in an obstetric patient. *Anaesthesia* 1992;47:360-1
105. Leon-Casasola OA, Weiss A, Lema MJ. Anaphylaxis due to propofol. *Anesthesiology* 1992;77:384-6.
106. Mancuso G, Masara N. Contact urticaria and severe anaphylaxis from rifamycin SV. *Contact Dermatitis* 1992;27:124-5.

107. McHale SP, Konieczko K. Anaphylactoid reaction to propofol. *Anaesthesia* 1992;47:864-5.
108. Peutrell M. Anaphylactoid reaction to topical chlorhexidine during anaesthesia. *Anaesthesia* 1992;47:1013
109. Wüthrich B, Schmid P, Schmid ER, Tornic M. IgE-mediated anaphylactic reaction to aprotinin during anaesthesia. *Lancet* 1992;340:173-4.
110. Cottineau C, Moreau X, Drouet M, De Brux JL, Brenet O, Delhumeau A. Choc anaphylactique lors de l'utilisation de l'aprotinine à fortes doses en chirurgie cardiaque. *Ann Fr Anesth Réanim* 1993;12:590-3.
111. Dewachter P, Mouton C, Masson C, Guéant JL, Haberer JP. Anaphylactic reaction to aprotinin during cardiac surgery. *Anaesthesia* 1993;48:1110-1.
112. Kumar AA, Thys J, Van Aken HK, Stevens E, Crul JF. Severe anaphylactic shock after atracurium. *Anesth Analg* 1993;76:423-5.
113. Lazaro M. Anaphylactic reaction to ranitidine. *Allergy* 1993;48:385-7.
114. Maycock EJ, Russell WC. Anaphylactoid reaction to Syntocinon. *Anaesth Intensive Care* 1993;21:211-2.
115. Powell JA, Maycock EJ. Anaphylactoid reaction to ranitidine in an obstetric patient. *Anesth Intensive Care* 1993;21:702-3
116. Thomas AD, Caunt JA. Anaphylactoid reaction following local anaesthesia for epidural block. *Anaesthesia* 1993;48:50-2.
117. Duffy BL, Harding JN, Fuller WR, Peake SL. Cardiac arrest following Haemaccel. *Anaesth Intensive Care* 1994;22:90-2.
118. Gérard JL, Tasie M, Laroche D, Zerr C, Babatasi G, Bricard H. Choc anaphylactique lors de l'utilisation de l'aprotinine en chirurgie cardiaque [résumé]. *Ann Fr Anesth Réanim* 1994;13 Suppl:R 140.
119. Kon NF, Masumo H, Nakajima S, Rozawa R, Kimura M, Maeda S. Anaphylactic reaction to aprotinin following use of biological tissue sealant. *Masuai* 1994;43:1606-10.
120. Laxenaire MC, Charpentier C, Feldman. Réactions anaphylactoïdes aux substituts colloïdaux du plasma : incidence, facteurs de risque, mécanismes. Enquête prospective multicentrique française. *Ann Fr Anesth Réanim* 1994;13:301-10.
121. Mitsuhata H, Horiguchi Y, Saitoh J, Saitoh K, Fukuda H, Hirabayasi Y, et al. An anaphylactic reaction to topical fibrin glue. *Anesthesiology* 1994;81:1074-7
122. Rosewarne F, Davidson A. Anaphylactoid reaction to Haemaccel. *Anaesth Intensive Care* 1994;22:317-8.



123. Russ BR, Maddern PJ. Anaphylactic reaction to chlorhexidine in urinary catheter lubricant. *Anaesth Intensive Care* 1994;22:611-2.
124. Cardot E, Tillie-Leblond I, Jeannin P, Facon A, Brueil K, Patte F, et al. Clinical aspects of allergic disease. Anaphylactic reaction to local administration of rifamycin SV. *Allergy Clin Immunol* 1995;95:1-7.
125. Diefenbach C, Abel M, Limpers B, Lynch J, Ruskowski H, Jugert FK, et al. Fatal anaphylactic shock after aprotinin reexposure in cardiac surgery. *Anesth Analg* 1995;80:830-1.
