

Supplementary data

Pubmed Search Strategy up to 31st March 2016

The following limits were put on all searches:

– English, Human

Subsequently the terms: {"Raynaud* syndrome" [all fields] OR "Raynaud* disease" OR "Raynaud*"[all fields] OR "Raynaud* phenomenon" [all fields]} AND {"child*"[tw] OR "adolescen*"[tw] OR "child, preschool"[tw]} AND # where # is defined by specific aims and searches below.

Specific Aims:

1. What is the prevalence of Raynaud's syndrome in children?

Where # "prevalence" [all fields]

2. How many children with Raynaud's syndrome develop a connective tissue disease such as JSSc or JSLE over time?

Where # "juvenile systemic sclerosis" [all fields] OR "systemic sclerosis" [all fields] OR "systemic scleroderma" [all fields] OR "juvenile systemic lupus erythematosus" [all fields] OR "systemic lupus erythematosus" [all fields] OR "mixed connective tissue disease" [all fields] OR "overlap connective tissue disease" [all fields] OR "undifferentiated connective tissue disease" [all fields] OR "connective tissue disease" [all fields] OR "juvenile localised scleroderma" [all fields] OR "juvenile dermatomyositis" [all fields]

3. What are the risk factors for progres-

sion to a connective tissue disease in children with Raynaud's syndrome?

a) Search strategy as for question 2) but also the following:

b) Where # {"autoantibod*" [all fields] OR "antinuclear antibod*" [all fields] OR "extractable nuclear antigen*" [all fields] OR "anticytomegalovirus antibody*" [all fields] OR "scleroderma antibody*" [all fields] OR "anti-topoisomerase*" [all fields] OR "anti-dsDNA*" [all fields] OR "anti-RNP*" [all fields] OR "anticardiolipin*" [all fields] OR "nailfold capillar*" [all fields] OR "nailfold video capillary*" [all fields]}

Results of search:

Question	Number of studies identified			Number of studies deemed relevant by 2 reviewers (TC, CP)			Number of relevant studies minus duplications from other searches		
	Total	1966-31.10.12	1.11.12-31.3.16	Total	1966-31.10.12	1.11.12-31.3.16	Total	1966-31.10.12	1.11.12-31.3.16
1	64	58	6	1	1	0	1	1	0
2	111	102	9	8	6	2	8	6	2
3b	196	195	1	7	6	1	2	2	0