



## Diretrizes analíticas:

# Criação de identificadores de incapacidade por meio da sintaxe SPSS do Conjunto Alargado sobre Funcionalidade do Washington Group (WG-ES)

## Introdução

Tal como no caso do Conjunto Reduzido sobre Funcionalidade do WG (WG-SS), a análise do Conjunto Alargado sobre Funcionalidade do WG (WG-ES) também pode gerar vários identificadores de incapacidade com base na escolha do ponto de corte ou limiar de gravidade. Porém, a sintaxe SPSS prevê o cálculo de identificadores de incapacidade a partir de diferentes conjuntos de domínios do WG-ES, usando o ponto de corte recomendado para comparações internacionais (descrito abaixo).

Para cada um dos identificadores de incapacidade descritos, o nível de inclusão é de pelo menos um domínio/pergunta codificado com MUITA DIFICULDADE ou NÃO CONSEGUE – ou – para os domínios da ansiedade, da depressão, da dor e da fadiga, o nível mais elevado de dificuldade numa escala de quatro pontos.

Cada um dos quatro identificadores de incapacidade descritos neste documento está definido com base na escolha dos domínios de funcionalidade incluídos:

**WG-SS:** *Conjunto Reduzido*: 6 domínios, 6 perguntas.

**WG-ES 1:** *Conjunto Alargado*: 11 domínios, 25 perguntas.

**WG-ES 2:** *Conjunto Alargado Modificado* (WG-ES MENOS Dor e Fadiga): 9 domínios, 20 perguntas.

**WG-ES 3:** *Conjunto Reduzido Melhorado* (WG-SS MAIS Parte superior do corpo, Ansiedade e Depressão): 9 domínios, 12 perguntas.

**NOTA:** para as análises de dados, use as suas técnicas de ponderação e estimação normais.

Os **Documentos de Implementação do Washington Group** abrangem as ferramentas desenvolvidas pelo Washington Group sobre Estatísticas de Incapacidade (WG) para a recolha de dados sobre incapacidade internacionalmente comparáveis em censos e inquéritos. Os documentos abordam melhores práticas na implementação do Conjunto Reduzido, do Conjunto Alargado, do Conjunto Reduzido – Melhorado, dos Módulos sobre Funcionalidade da Criança do WG/UNICEF para crianças dos 2 aos 4 e dos 5 aos 17 anos e do Módulo sobre Incapacidade do IFT do WG/OIT, bem como de outras ferramentas do WG. Os temas incluem: tradução, especificações das perguntas, diretrizes analíticas, código de programação para análise, utilização de ferramentas para efeitos de desagregação e não só.

Para localizar outros Documentos de Implementação do WG e mais informações, visite o *sítio web* do Washington Group:  
<http://www.washingtongroup-disability.com/>.

Para mais informações acerca do

Washington Group sobre Estatísticas de Incapacidade, visite:

<http://www.washingtongroup-disability.com/>.

A sintaxe SPSS baseia-se nas *etiquetas de variáveis* indicadas no quadro abaixo. O módulo WG-ES completo inclui mais perguntas do que as apresentadas no quadro. O estado de incapacidade é determinado através da dificuldade nas atividades universais básicas sem uso de tecnologia de assistência ou outro auxílio. Há várias perguntas sobre mobilidade, por exemplo, que fazem referência à dificuldade em andar *sem* uso de assistência. Tais perguntas não estão incluídas no plano analítico aqui facultado; porém, podem ser usadas noutras análises que examinem mais de perto o efeito da tecnologia de assistência (facilitadores ambientais) na funcionalidade.

Somente as perguntas/variáveis abaixo são usadas na determinação de identificadores de incapacidade. **Certifique-se de usar as mesmas *etiquetas de variáveis* OU reveja a sintaxe SPSS para refletir as *etiquetas de variáveis* na sua base de dados.**

O WG-SS é ministrado como parte do National Health Interview Survey (NHIS) dos EUA. Os dados usados na preparação destas diretrizes são provenientes do NHIS de 2013.

*Nota para os utilizadores do NHIS: os nomes de variáveis no ficheiro de dados e na documentação do NHIS podem diferir dos usados neste documento; ou seja, a variável do domínio dos autocuidados referenciada como SC-SS neste documento é designada como UB-SS no ficheiro de dados e na documentação do NHIS.*

Perguntas/domínios do Conjunto Alargado do WG	Etiqueta da variável	Padrão de resposta
<b>VISÃO</b>		
<b>1. Tem dificuldade em ver, mesmo usando óculos?</b>	VIS_SS	1
<b>COMUNICAÇÃO</b>		
<b>2. Usando a sua linguagem habitual, tem dificuldade em comunicar (por exemplo, compreender ou fazer-se compreender por outros)?</b>	COM_SS	1
<b>AUDIÇÃO</b>		
<b>3. Tem dificuldade em ouvir, mesmo usando um aparelho auditivo?</b>	HEAR_SS	1
<b>4. Tem dificuldade em ouvir uma conversa com uma pessoa numa sala sossegada?</b>	HEAR_3	1
<b>5. Tem dificuldade em ouvir uma conversa com uma pessoa numa sala mais ruidosa?</b>	HEAR_4	1
<b>COGNIÇÃO</b>		
<b>6. Tem dificuldade em lembrar-se ou concentrar-se?</b>	COG_SS	1
<b>7. Dificuldade em lembrar-se, em concentrar-se ou em ambas?</b>	COG_1	2
<b>8. Com que frequência tem dificuldade em lembrar-se?</b>	COG_2	3
<b>9. Quantidade de coisas de que tem dificuldade em lembrar-se?</b>	COG_3	4
<b>AUTOCUIDADOS/PARTE SUPERIOR DO CORPO</b>		

<b>10. Tem dificuldade em (autocuidados como) tomar banho ou vestir-se?</b>	SC_SS	1
<b>11. Dificuldade em levantar uma garrafa de 2 litros de água do nível da cintura até ao nível dos olhos?</b>	UB_1	1
<b>12. Grau de dificuldade em usar as mãos e os dedos</b>	UB_2	1
<b>MOBILIDADE</b>		
<b>13. Tem dificuldade em andar ou subir degraus?</b>	MOB_SS	1
<b>14. Dificuldade em andar 100 metros em terreno plano sem ajuda nem equipamento?</b>	MOB_4	1
<b>15. Dificuldade em andar 500 metros em terreno plano sem ajuda nem equipamento?</b>	MOB_5	1
<b>16. Dificuldade em subir ou descer 12 degraus sem ajuda nem equipamento?</b>	MOB_6	1
<b>SENTIMENTO (ANSIEDADE)</b>		
<b>17. Com que frequência se sente preocupado(a), nervoso(a) ou ansioso(a)?</b>	ANX_1	5
<b>18. Nível dos sentimentos na última vez em que se sentiu preocupado(a), nervoso(a) ou ansioso(a)?</b>	ANX_3	6
<b>SENTIMENTO (DEPRESSÃO)</b>		
<b>19. Com que frequência se sente deprimido(a)?</b>	DEP_1	5
<b>20. Que nível de depressão sentiu na última vez em que esteve deprimido(a)?</b>	DEP_3	6
<b>DOR</b>		
<b>21. Frequência da dor nos últimos 3 meses?</b>	PAIN_2	7
<b>22. Que nível de dor sentiu na última vez em que sentiu dor?</b>	PAIN_4	6
<b>FADIGA</b>		
<b>23. Com que frequência se sentiu muito cansado(a) ou exausto(a) nos últimos 3 meses?</b>	TIRED_1	7
<b>24. Quanto tempo duraram as mais recentes sensações de cansaço ou exaustão?</b>	TIRED_2	8
<b>25. Nível de cansaço na última vez em que se sentiu muito cansado(a) ou exausto(a)?</b>	TIRED_3	6

**NOTA:** **Vermelho** refere-se ao Conjunto Reduzido do Washington Group (**WG-SS**).

Todas as 25 perguntas estão incluídas no **WG-ES 1**.

As perguntas **Vermelhas** mais **Azuis** mais **Verdes** estão

incluídas no **WG-ES 2**. As perguntas **Vermelhas** mais **Verdes**

estão incluídas no **WG-ES 3**.

