

Quality of life and burden of moderate-to-severe atopic dermatitis in adult patients within the Asia-Pacific region: A cross-sectional survey

Chia-Yu Chu¹, Yung Chan², Siriwan Wananukul³, Hao Cheng⁴, Nisha Suyien Chandran⁵, Ramesh Bhat⁶, Sang Wook Son⁷, Han-Fang Liao⁸, Sean Gardiner⁹, Qi Qing Ng¹⁰, See-Hwee Yeo¹⁰, Sophie Bozhi Chen¹⁰, Yoko Kataoka¹¹

¹ Department of Dermatology, National Taiwan University Hospital and National Taiwan University College of Medicine, Taipei, Taiwan

² Apex Dermatology Institute, Hong Kong, China

³ Department of Pediatrics, King Chulalongkorn Memorial Hospital, Faculty of Medicine, Chulalongkorn University, Bangkok, Thailand

⁴ Sir Run Run Shaw Hospital, Zhejiang University School of Medicine, Department of Dermatology, Hangzhou, China

⁵ Division of Dermatology, Department of Medicine, National University Hospital, Singapore, Singapore

⁶ Father Muller Medical College, Mangalore, India

⁷ Korea University College of Medicine, Department of Dermatology, Seoul, South Korea

⁸ Pfizer Ltd, Taipei, Taiwan

⁹ Pfizer Ltd, Singapore, Singapore

¹⁰ IQVIA Solutions Asia, Real World Solutions, Singapore, Singapore

¹¹ Department of Dermatology, Osaka Habikino Medical Center, Habikino, Japan

Corresponding author:

Sean Gardiner

Email: Sean.Gardiner@pfizer.com

Supplementary Materials

Table S1. Currency conversion rate for each territory (average in 2022)

	Equivalent to 1 United States Dollar [1]
Territory (currency)	
Japan (Japanese Yen)	130.57
South Korea (South Korean Won)	1286.20
Taiwan (New Taiwan Dollar)	29.73
Singapore (Singapore Dollar)	1.38
Hong Kong (Hongkong Dollar)	7.83
Mainland China (Chinese Yuan)	6.72
Thailand (Thai Baht)	34.94
India (Indian Rupee)	78.51

Table S2. Monthly median population wage for each territory

	Monthly median wage (USD)	Reference
Territory		
Japan	2,773.20 ^a	[2]
South Korea	1,943.70 ^a	[3]
Taiwan	1,419.60 ^a	[4]
Singapore	3,758.90 ^b	[5]
Hongkong	2,439.20 ^b	[6]
Mainland China	686.30 ^b	[7]
Thailand	441.30 ^b	[8]
India	374.50 ^b	[9]

Abbreviation: USD, United States Dollar.

^a Based on data published in 2021.

^b Based on data published in 2022.

Table S3. Number of patients recruited from each territory

	Overall (N=1103)
Territory of residence, n (%) ^a	
Japan	150 (13.6)
South Korea	151 (13.7)
Taiwan	150 (13.6)
Singapore	101 (9.2)
Hong Kong	100 (9.1)
Mainland China	150 (13.6)
Thailand	150 (13.6)
India	151 (13.7)

^a Values do not add up to 100% due to rounding.

Table S4. Annual health care costs (in United States Dollars) of employed patients with moderate-to-severe atopic dermatitis (AD) by territory

	Hongkong (n=100)	India (n=151)	Japan (n=150)	Mainland of China (n=150)	Singapore (n=101)	South Korea (n=151)	Taiwan (n=150)	Thailand (n=150)
Annual direct medical costs per patient								
Median (IQR)	1787.88 (3167.10)	968.05 (2674.89)	245.08 (410.51)	2344.96 (4106.65)	1742.41 (3630.03)	1088.48 (1865.96)	470.97 (780.46)	686.95 (973.18)
Annual direct non-medical (transport) costs per patient								
Median (IQR)	61.30 (173.68)	1019.00 (1401.13)	27.57 (91.90)	119.03 (267.83)	609.84 (1277.77)	139.95 (317.21)	80.74 (134.56)	343.48 (915.93)
Annual indirect costs per patient								
Median (IQR)	15965.67 (12383.63)	3707.55 (1000.94)	9983.52 (15622.36)	3713.90 (2988.35)	27465.03 (17849.41)	15179.37 (6279.65)	9391.20 (7266.58)	3666.18 (1462.59)
Annual total costs per patient ^a								
Median (IQR)	19257.13 (13423.96)	6267.07 (4457.45)	10228.60 (14166.87)	6518.56 (6191.60)	32158.75 (20789.67)	16925.74 (8688.46)	10301.86 (7114.11)	4851.72 (2918.15)
Financial burden caused by AD, n (%)								
Not at all	4 (4.0)	2 (1.3)	4 (2.7)	29 (19.3)	2 (2)	7 (4.6)	7 (4.7)	6 (4.0)
Very little	27 (27.0)	10 (6.6)	28 (17.3)	49 (32.7)	8 (7.9)	36 (23.2)	46 (30.7)	30 (20.0)
To some extent	54 (54.0)	75 (49.7)	80 (53.3)	63 (42.0)	67 (66.3)	70 (46.4)	83 (55.3)	96 (64.0)
To great extent	15 (15.0)	64 (42.4)	40 (26.7)	9 (6.0)	24 (23.8)	39 (25.8)	14 (9.3)	18 (56.0)

Abbreviations: AD, atopic dermatitis; IQR, interquartile range.

^a Annual total cost is calculated by summing annual direct medical cost, annual direct non-medical cost and annual indirect cost.

Table S5. Breakdown of direct medical costs and direct non-medical costs (in United States Dollars) per patient

	Overall (N=1103)
Number of physician visits in the past 3 months	
Median (IQR)	4.0 (5.0)
Cost of visits to the doctor or hospital in the past 3 months	
Median (IQR)	108.90 (257.21)
Cost of traditional medicines in the past 3 months ^a	
Median (IQR)	38.09 (148.79)
Cost of non-prescription health products in the past 3 months ^a	
Median (IQR)	51.08 (129.92)
Cost of transportation (per return trip to doctor's office)	
Median (IQR)	8.84 (24.79)

Abbreviation: IQR, interquartile range.

^a Costs are calculated among traditional medicine users (n=693) and non-prescription health products users (n=920) only.

Table S6. Productivity loss among patients with moderate-to-severe atopic dermatitis (AD)

	Overall (N=1103)
Presenteeism – Impairment while working due to AD in the last week (%)	
Median (IQR)	60.0 (40.0)
Absenteeism – Percentage of work time missed due to AD in the last week (%)	
Median (IQR)	9.1 (21.4)
Work productivity loss – Overall work impairment due to AD in the last week (%)	
Median (IQR)	61.5 (37.8)
Activity impairment due to AD problem in the last week (%)	
Median (IQR)	60.0 (30.0)

Abbreviations: AD, atopic dermatitis; IQR, interquartile range.

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