



Further Assess WG Qs and WHO Qs

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Disability Statistics
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WHO/ESCAP Field testing

Participating countries:

- Fiji, India, Indonesia, Mongolia and Philippines

Period: May-Sept 2005

Reporting:

- Preliminary reports to Washington Group meetings
- ESCAP Workshop to discuss the country experience and pre-testing results



Question Sets

Question set 1: Washington Group's general disability measures - 6 questions

Question set 2: World Health Survey impairment questions 17 items; WHO Disability Assessment Schedule II 36 items; Australian Bureau of Statistics need-for-assistance measures 4 items



Recode Data

WHO	Washington Group
None	No
Mild + Moderate	Some
Severe	A lot
Extreme	Unable

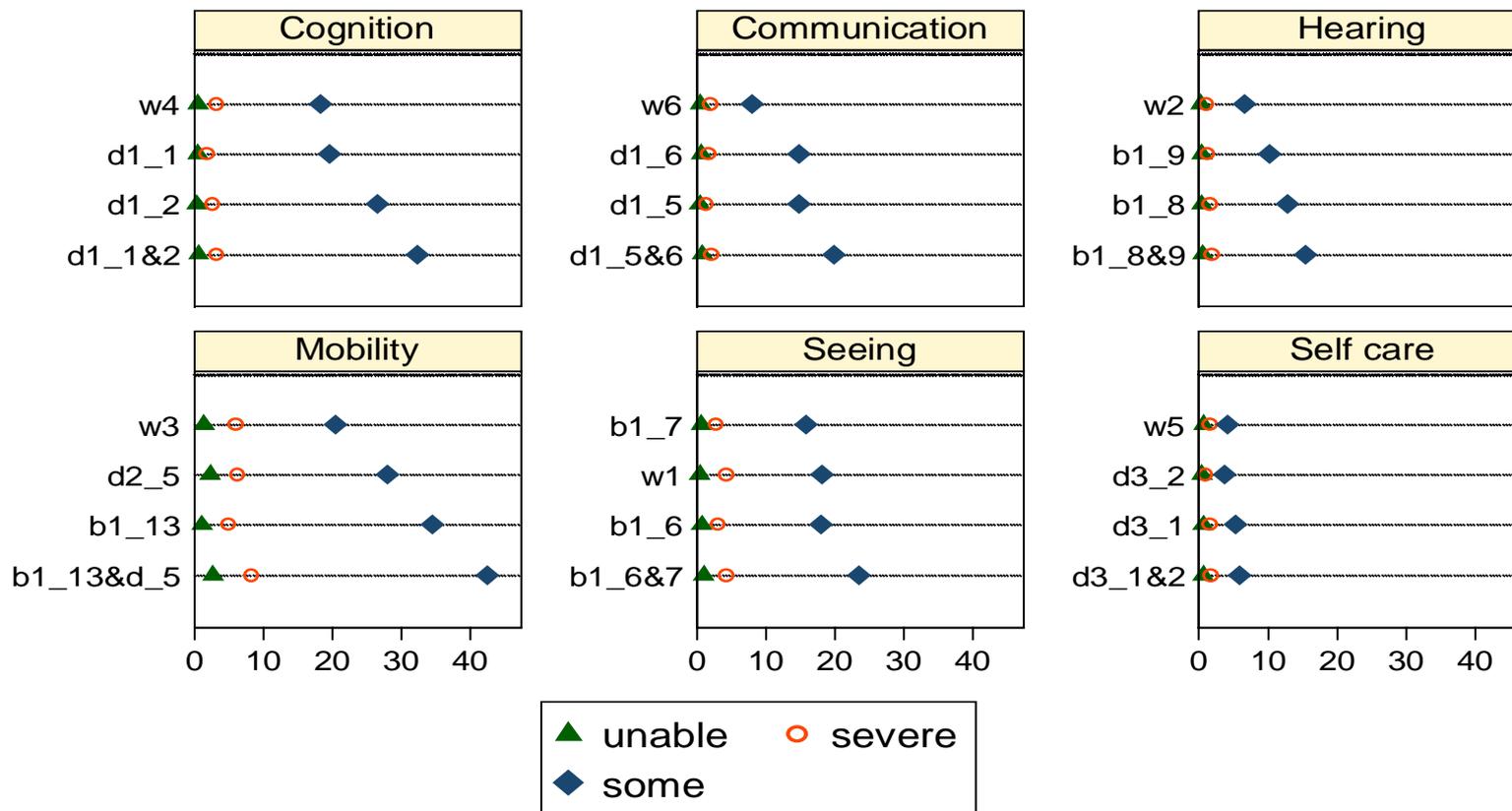


Question 1

- How many more people can be counted as disabled by adding more detailed questions within the same domains?



