A comparative study of disorders of gut-brain interaction in Western Europe and Asia based on the Rome Foundation Global Epidemiology Study - Supplementary material

Contents

Prevalence of individual DGBI in Western Europe and Asia	2
Table 1	2
Table 2	3
Additional healthcare utilization factors in Western Europe and Asia	4
Table 3	4
Sub-analysis of demographics, psychological factors and healthcare utilization in Western Europe and Asia	5
IBS	5
Demographics	5
Table 4	5
Psychological factors	5
Table 5	5
Healthcare	6
Table 6	6
Table 7	7
Functional Dyspepsia	7
Demographics	7
Table 8	7
Psychological factors	8
Table 9	8
Healthcare	8
Table 10	8
Table 11	9
Functional Constipation	9
Demographics	9
Table 12	9
Psychological factors	10
Table 13	10
Healthcare	10
Table 14	10
Functional Bloating	11
Demographics	11
Table 16	11
Psychological factors	12
Table 17	12
Healthcare	12
Table 18	12
Table 19	13
IBS III and IV prevalence	13
Table 20	12

Prevalence of individual DGBI in Western Europe and Asia

 Table 1: Prevalence of individual upper DGBI diagnosis in Western Europe and Asia

Variable	Asia (N=8812)	Western Europe (N=15464)	OR (95%CI)
Functional Heartburn	0.3% (0.2-0.4)	1.1% (0.9-1.2)	3.73 (2.53, 5.73)
Functional Chest Pain	0.8% (0.7-1.0)	1.5% (1.4-1.7)	1.88 (1.47, 2.45)
Reflux Hypersensitivity	0.4% (0.3-0.5)	0.9% (0.7-1.0)	2.20 (1.55, 3.19)
Globus	0.9% (0.7-1.1)	0.9% (0.8-1.1)	1.05 (0.80, 1.37)
Functional Dysphagia	2.2% (1.9-2.5)	3.2% (3.0-3.5)	1.52 (1.29, 1.79)
Postprandial Distress Syndrome	4.2% (3.9-4.7)	5.7% (5.4-6.1)	1.37 (1.22, 1.55)
Epigastric Pain Syndrome	1.0% (0.8-1.2)	2.5% (2.3-2.8)	2.52 (2.03, 3.17)
Functional Dyspepsia	4.8% (4.4-5.2)	7.0% (6.6-7.4)	1.50 (1.34, 1.67)
Excessive Belching	0.9% (0.7-1.1)	0.7% (0.6-0.8)	0.78 (0.59, 1.04)
Chronic nausea and vomiting	0.5% (0.4-0.7)	1.0% (0.8-1.1)	1.81 (1.33, 2.51)
Cyclic vomiting	1.1% (0.9-1.3)	1.1% (0.9-1.2)	0.94 (0.74, 1.21)
Rumination syndrome	2.4% (2.1-2.7)	2.7% (2.4-2.9)	1.11 (0.95, 1.31)

 Table 2: Prevalence of individual lower DGBI diagnosis in East vs. West

Variable	Asia (N=9158)	Western Europe (N=15319)	OR (95%CI)
Irritable bowel syndrome	2.6% (2.3-2.9)	4.0% (3.7-4.3)	1.58 (1.37, 1.84)
Functional Constipation	12.3% (11.7- 13.0)	11.3% (10.8-11.8)	0.91 (0.84, 0.98)
Functional Diarrhea	5.2% (4.8-5.7)	4.6% (4.3-5.0)	0.88 (0.79, 0.99)
Functional Bloating	1.6% (1.3-1.9)	3.3% (3.0-3.5)	2.09 (1.75, 2.52)
Unspecified Functional Bowel Disorder	8.3% (7.8-8.9)	8.5% (8.1-8.9)	1.02 (0.94, 1.12)
Opioid-induced constipation	1.1% (0.9-1.4)	1.3% (1.2-1.5)	1.18 (0.94, 1.50)
Fecal incontinence	1.3% (1.1-1.5)	1.5% (1.3-1.7)	1.18 (0.95, 1.48)
Levator Ani syndrome	0.7% (0.5-0.9)	1.2% (1.1-1.4)	1.75 (1.33, 2.34)
Proctalgia Fugax	3.8% (3.4-4.2)	5.2% (4.8-5.5)	1.39 (1.22, 1.57)

Additional healthcare utilization factors in Western Europe and Asia

Table 3: Healthcare utilization among DGBI subjects in East vs. West.