126. Kreimeier U, Christ F, Kraft D, Lauterjung L, Niklas M, Peter K, et al. Anaphylaxis due to hydroxyethyl-starch-reactive antibodies. *Lancet* 1995;346:49-50.
127. Baird MB, Futter M. Anaphylaxis to mivacurium. *Anaesth Intensive Care* 1996;42:486-8.
128. Eggleston ST, Lush LW. Understanding allergic reactions to local anesthetics. *Ann Pharmacother* 1996;30:851-7.
129. Gall H, Kaufmann R, Kalveram CM. Adverse reactions to local anesthetics: analysis of 197 cases. *J Allergy Clin Immunol* 1996;97:933-7
130. Laxenaire MC, Mouton C, Frédéric A, Viry-Babel F, Bouchon Y. Chocs anaphylactiques après levée de garrot en chirurgie orthopédique. *Ann Fr Anesth Réanim* 1996;15:179-84.
131. Martinelli L, Maurelli M, Vigano M. Aprotinin in staged heart transplantation: anaphylactic potential of repeated exposure. *Ann Thorac Surg* 1996;61:1288-9.
132. Yee R, Fernandez JA. Anaphylactic reaction to rocuronium bromide. *Anaesth Intensive Care* 1996;24:601-4.
133. Brinkmann T, Korfer R, Wenzel HR, Tschesche H, Kleesiek K. Strong crossreaction to human anti-aprotinin antibodies from heart transplant patient with (Arg (15)) aprotinin. *Immunopharmacology* 1997;35 :221-8.
134. Dietrich W, Späth P, Ebell A, Richter JA. Prevalence of anaphylactic reactions to aprotinin: analysis of two hundred forty-eight reexposures to aprotinin in heart operations. *J Thorac Cardiovasc Surg* 1997;113:194-201.
135. Fisher MM, Bowey CJ. Alleged allergy to local anaesthetics. *Anaesth Intensive Care* 1997;25:611-4.
136. Ismail K, Simpson PJ. Anaphylactic shock following intravenous administration of lignocaine. *Acta Anaesthesiol Scand* 1997;41:1071-2
137. Oda T, Hamasaki J, Kanda N, Mikami K. Anaphylactic shock induced by an antiseptic-coated central nervous catheter. *Anesthesiology* 1997;87:1242-4.

138. Orsel I, Guillaume A, Feiss P. Choc anaphylactique à la colle biologique. *Ann Fr Anesth Réanim* 1997;16:292-3.
139. Ross AK, Ferrero-Conover D. Anaphylactoid reaction due to the administration of ondansetron in a pediatric neurosurgical patient. *Anesth Analg* 1998;7:779-80.
140. Scheule AM, Beierlein W, Wendel HP, Eckstein FS, Heinemann MK, Ziemer G. Fibrin sealant, aprotinin, and immune response in children undergoing operations for congenital heart disease. *J Thorac Cardiovasc Surg* 1998;115:883-9.
141. Terazawa E, Shimonaka H, Nagase K, Masue T, Dohi S. Severe anaphylactic reaction due to a chlorhexidine-impregnated central venous catheter. *Anesthesiology* 1998;89:1296-8.
142. Volcheck GW, Van Dellen RG. Anaphylaxis to intravenous cyclosporine and tolerance to oral cyclosporine: case report and review. *Ann Allergy Asthma Immunol* 1998;80:159-63.
143. Barthelet Y, Ryckwaert Y, Plasse C, Bonnet-Boyer MC, d'Athis F. Accidents anaphylactiques graves après administration de rocuronium. *Ann Fr Anesth Réanim* 1999;18:896-900.
144. Chew GY, Phan TG, Quin JW. Anaphylactic or anaphylactoid reaction to haemaccel? *Med J Australia* 1999;171:387-8.
145. Cohen DM, Norberto J, Cartabuke R, Ryu G. Severe anaphylactic reaction after primary exposure to aprotinin. *Ann Thorac Surg* 1999;67:837-8.
146. Duvaldestin Ph, Wigdorowicz C, Gabriel I. Anaphylactic shock to neuromuscular blocking agent: a familial history. *Anesthesiology* 1999;90:1211-2.