**Padrões de resposta:**

	<b>Padrão 1</b>	<b>Padrão 2</b>	<b>Padrão 3</b>	<b>Padrão 4</b>
1	Nenhuma dificuldade	Dificuldade só em lembrar-se	Às vezes	Algumas coisas
2	Sim, alguma dificuldade	Dificuldade só em concentrar-se	Frequentemente	Muitas coisas
3	Sim, muita dificuldade	Dificuldade em lembrar-se e em concentrar-se	Sempre	Quase tudo
4	Não consegue			
7	Recusou			
8	Não determinado			
9	Não sabe			

	<b>Padrão 5</b>	<b>Padrão 6*</b>	<b>Padrão 7</b>	<b>Padrão 8</b>
1	Diariamente	Leve	Nunca	Uma parte do dia
2	Semanalmente	Intenso	Alguns dias	A maior parte do dia
3	Mensalmente	Algo entre leve e intenso	A maioria dos dias	Todo o dia
4	Algumas vezes por ano		Todos os dias	
5	Nunca			
7	Recusou			
8	Não determinado			
9	Não sabe			

**\* NA SINTAXE ABAIXO, NOTE QUE OS ITENS COM O PADRÃO DE RESPOSTA 6 (ANX\_3, DEP\_3, PAIN\_4 E TIRED\_3) ESTÃO RECODIFICADOS PARA QUE “ALGO ENTRE” FIQUE NUMERICAMENTE POSICIONADO ENTRE “LEVE” E “INTENSO”.**

O WG-SS está incorporado no WG-ES. O WG-ES é complementado com:

- perguntas adicionais para os seis domínios existentes e
- domínios adicionais (alguns com várias perguntas).

A sintaxe SPSS apresentada abaixo inclui alguns elementos específicos do conteúdo do WG-ES.

Em primeiro lugar, é importante definir identificadores únicos específicos para os domínios de funcionalidade que incluam várias perguntas. Por exemplo, a funcionalidade da parte superior do corpo inclui duas perguntas, com cada uma a evocar uma ação específica e única: dificuldade em levantar uma garrafa do nível da cintura até ao nível dos olhos (braços/ombros) e dificuldade em usar

as mãos e os dedos. Estas duas perguntas foram analisadas e combinadas para gerar um indicador único da parte superior do corpo com quatro níveis de dificuldade que vão de 1 – dificuldade baixa a 4 – dificuldade elevada, um pouco como as categorias de resposta às perguntas únicas do WG-SS: “nenhuma dificuldade”, “alguma dificuldade”, “muita dificuldade” e “não consegue”. Tal como acontece com o domínio da parte superior do corpo, os domínios do WG-ES respeitantes à cognição, à ansiedade, à depressão, à dor e à fadiga têm diferentes padrões de resposta que não se “convertem” prontamente no padrão de resposta habitual do WG. Para esses domínios de funcionalidade, foi elaborado e anotado um padrão de resposta com uma escala de quatro níveis, de 1 a 4, em que 1 é o mais baixo nível de dificuldade e 4 o mais elevado.

Em segundo lugar, foram aferidos indicadores de domínios individuais a fim de determinar o ponto de corte adequado para inclusão num identificador de incapacidade geral, com o propósito de estimar a prevalência e desagregar os indicadores de resultados por estado de incapacidade.

**NOTA:**

Para todas as variáveis, os códigos (7) *Recusou*, (8) *Não determinado* e (9) *Não sabe* são recodificados como *Em falta*.

**SPSS WG Extended Set Syntax Annotated with Output Tables**

Actual SPSS syntax is indented and the commands are in **BOLD text**.

NOTE: For data analysis, use your standard weighting and estimation techniques.

The syntax below produces **frequency distributions** on individual domain questions – **cross-tabulations** on multiple domain questions, and calculates INDICATOR variables for domains with multiple questions – for use in the determination of disability identifiers.

**VISION**

*Step 1. Generate frequency distribution for Vision domain.*

VIS\_SS is the WG-SS Vision question.

No recoding – the Short Set question is used in the determination of disability identifiers.

**FREQUENCIES VIS\_SS**

		VIS_SS		Valid Percent	Cumulative Percent
		Frequency	Percent		
Valid	No difficulty	13690	79.0	81.6	81.6
	Some difficulty	2708	15.6	16.2	97.8
	A lot of difficulty	333	1.9	2.0	99.8
	Cannot do at all	36	.2	.2	100.0
	Total	16767	96.8	100.0	

Missing	559	3.2		
Total	17326	100.0		

## COMMUNICATION

Step 2. Generate frequency distribution for Communication domain.

COM\_SS is the WG-SS Communication question.

No recoding – the Short Set question is used in the determination of disability identifiers.

### FREQUENCIES COM\_SS

		COM_SS		Valid Percent	Cumulative Percent
		Frequency	Percent		
Valid	No difficulty	15874	91.6	94.7	94.7
	Some difficulty	745	4.3	4.4	99.2
	A lot of difficulty	94	.5	.6	99.7
	Cannot do at all	43	.2	.3	100.0
	Total	16756	96.7	100.0	
Missing		570	3.3		
Total		17326	100.0		

## HEARING

Step 3. Generate frequency distributions and cross-tabulations for Hearing domain questions and determine Hearing Indicator

HEAR\_SS is the WG-SS Hearing question.

HEAR\_3 is *Difficulty hearing conversation with one person in quiet room.*

HEAR\_4 is *Difficulty hearing one person in noisier room.*

### FREQUENCIES HEAR\_SS HEAR\_3 HEAR\_4.

		HEAR_SS		Valid Percent	Cumulative Percent
		Frequency	Percent		
Valid	No difficulty	13680	79.0	81.6	81.6
	Some difficulty	2753	15.9	16.4	98.0
	A lot of difficulty	310	1.8	1.8	99.9
	Cannot do at all	23	.1	.1	100.0
	Total	16766	96.8	100.0	
Missing		560	3.2		
Total		17326	100.0		

Para mais informações acerca do

Washington Group sobre Estatísticas de Incapacidade, visite:

<http://www.washingtongroup-disability.com/>.

**HEAR\_3: Difficulty hearing conversation with one person in quiet room**

		Frequency	Percent	Valid Percent	Cumulative Percent
Valid	No difficulty	15249	88.0	91.0	91.0
	Some difficulty	1316	7.6	7.9	98.9
	A lot of difficulty	162	.9	1.0	99.9
	Cannot do at all	10	.1	.1	100.0
	Total	16737	96.6	100.0	
Missing		589	3.4		
Total		17326	100.0		

**HEAR\_4: Difficulty hearing one person in noisier room**

		Frequency	Percent	Valid Percent	Cumulative Percent
Valid	No difficulty	11697	67.5	70.0	70.0
	Some difficulty	4191	24.2	25.1	95.1
	A lot of difficulty	779	4.5	4.7	99.7
	Cannot do at all	48	.3	.3	100.0
	Total	16715	96.5	100.0	
Missing		611	3.6		
Total		17326	100.0		

Step 4. For Hearing questions, recode Hear\_3 and Hear\_4 to value 4 (cannot do at all) if Hear\_SS is 4 (Cannot do at all).

The syntax below recodes Hear\_3 and Hear\_4 to 4 (cannot do at all) if Hear\_SS is 4 (cannot do at all).

**IF** HEAR\_SS = 4 HEAR\_3 = 4.

**IF** HEAR\_SS = 4 HEAR\_4 = 4.

**FREQUENCIES** HEAR\_3 HEAR\_4.

**HEAR\_3: Difficulty hearing conversation with one person in quiet room**

		Frequency	Percent	Valid Percent	Cumulative Percent
Valid	No difficulty	15249	88.0	91.0	91.0
	Some difficulty	1316	7.6	7.9	98.8
	A lot of difficulty	162	.9	1.0	99.8
	Cannot do at all	33	.2	.2	100.0
	Total	16760	96.7	100.0	
Missing		566	3.3		
Total		17326	100.0		

Para mais informações acerca do

Washington Group sobre Estatísticas de Incapacidade, visite:

<http://www.washingtongroup-disability.com/>.