Variable	Asia (N=3182)	Western Europe (N=6107)	OR (95% CI)
Doctor visit due to bowel problem	49.3% (47.7-51.0)	46.7% (45.5-47.9)	0.9 (0.83, 0.98)
General practi- tioner	24.9% (23.4-26.4)	42.4% (41.1-43.6)	2.22 (2.02, 2.43)
Gastroenterologist	30.4% (28.9-32.0)	18.8% (17.9-19.8)	0.53 (0.48, 0.59)
Surgeon	2.0% (1.5-2.5)	2.9% (2.5-3.3)	1.47 (1.12, 1.96)
Type of health care			
Western medicine	66.3% (64.7-67.9)	87.0% (86.1-87.8)	3.39 (3.07, 3.76)
Traditional/folk healer	1.7% (1.3-2.2)	2.5% (2.2-3.0)	1.54 (1.14, 2.1)
Both	28.2% (26.7-29.7)	4.1% (3.6-4.6)	0.11 (0.09, 0.13)
Neither	3.8% (3.2-4.5)	6.4% (5.8-7.0)	1.72 (1.41, 2.11)

Sub-analysis of demographics, psychological factors and healthcare utilization in Western Europe and Asia IBS

Demographics

Table 4: Demographic variables of subjects with IBS in Asia and Western Europe. OR = Odds ratio (categorical variables); SMD = Standardized mean difference (continuous variables) where values values of 0.2-0.5 are considered small, values of 0.5-0.8 are considered medium, and values > 0.8 are considered large; CI = Confidence interval.

Variable	Asia (N=244)	Western Europe (N=655)	OR/SMD (95% CI)
Age	38.9 (37.2-40.6)	39.6 (38.5-40.7)	0.05 (-0.10, 0.20)
Female gender	55.7% (49.3-62.1)	66.0% (62.2-69.6)	1.54 (1.14, 2.08)
Education (Years)	15.1 (14.7-15.5)	13.3 (12.8-13.8)	-0.34 (-0.49, -0.19)
BMI	21.9 (21.4-22.5)	25.8 (25.2-26.3)	0.66 (0.51, 0.82)
Relationship status			
Single	43.4% (37.1-49.9)	31.3% (27.8-35.0)	0.59 (0.44, 0.8)
Married/Co-habiting	53.3% (46.8-59.7)	60.0% (56.1-63.8)	1.32 (0.98, 1.77)
Divorced	2.0% (0.7-4.7)	6.6% (4.8-8.7)	3.36 (1.44, 9.8)
Widowed	1.2% (0.3-3.6)	2.1% (1.2-3.6)	1.75 (0.57, 7.66)

Psychological factors

Table 5: Association of IBS with psychosomatic symptoms in Asia vs. Western Europe. OR = Odds ratio (categorical variables); SMD = Standardized mean difference (continuous variables) where values values of 0.2-0.5 are considered small, values of 0.5-0.8 are considered medium, and values > 0.8 are considered large; CI = Confidence interval.

Variable	Asia (N=244)	Western Europe (N=655)	OR/SMD (95% CI)
Anxiety	42.6% (36.3-49.1)	47.8% (43.9-51.7)	1.23 (0.92, 1.66)
Depression	42.2% (35.9-48.7)	40.3% (36.5-44.2)	0.92 (0.69, 1.25)
PHQ 12	8.9 (8.3-9.4)	9.1 (8.8-9.4)	0.05 (-0.10, 0.19)

Table 6: Healthcare utilization among IBS subjects in Western Europe and Asia.