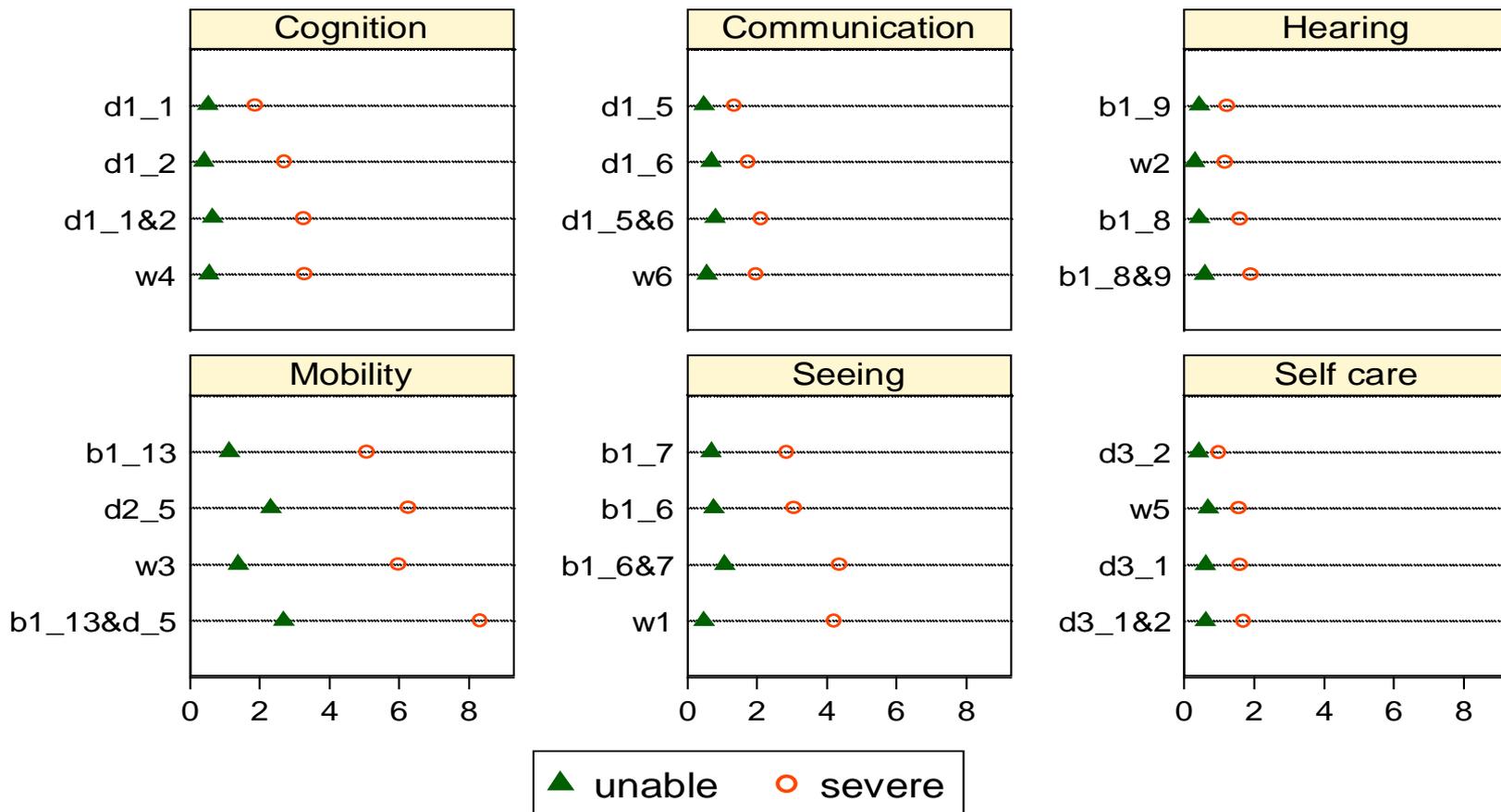
Cumulative prevalence (%)



Source: ESCAP/WHO pilot test.



Cumulative prevalence (%)



Source: ESCAP/WHO pilot test.



Question 2

- To what extent, WHO's questions associated with WG's questions?



