

Asthma control in Europe over past five years: Results of three cross-sectional surveys

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Supplementary Data

Table S1: Number (%) of asthma respondents taking part in the European National Health and Wellness Surveys in 2006, 2008 and 2010

Patients, n (%)	Took the survey on one out of three years	Took the survey on two out of three years		Took the survey on three out of three years	Total
		Only completed once ¹	Completed twice		
2006	1765 (85)	96 (5)	142 (7)	68 (3)	2071 (100)
2008	2658 (84)	168 (5)	253 (8)	76 (2)	3155 (100)
2010	2566 (92)	111 (4)	46 (2)	71 (3)	2794 (100)

¹ Respondents given the survey twice but only completed one of them

Table S2: Prevalence of asthma control in treated asthma by country in 2006, 2008, 2010

	All countries			France			Germany			Italy			Spain			UK		
	2006	2008	2010	2006	2008	2010	2006	2008	2010	2006	2008	2010	2006	2008	2010	2006	2008	2010
N sizes	1862	2903	3147	337	628	696	374	646	600	151	164	231	184	96	168	816	1,369	1,452
NWC (%)	55.0	56.6	53.5	55.9	50.4	56.8	72.3	67.3	62.5	61.4	66.5	54.1	45.0	47.3	48.0	44.8	51.2	48.1
ALWC (%)	45.0	43.4	46.5	44.1	49.6	43.2	27.7	32.8	37.5	38.6	33.5	45.9	55.0	52.7	52.0	55.2	48.8	51.9

NWC: not-well controlled; ALWC: at least well-controlled asthma

Table S3a: Healthcare utilisation, health-related quality of life and work productivity in asthma patients by control status and by country in 2006

	All countries		France		Germany		Italy		Spain		UK	
	NWC	ALWC	NWC	ALWC	NWC	ALWC	NWC	ALWC	NWC	ALWC	NWC	ALWC
Subjects, n	1159	1178	229	247	307	179	114	119	93	134	416	499
Healthcare utilisation (during previous 6 months)												
Number of times spoken to doctor about asthma ¹	3.36 (3.98)	1.60 (2.48)	3.64 (3.61)	1.63 (1.95)	3.79 (4.11)	2.08 (1.97)	3.01 (4.68)	1.88 (3.63)	3.67 (3.94)	2.06 (4.02)	2.87 (3.49)	1.12 (1.21)
p-value	<0.001		<0.001		<0.001		0.153		0.021		<0.001	
Emergency room visits	0.59 (1.79)	0.28 (0.74)	0.34 (0.88)	0.16 (0.52)	0.39 (0.93)	0.15 (0.56)	0.38 (1.25)	0.29 (0.68)	1.36 (2.01)	0.72 (1.15)	0.82 (2.74)	0.24 (0.68)
p-value	<0.001		0.017		0.004		0.642		0.018		<0.001	
Number of days hospitalised	1.46 (6.28)	0.56 (4.16)	0.96 (3.76)	0.69 (6.28)	2.8 (10.19)	0.95 (6.63)	0.56 (2.16)	0.68 (2.41)	1.35 (4.42)	0.38 (1.32)	0.88 (3.00)	0.35 (2.53)
p-value	0.001		0.604		0.052		0.767		0.058		0.012	
SF-12 scores												
PCS	40.3 (11.26)	48.0 (9.16)	41.8 (10.18)	47.3 (9.55)	38.9 (10.66)	46.5 (8.02)	42.1 (12.0)	48.9 (8.31)	42.5 (10.14)	48.6 (8.16)	39.4 (11.98)	48.4 (9.97)
p-value	<0.001		<0.001		<0.001		<0.001		<0.001		<0.001	
MCS	44.0 (11.36)	47.0 (9.90)	45.0 (10.49)	47.1 (10.14)	44.8 (11.16)	49.0 (8.44)	43.5 (11.54)	44.8 (9.40)	42.9 (10.37)	47.4 (9.89)	43.19 (12.12)	47.0 (10.37)
p-value	<0.001		0.043		<0.001		0.503		0.01		<0.001	
Work productivity and activity impairment												
% work time missed due to health	10.2 (25.0)	6.1 (20.13)	9.2 (25.05)	8.3 (24.91)	14.8 (20.90)	5.8 (17.58)	5.8 (14.75)	5.2 (18.65)	9.62 (24.09)	7.66 (22.98)	10.2 (24.84)	5.2 (18.10)
p-value	0.010		0.807		0.045		0.087		0.698		0.055	
% impairment while at work due to health	24.6 (25.65)	15.3 (19.99)	24.3 (23.68)	15.6 (19.22)	25.8 (26.38)	19.5 (20.44)	20.7 (23.0)	12.9 (17.39)	27.7 (29.09)	17.4 (20.21)	26.1 (26.49)	13.9 (20.90)

p-value	<0.001		0.009		0.133		0.04		0.058		<0.001	
% activity impairment due to health	42.6 (30.30)	23.5 (27.11)	41.2 (29.61)	24.1 (28.13)	44.1 (31.39)	24.3 (25.25)	36.5 (24.74)	20.8 (26.19)	38.3 (29.02)	23.0 (24.74)	46.7 (32.05)	24.1 (28.49)
p-value	<0.001		<0.001		<0.001		0.001		0.001		<0.001	