### HEAR\_4: Difficulty hearing one person in noisier room

		Frequency	Percent	Valid Percent	Cumulative Percent
Valid	No difficulty	11697	67.5	69.9	69.9
	Some difficulty	4191	24.2	25.0	94.9
	A lot of difficulty	779	4.5	4.7	99.6
	Cannot do at all	71	.4	.4	100.0
	Total	16738	96.6	100.0	
Missing		588	3.4		
Total		17326	100.0		

Step 5. Generate a cross-tabulation of the two Hearing Extended Set questions: HEAR\_3 and HEAR\_4.

The syntax below produces a cross-tabulation of the two Extended Set questions: HEAR\_3: *Difficulty hearing in a quiet room* and HEAR\_4: *Difficulty hearing in a noisier room* to determine a single HEARING INDICATOR.

### CROSSTABS HEAR\_4 BY HEAR\_3.

HEAR_4 (Difficulty hearing in a Noisier room)		HEAR_3: Difficulty hearing conversation with one person in quiet room				Total
		No difficulty	Some difficulty	A lot of difficulty	Cannot do at all	
No difficulty		11603	94	0	0	11697
Some difficulty		3373	809	8	0	4190
A lot of difficulty		253	388	138	0	779
Cannot do at all		8	24	16	23	71
Total		15237	1315	162	23	16737

Step 6. Create a HEARING INDICATOR (H\_INDICATOR) based on the two additional hearing questions HEAR\_3 and HEAR\_4.

The syntax below creates a HEARING INDICATOR (H\_INDICATOR) based on the cross-tabulation of the two additional hearing questions HEAR\_3 and HEAR\_4.

**COMPUTE** H\_INDICATOR = 0.

**IF** (HEAR\_3 = 1 AND HEAR\_4 = 1) OR (HEAR\_3 = 1 AND HEAR\_4 = 2) H\_INDICATOR = 1.

**IF** (HEAR\_3 = 2 AND (HEAR\_4 = 1 OR HEAR\_4 = 2)) OR (HEAR\_3 = 1 AND HEAR\_4 = 3) H\_INDICATOR = 2.

**IF** (HEAR\_3 = 3 AND (HEAR\_4 = 1 OR HEAR\_4 = 2) OR (HEAR\_3 = 2 AND HEAR\_4 = 3) OR (HEAR\_3 = 1 AND HEAR\_4 = 4)) H\_INDICATOR = 3.

**IF** ((HEAR\_3 = 3 AND HEAR\_4 = 3) OR HEAR\_3 = 4 OR (HEAR\_4 = 4 AND (HEAR\_3 = 2 OR HEAR\_3 = 3))) H\_INDICATOR = 4.



## FREQUENCIES H\_INDICATOR.

		H_INDICATOR			
		Frequency	Percent	Valid Percent	Cumulative Percent
Valid	1.00	14976	86.4	89.4	89.4
	2.00	1156	6.7	6.9	96.3
	3.00	404	2.3	2.4	98.7
	4.00	211	1.2	1.3	100.0
	Total	16747	96.7	100.0	
Missing		579	3.3		
Total		17326	100.0		

### COGNITION: Degree of difficulty remembering or concentrating

Step 7. Generate frequency distributions and cross-tabulations for Cognition domain questions and determine a Cognition Indicator.

COG\_SS is the WG-SS Cognition question.

Frequency distribution of the WG-SS cognition question: COG\_SS.

## FREQUENCIES COG\_SS.

### Degree of difficulty remembering or concentrating

		Frequency	Percent	Valid Percent	Cumulative Percent
Valid	No difficulty	13719	79.2	81.9	81.9
	Some difficulty	2632	15.2	15.7	97.6
	A lot of difficulty	382	2.2	2.3	99.9
	Cannot do at all	20	.1	.1	100.0
	Total	16753	96.7	100.0	
Missing		573	3.3		
Total		17326	100.0		

If response to COG-SS is *some difficulty*, *a lot of difficulty* or *cannot do at all*, then the respondent is asked COG\_1: whether they have difficulty remembering, concentrating or both.

**FREQUENCIES** COG\_1.

**COG\_1: Difficulty remembering, concentrating, or both?**

		Frequency	Percent	Valid Percent	Cumulative Percent
Valid	Difficulty remembering only	983	5.7	32.4	32.4
	Difficulty concentrating only	388	2.2	12.8	45.2
	Difficulty with both remembering and concentrating	1659	9.6	54.8	100.0
	Total	3030	17.5	100.0	
Missing		14296	82.5		
Total		17326	100.0		

Step 8. Account for those who did not answer COG\_1 (COG\_SS is 1 – no difficulty and they were skipped) by recoding COG\_1 to 0 (No difficulty).

If response to COG-SS is 1: *no difficulty*, then the variable COG\_1 is recoded into COG\_1A, and the value assigned is 0: *no difficulty*.

**COMPUTE** COG\_1A = COG\_1.

**IF** (COG\_SS = 1) COG\_1A = 0.

**FREQUENCIES** COG\_1A.

**COG\_1A**

		Frequency	Percent	Valid Percent	Cumulative Percent
Valid	No difficulty	13719	79.2	81.9	81.9
	Difficulty remembering only	983	5.7	5.9	87.8
	Difficulty concentrating only	388	2.2	2.3	90.1
	Difficulty with both remembering and concentrating	1659	9.6	9.9	100.0
	Total	16749	96.7	100.0	
Missing		577	3.3		
Total		17326	100.0		

Step 9. Generate frequency distribution for remaining cognition questions.

Frequency distribution of the Cognition extended REMEMBERING questions: COG\_2 *How often have difficulty remembering*, and COG\_3 *Amount of things you have difficulty remembering*.

**FREQUENCIES** COG\_2 COG\_3.

### COG\_2: How often have difficulty remembering?

		Frequency	Percent	Valid Percent	Cumulative Percent
Valid	Sometimes	1916	11.1	72.4	72.4
	Often	513	3.0	19.4	91.8
	All of the time	216	1.2	8.2	100.0
	Total	2645	15.3	100.0	
Missing		14681	84.7		
Total		17326	100.0		

### COG\_3: Amount of things you have difficulty remembering?

		Frequency	Percent	Valid Percent	Cumulative Percent
Valid	A few things	2119	12.2	80.3	80.3
	A lot of things	386	2.2	14.6	94.9
	Almost everything	134	.8	5.1	100.0
	Total	2639	15.2	100.0	
Missing		14687	84.8		
Total		17326	100.0		

Step 10. Generate cross-tabulation of the two Cognition extended set questions COG\_2 by COG\_3.

The syntax below produces a cross-tabulation of the two Extended Set REMEMBERING questions: COG\_2: How often you have difficulty remembering and COG\_3: The amount of things you have difficulty remembering to determine a single REMEMBERING INDICATOR.

#### CROSSTABS COG\_2 BY COG\_3.

COG_2: How often do you have difficulty remembering?		COG_3: Amount of things you have difficulty remembering?			
		A few things	A lot of things	Almost everything	Total
How often have difficulty remembering?	Sometimes	1788	105	20	1913
	Often	279	197	34	510
	All of the time	51	84	80	215
Total		2118	386	134	2638

Step 11. Create a Remembering Indicator based on distribution of COG\_2 and COG\_3.

The syntax below creates a REMEMBERING INDICATOR (R\_INDICATOR) based on the two additional remembering questions (COG\_2 and COG\_3).

If COG\_SS is 1: no difficulty, then the Remembering Indicator is coded as 1: the lowest level of difficulty.

**COMPUTE** R\_INDICATOR = 0.  
**IF** (COG\_SS = 1) R\_INDICATOR = 1.  
**IF** ((COG\_2 = 1 AND COG\_3 = 1) OR (COG\_3 = 1 AND COG\_2 = 2) OR (COG\_3 = 2 AND COG\_2 = 1)) R\_INDICATOR = 2.  
**IF** (COG\_3 = 2 AND COG\_2 = 2) R\_INDICATOR = 3.  
**IF** (COG\_3 = 3 OR COG\_2 = 3) R\_INDICATOR = 4.  
**FREQUENCIES** R\_INDICATOR.