Variable	Asia (N=244)	Western Europe (N=655)	OR (95% CI)
Number of doctor visits			
Once a month	72 (29.5%)	168 (25.6%)	0.82 (0.6, 1.15)
A few times a year	115 (47.1%)	352 (53.7%)	1.3 (0.97, 1.75)
Once a year	16 (6.6%)	62 (9.5%)	1.49 (0.86, 2.72)
Less than once a year	32 (13.1%)	62 (9.5%)	0.69 (0.44, 1.1)
Never	9 (3.7%)	11 (1.7%)	0.45 (0.18, 1.12)
At least once a year	83.2% (77.9-87.7)	88.9% (86.2-91.2)	1.61 (1.06, 2.43)
Doctor visit due to bowel problem	70.1% (63.9-75.8)	70.1% (66.4-73.6)	1 (0.72, 1.37)
General practitioner	36.1% (30.0-42.4)	63.2% (59.4-66.9)	3.05 (2.25, 4.15)
Gastroenterologist	50.4% (44.0-56.8)	33.7% (30.1-37.5)	0.5 (0.37, 0.68)
Surgeon	1.6% (0.4-4.1)	5.3% (3.7-7.4)	3.39 (1.34, 11.42)
Type of health care			
Western medicine	66.0% (59.7-71.9)	87.5% (84.7-89.9)	3.6 (2.54, 5.13)
Traditional/folk healer	0.0% (0.0-1.5)	2.6% (1.5-4.1)	2202047.55 (0, NA)
Both	30.3% (24.6-36.5)	3.8% (2.5-5.6)	0.09 (0.06, 0.15)
Neither	3.7% (1.7-6.9)	6.1% (4.4-8.2)	1.7 (0.85, 3.78)

Table 7: Healthcare utilization among IBS subjects in Western Europe and Asia.

Variable	Asia (N=244)	Western Europe (N=655)	OR (95% CI)
Ability to visit doctor if needed?			
No	0.4% (0.0-2.3)	1.2% (0.5-2.4)	3 (0.55, 55.89)
Yes, easily	87.7% (82.9-91.5)	86.6% (83.7-89.1)	0.9 (0.57, 1.39)
Yes, but difficult	11.9% (8.1-16.6)	12.2% (9.8-15.0)	1.03 (0.66, 1.64)
Cost of medical care?			
No medical expenses	4.1% (2.0-7.4)	44.4% (40.6-48.3)	18.71 (10.27, 38.31)
Small fee	56.1% (49.7-62.5)	40.0% (36.2-43.9)	0.52 (0.39, 0.7)
Substantial	27.0% (21.6-33.1)	9.3% (7.2-11.8)	0.28 (0.19, 0.41)
All medical expenses	12.7% (8.8-17.5)	6.3% (4.5-8.4)	0.46 (0.28, 0.75)
No or small	60.2% (53.8-66.4)	84.4% (81.4-87.1)	3.58 (2.57, 4.99)

Functional Dyspepsia

Demographics

Table 8: Demographic variables of subjects with Functional Dyspepsia in Asia and Western Europe. OR = Odds ratio (categorical variables); SMD = Standardized mean difference (continuous variables) where values values of 0.2-0.5 are considered small, values of 0.5-0.8 are considered medium, and values > 0.8 are considered large; CI = Confidence interval.