147. Gall R, Blakley B, Warrington R. Intraoperative anaphylactic shock from Bacitracin nasal packing after septorhinoplasty. *Anesthesiology* 1999;91:1545-7.
148. Redfern DC. Contact sensitivity to multiple local anesthetics. *J Allergy Clin Immunol* 1999;104:890-1.
149. Ryckwaert Y, Barthelet Y, Bonnet-Boyer MC, Rochette A, Capdevilla X, d'Athis F. Choc anaphylactique après administration d'une dose test d'aprotinine en chirurgie orthopédique infantile. *Ann Fr Anesth Réanim* 1999;18:904-8.
150. Toh KW, Deacock SJ, Fawcett WJ. Severe anaphylactic reaction to cisatracurium. *Anesth Analg* 1999;88:462-4.
151. Carver ED, Braude BM, Atkinson AR, Gold M. Anaphylaxis during insertion of a ventriculoperitoneal shunt. *Anesthesiology* 2000;93:578-9.

152. Heier T, Guttormsen AB. Anaphylactic reactions during induction of anaesthesia using rocuronium for muscle relaxation: a report including 3 cases. *Acta Anaesthesiol Scand* 2000;44:775-81.
153. Neal S McD, Manthri PR, Gadiyar V, Wildsmith JAW. Histaminoid reactions associated with rocuronium. *Br J Anaesth* 2000;84:108-11.
154. Pecquet C, Autegarden JE, Kural-Menasche S, Perez G, Menasche P, Sanson-LePors MJ, et al. Réaction anaphylactique à l'aprotinine : intérêt diagnostique des tests intradermiques. *Ann Fr Anesth Réanim* 2000 ;19 :755-7.
155. Matthey P, Wang P, Fibegan BA, Donnelly M. Rocuronium anaphylaxis and multiple neuromuscular blocking drug sensitivities. *Can J Anaesth* 2000;47:890-3.
156. Séminaire "Allergie et anesthésie" Nancy 27-28 septembre 1975. *Ann Anesth Franç* 1976;XXVII:67-397.
157. Watkins J, Clarke RSJ. Report of symposium: adverse responses to intravenous agents. *Br J Anaesth* 1978;50:1159-64.
158. Ahnefeld FW, Doenicke A, Lorenz W. Histamine and antihistamines in anaesthesia and surgery. Symposium held on June 3-5, 1981 in Munich. *Klin Wochenschr* 1982;60:871-1062.
159. Séminaire "Diagnostic d'un accident anaphylactoïde peranesthésique". Nancy, 19 mars 1982. *Ann Fr Anesth Réanim* 1982;1:265-341.
160. Séminaire "Prévention des réactions anaphylactoïdes peranesthésiques". Nancy 28-29 septembre 1984. *Ann Fr Anesth Réanim* 1985;4:89-232.
161. Séminaire d'allergo-anesthésie. Nancy 5 septembre 1989. Compte rendu. *Ann Fr Anesth Réanim* 1989;8:25A-7A.
162. Séminaire "New trends in anaphylactoid risk in anaesthesia" Nancy, 11-12 Juin 1992. *Ann Fr Anesth Réanim* 1993;12:89-222.
163. Lorenz W, Doenicke A, Meyer R, Reimann HJ, Kusche J, Barth H. Histamine release in man by propanidid and thiopentone: pharmacological effects and clinical consequences. *Br J Anaesth* 1972;44:355-69.
164. Fisher MM. Intradermal testing after severe histamine reactions to intravenous drugs used in anaesthesia. *Anaesth Intensive Care* 1976;4:97.
165. Sigiel M, Laxenaire MC, Moneret-Vautrin DA, Condi M, Jacob F, Picard JM. Trois cas de choc anaphylactique à la Célorurine®. *Anesth Analg Réan* 1975;32:447-62.
166. Vervloet D, Arnaud A, Vellieux P, Kaplanski S, Charpin J. Anaphylactic reactions to muscle relaxants under general anaesthesia. *J Allergy Clin Immunol* 1979;63:348-53.

167. Laxenaire MC, Moneret-Vautrin DA, Watkins J. Diagnosis of the causes of anaphylactoid anaesthetic reactions. A report of the recommendations of the joint anaesthetic and immuno-allergological workshop. Nancy: 19 March 1982. *Anaesthesia* 1983;38:147-8.