¹includes any form of contact, not just clinic visits. Data presented as mean (SD). NWC: Not well-controlled; ALWC: At least well-controlled;

PCS: physical component summary score; MCS: mental component summary score

In NHWS 2006, the hospitalisation question was phrased as follows: 'What is the total number of days you were hospitalised for your own medical condition in the past six months?' In NHWS 2008 & 2010, the question wording was changed to 'How many times have you been hospitalised for your own medical condition in the past six months?'

Table S3b: Healthcare utilisation, health-related quality of life and work productivity in asthma patients by control status and by country in 2008

	All countries		France		Germany		Italy		Spain		UK	
	NWC	ALWC	NWC	ALWC	NWC	ALWC	NWC	ALWC	NWC	ALWC	NWC	ALWC
Subjects, n	1827	1792	377	528	507	315	150	83	59	77	734	789
Healthcare utilisation (during previous 6 months)												
Number of times spoken to doctor about asthma ¹	3.15 (3.66)	1.48 (1.89)	3.67 (3.87)	1.70 (2.32)	3.43 (3.45)	1.86 (1.84)	3.74 (4.51)	1.53 (1.64)	2.37 (2.89)	1.48 (2.23)	2.52 (3.28)	1.10 (1.39)
p-value	<0.001		<0.001		<0.001		<0.001		0.077		<0.001	
Emergency room visits	0.60 (2.44)	0.24 (0.72)	0.27 (0.74)	0.17 (0.50)	0.46 (2.61)	0.16 (0.59)	0.48 (1.06)	0.18 (0.55)	1.83 (5.53)	0.56 (0.87)	0.58 (1.46)	0.25 (0.85)
p-value	<0.001		0.032		0.086		0.027		0.081		<0.001	
Number of times hospitalised	0.43 (2.82)	0.15 (0.63)	0.44 (3.29)	0.16 (0.48)	0.45 (2.56)	0.32 (1.16)	0.15 (0.58)	0.03 (0.18)	1.31 (6.14)	0.10 (0.38)	0.28 (1.56)	0.10 (0.39)
p-value	0.001		0.073		0.463		0.088		0.131		0.003	
SF-12 scores												
PCS	40.6 (11.55)	48.0 (10.26)	42.6 (11.62)	48.5 (10.68)	38.9 (10.74)	47.2 (8.87)	43.7 (9.82)	51.8 (7.42)	42.2 (10.15)	48.0 (8.25)	38.9 (12.94)	47.1 (11.68)
p-value	<0.001		<0.001		<0.001		<0.001		<0.001		<0.001	
MCS	41.4 (11.51)	46.1 (11.07)	39.3 (10.90)	43.3 (11.40)	43.2 (11.77)	49.2 (10.61)	40.1 (10.42)	42.8 (9.45)	42.2 (10.15)	49.5 (8.16)	41.0 (12.33)	46.1 (11.61)
p-value	<0.001		<0.001		<0.001		0.077		<0.001		<0.001	
Work productivity and activity impairment												
% work time missed due to health	12.2 (25.59)	5.6 (20.05)	10.1 (26.42)	6.8 (23.08)	10.9 (23.62)	7.8 (24.15)	10.9 (21.15)	1.3 (4.25)	19.3 (28.75)	4.2 (17.41)	12.8 (28.73)	5.8 (19.77)
p-value	<0.001		0.221		0.285		0.005		0.012		0.002	
% impairment while at work due to health	30.0 (26.96)	15.4 (21.25)	23.8 (25.80)	14.9 (20.87)	34.0 (26.37)	18.5 (22.13)	32.7 (27.42)	20.8 (22.62)	28.9 (26.93)	11.4 (19.85)	27.5 (26.75)	13.7 (20.39)

p-value	<0.001		0.001		<0.001		0.02		0.005		<0.001	
% activity impairment due to health	45.8 (30.15)	25.3 (27.58)	42.3 (31.13)	28.5 (29.29)	48.2 (28.70)	24.6 (25.77)	40.0 (28.26)	21.0 (21.61)	40.8 (26.87)	21.9 (26.12)	50.1 (32.09)	25.9 (29.13)
p-value	<0.001		<0.001		<0.001		<0.001		<0.001		<0.001	

¹includes any form of contact, not just clinic visits. Data presented as mean (SD). NWC: Not well-controlled; ALWC: At least well-controlled;

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In NHWS 2006, the hospitalisation question was phrased as follows: 'What is the total number of days you were hospitalised for your own medical condition in the past six months?' In NHWS 2008 & 2010, the question wording was changed to 'How many times have you been hospitalised for your own medical condition in the past six months?'