Variable	Asia (N=453)	Western Europe (N=1138)	OR/SMD (95% CI)
Age	38.7 (37.4-40.0)	41.1 (40.2-42.0)	0.16 (0.05, 0.27)
Female gender	56.3% (51.6-60.9)	60.8% (57.9-63.7)	1.2 (0.97, 1.5)
Education (Years)	15.3 (15.0-15.6)	12.8 (12.4-13.1)	-0.49 (-0.60, -0.38)
ВМІ	22.6 (22.2-23.1)	25.5 (25.1-25.9)	0.50 (0.39, 0.62)
Relationship status			
Single	36.6% (32.2-41.3)	30.0% (27.3-32.7)	0.74 (0.59, 0.93)
Married/Co-habiting	59.6% (54.9-64.2)	60.6% (57.7-63.5)	1.04 (0.84, 1.3)
Divorced	2.9% (1.5-4.9)	6.9% (5.5-8.6)	2.52 (1.44, 4.8)
Widowed	0.9% (0.2-2.2)	2.5% (1.6-3.5)	2.83 (1.1, 9.6)

Psychological factors

Table 9: Association of Functional Dyspepsia with psychosomatic symptoms in Asia vs. Western Europe. OR = Odds ratio (categorical variables); SMD = Standardized mean difference (continuous variables) where values values of 0.2-0.5 are considered small, values of 0.5-0.8 are considered medium, and values > 0.8 are considered large; CI = Confidence interval.

Variable	Asia (N=453)	Western Europe (N=1138)	OR/SMD (95% CI)
Anxiety	32.0% (27.7-36.5)	42.4% (39.5-45.3)	1.56 (1.24, 1.97)
Depression	33.1% (28.8-37.7)	39.0% (36.2-41.9)	1.29 (1.03, 1.63)
PHQ 12	7.8 (7.4-8.2)	8.3 (8.1-8.6)	0.14 (0.04, 0.25)

Healthcare

Table 10: Healthcare utilization among subjects with Functional Dyspepsia in Asia vs. Western Europe.

Variable	Asia (N=453)	Western Europe (N=1138)	OR (95% CI)
Number of doctor visits			
Once a month	98 (21.6%)	299 (26.3%)	1.29 (1, 1.68)
A few times a year	228 (50.3%)	582 (51.1%)	1.03 (0.83, 1.28)
Once a year	48 (10.6%)	114 (10.0%)	0.94 (0.66, 1.35)
Less than once a year	60 (13.2%)	120 (10.5%)	0.77 (0.56, 1.08)
Never	19 (4.2%)	23 (2.0%)	0.47 (0.25, 0.88)
At least once a year	82.6% (78.7-85.9)	87.4% (85.4-89.3)	1.47 (1.09, 1.98)
Doctor visit due to bowel prob- lem	58.9% (54.3-63.5)	53.9% (50.9-56.8)	0.81 (0.65, 1.01)
General practitioner	28.3% (24.2-32.6)	48.6% (45.7-51.5)	2.4 (1.9, 3.04)
Gastroenterologist	36.6% (32.2-41.3)	23.6% (21.1-26.1)	0.53 (0.42, 0.67)
Surgeon	2.6% (1.4-4.6)	4.0% (2.9-5.3)	1.51 (0.82, 3.02)
Type of health care			
Western medicine	59.8% (55.1-64.4)	84.0% (81.7-86.1)	3.53 (2.76, 4.51)
Traditional/folk healer	1.3% (0.5-2.9)	3.3% (2.4-4.6)	2.57 (1.16, 6.81)
Both	35.8% (31.3-40.4)	5.7% (4.4-7.2)	0.11 (0.08, 0.15)
Neither	3.1% (1.7-5.1)	6.9% (5.5-8.6)	2.34 (1.35, 4.35)

Table 11: Healthcare utilization among subjects with Functional Dyspepsia in Asia vs Western Europe