*Step 12. If COG\_1A is coded as 2 (concentrating only), then the Remembering Indicator is coded as 5.*

These 388 individuals are respondents who were not included in the Remembering Indicator since they had only difficulty concentrating.

**IF** (COG\_1A = 2) R\_INDICATOR = 5.

*Step 13. Generate frequency distribution of the Remembering Indicator.*

**FREQUENCIES** R\_INDICATOR.

		<b>R_INDICATOR</b>			
		Frequency	Percent	Valid Percent	Cumulative Percent
Valid	.00	580	3.3	3.3	3.3
	<b>1.00</b>	13719	79.2	79.2	82.5
	<b>2.00</b>	2172	12.5	12.5	95.1
	<b>3.00</b>	197	1.1	1.1	96.2
	<b>4.00</b>	270	1.6	1.6	97.8
	<b>5.00</b>	388	2.2	2.2	100.0
Total		17326	100.0	100.0	

*Step 14. Supplement Remembering Indicator with information on difficulty concentrating.*

The syntax below adds information on whether cognitive difficulties are compounded by difficulty concentrating in addition to difficulty remembering.

Create a COGNITION INDICATOR (COG\_INDICATOR) based on R\_INDICATOR (above) and the cognition question (COG\_1).

The 388 individuals with ‘concentrating only’ were allocated as follows:

1. 357 with a little difficulty on COG\_SS question were classified as **2**
2. 30 with a lot of difficulty on COG\_SS question were classified as **3**
3. 1 with cannot do on COG\_SS question was classified as **4**

Those with both remembering and concentrating difficulty were upgraded 36 individuals from **2** to **3**, and 125 individuals from **3** to **4**.

**COMPUTE** COG\_INDICATOR = 0.  
**COMPUTE** COG\_INDICATOR = R\_INDICATOR.

**IF** (R\_INDICATOR = 5 AND COG\_SS = 2) COG\_INDICATOR = 2.  
**IF** (R\_INDICATOR = 5 AND COG\_SS = 3) COG\_INDICATOR = 3.  
**IF** (R\_INDICATOR = 5 AND COG\_SS = 4) COG\_INDICATOR = 4.

**IF** (R\_INDICATOR = 2 AND COG\_1 = 3 AND COG\_SS = 3) COG\_INDICATOR = 3.  
**IF** (R\_INDICATOR = 3 AND COG\_1 = 3 AND COG\_SS = 3) COG\_INDICATOR = 4.

Step 15. Generate frequency distribution of the Cognition Indicator.

**FREQUENCIES** COG\_INDICATOR.

		COG_INDICATOR			
		Frequency	Percent	Valid Percent	Cumulative Percent
Valid	.00	580	3.3	3.3	3.3
	<b>1.00</b>	13719	79.2	79.2	82.5
	<b>2.00</b>	2449	14.1	14.1	96.7
	<b>3.00</b>	226	1.3	1.3	98.0
	<b>4.00</b>	352	2.0	2.0	100.0
Total		17326	100.0	100.0	

## UPPER BODY

Step 16. Generate frequency distributions and cross-tabulations for Self-care and Upper body domain questions and determine the Upper Body Indicator.

SC\_SS is the WG-SS Self-care question.

UB\_1 is *Difficulty raising 2 liter bottle of water from waist to eye level.*

UB\_2 is *Difficulty using hands and fingers*

First, calculate frequency distributions on the short set and two extended set questions.

**FREQUENCIES** SC\_SS UB\_1 UB\_2.

		SC_SS: Degree of difficulty with self-care			
		Frequency	Percent	Valid Percent	Cumulative Percent
Valid	No difficulty	16029	92.5	95.7	95.7
	Some difficulty	544	3.1	3.2	98.9
	A lot of difficulty	114	.7	.7	99.6
	Cannot do at all	68	.4	.4	100.0
	Total	16755	96.7	100.0	
Missing		571	3.3		
Total		17326	100.0		

**UB\_1: Diff raising 2 liter bottle of water from waist to eye level**

		Frequency	Percent	Valid Percent	Cumulative Percent
Valid	No difficulty	15677	90.5	93.6	93.6
	Some difficulty	743	4.3	4.4	98.0
	A lot of difficulty	167	1.0	1.0	99.0
	Cannot do at all	166	1.0	1.0	100.0
	Total	16753	96.7	100.0	
Missing		573	3.3		
Total		17326	100.0		

**UB\_2: Degree of difficulty using hands and fingers**

		Frequency	Percent	Valid Percent	Cumulative Percent
Valid	No difficulty	15199	87.7	90.7	90.7
	Some difficulty	1229	7.1	7.3	98.1
	A lot of difficulty	255	1.5	1.5	99.6
	Cannot do at all	70	.4	.4	100.0
	Total	16753	96.7	100.0	
Missing		573	3.3		
Total		17326	100.0		

Step 17. Generate a cross-tabulation of the two Upper body Extended Set questions: UB\_2 and UB\_1.

The syntax below produces a cross-tabulation of the two Extended Set questions: UB\_1: *Difficulty raising a 2 liter bottle of water from waste to eye level* UB\_2: *Difficulty using hands and fingers* to determine a single UPPER BODY INDICATOR (UB\_INDICATOR).

**CROSSTABS** UB\_2 BY UB\_1.

UB_2: Difficulty using hands and fingers		UB_1: Diff raising 2 liter bottle of water from waist to eye level				
		No difficulty	Some difficulty	A lot of difficulty	Cannot do at all	Total
Degree of difficulty using hands and fingers	No difficulty	14786	309	58	44	15197
	Some difficulty	782	355	51	40	1228
	A lot of difficulty	98	73	51	33	255
	Cannot do at all	9	5	7	49	70
Total		15675	742	167	166	16750

Step 18. Create an UPPER BODY INDICATOR (UB\_INDICATOR) based on the two additional upper body questions UB\_2 and UB\_3.

Syntax below creates UB\_INDICATOR based on the distribution in the cross-tabulation above.

**COMPUTE** UB\_INDICATOR = 0.

**IF** (UB\_1 = 4 OR UB\_2 = 4) UB\_INDICATOR = 4.

**IF** UB\_INDICATOR NE 4 AND (UB\_1 = 3 OR UB\_2 = 3) UB\_INDICATOR = 3.

**IF** UB\_INDICATOR NE 4 AND UB\_INDICATOR NE 3 AND (UB\_1 = 2 OR UB\_2 = 2) UB\_INDICATOR = 2.

**IF** UB\_INDICATOR NE 4 AND UB\_INDICATOR NE 3 AND UB\_INDICATOR NE 2 AND (UB\_1 = 1 OR UB\_2 = 1) UB\_INDICATOR = 1.

**FREQUENCIES** UB\_INDICATOR.

		UB_INDICATOR			
		Frequency	Percent	Valid Percent	Cumulative Percent
Valid	1.00	14790	85.4	88.3	88.3
	2.00	1448	8.4	8.6	96.9
	3.00	331	1.9	2.0	98.9
	4.00	187	1.1	1.1	100.0
	Total	16756	96.7	100.0	
Missing		570	3.3		
Total		17326	100.0		

## MOBILITY

*Step 19. Generate frequency distributions and cross-tabulations for Mobility domain questions and determine Mobility Indicator.*

MOB\_SS is the WG-SS Mobility question.

MOB\_4 is Difficulty walking 100 yards on level ground without aid or equipment.

MOB\_5 is Difficulty walking 1/3rd mile on level ground without aid or equipment.

First, calculate frequency distributions on the short set and two extended set WALKING questions.

**FREQUENCIES** MOB\_SS MOB\_4 MOB\_5.

		MOB_SS			
		Frequency	Percent	Valid Percent	Cumulative Percent
Valid	No difficulty	13424	77.5	80.1	80.1
	Some difficulty	2165	12.5	12.9	93.0
	A lot of difficulty	792	4.6	4.7	97.7
	Cannot do at all	380	2.2	2.3	100.0
	Total	16761	96.7	100.0	
Missing		565	3.3		
Total		17326	100.0		

Para mais informações acerca do

Washington Group sobre Estatísticas de Incapacidade, visite:

<http://www.washingtongroup-disability.com/>.

