



Supplemental Fig 1. Preferred Reporting Items for Systematic Reviews and Meta-Analyses (PRISMA) diagram.

Supplemental Table I. Patient-reported concerns about itch in original qualitative and mixed methods research studies

Item	Frequency	Item	Frequency	Item	Frequency
Total original references	366	Relationship-social effects	41	Acute	1
Emotional effects of itch	76	Sleep impairment	35	Chronic	1
Anxiety-worry	14	Physical manifestations of itch	33	Constant	1
Sadness-depression	12	Scratching-rubbing	7	Intermittent	1
Anger	7	Bleeding	5	Paroxysmal-episodic	1
Bothersome	6	Scars-scarring	3	Prolonged	1
Annoying	4	Inflamed-inflammation	3	Treatment	14
Frustrating	4	Swelling	3	Difficult to manage-treat	2
Irritability	3	Lesions	2	Emotional reaction to treatment	2
Distressing	3	Irritated skin	2	Clothing stains	1
Mood affected	3	Xerosis	1	Intractable	1
Personality changes	2	Ulcers-ulceration	1	Uncontrollable	1
Agitation	2	Disfigurement	1	Financial	1
Burdensome	2	Redness	1	Side effects	1
Fear-frightful	2	Scaling	1	Treatment, other	5
Guilt	2	Sensitive skin	1	Fatigue	10
Aggressiveness	1	Wheals	1	Clothing choices affected	8
Stress	1	Pruritus	1	Miscellaneous	8
Psychological-mental effects	1	Exacerbating factors	21	Sexual effects	7
Helplessness	1	Temperature-climate	6	Concentration impairment	6
Suffering	1	Heat-sweat	4	Food choices affected	6
Upset	1	Dryness	3	Self-esteem/self-confidence affected	5
Crazy	1	Clothing	2	Moderate	2
Fretful	1	Chemotherapy	1	Pleasant-pleasurable	2
Emotional effects of itch, other	2	Food	1	Avoidance behavior increased	1
Functional limitations	45	Hot shower	1	Individuality constrained	1
Work-school	14	Water	1	Insistent	1
Physical activities	7	Stress	1	Irresistible	1
Nonphysical leisure activities	4	Pain	1	Pervasive	1
Errands affected	3	Self-conscious/embarrassed	20	Pointed	1
Playing	2	Timing	18	Sore	1
Going out	2	Nocturnal-nocturnal worsening	3	Stubborn	1
Exercise	1	Persistent-unabating	3	Appetite effects	1
Housework	1	Frequent	2		
Bathing routine affected	1	Recurrent	2		
Functional limitations, other	10	Common	2		

Supplemental Table II. Patient concerns related to itch presented in review articles

Item	Frequency	Item	Frequency	Item	Frequency
Total review references	1669	Prurigo nodularis	13	Self-blame	1
Physical manifestations of itch	569	Purulence	1	Shame	5
Abrasions	2	Pustules	6	Stress	8
Acanthosis	3	Rash	13	Suffering	3
Atrophy	2	Raw	2	Suicidal	6
Bleeding	6	Red	3	Troublesome	6
Blisters	4	Redness	1	Troubling	1
Bumps	1	Rough skin	1	Unbearable	2
Cracking-fissuring	4	Scale-scaling-scaly	21	Upset	1
Crust	19	Scars-scarring	9	Vexing	1
Depigmentation	1	Scratch marks	3	Worrisome	1
Dermatitis	4	Scratching-rubbing	13	Emotional effects of itch, other	17
Dermatosis	4	Sensitive skin	5	Exacerbating factors	156
Desquamation	7	Swelling	3	Alcohol	3
Discharge	1	Targetoid	1	Allergens-irritants	25
Disfigurement	3	Thickening	6	Chemicals	1
Draining	1	Turgor	1	Clothing	16
Dry	29	Ulcers-ulceration	2	Disinfectants	2
Eczematous	3	Urticaria-urticarial	5	Dryness	3
Edema	11	Vesicles	7	Exercise	2
Erosions	6	Weepy-weeping	5	Food	5
Eruption	14	Wheals	3	Heat-sweat	30
Erythema	40	Xerosis	23	Hot water	2
Erythroderma	1	Emotional effects of itch	247	Soap-detergent	14
Exanthem	2	Agitation	4	Stress	16
Excoriations	35	Agonizing	1	Sun	2
Exfoliation	1	Anger	5	Temperature-climate	16
Exudation	2	Annoying	7	Touch	1
Fissure	3	Anxiety-worry	25	Water contact	18
Follicular	2	Bothersome	10	Timing	144
Folliculitis	1	Burdensome	3	Acute	6
Hives	1	Concerning	1	Bouts	1
Hyperkeratosis	4	Difficulty coping	1	Chronic	31
Hyperplasia	1	Distressing	27	Common	15
Induration	1	Fear	1	Constant	3
Infection	24	Frustrating	6	Continuous	3
Infiltration	1	Guilt	3	Cyclic	1
Inflamed-inflammation	28	Helplessness	2	Daily	2
Inflammatory	3	Hostility	2	Daytime	1
Leathery	2	Irritability	4	Develops in minutes	2
Lesions	23	Irritating	3	Exacerbations	3
Lichenification	37	Mood affected	9	Frequent	5
Macular	1	Nervous	1	Insidious onset	1
Necrosis	1	Paranoia	1	Intermittent	10
Nodules	14	Personality changes	1	Mealtime	1
Nummular	1	Psychological-mental effects	25	Nocturnal-nocturnal worsening	8
Oozing	6	Psychosocial effects	8	Occasionally	1
Papules	28	Reduced optimism	1	Paroxysmal-episodic	4
Patches	3	Resent	2	Persistent-unabating	17
Pigmentation changes	20	Resignation	1	Progressive	2
Plaques	11	Sadness-depression	41	Prolonged	5

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Supplemental Table II. Cont'd

Item	Frequency	Item	Frequency	Item	Frequency
Recurrent	4	Difficult to manage-treat	2	Self-esteem/self-confidence affected	3
Relapsing	7	Difficult to relieve	3	Bathing routine affected	2
Remitting	4	Emotional reaction to treatment	1	Moderate	2
Spontaneous	1	Intractable	9	Provoked	2
Stable	1	Refractory-unresponsive	11	Weight loss	2
Sudden onset	1	Side effects	3	Catastrophizing	1
Transient-short	2	Time-consuming	2	Food choices affected	1
Unrelenting	1	Fatigue	32	Gouging	1
Variable duration	1	Sexual effects	23	Intrusive	1
Sleep impairment	127	Self-conscious-embarrassed	24	Limited	1
Functional limitations	102	Irritation-irritated	20	Morbidity	1
Debilitating	4	Concentration impairment	14	Prevalent	1
Dexterity	1	Skin barrier function altered	10	Problematic	1
Disabling	11	Appetite effects	8	Prominent	1
Impairing	1	Inconvenience	6	Reactive skin	1
Incapacitating	2	Time-consuming	2	Self-limited	1
Nonphysical leisure activities	6	Inconvenience, other	4	Sensitivity increased	1
Physical activities	11	Growth-development affected	5	Sepsis	1
Work-school	37	Physical well-being affected	4	Strong	1
Functional limitations, other	29	Avoidance behavior increased	3	Tumor	1
Miscellaneous	63	Behavioral changes	3	Unrecognized	1
Relationship-social effects	44	Clothing choices affected	3	Weak	1
Treatment	31	Restlessness	3		