Variable	Asia (N=453)	Western Europe (N=1138)	OR (95% CI)
Ability to visit doctor if needed?			
No	0.4% (0.1-1.6)	0.8% (0.4-1.5)	1.8 (0.46, 11.82)
Yes, easily	88.5% (85.2-91.3)	86.7% (84.6-88.6)	0.85 (0.6, 1.18)
Yes, but difficult	11.0% (8.3-14.3)	12.5% (10.6-14.5)	1.15 (0.82, 1.63)
Cost of medical care?			
No medical expenses	3.8% (2.2-5.9)	46.9% (44.0-49.9)	22.67 (14.21, 38.75)
Small fee	49.4% (44.8-54.2)	38.0% (35.2-40.9)	0.63 (0.5, 0.78)
Substantial	31.3% (27.1-35.8)	9.3% (7.7-11.2)	0.22 (0.17, 0.3)
All medical expenses	15.5% (12.2-19.1)	5.7% (4.4-7.2)	0.33 (0.23, 0.47)
No or small	53.2% (48.5-57.9)	85.0% (82.8-87.0)	4.97 (3.89, 6.37)

Functional Constipation

Demographics

Table 12: Demographic variables of subjects with Functional Constipation in Asia and Western Europe. OR = Odds ratio (categorical variables); SMD = Standardized mean difference (continuous variables) where values values of 0.2-0.5 are considered small, values of 0.5-0.8 are considered medium, and values > 0.8 are considered large; CI = Confidence interval.

Variable	Asia (N=1170)	Western Europe (N=1846)	OR/SMD (95% CI)
Age	42.5 (41.6-43.4)	43.3 (42.5-44.0)	0.05 (-0.03, 0.12)
Female gender	64.4% (61.6-67.2)	65.8% (63.6-68.0)	1.06 (0.91, 1.24)
Education (Years)	14.8 (14.7-15.0)	13.1 (12.8-13.3)	-0.37 (-0.45, -0.30)
BMI	22.1 (21.8-22.3)	25.0 (24.7-25.2)	0.61 (0.53, 0.68)
Relationship status			
Single	33.2% (30.5-35.9)	28.6% (26.5-30.7)	0.81 (0.69, 0.95)
Married/Co-habiting	60.5% (57.6-63.3)	62.1% (59.9-64.4)	1.07 (0.92, 1.24)
Divorced	4.3% (3.2-5.6)	7.0% (5.9-8.2)	1.68 (1.21, 2.37)
Widowed	2.1% (1.3-3.0)	2.3% (1.6-3.1)	1.11 (0.68, 1.87)

Psychological factors

Table 13: Association of Functional Constipation with psychosomatic symptoms in Asia vs. Western Europe. OR = Odds ratio (categorical variables); SMD = Standardized mean difference (continuous variables) where values values of 0.2-0.5 are considered small, values of 0.5-0.8 are considered medium, and values > 0.8 are considered large; CI = Confidence interval.

Variable	Asia (N=1170)	Western Europe (N=1846)	OR/SMD (95% CI)
Anxiety	16.7% (14.6-18.9)	27.2% (25.2-29.3)	1.87 (1.56, 2.26)
Depression	19.1% (16.9-21.5)	23.3% (21.4-25.3)	1.29 (1.07, 1.54)
PHQ 12	5.4 (5.2-5.7)	6.4 (6.2-6.5)	0.25 (0.18, 0.33)

Healthcare

Table 14: Healthcare utilization among subjects with Functional Constipation in Western Europe and Asia.

Variable	Asia (N=1170)	Western Europe (N=1846)	OR (95% CI)
Number of doctor visits			
Once a month	180 (15.4%)	245 (13.3%)	0.84 (0.68, 1.04)
A few times a year	573 (49.0%)	1011 (54.8%)	1.26 (1.09, 1.46)
Once a year	144 (12.3%)	272 (14.7%)	1.23 (0.99, 1.53)
Less than once a year	203 (17.4%)	284 (15.4%)	0.87 (0.71, 1.06)
Never	70 (6.0%)	34 (1.8%)	0.29 (0.19, 0.44)
At least once a year	76.7% (74.1-79.1)	82.8% (81.0-84.5)	1.46 (1.22, 1.75)
Doctor visit due to bowel prob- lem	48.5% (45.6-51.4)	45.0% (42.7-47.3)	0.87 (0.75, 1.01)
General practitioner	25.4% (22.9-28.0)	40.6% (38.4-42.9)	2.01 (1.71, 2.37)
Gastroenterologist	27.9% (25.4-30.6)	17.0% (15.3-18.7)	0.53 (0.44, 0.63)
Surgeon	1.5% (0.8-2.3)	2.0% (1.4-2.8)	1.39 (0.79, 2.54)
Type of health care			
Western medicine	68.6% (65.9-71.3)	86.7% (85.1-88.2)	2.99 (2.49, 3.59)
Traditional/folk healer	1.2% (0.7-2.0)	3.1% (2.3-4.0)	2.63 (1.5, 4.93)
Both	26.0% (23.5-28.6)	3.5% (2.7-4.4)	0.1 (0.08, 0.13)
Neither	4.2% (3.1-5.5)	6.7% (5.6-8.0)	1.65 (1.18, 2.33)