**MOB\_4: Diff walking 100 yards on level ground w/o aid or equipment**

		Frequency	Percent	Valid Percent	Cumulative Percent
Valid	No difficulty	13892	80.2	84.8	84.8
	Some difficulty	1369	7.9	8.4	93.2
	A lot of difficulty	491	2.8	3.0	96.2
	Cannot do at all	<b>623</b>	3.6	3.8	100.0
	Total	16375	94.5	100.0	
Missing		951	5.5		
Total		17326	100.0		

**MOB\_5: Diff walking 1/3rd mile on level ground w/o aid or equipment**

		Frequency	Percent	Valid Percent	Cumulative Percent
Valid	No difficulty	13025	75.2	82.8	82.8
	Some difficulty	1650	9.5	10.5	93.3
	A lot of difficulty	708	4.1	4.5	97.8
	Cannot do at all	347	2.0	2.2	100.0
	Total	15730	90.8	100.0	
Missing		1596	9.2		
Total		17326	100.0		

Step 20. Generate a cross-tabulation of the walking distance questions: MOB\_4 and MOB\_5.

The syntax below produces a cross-tabulation of the two Extended Set WALKING questions: MOB\_4: *Difficulty walking 100 yards without equipment* and MOB\_5: *Difficulty walking 1/3 mile without equipment* to determine a single WALKING INDICATOR.

NOTE: **623** individuals who responded cannot do at all to MOB\_4 were not asked MOB\_5 and they do not appear in the table below. They are, however, accounted for in the WALKING indicator calculation.

**CROSSTABS MOB\_4 BY MOB\_5.**

MOB_4: Diff walking 100 yards on level ground w/o aid or equipment	MOB_5: Diff walking 1/3rd mile on level ground w/o aid or equipment				
	No difficulty	Some difficulty	A lot of difficulty	Cannot do at all	Total
No difficulty	<b>12950</b>	<b>819</b>	<b>63</b>	<b>39</b>	13871
Some difficulty	<b>72</b>	<b>810</b>	<b>343</b>	<b>142</b>	1367
A lot of difficulty	<b>3</b>	<b>21</b>	<b>301</b>	<b>166</b>	491
Cannot do at all ( <b>623</b> )	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	
Total	13025	1650	707	347	15729



Step 21. Create a WALKING INDICATOR (WALK\_INDICATOR) based on the two additional walking questions MOB\_4 and MOB\_5.

Syntax below creates WALKING\_INDICATOR based on the distribution in the cross-tabulation above.

```

COMPUTE WALK_INDICATOR = 0.
IF (MOB_4 = 1 AND (MOB_5 = 1 OR MOB_5 = 2)) WALK_INDICATOR = 1.
IF (MOB_4 = 1 AND MOB_5 = 3) OR (MOB_4 = 2 AND (MOB_5 = 1 OR MOB_5 = 2 OR MOB_5 = 3)) WALK_INDICATOR = 2.
IF (MOB_4 = 1 AND MOB_5 = 4) OR (MOB_4 = 3 AND (MOB_5 = 1 OR MOB_5 = 2 OR MOB_5 = 3)) WALK_INDICATOR = 3.
IF ((MOB_4 = 2 AND MOB_5 = 4) OR (MOB_4 = 3 AND MOB_5 = 4))
WALK_INDICATOR = 4.
  
```

Syntax below includes the **623** who responded cannot do at all to MOB\_4 into the WALKING INDICATOR.

```

IF (WALK_INDICATOR = 0 AND MOB_4 = 4) WALK_INDICATOR = 4.
RECODE WALK_INDICATOR (0 = SYSMIS).
  
```

**FREQUENCIES** WALK\_INDICATOR.

WALK_INDICATOR					
		Frequency	Percent	Valid Percent	Cumulative Percent
Valid	<b>1.00</b>	13769	79.5	84.2	84.2
	<b>2.00</b>	1288	7.4	7.9	92.1
	<b>3.00</b>	364	2.1	2.2	94.3
	<b>4.00</b>	931	5.4	5.7	100.0
	Total	16352	94.4	100.0	
Missing		974	5.6		
Total		17326	100.0		

Step 22. Supplement Walking Indicator with information on difficulty Climbing steps (MOB\_6).

Syntax below adds information from MOB\_6 on *difficulty climbing up or down 12 steps* to create a combined Mobility Indicator (MOB\_INDICATOR).

**CROSSTABS** WALK\_INDICATOR BY MOB\_6.

		MOB_6: Difficulty climbing up or down 12 steps				
WALK_INDICATOR		No difficulty	Some difficulty	A lot of difficulty	Cannot do at all	Total
walk_INDICATOR2	<b>1.00</b>	13048	645	<b>55</b>	<b>17</b>	13765
	<b>2.00</b>	370	767	<b>135</b>	<b>16</b>	1288
	<b>3.00</b>	43	106	200	14	363

	<b>4.00</b>	79	242	226	384	931
Total		13540	1760	616	431	16347

According to the table above, the syntax below reclassifies:

1. 55 individuals with level **1** on the WALKING INDICATOR as level **2** on the MOBILITY INDICATOR
2. 17 individuals with level **1** on the WALKING INDICATOR and 135 individuals with level **2** on the WALKING INDICATOR as level **3** on the MOBILITY INDICATOR, and
3. 16 individuals with level **2** on the WALKING INDICATOR as level **4** on the MOBILITY INDICATOR.

Step 23. Create a mobility indication (*MOB\_INDICATOR*) with information garnered from cross-tabulation above.

**COMPUTE** MOB\_INDICATOR = WALK\_INDICATOR.

**IF** (WALK\_INDICATOR = 2 AND MOB\_6 = 3) MOB\_INDICATOR = 3.

**IF** (WALK\_INDICATOR = 1 AND MOB\_6 = 3) MOB\_INDICATOR = 2.

**IF** (WALK\_INDICATOR = 2 AND MOB\_6 = 4) MOB\_INDICATOR = 4.

**IF** (WALK\_INDICATOR = 1 AND MOB\_6 = 4) MOB\_INDICATOR = 3.

**FREQUENCIES** MOB\_INDICATOR.

		<b>MOB_INDICATOR</b>			
		Frequency	Percent	Valid Percent	Cumulative Percent
Valid	<b>1.00</b>	13697	79.1	83.8	83.8
	<b>2.00</b>	1192	6.9	7.3	91.1
	<b>3.00</b>	516	3.0	3.2	94.2
	<b>4.00</b>	947	5.5	5.8	100.0
	Total	16352	94.4	100.0	
Missing		974	5.6		
Total		17326	100.0		

## **ANXIETY**

Step 24. Generate frequency distribution on ANX\_1.

First, calculate frequency distributions on ANX\_1: *How often do you feel worried, nervous or anxious?*

**FREQUENCIES** ANX\_1.

		<b>ANX_1: How often feel worried, nervous, or anxious?</b>			
		Frequency	Percent	Valid Percent	Cumulative Percent
Valid	Daily	1632	9.4	9.8	9.8
	Weekly	1872	10.8	11.2	21.0
	Monthly	1558	9.0	9.3	30.4

A few times a year	4898	28.3	29.4	59.7
Never	6714	38.8	40.3	100.0
Total	16674	96.2	100.0	
Missing	652	3.8		
Total	17326	100.0		

Step 25. The syntax below recodes ANX\_3 into ANX\_3Y

- 1) to create a NOT ASKED category based on those who responded NEVER to ANX\_1 and
- 2) to place "SOMEWHERE BETWEEN" numerically in-between "A LITTLE" and "A LOT".