Association between Washington Group and WHO questions

Domain	WHO question	Tau-b	Spearman correlations	Gamma
Seeing (WG w1)	B1.6	0.5063	0.517	0.8475
	B1.7	0.5077	0.518	0.8564
	B1.6 and B1.7	0.5675	0.581	0.8796
Hearing (WG w2)	B1.8	0.4971	0.501	0.9287
	B1.9	0.4302	0.433	0.8939
	B1.8 and B1.9	0.4706	0.475	0.9211
Mobility (WG w3)	B1.13	0.4925	0.505	0.8261
	D2.5	0.4934	0.509	0.8134
	B1.13 and D2.5	0.5153	0.534	0.8622
Cognition (WG w4)	D1.1	0.5541	0.364	0.7178
	D1.2	0.5313	0.476	0.8202
	D1.1 and D1.2	0.5658	0.469	0.8219
Self care (WG w5)	D3.1	0.5541	0.558	0.9620
	D3.2	0.5313	0.535	0.9640
	D3.1 and D3.2	0.5658	0.570	0.9642
Communication (WG w6)	D1.5	0.3623	0.366	0.8215
	D1.6	0.3632	0.367	0.8211
	D1.5 and D1.6	0.3686	0.373	0.8282



Question 3

- Whether the same respondents are being identified or not?



Crosstab: Vision

W1	N	No	Some	A lot	Unable
		N=3,660	N=629	N=167	N=21
B1.6	4,477				
None		91% (3,335)	47% (294)	22% (38)	19% (4)
Mild + Moderate		8% (290)	48% (305)	42% (70)	24% (5)
Severe		1% (28)	4% (25)	27% (45)	19% (4)
Extreme		0% (7)	1% (5)	8% (14)	38% (8)
W1	N	No	Some	A lot	Unable
		N=3,659	N=628	N=167	N=21
B1.7	4,475				
None		93% (3,394)	52% (324)	23% (39)	24% (5)
Mild + Moderate		7% (238)	43% (270)	46% (76)	14% (3)
Severe		1% (22)	4% (25)	25% (42)	29% (6)
Extreme		0% (5)	1% (9)	6% (10)	33% (7)



Crosstab: Vision (cont.)

W1	N	No	Some	A lot	Unable
		N=3,660	N=629	N=167	N=21
B1.6 + B1.7	4,477				
None		88% (3,214)	30% (189)	10% (16)	19% (4)
Mild + Moderate		11% (394)	62% (387)	46% (76)	19% (4)
Severe		1% (44)	6% (39)	34% (57)	24% (5)
Extreme		0% (8)	2% (14)	11% (18)	38% (8)



Crosstab: Hearing

W2	N	No N=4,174	Some N=245	A lot N=38	Unable N=13
B1.8	4,470				
None		92% (3,824)	29% (71)	8% (3)	8% (1)
Mild + Moderate		8% (325)	62% (153)	58% (22)	8% (1)
Severe		0% (19)	8% (19)	32% (12)	8% (1)
Extreme		0% (6)	1% (2)	3% (1)	77% (10)

W2	N	No N=4,173	Some N=244	A lot N=38	Unable N=13
B1.9	4,468				
None		93% (3,888)	45% (110)	26% (10)	8% (1)
Mild + Moderate		6% (267)	49% (120)	47% (18)	8% (1)
Severe		0% (15)	5% (12)	16% (6)	8% (1)
Extreme		0% (3)	1% (2)	11% (4)	78% (10)



Crosstab: Hearing (cont.)

W2	N	No	Some	A lot	Unable
		N=4,174	N=245	N=38	N=13
B1.8 + B1.9	4,477				
None		89% (3,720)	25% (61)	5% (2)	8% (1)
Mild + Moderate		10% (420)	65% (160)	55% (21)	8% (1)
Severe		1% (27)	8% (20)	26% (10)	8% (1)
Extreme		0% (7)	2% (4)	13% (5)	77% (10)



Crosstab: Mobility

W3	N	No N=3,561	Some N=651	A lot N=205	Unable N=61
B1.13	4,478				
None		77% (2,738)	24% (158)	16% (32)	8% (5)
Mild + Moderate		22% (775)	69% (452)	39% (79)	20% (12)
Severe		1% (44)	6% (36)	37% (76)	33% (20)
Extreme		0% (4)	1% (5)	9% (18)	39% (24)

W3	N	No N=3,553	Some N=649	A lot N=205	Unable N=61
D2.5	4,468				
None		83% (2,936)	38% (244)	15% (31)	7% (4)
Mild + Moderate		16% (567)	51% (328)	35% (72)	11% (7)
Severe		1% (36)	10% (62)	30% (61)	28% (17)
Extreme		0% (14)	2% (15)	20% (41)	54% (33)



Crosstab: Mobility (cont.)

