

**Supplementary Appendix 1**

Search strategy for PubMed database

Date searched: 1 October 2017

Limits: Best Match; Publication date from 1970/01/01 to 2018/01/31; Humans were applied

Results : 2835 (Endnote duplicate removal function applied)

Search	Query	Result
#1	Search (((((ABO blood groups) OR A blood group) OR B blood group) OR AB blood group) OR O blood group) AND asthma Sort by: Best Match Filters: Publication date from 1970/01/01 to 2018/05/31; Humans	4486
#2	Search (((((ABO blood groups) OR A blood group) OR B blood group) OR AB blood group) OR O blood group) AND asthma attack Sort by: Best Match Filters: Publication date from 1970/01/01 to 2018/05/31; Humans	247
#3	Search (((((ABO blood group) OR A blood group) OR B blood group) OR AB blood group) OR O blood group) AND bronchial asthma Sort by: Best Match Filters: Publication date from 1970/01/01 to 2018/05/31; Humans	4486
#4	Search (((((ABO blood groups) OR A blood group) OR B blood group) OR AB blood group) OR O blood group) AND respiratory diseases Sort by: Best Match Filters: Publication date from 1970/01/01 to 2018/05/31; Humans	8836
#5	Search (((((ABO blood groups) OR A blood group) OR B blood group) OR AB blood group) OR O blood group) AND lung diseases Sort by: Best Match Filters: Publication date from 1970/01/01 to 2018/05/31; Humans	19709
#6	Search (((((ABO blood groups) OR A blood group) OR B blood group) OR AB blood group) OR O blood group) AND lung diseases Sort by: Best Match Filters: Publication date from 1970/01/01 to 2018/05/31; Humans	20798
#7	Search (((((ABO blood groups) OR A blood group) OR B blood group) OR AB blood group) OR O blood group) AND allergic rhinitis Sort by: Best Match Filters: Publication date from 1970/01/01 to 2018/05/31; Humans	1283
#8	Search (((((ABO blood groups) OR A blood group) OR B blood group) OR AB blood group) OR O blood group) AND rhinitis Sort by: Best Match Filters: Publication date from 1970/01/01 to 2018/05/31; Humans	1541
#9	Search (((((ABO blood groups) OR A blood group) OR B blood group) OR AB blood group) OR O blood group)	10174

	AND hypersensitivity Sort by: Best Match Filters: Publication date from 1970/01/01 to 2018/05/31; Humans	
#10	Search (((((ABO blood groups) OR A blood group) OR B blood group) OR AB blood group) OR O blood group) AND Hay fever Sort by: Best Match Filters: Publication date from 1970/01/01 to 2018/05/31; Humans	606
#11	Search (((((ABO blood groups) OR A blood group) OR B blood group) OR AB blood group) OR O blood group) AND Allergen Induced hypersensitivity Sort by: Best Match Filters: Publication date from 1970/01/01 to 2018/05/31; Humans	515
#12	Search (((((ABO blood groups) OR A blood group) OR B blood group) OR AB blood group) OR O blood group) AND Allergic diseases Sort by: Best Match Filters: Publication date from 1970/01/01 to 2018/05/31; Humans	1743
#13	Search (((((ABO blood groups) OR A blood group) OR B blood group) OR AB blood group) OR O blood group) AND dermatitis Sort by: Best Match Filters: Publication date from 1970/01/01 to 2018/05/31; Humans	1859
#14	Search (((((ABO blood groups) OR A blood group) OR B blood group) OR AB blood group) OR O blood group) AND Atopic dermatitis Sort by: Best Match Filters: Publication date from 1970/01/01 to 2018/05/31; Humans	852
#15	Search (((((ABO blood groups) OR A blood group) OR B blood group) OR AB blood group) OR O blood group) AND Eczema Sort by: Best Match Filters: Publication date from 1970/01/01 to 2018/05/31; Humans	1859
#16	Search (((((ABO blood groups) OR A blood group) OR B blood group) OR AB blood group) OR O blood group) AND Inflamed skin Sort by: Best Match Filters: Publication date from 1970/01/01 to 2018/05/31; Humans	26
#17	Search (((((ABO blood groups) OR A blood group) OR B blood group) OR AB blood group) OR O blood group) AND Skin diseases Sort by: Best Match Filters: Publication date from 1970/01/01 to 2018/05/31; Humans	15004
#18	Search (((((((((ABO blood group) OR A blood group) OR B blood group) OR AB blood group) OR O blood group) AND asthma) OR asthma attack) OR bronchial asthma) OR respiratory diseases) OR lung diseases) OR pulmonary diseases Sort by: Best Match Filters: Publication date from 1970/01/01 to 2018/05/31; Humans	896135
#19	Search (((((((((((ABO blood groups) OR A) OR B) OR AB) OR O) AND allergic rhinitis) OR hypersensitivity) OR hay fever) OR allergen induced hypersensitivity) OR	344026

	rhinitis) OR allergic diseases Sort by: Best Match Filters: Publication date from 1970/01/01 to 2018/05/31; Humans	
#20	Search (((((((((ABO blood groups) OR A blood group) OR B blood group) OR AB blood group) OR O blood group) AND Atopic dermatitis) OR dermatitis) OR atopic eczema) OR eczema) OR inflamed skin) OR skin diseases Sort by: Best Match Filters: Publication date from 1970/01/01 to 2018/05/31; Humans	860673
#21	#1-20 export to Endnote and remove duplicate	2835