**IF** (ANX\_1 = 5) ANX\_3Y = 0.

**RECODE** ANX\_3 (SYSMIS=SYSMIS) (1=1) (2=3) (3=2) (ELSE=9) INTO ANX\_3Y.

**FREQUENCIES** ANX\_3Y.

#### ANX\_3Y: Level of feelings last time felt worried/nervous/anxious

		Frequency	Percent	Valid Percent	Cumulative Percent
Valid	Not asked	6714	38.8	40.3	40.3
	A little	5700	32.9	34.2	74.5
	In between a little and a lot	3076	17.8	18.5	92.9
	A lot	1176	6.8	7.1	100.0
	Total	16666	96.2	100.0	
Missing		660	3.8		
Total		17326	100.0		

Step 26. Generate a cross-tabulation of the anxiety Extended Set questions: ANX\_1 and ANX\_3Y.

The syntax below produces a cross-tabulation of ANX\_1: *How often you felt worried, nervous or anxious* (a measure of frequency) and ANX\_3Y: *The level of those feeling the last time you felt worried, nervous or anxious* (a measure of intensity) – used to determine a single ANXIETY INDICATOR (ANX\_INDICATOR).

**CROSSTABS** ANX\_3Y BY ANX\_1.

ANX_3Y: Level of feelings last time felt worried, nervous or anxious	ANX_1: How often feel worried, nervous or anxious?					
	Daily	Weekly	Monthly	A Few Times A Year	Never	Total
Not asked	0	0	0	0	6714	6714
A little	489	887	897	3417	0	5690
In between a little and a lot	589	725	535	1221	0	3070
A lot	548	256	123	248	0	1175
Total	1626	1868	1555	4886	6714	16649

Step 27. Create an ANXIETY INDICATOR (ANX\_INDICATOR) based on the two anxiety questions

ANX\_1 and ANX\_3Y.

Syntax below creates ANX\_INDICATOR based on the distribution in the cross-tabulation above.

```

COMPUTE ANX_INDICATOR = 0.
IF (ANX_3Y LE 4 AND (ANX_1 = 4 OR ANX_1 = 5)) ANX_INDICATOR=1.
IF ((ANX_1 = 3) OR (ANX_1 LT 3 AND ANX_3Y=1) OR (ANX_1 = 2 AND ANX_3Y = 2))
ANX_INDICATOR = 2.
IF ((ANX_1 = 1 AND ANX_3Y = 2) OR (ANX_1 = 2 AND ANX_3Y = 3))
ANX_INDICATOR = 3.
IF (ANX_1 = 1 AND ANX_3Y = 3) ANX_INDICATOR = 4.
IF (ANX_1 = 9 OR ANX_3Y = 9) ANX_INDICATOR=9.
VALUE LABELS ANX_INDICATOR 0 'N/A' 9 "DON'T KNOW".
FREQUENCIES ANX_INDICATOR.
  
```

		ANX_INDICATOR			
		Frequency	Percent	Valid Percent	Cumulative Percent
Valid	1.00	11600	67.0	69.7	69.7
	2.00	3656	21.1	22.0	91.6
	3.00	845	4.9	5.1	96.7
	4.00	548	3.2	3.3	100.0
	Total	16649	96.1	100.0	
Missing		677	3.9		
Total		17326	100.0		

## DEPRESSION

Step 28. Generate frequency distribution on DEP\_1.

First, calculate frequency distributions on DEP\_1: *How often do you feel depressed?*

```

FREQUENCIES DEP_1.
  
```

		DEP_1: How often do you feel depressed?			
		Frequency	Percent	Valid Percent	Cumulative Percent
Valid	Daily	756	4.4	4.5	4.5
	Weekly	926	5.3	5.6	10.1
	Monthly	1038	6.0	6.2	16.3
	A few times a year	4012	23.2	24.1	40.4
	Never	9929	57.3	59.6	100.0
	Total	16661	96.2	100.0	
Missing		665	3.8		
Total		17326	100.0		

Step 29. The syntax below recodes DEP\_3 into DEP\_3Y

- 1) to create a NOT ASKED category based on those who responded NEVER to DEP\_1 and
- 2) to place "SOMEWHERE BETWEEN" numerically in-between "A LITTLE" and "A LOT".

**IF** (DEP\_1 = 5) DEP\_3Y = 0.

**RECODE** DEP\_3 (SYSMIS=SYSMIS) (1=1) (2=3) (3=2) (ELSE=9) INTO DEP\_3Y.

**FREQUENCIES** DEP\_3Y.

**DEP\_3Y: Level of feelings last time felt depressed**

		Frequency	Percent	Valid Percent	Cumulative Percent
Valid	Not asked	9929	57.3	59.6	59.6
	A little	3775	21.8	22.7	82.3
	In between a little and a lot	2016	11.6	12.1	94.4
	A lot	935	5.4	5.6	100.0
	Total	16655	96.1	100.0	
Missing		671	3.9		
Total		17326	100.0		

Step 30. Generate a cross-tabulation of the depression Extended Set questions: DEP\_1 and DEP\_3Y.

The syntax below produces a cross-tabulation of DEP\_1: *How often do you feel depressed* (a measure of frequency) and DEP\_3Y: *The level of those feeling the last time you felt depressed* (a measure of intensity) – used to determine a single DEPRESSION INDICATOR (DEP\_INDICATOR).

**CROSSTABS** DEP\_3Y BY DEP\_1.

DEP_3Y: Level of feelings last time felt depressed	DEP_1: How often do you feel depressed?					Total
	Daily	Weekly	Monthly	A Few Times A Year	Never	
Not asked	0	0	0	0	9929	9929
A little	161	346	548	2708	0	3763
In between a little and a lot	209	384	378	1042	0	2013
A lot	381	191	112	248	0	932
Total	751	921	1038	3998	9929	16637

Step 31. Create a DEPRESSION INDICATOR (DEP\_INDICATOR) based on the two depression questions DEP\_1 and DEP\_3Y.

Syntax below creates DEP\_INDICATOR based on the distribution in the cross-tabulation above.

**COMPUTE** DEP\_INDICATOR = 0.

**IF** (DEP\_3Y LE 4 AND (DEP\_1 = 4 OR DEP\_1 = 5)) DEP\_INDICATOR=1.

**IF** ((DEP\_1 = 3) OR (DEP\_1 LT 3 AND DEP\_3Y=1) OR (DEP\_1 = 2 AND DEP\_3Y = 2))  
DEP\_INDICATOR = 2.

**IF** ((DEP\_1 = 1 AND DEP\_3Y = 2) OR (DEP\_1 = 2 AND DEP\_3Y = 3)) DEP\_INDICATOR = 3.

**IF** (DEP\_1 = 1 AND DEP\_3Y = 3) DEP\_INDICATOR = 4.  
**IF** (DEP\_1 = 9 OR DEP\_3Y = 9) DEP\_INDICATOR = 9.  
**VALUE LABELS** DEP\_INDICATOR 0 'N/A' 9 "DON'T KNOW".

**FREQUENCIES** DEP\_INDICATOR.

		DEP_INDICATOR			
		Frequency	Percent	Valid Percent	Cumulative Percent
Valid	1.00	13927	80.4	83.7	83.7
	2.00	1929	11.1	11.6	95.3
	3.00	400	2.3	2.4	97.7
	4.00	381	2.2	2.3	100.0
	Total	16637	96.0	100.0	
Missing		689	4.0		
Total		17326	100.0		

## **PAIN**

Step 32. Generate frequency distribution on PAIN\_2.

First, calculate frequency distributions on PAIN\_2: *Frequency of pain in the past 3 months.*

**FREQUENCIES** PAIN\_2.

### **PAIN\_2: Frequency of pain in past 3 months**

		Frequency	Percent	Valid Percent	Cumulative Percent
Valid	Never	6636	38.3	39.8	39.8
	Some days	6556	37.8	39.3	79.2
	Most days	1227	7.1	7.4	86.5
	Every day	2245	13.0	13.5	100.0
	Total	16664	96.2	100.0	
Missing		662	3.8		
Total		17326	100.0		

Step 33. The syntax below recodes PAIN\_4 into PAIN\_4Y to place "SOMEWHERE BETWEEN" numerically in-between "A LITTLE" and "A LOT". It also creates the category NOT ASKED, if PAIN\_2 is NEVER (1).

