

**Table S1.** List of the chronic or onco-haematological diseases considered in the eligibility criteria.

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Chronic heart disease;
Conditions at increased risk of aspiration of secretions (e.g. cerebral palsy, neuromuscular diseases, other causes of severe disability);
Adrenal cortical insufficiency;
Severe chronic kidney disease (e.g. nephrotic syndrome*, dialysis ...);
Chronic liver disease;
Diabetes mellitus;
Haemophilia and other coagulation disorders;
Anemia and haemoglobinopathy;
Severe obesity;
Chronic inflammatory diseases and malabsorption syndromes;
Patients with Cochlear implant;
Patients with cerebrospinal fluid fistula;
Chronic salicylate therapy;
Patient waiting for major surgery;
Primary or secondary immunodeficiencies (due to immunosuppressive therapies, onchohaematological disease, HIV infection, hematopoietic stem-cell transplantation);
Solid organ transplantation;
Surgical or functional asplenia.

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\* medical condition included only in the immunization schedule of Tuscany region

**Table S2.** Total number of surveys collected by medical condition.

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Medical condition	Number of surveys collected
Chronic respiratory or lung disease	20 (15.8%)
Chronic heart disease	6 (4.7%)
Conditions at increased risk of aspiration of secretions	13 (10.3%)
Adrenal cortical insufficiency	4 (3.1%)
Severe chronic kidney disease	4 (3.1%)
Chronic liver disease	1 (0.8%)
Diabetes mellitus	13 (10.3%)
Hemophilia and other coagulation disorders	4 (3.1%)
Anemia and hemoglobinopathy	12 (9.5%)
Severe obesity	3 (2.4%)
Chronic inflammatory diseases and malabsorption syndromes	2 (1.6%)
Cochlear implant	6 (4.7%)
Cerebrospinal fluid fistula	1 (0.8%)
Chronic salicylate therapy	0 (0.0%)
Patient waiting for major surgery	2 (1.6%)
Primary or secondary immunodeficiencies	28 (22.0%)
Solid organ transplantation	1 (0.8%)
Surgical or functional asplenia	7 (5.5%)

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