168. Fisher MM. The epidemiology of anaesthetic anaphylactoid reactions in Australasia. *Klin Wochenschr* 1982;60:1017-20.
169. Fisher MM, Baldo BA. The incidence and clinical features of anaphylactic reactions during anaesthesia in Australia. *Ann Fr Anesth Réanim* 1993;12:97-104.
170. Fisher MM, Baldo BA. Anaphylaxis during anaesthesia : current aspects of diagnosis and prevention. *Eur J Anaesthesiol* 1994;11:263-84.
171. Watkins J, Wild G, Bex S, Ward AM. A case for co-ordinated investigation and reporting of hypersensitivity-type drug reactions in the UK. *Anaesthesia* [letter] 2000;55:1127-8.
172. Boileau S, Hummer-Siegel M, Moeller R, Drouet N. Réévaluation des risques respectifs d'anaphylaxie et d'histaminolibération avec les substances anesthésiques. *Ann Fr Anesth Réanim* 1985;4:195-204.
173. Task force on allergic reaction to latex. American Academy of Allergy and Immunology. Committee report. *J Allergy Clin Immunol* 1993;92:16-8
174. Suspected anaphylactic reactions associated with anaesthesia. The Association of Anaesthetists of Great Britain and Ireland, and by the British Society of Allergy and Clinical Immunology. Edition 1995.
175. Commission Tripartite de Consensus en Allergologie : recommandations pour les tests cutanés aux curarisants. *Rev Fr Allergol* 1997;37:776-7.
176. American Academy of Dermatology's position paper on latex allergy. *J Am Acad Dermatol* 1998;39:98-106.
177. Natural rubber latex allergy: considerations for anesthesiologists. Task force on latex sensitivity: Committee on Occupational Health of Operating Room Personnel. American Society of Anesthesiologist 1999. ([www.asahq.org](http://www.asahq.org))
178. Mitsuata H, Matsumoto S, Hasegawa J. The epidemiology and clinical features of anaphylactic and anaphylactoid reactions in the perioperative period in Japan. *Masui* 1992;41:1664-9 (résumé en anglais).
179. Fisher MM, Baldo CA, Silbert BS. Anaphylaxis during anesthesia: use of radioimmunoassays to determine etiology and drugs responsible in fatal cases. *Anesthesiology* 1991;75:1112-5.

180. Fisher MM, Baldo BA. The diagnosis of fatal anaphylactic reactions during anaesthesia: employment of immunoassays for mast cell tryptase and drug-reactive IgE antibodies. *Anaesth Intensive Care* 1993;21:353-7.
181. Moneret-Vautrin DA, Laxenaire MC. Anaphylactic and anaphylactoid reactions. *Clin Rev Allergy* 1991;9:249-58.
182. Laxenaire MC, Dewachter P, Pecquet C. Le risque allergique de l'aprotinine. *Ann Fr Anesth Réanim* 2000;19:96-104.
183. Pollock EMM, MacLeod AD, McNicol LR. Anaphylactoid reaction complicating neonatal anaesthesia. *Anaesthesia* 1986;41:178-80.
184. Moneret-Vautrin DA, Laxenaire MC, Moeller R. Anaphylaxis due to succinylcholine. *Clin Allergy* 1981;11:175-83.
185. Harrison EA, Yentis SM, Bennett AM. Anaphylaxis during caesarean section in a patient with undiagnosed placenta accreta: it never rains but it pours. *Int J Obstet Anesth* 1999;8:279-83.
186. Perret D, Mahul P, Rochette Y, Auboyer C. Rhabdomyolyse localisée après un choc anaphylactique au suxaméthonium. *Ann Fr Anesth Réanim* 1996;15:1193-5.
187. Laxenaire MC, Torrens J, Moneret-Vautrin DA. Choc anaphylactoïde mortel chez un malade traité par bêta-bloquants. *Ann Fr Anesth Réanim* 1984;3:453-5.
188. Ostwald P, Doenicke A, Moss J. New aspects in perioperative histamine release in anaesthesia. *Curr Opin Anaesthesiol* 1995;8:489-94