**COMPUTE** PAIN\_4Y = PAIN\_4.  
**IF** (PAIN\_2 = 1) PAIN\_4Y=0.  
**RECODE** PAIN\_4Y (1=1) (2=3) (3=2).

**FREQUENCIES** PAIN\_4Y.

**PAIN\_4Y: How much pain you had last time you had pain?**

		Frequency	Percent	Valid Percent	Cumulative Percent
Valid	Not asked	6636	38.3	39.8	39.8
	A little	4865	28.1	29.2	69.0
	In between a little and a lot	3296	19.0	19.8	88.8
	A lot	1869	10.8	11.2	100.0
	Total	16666	96.2	100.0	
Missing		660	3.8		
Total		17326	100.0		

Step 34. Generate a cross-tabulation of the PAIN Extended Set questions: PAIN\_2 and PAIN\_4Y.

The syntax below produces a cross-tabulation of PAIN\_2: *Frequency of pain in the past 3 months* and PAIN\_4Y: *How much pain you has the last time you had pain* (a measure of intensity) – used to determine a single PAIN INDICATOR (P\_INDICATOR).

**CROSSTABS** PAIN\_4Y BY PAIN\_2.

PAIN_4Y: How much pain you had last time you had pain		PAIN_2: Frequency of pain in past 3 months				
		Never	Some days	Most days	Every day	Total
Not asked		6636	0	0	0	6636
A little		0	4136	323	401	4860
In between a little and a lot		0	1772	624	896	3296
A lot		0	645	278	944	1867
Total		6636	6553	1225	2241	16655

Step 35. Create a PAIN INDICATOR (P\_INDICATOR) based on the two PAIN questions PAIN\_2 and PAIN\_4Y.

Syntax below creates P\_INDICATOR based on the distribution in the cross-tabulation above.

**COMPUTE** P\_INDICATOR = 0.

**IF** (PAIN\_2 = 1) OR (PAIN\_4Y = 1 AND (PAIN\_2 = 2 OR PAIN\_2 = 3)) P\_INDICATOR = 1.

**IF** ((PAIN\_2 = 2 AND (PAIN\_4Y = 2 OR PAIN\_4Y = 3)) OR (PAIN\_2 = 3 AND PAIN\_4Y = 2) OR (PAIN\_2 = 4 AND PAIN\_4Y = 1)) P\_INDICATOR = 2.

**IF** (PAIN\_2 = 3 AND PAIN\_4Y = 3) OR (PAIN\_2 = 4 AND PAIN\_4Y = 2) P\_INDICATOR = 3.

**IF** (PAIN\_2 = 4 AND PAIN\_4Y = 3) P\_INDICATOR = 4.

**RECODE** P\_INDICATOR (0=SYSMIS).

**FREQUENCIES** P\_INDICATOR.

**P\_INDICATOR**

		Frequency	Percent	Valid Percent	Cumulative Percent
Valid	1.00	11095	64.0	66.6	66.6
	2.00	3442	19.9	20.7	87.3
	3.00	1174	6.8	7.0	94.3
	4.00	944	5.4	5.7	100.0
	Total	16655	96.1	100.0	
Missing		671	3.9		
Total		17326	100.0		

### **FATIGUE (Tired)**

Step 36. Generate frequency distribution on FATIGUE Extended Set questions Tired\_1, Tired\_2 and Tired\_3.

First, calculate frequency distributions on TIRED\_1: *How often you felt tired in the past 3 months.*

#### **FREQUENCIES** TIRED\_1.

##### **How often felt very tired or exhausted in past 3 months**

		Frequency	Percent	Valid Percent	Cumulative Percent
Valid	Never	5619	32.4	33.7	33.7
	Some days	8391	48.4	50.4	84.1
	Most days	1632	9.4	9.8	93.9
	Every day	1019	5.9	6.1	100.0
	Total	16661	96.2	100.0	
Missing		665	3.8		
Total		17326	100.0		

Step 37. Recode Tired\_2 to 0 (not asked) if Tired\_1 is 1 (Never).

If response to TIRED\_1 is 1: Never, then TIRED\_2 (*How long most recent tired or exhausted feelings lasted*) is not asked. This variable is recoded so these individuals are included in the syntax below.

**IF** (TIRED\_1 = 1) TIRED\_2=0.

**VALUE LABELS** TIRED\_2 0 'NOT ASKED'.

**FREQUENCIES** TIRED\_2.

##### **TIRED\_2: How long most recent tired or exhausted feelings lasted?**

		Frequency	Percent	Valid Percent	Cumulative Percent
Valid	Not asked	5619	32.4	33.8	33.8
	Some of the day	8036	46.4	48.3	82.0
	Most of the day	1955	11.3	11.7	93.8



All of the day	1036	6.0	6.2	100.0
Total	16646	96.1	100.0	
Missing	680	3.9		
Total	17326	100.0		

Step 38. The syntax below recodes TIREDD\_3 into TIREDD\_3Y to place “SOMEWHERE BETWEEN” numerically in-between “A LITTLE” and “A LOT”.

Also, if response to TIREDD\_1 is 1: Never, then TIREDD\_3 (Level of tiredness) is not asked. This variable is recoded so these individuals are included in the syntax below.

**COMPUTE** TIREDD\_3Y = TIREDD\_3.

**IF** (TIREDD\_1 = 1) TIREDD\_3Y=0.

**RECODE** TIREDD\_3Y (1=1) (2=3) (3=2).

**VALUE LABELS** TIREDD\_3Y 0 'NOT ASKED' 1 'A LITTLE' 2 'IN BETWEEN' 3 'A LOT'.

**VARIABLE LABELS** TIREDD\_3Y 'LEVEL OF TIREDNESS'.

**FREQUENCIES** TIREDD\_3Y.

#### TIREDD\_3Y: Level of tiredness

		Frequency	Percent	Valid Percent	Cumulative Percent
Valid	Not asked	5619	32.4	33.8	33.8
	A little	4912	28.4	29.5	63.3
	In between a little and a lot	4030	23.3	24.2	87.5
	A lot	2087	12.0	12.5	100.0
	Total	16648	96.1	100.0	
Missing		678	3.9		
Total		17326	100.0		

Step 39. Generate a cross-tabulation of the FATIGUE Extended Set questions: TIREDD\_1, TIREDD\_2 and TIREDD\_3Y.

The syntax below produces a cross-tabulation of TIREDD\_1: How often you felt tired or exhausted in the past 3 months (a measure of frequency) and TIREDD\_2: How long those feelings lasted (a measure of duration) and TIREDD\_3Y: The level of tiredness (a measure of intensity) – used to determine a single TIREDD INDICATOR (T\_INDICATOR).

**CROSSTABS** TIREDD\_2 BY TIREDD\_1 BY TIREDD\_3Y.

TIRED_3Y: Level of tiredness: <i>Intensity</i>	TIRED_2: How long feelings lasted: <i>Duration</i>	TIRED_1: How often felt very tired or exhausted in past 3 months: <i>Frequency</i>				Total
		Never	Some days	Most days	Every day	
Not asked	Not asked	5619				5619
A little	Some of the day		4066	264	124	4454
	Most of the day		252	73	27	352
	All of the day		68	15	18	101
In between	Some of the day		2224	400	166	2791
	Most of the day		497	266	123	887
	All of the day		194	71	84	349
A lot	Some of the day		536	165	84	785
	Most of the day		297	255	160	713
	All of the day		237	118	230	585
<b>TOTAL</b>		5619	8371	1627	1016	16633

Step 40. Create a FATIGUE INDICATOR (T\_INDICATOR) based on the three FATIGUE questions TIRED\_1, TIRED\_2 and TIRED\_3Y.

Syntax below creates T\_INDICATOR based on the distribution in the cross-tabulation above.