Table 15: Healthcare utilization among subjects with Functional Constipation in Western Europe and Asia

Variable	Asia (N=1170)	Western Europe (N=1846)	OR (95% CI)
Ability to visit doctor if needed?)		
No	0.3% (0.1-0.9)	0.4% (0.2-0.8)	1.11 (0.33, 4.24)
Yes, easily	92.1% (90.4-93.5)	93.3% (92.0-94.4)	1.2 (0.91, 1.58)
Yes, but difficult	7.6% (6.2-9.3)	6.3% (5.3-7.5)	0.82 (0.62, 1.1)
Cost of medical care?			
No medical expenses	3.4% (2.5-4.6)	43.5% (41.2-45.8)	21.75 (15.87, 30.67)
Small fee	62.8% (60.0-65.6)	43.6% (41.3-45.9)	0.46 (0.39, 0.53)
Substantial	22.6% (20.3-25.2)	9.1% (7.8-10.5)	0.34 (0.28, 0.42)
All medical expenses	11.1% (9.4-13.1)	3.8% (3.0-4.8)	0.32 (0.24, 0.43)
No or small	66.2% (63.4-68.9)	87.1% (85.4-88.6)	3.43 (2.86, 4.12)

Functional Bloating

Demographics

Table 16: Demographic variables of subjects with Functional Bloating in Asia and Western Europe. OR = Odds ratio (categorical variables); SMD = Standardized mean difference (continuous variables) where values values of 0.2-0.5 are considered small, values of 0.5-0.8 are considered medium, and values > 0.8 are considered large; CI = Confidence interval.

Variable	Asia (N=146)	Western Europe (N=539)	OR/SMD (95% CI)
Age	40.9 (38.8-43.1)	45.1 (43.8-46.4)	0.28 (0.10, 0.47)
Female gender	54.7% (46.3-62.8)	70.4% (66.4-74.3)	1.98 (1.36, 2.86)
Education (Years)	15.7 (15.1-16.2)	12.6 (12.1-13.1)	-0.57 (-0.76, - 0.38)
BMI	23.3 (22.6-23.9)	25.5 (25.1-26.0)	0.45 (0.26, 0.64)
Relationship status			
Single	40.0% (32.1-48.3)	24.5% (20.9-28.4)	0.49 (0.33, 0.71)
Married/Co-habiting	52.0% (43.7-60.2)	59.7% (55.4-63.9)	1.37 (0.95, 1.97)
Divorced	6.0% (2.8-11.1)	13.9% (11.1-17.2)	2.54 (1.3, 5.56)
Widowed	2.0% (0.4-5.7)	1.9% (0.9-3.4)	0.94 (0.28, 4.23)

Psychological factors

Table 17: Association of Functional Bloating with psychosomatic symptoms in Asia vs. Western Europe. OR = Odds ratio (categorical variables); SMD = Standardized mean difference (continuous variables) where values values of 0.2-0.5 are considered small, values of 0.5-0.8 are considered medium, and values > 0.8 are considered large; CI = Confidence interval.

