

Table S1. Previously reported cases of persistent pruritic eruptions with adult-onset Still's disease (AOSD)

Age/sex	Morphology	Distribution	Epidermal dyskeratotic keratinocytes	Perivascular inflammatory infiltrate	Treatment/results	References
19/F	Erythematous papules and plaques	Face, neck, chest, abdomen, back, forearms, and shins	-	Lymphocytes	Aspirin (4.5 g/day)/***, prednisolone (0.6 mg/kg/day)/*	Kaur et al. (1994)
16/F	Brown scaly papules and plaques	Forehead, neck, back	+	Lymphocytes, neutrophils	Aspirin (4 g/day)/**, prednisolone (1.5 mg/kg/day)/*	Lubbe et al. (1999)
25/M	Erythematous, oedematous plaques with linear pigmentation	Trunk	+	Lymphocytes, neutrophils	Aspirin (3.0 g/day)/****, prednisolone (60 mg/day) and methotrexate (7.5 mg/week)/*	Suzuki et al. (2001)
39/M	Erythematous papules and plaques	Trunk, extremities	NR	Lymphocytes, eosinophils, histiocytes	Salicylates and indomethacin (dose NR)/**, prednisone (80 mg/day, 1 mg/kg/day)/*	Perez et al. (2001)
64/F	Generalized erythematous, oedematous plaques with linear pigmentation	Back	NR	Lymphocytes, rare neutrophils	Methylprednisolone (1,000 mg/day for 3 days)/*	Fujii et al. (2003)
43/F	Generalized erythematous, oedematous plaques with linear pigmentation	Face, trunk, extremities	NR	Lymphocytes, rare neutrophils	Methylprednisolone (80 mg/day)/****, acetylsalicylate (60 mg/kg/day)/*	Fujii et al. (2003)
29/F	Erythematous brown plaques	Chest, back, arms, hands	+	Neutrophils, lymphocytes	Methylprednisolone (1,000 mg day for 3 days), prednisolone (60 mg/day), and methotrexate (15 mg/weekly)/*, methotrexate (22.5 mg/weekly)/+	Affleck et al. (2005)
19-67/3M 8F	Violaceous to dusky red, papules (n=11). Lichenoid papules with crust (n=1), linear pigmentation (n=6)	Widely distributed	+	Neutrophils, lymphocytes	NR	Lee et al. (2005)
23/F	Pigmented plaques	Trunk	-	Lymphocytes, eosinophils	Methylprednisolone (80 mg day for 3 days) and prednisolone (2 mg/kg/day)/*	Thien Huong et al. (2005)
34/F	Dark-red to brown papules with linear pigmentation	Chest, back	+	Neutrophils, lymphocytes, eosinophils	Methylprednisolone (1,000 mg/day for 3 days) and corticosteroid (dose NR)/**, cyclosporine (dose NR) and prednisolone (dose NR), methotrexate (7.5 mg/week) and dexamethasone (1 mg/day)/*	Tomaru et al. (2006)
47/F	Violaceous, scaly plaques with crust	Forehead, neck, elbows, knees	+	Neutrophils, lymphocytes	Methylprednisolone (dose NR) and azathioprine (dose NR)/****, deceased	Yang et al. (2006)
29/F	Erythematous urticarial plaques	Neck, chest, back	NR	Neutrophils, some eosinophils	Methylprednisolone (1,000 mg daily for 3 days) and prednisolone (2 mg/kg/day)/*	Fernandez-Guarino et al. (2006)
36/F	Erythema, and pigmentation	Neck	NR	Eosinophils	Methylprednisolone (1 mg/kg/day) and prednisolone (1 mg/kg/day)/*	Maza et al. (2008)
15/F	Erythematous, scaly papules and plaques	Neck, back, abdomen	+	Neutrophils, lymphocytes	Anakinra, methotrexate, prednisolone (dose NR)/*	Fortna et al. (2010)
54/F	Erythematous papules and plaques	Abdomen, back, extremities, ankles	+	Neutrophils, rare eosinophils	Prednisolone, methylprednisolone (dose NR)/*	Fortna et al. (2010)
53/F	Erythematous, scaly papules with linear eruption	Chest, back	+	Neutrophils, lymphocytes	Deceased by unrelated causes	Fortna et al. (2010)
17-67/6M 30F	Persistent eruptions (n=28). Urticarial (n=21), lichenoid (n=18), linear and dermatographism-like (n=11), dermatomyositis-like (n=7), prurigo pigmentosa-like (n=4), lichen amyloidosis-like (n=2)	Widely distributed	+	Neutrophils, some eosinophils	NR	Lee et al. (2012)
38/F	Erythematous brown papules and reticulated erythematous plaques	Chest, abdomen, back	+	Neutrophils, lymphocytes, eosinophils	Methylprednisolone (1,000 mg/day for 3 days), prednisolone (0.5-1.0 mg/kg/day), and methotrexate (dose NR)/*	Cho et al. (2013)
35/F	Erythematous, violaceous and brown lichenoid papules, violaceous to brown linear pigmentation	Hairline, auricular, shoulders, back	+	Neutrophils, eosinophils	NR	Lee et al. (2015)
19/F	Erythematous brown papules and plaques	Face, chest, back, legs	NR	NR	Methylprednisolone, cyclosporine, prednisolone and tocilizumab/*	Lee et al. (2015)
21/F	Erythematous brown papules	Neck, trunk, extremities	NR	NR	NR	Lee et al. (2015)
74/F	Erythematous, scaly papules	Chest, back	+	Lymphocytes	Prednisolone (60 mg/day)/**, methylprednisolone (1,000 mg/day for 3 days)/*	Kikuchi et al. (2014)
83/F	Erythematous, scaly papules with linear eruption	Back	+	NR	Prednisolone (40 mg/day)/*	Kikuchi et al. (2014)
33/F	Erythematous	Face, chest, back	+	NR	Prednisolone (60 mg/day)/*	Kikuchi et al. (2014)
57/F	Erythematous, scaly papules	Extremities	+	NR	Prednisolone (40 mg/day)/*	Kikuchi et al. (2014)
69/F	Erythematous	Back, extremities	+	NR	Methylprednisolone (1,000 mg/day for 3 days)/*	Kikuchi et al. (2014)
82/F	Erythematous, scaly papules	Face, neck, back, extremities	+	NR	Methylprednisolone (250 mg/day for 3 days)/*	Kikuchi et al. (2014)
29-64/3M 7F	Erythematous macules, papules, plaques and urticarial lesions	Face, chest, back, extremities	+	Neutrophils, lymphocytes	NR	Larson et al. (2015)
75/F	Erythematous brown papules and purpura	Chest	+	Lymphocytes	Prednisolone (1 g/kg/day), plasmapheresis (7 times), cyclosporine (2 mg/kg/day), and tocilizumab (8 mg/kg/day)/*	Current report, patient 1
77/F	Linear dermatographism-like erythema	Chest, abdomen, back, inguinal region	+	Neutrophils, lymphocytes, histiocytes	Prednisolone (1 g/kg/day), plasmapheresis (5 times) and cyclosporine (2 mg/kg/day)/deceased due to respiratory failure	Current report, patient 2

NR: not reported; *complete response; **partial response; ***no response.