W3	N	No	Some	A lot	Unable
		N=3,567	N=653	N=206	N=62
B1.13 + D2.5	4,488				
None		69% (2,475)	15% (97)	4% (9)	0% (0)
Mild + Moderate		28% (1,006)	70% (455)	32% (65)	11% (7)
Severe		2% (68)	13% (83)	40% (83)	32% (20)
Extreme		1% (18)	3% (18)	24% (49)	56% (35)



Crosstab: Cognition

W4	N	No N=3,655	Some N=673	A lot N=122	Unable N=24
D1.1	4,474				
None		87% (3,180)	55% (369)	37% (45)	21% (5)
Mild + Moderate		13% (457)	43% (286)	40% (49)	8% (2)
Severe		0% (14)	2% (15)	18% (22)	38% (9)
Extreme		0% (4)	0% (3)	5% (6)	33% (8)

W4	N	No N=3,658	Some N=673	A lot N=123	Unable N=24
D1.2	4,478				
None		83% (3,042)	34% (231)	15% (19)	8% (2)
Mild + Moderate		16% (585)	62% (416)	50% (62)	8% (2)
Severe		1% (30)	4% (26)	29% (36)	42% (10)
Extreme		0% (1)	0% (0)	5% (6)	42% (10)



Crosstab: Cognition (cont.)

W4	N	No	Some	A lot	Unable
		N=3,658	N=673	N=123	N=24
D1.1 + D1.2	4,478				
None		78% (2,841)	26% (175)	11% (14)	8% (2)
Mild + Moderate		21% (777)	69% (461)	51% (63)	4% (1)
Severe		1% (36)	5% (34)	31% (38)	38% (9)
Extreme		0% (4)	0% (3)	7% (8)	50% (12)



Crosstab: Communication

W5	N	No N=4,294	Some N=116	A lot N=39	Unable N=30
D3.1	4,479				
None		97% (4,178)	47% (55)	21% (8)	10% (3)
Mild + Moderate		2% (100)	40% (46)	46% (18)	7% (2)
Severe		0% (15)	13% (15)	23% (9)	17% (5)
Extreme		0% (1)	0% (0)	10% (4)	67% (20)

W5	N	No N=4,224	Some N=74	A lot N=13	Unable N=3
D3.2	4,478				
None		98% (4,224)	64% (74)	33% (13)	10% (3)
Mild + Moderate		1% (64)	28% (33)	51% (20)	17% (5)
Severe		0% (5)	8% (9)	15% (6)	20% (6)
Extreme		0% (0)	0% (0)	0% (0)	53% (16)



Crosstab: Communication

W5	N	No	Some	A lot	Unable
		N=4,294	N=116	N=39	N=30

D3.1 + D3.2	4,479				
None		97% (4,161)	41% (48)	18% (7)	7% (2)
Mild + Moderate		3% (116)	43% (50)	46% (18)	10% (3)
Severe		0% (16)	16% (18)	26% (10)	17% (5)
Extreme		0% (1)	0% (0)	10% (4)	67% (20)



Crosstab: Self care

W6	N	No N=4,093	Some N=271	A lot N=63	Unable N=25
D1.5	4,452				
None		89% (3,642)	46% (126)	37% (23)	16% (4)
Mild + Moderate		11% (434)	49% (132)	44% (28)	20% (5)
Severe		0% (14)	4% (10)	14% (9)	20% (5)
Extreme		0% (3)	1% (3)	5% (3)	44% (11)

W6	N	No N=4,092	Some N=272	A lot N=63	Unable N=25
D1.6	4,452				
None		89% (3,638)	49% (133)	32% (20)	4% (1)
Mild + Moderate		10% (429)	47% (128)	38% (24)	12% (3)
Severe		0% (18)	4% (10)	22% (14)	16% (4)
Extreme		0% (7)	0% (1)	8% (5)	68% (17)



Crosstab: Self care (cont.)

W6	N	No N=4,096	Some N=272	A lot N=63	Unable N=25
D1.5 + D1.6	4,456				
None		84% (3,453)	36% (97)	27% (17)	4% (1)
Mild + Moderate		15% (609)	58% (158)	40% (25)	12% (3)
Severe		1% (26)	5% (14)	22% (14)	16% (4)
Extreme		0% (8)	1% (3)	11% (7)	68% (17)



Summary of Crosstab

In general:

- Good overlap in 'no' 'some' and 'unable' responses
- Poor overlap in 'severe' / 'a lot'
- Vision poor overlap in 'unable'
- Communication poor overlap in 'some'



Further Assess WHO Qs



Question

- Which domains are more 'statistically important' within WHO's question set?



Loading of WHO questions

Factors	Questions	Domains
1	d5.1 ~ d5.8	day-to-day life
2	d4.1 ~ d4.3	getting along with people
3	d6.5 ~ d6.7	financial resources and emotion
4	d3.1 d3.2	self care
5	d2.1 d2.5	mobility
6	b1.8 b1.9	hearing
7	b1.1 b1.2	pain and discomfort
8	b1.16 b1.17	sadness and anxiety
9	d1.4 d1.5	understanding (communication?) and learning (cognition?)
10	b1.6 b1.7	seeing



Thank you!