Variable	Asia (N=146)	Western Europe (N=539)	OR/SMD (95% CI)
Anxiety	15.3% (10.0-22.1)	30.3% (26.4-34.4)	2.4 (1.51, 3.97)
Depression	20.7% (14.5-28.0)	22.2% (18.8-26.0)	1.1 (0.71, 1.73)
PHQ 12	5.4 (4.8-5.9)	6.1 (5.8-6.4)	0.22 (0.04, 0.41)

Healthcare

Table 18: Healthcare utilization among subjects with Functional Bloating in Western Europe and Asia

Variable	Asia (N=146)	Western Europe (N=539)	OR (95% CI)
Number of doctor visits			
Once a month	24 (16.0%)	66 (12.4%)	0.75 (0.45, 1.26)
A few times a year	74 (49.3%)	297 (55.9%)	1.3 (0.91, 1.88)
Once a year	22 (14.7%)	89 (16.8%)	1.17 (0.72, 1.98)
Less than once a year	27 (18.0%)	73 (13.7%)	0.73 (0.45, 1.19)
Never	3 (2.0%)	6 (1.1%)	0.56 (0.15, 2.68)
At least once a year	80.0% (72.7-86.1)	85.1% (81.8-88.0)	1.43 (0.89, 2.26)
Doctor visit due to bowel prob- lem	41.3% (33.4-49.7)	42.2% (37.9-46.5)	1.04 (0.72, 1.5)
General practitioner	28.0% (21.0-35.9)	39.9% (35.7-44.2)	1.71 (1.16, 2.56)
Gastroenterologist	21.3% (15.1-28.8)	16.0% (13.0-19.4)	0.7 (0.45, 1.12)
Surgeon	1.3% (0.2-4.7)	1.7% (0.8-3.2)	1.28 (0.32, 8.43)
Type of health care			
Western medicine	70.7% (62.7-77.8)	84.0% (80.6-87.0)	2.18 (1.42, 3.31)
Traditional/folk healer	2.0% (0.4-5.7)	2.8% (1.6-4.6)	1.42 (0.46, 6.21)
Both	23.3% (16.8-30.9)	6.2% (4.3-8.6)	0.22 (0.13, 0.37)
Neither	4.0% (1.5-8.5)	7.0% (5.0-9.5)	1.8 (0.8, 4.81)

Table 19: Healthcare utilization among subjects with Functional Bloating in Western Europe and Asia.

Variable	Asia (N=146)	Western Europe (N=539)	OR (95% CI)
Ability to visit doctor if needed?			
No	1.3% (0.2-4.7)	0.4% (0.0-1.4)	0.28 (0.03, 2.35)
Yes, easily	94.0% (88.9-97.2)	92.5% (89.9-94.6)	0.78 (0.35, 1.58)
Yes, but difficult	4.7% (1.9-9.4)	7.2% (5.1-9.7)	1.57 (0.73, 3.92)
Cost of medical care?			
No medical expenses	4.7% (1.9-9.4)	45.8% (41.5-50.1)	17.24 (8.51, 41.28)
Small fee	49.3% (41.1-57.6)	40.1% (35.9-44.4)	0.69 (0.48, 0.99)
Substantial	26.7% (19.8-34.5)	8.5% (6.2-11.2)	0.25 (0.16, 0.41)
All medical expenses	19.3% (13.3-26.6)	5.6% (3.8-8.0)	0.25 (0.14, 0.43)
No or small	54.0% (45.7-62.2)	85.9% (82.6-88.7)	5.18 (3.46, 7.77)

IBS III and IV prevalence

Table 20: Prevalence of IBS according to Rome III and IV criteria in Western Europe and Asia.

Variable	Asia (N=7210)	Western Europe (N=7653)	OR (95%CI)
IBS Rome IV	2.0% (1.7-2.3)	3.7% (3.3-4.2)	1.90 (1.56, 2.32)
IBS Rome III	8.1% (7.5-8.7)	10.8% (10.1-11.5)	1.38 (1.24, 1.54)