



# A 1-Year Prospective French Nationwide Study of Emergency Hospital Admissions in Children and Adults with Primary Immunodeficiency.

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Titre	A 1-Year Prospective French Nationwide Study of Emergency Hospital Admissions in Children and Adults with Primary Immunodeficiency.
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Auteur	Coignard-Biehler, Hélène [1], Mahlaoui, Nizar [2], Pilmis, Benoit [3], Barlogis, Vincent [4], Brosselin, Pauline [5], De Vergnes, Nathalie [6], Debré, Marianne [7], Malphettes, Marion [8], Frange, Pierre [9], Catherinot, Emilie [10], Pellier, Isabelle [11], Durieu, Isabelle [12], Perlat, Antoinette [13], Royer, Bruno [14], Le Quellec, Alain [15], Jeziorski, Eric [16], Fischer, Alain [17], Lortholary, Olivier [18], Aaron, Laurent [19], Adoue, Daniel [20], Aguilar, Claire [21], Aladjidi, Nathalie [22], Alcaïs, Alexandre [23], Amoura, Zahir [24], Arlet, Philippe [25], Armari-Alla, Corinne [26], Bader-Meunier, Brigitte [27], Bayart, Sophie [28], Bertrand, Yves [29], Bienvenu, Boris [30], Blanche, Stéphane [31], Bodet, Damien [32], Bonnotte, Bernard [33], Borie, Raphaël [34], Boutard, Patrick [35], Briandet, Claire [36], Brion, Jean-Paul [37], Brouard, Jacques [38], Cohen-Beaussant, Sarah [39], Costes, Laurence [40], Couderc, Louis-Jean [41], Cougoul, Pierre [42], Courteille, Virginie [43], de Saint Basile, Geneviève [44], Devoldere, Catherine [45], Deville, Anne [46], Donadieu, Jean [47], Dore, Eric [48], Dulieu, Fabienne [49], Edan, Christine [50], Entz-Werle, Natacha [51], Fieschi, Claire [52], Forestier, Amandine [53], Fouyssac, Fanny [54], Gajdos, Vincent [55], Galicier, Lionel [56], Gandemer, Virginie [57], Gardembas, Martine [58], Gaud, Catherine [59], Guillermin, Gaëlle [60], Hachulla, Eric [61], Hamidou, Mohamed [62], Hermine, Olivier [63], Hoarau, Cyrille [64], Humbert, Sébastien [65], Jaccard, Arnaud [66], Jacquot, Serge [67], Jais, Jean-Philippe [68], Jaussaud, Roland [69], Jeandel, Pierre-Yves [70], Kebaili, Kamila [71], Korganow, Anne-Sophie [72], Lambotte, Olivier [73], Lanternier, Fanny [74], Larroche, Claire [75], Lascaux, Anne-Sophie [76], Le Moigne, Emmanuelle [77], Le Moing, Vincent [78], Lebranchu, Yvon [79], Lecuit, Marc [80], Lefèvre, Guillaume [81], Lemal, Richard [82], Li Thiao Te, Valérie [83], Marie-Cardine, Aude [84], Silva, Nicolas Martin [85], Masseau, Agathe [86], Massot, Christian [87], Mazingue, Françoise [88], Merlin, Etienne [89], Michel, Gérard [90], Millot, Frédéric [91], Monlibert, Béatrice [92], Monpoux, Fabrice [93], Moshous, Despina [94], Mouthon, Luc [95], Munzer, Martine [96], Neven, Benedicte [97], Nove-Josserand, Raphaëlle [98], Oksenhendler, Eric [99], Ouachée-Chardin, Marie [100], Oudot, Caroline [101], Pagnier, Anne [102], Pasquali, Jean-Louis [103], Pasquet, Marlène [104], Perel, Yves [105], Picard, Capucine [106], Piguët, Christophe [107], Plantaz, Dominique [108], Provot, Johan [109], Quartier, Pierre [110], Rieux-Laucat, Frédéric [111], Roblot, Pascal [112], Roger, Pierre-Marie [113], Rohrlisch, Pierre-Simon [114], Rubie, Hervé [115], Salle, Valéry [116], Sarrot-Reynauld, Françoise [117], Servettaz, Amélie [118], Stephan, Jean-Louis [119], Schleinitz, Nicolas [120], Suarez, Felipe [121], Swiader, Laure [122], Taque, Sophie [123], Thomas, Caroline [124], Tournilhac, Olivier [125], Thumerelle, Caroline [126], Tron, François [127], Vannier, Jean-Pierre [128], Viallard, Jean-François [129]
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Mots-clés	emergency hospital admission [131], Infection [132], Primary immunodeficiency [133], prophylaxis [134] PURPOSE: Patients with primary immunodeficiency (PID) are at risk of serious complications. However, data on the incidence and causes of emergency hospital admissions are scarce. The primary objective of the present study was to describe emergency hospital admissions among patients with PID, with a view to identifying "at-risk" patient profiles. METHODS: We performed a prospective observational 12-month multicenter study in France via the CEREDIH network of regional PID reference centers from November 2010 to October 2011. All patients with PIDs requiring emergency hospital admission were included. RESULTS: A total of 200 admissions concerned 137 patients (73 adults and 64 children, 53% of whom had antibody deficiencies). Thirty admissions were reported for 16 hematopoietic stem cell transplantation recipients. When considering the 170 admissions of non-transplant patients, 149 (85%) were related to acute infections (respiratory tract infections and gastrointestinal tract infections in 72 (36%) and 34 (17%) of cases, respectively). Seventy-seven percent of the admissions occurred during winter or spring (December to May). The in-hospital mortality rate was 8.8% (12 patients); death was related to a severe infection in 11 cases (8%) and Epstein-Barr virus-induced lymphoma in 1 case. Patients with a central venous catheter (n = 19, 13.9%) were significantly more hospitalized for an infection (94.7%) than for a non-infectious reason (5.3%) (p = 0.04). CONCLUSION: Our data showed that the annual incidence of emergency hospital admission among patients with PID is 3.4%. The leading cause of emergency hospital admission was an acute infection, and having a central venous catheter was associated with a significantly greater risk of admission for an infectious episode.
Résumé en anglais	
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DOI	10.1007/s10875-019-00658-9 [136]
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