**COMPUTE** T\_INDICATOR = 0.

**IF** (TIRED\_1 = 1) T\_INDICATOR=1.

**IF** (TIRED\_1 = 2 AND TIRED\_2 = 1 AND TIRED\_3Y = 1) T\_INDICATOR = 1.

**IF** (TIRED\_1 = 3 AND TIRED\_2 = 1 AND TIRED\_3Y = 1) T\_INDICATOR = 1.

**IF** (T\_INDICATOR NE 1 AND TIRED\_3Y LT 3) T\_INDICATOR = 2.

**IF** (T\_INDICATOR NE 1 AND (TIRED\_3Y = 3 AND TIRED\_2 = 1)) T\_INDICATOR = 2.

**IF** (T\_INDICATOR NE 1 AND (TIRED\_3Y = 3 AND TIRED\_2 = 2 AND TIRED\_1 = 2))  
T\_INDICATOR = 2.

**IF** ((T\_INDICATOR NE 1 AND T\_INDICATOR3 NE 2) AND TIRED\_1 = 2) T\_INDICATOR = 3.

**IF** (TIRED\_1 GE 3 AND TIRED\_2 = 2 AND TIRED\_3Y = 3) OR (TIRED\_1 GE 3 AND TIRED\_2 = 3 AND TIRED\_3Y = 3) OR (TIRED\_1 GE 3 AND TIRED\_2 = 1 AND TIRED\_3Y = 5) OR (TIRED\_1 = 3 AND TIRED\_2 = 2 AND TIRED\_3Y = 5) T\_INDICATOR = 3.

**IF** (TIRED\_1 GE 3 AND TIRED\_2 = 2 AND TIRED\_3Y = 3) T\_INDICATOR = 3.

**IF** (T\_INDICATOR NE 1 AND T\_INDICATOR3 NE 2 AND T\_INDICATOR3 NE 3 AND (TIRED\_1 = 3 OR TIRED\_1 = 4)) T\_INDICATOR = 4.

**IF** (TIRED\_1 GE 7 OR TIRED\_2 GE 7 OR TIRED\_3Y =9) T\_INDICATOR = 9.

**VALUE LABELS** T\_INDICATOR 0 'N/A' 9 "DON'T KNOW".

**FREQUENCIES** T\_INDICATOR.

		<b>T_Indicator</b>		Valid	Cumulative
		Frequency	Percent	Percent	Percent
<b>Valid</b>	<b>1.00</b>	9949	57.4	59.8	59.8
	<b>2.00</b>	3864	22.3	23.2	83.0
	<b>3.00</b>	2312	13.3	13.9	96.9
	<b>4.00</b>	508	2.9	3.1	100.0
	Total	16633	96.0	100.0	
Missing		693	4.0		
Total		17326	100.0		

## Creating Disability Status Indicators

Type of Disability Indicator		Number of Questions
<b>SS_1</b>	Short Set (SS)	<b>6</b>
<b>Extended Set</b>		
<b>ES_1</b>	SS + <u>Hearing-indicator</u> , <u>Mobility-indicator</u> , <u>Cognition-indicator</u> , <u>Upper Body-indicator</u> + PFAD (4)*	<b>25</b>
<b>ES_2</b>	SS + <u>Hearing-indicator</u> , <u>Mobility-indicator</u> , <u>Cognition-indicator</u> , <u>Upper Body-indicator</u> + AD (4)†	<b>20</b>
<b>Short Set Enhanced</b>		
<b>ES_3</b>	SS + Upper Body-indicator + AD (4)†	<b>12</b>

\* PFAD (4): Pain, Fatigue, Anxiety and Depression Indicators at level 4

† AD (4): Anxiety and Depression Indicators at level 4

### **SS\_1: WG Short Set Disability Indicator based on the 6 short set questions.**

The syntax below calculates the WG Short Set Disability Indicator based on the six short set questions **SS\_1** at the recommended cut-off. The level of inclusion is: at least 1 domain/question is coded A LOT OF DIFFICULTY or CANNOT DO AT ALL.

**FREQUENCIES** VIS\_SS HEAR\_SS MOB\_SS COM\_SS SC\_SS COG\_SS.

**COMPUTE** SS\_1 = 0.

**IF** (MISSING(VIS\_SS) AND MISSING(HEAR\_SS) AND MISSING(MOB\_SS) AND MISSING(COM\_SS) AND MISSING(SC\_SS) AND MISSING(COG\_SS)) SS\_1 = 9.

**IF** ((VIS\_SS = 1 OR VIS\_SS = 2) OR (HEAR\_SS= 1 OR HEAR\_SS = 2) OR (MOB\_SS= 1 OR MOB\_SS = 2) OR (COM\_SS = 1 OR COM\_SS = 2) OR (SC\_SS = 1 OR SC\_SS = 2) OR (COG\_SS = 1 OR COG\_SS = 2)) SS\_1 = 0.

**IF** ((VIS\_SS = 3 OR VIS\_SS = 4) OR (HEAR\_SS= 3 OR HEAR\_SS = 4) OR (MOB\_SS= 3 OR MOB\_SS = 4) OR (COM\_SS= 3 OR COM\_SS = 4) OR (SC\_SS = 3 OR SC\_SS = 4) OR (COG\_SS = 3 OR COG\_SS = 4)) SS\_1 = 1.

**FREQUENCIES** SS\_1.

### **SS\_1: WG Short Set Disability Identifier**

		Frequency	Percent	Valid Percent	Weighted Estimate*
Valid	WITHOUT DISABILITY	14905	86.0	88.8	90.5

	WITH DISABILITY	1872	10.8	11.2	9.5
	Total	16777	96.8	100.0	
Missing		549	3.2		
Total		17326	100.0		

\*Weighted estimate provided – but is not part of the SPSS syntax.

**ES\_1: SS\_1 + Hearing-indicator, Mobility-indicator, Cognition-indicator + Upper Body-indicator + PFAD (4).**

The syntax below calculates an Extended Set Disability Indicator (**ES\_1**) based on 25 questions at the recommended cut-off. The level of inclusion is: at least 1 domain/question is coded A LOT OF DIFFICULTY or CANNOT DO AT ALL for the six short set question; severity levels 3 or 4 for the Hearing-, Mobility-, Cognition- and Upper body-Indicators; and severity level 4 for Pain-, Fatigue-, Anxiety- and Depression-Indicators.

**COMPUTE** ES\_1 = 0.

**IF** (MISSING(SS\_1) AND MISSING(H\_INDICATOR) AND MISSING(MOB\_INDICATORX) AND MISSING(COM\_SS) AND MISSING(SC\_SS) AND MISSING(RC\_INDICATOR2) AND MISSING(UB\_INDICATOR) AND MISSING(P\_INDICATOR2) AND MISSING(T\_INDICATOR3) AND MISSING(ANX\_INDICATOR) AND MISSING(DEP\_INDICATOR)) ES\_1 = 9.

**IF** (SS\_1 = 1 OR (H\_INDICATOR = 3 OR H\_INDICATOR = 4) OR (MOB\_INDICATORX = 3 OR MOB\_INDICATORX = 4) OR (RC\_INDICATOR2 = 3 OR RC\_INDICATOR2 = 4) OR (UB\_INDICATOR = 3 OR UB\_INDICATOR = 4) OR P\_INDICATOR2 = 4 OR T\_INDICATOR3 = 4 OR ANX\_INDICATOR = 4 OR DEP\_INDICATOR = 4) ES\_1 = 1.

**FREQUENCIES** ES\_1.

**ES\_1: WG-ES Disability Indicator based on 11 domains and 25 questions**

		Frequency	Percent	Valid Percent	Weighted Estimate
Valid	WITHOUT DISABILITY	13823	79.8	79.8	82.3
	WITH DISABILITY	3503	20.2	20.2	17.7
	Total	17326	100.0	100.0	

\*Weighted estimate provided – but is not part of the SPSS syntax.

**ES\_2: SS\_1 + Hearing-indicator, Mobility-indicator, Cognition-indicator + Upper Body-indicator + AD (4)**

The syntax below calculates an Extended Set Disability Indicator (**ES\_2**) based on 20 questions at the recommended cut-off. The level of inclusion is: at least 1 domain/question is coded A LOT OF DIFFICULTY or CANNOT DO AT ALL for the six short set question; severity levels 3 or 4 for the Hearing-, Mobility-, Cognition- and Upper body-Indicators; and severity level 4 for Anxiety- and Depression-Indicators.

**COMPUTE** ES\_2 = 0.

**IF** (MISSING(SS\_1) AND MISSING(H\_INDICATOR) AND MISSING(MOB\_INDICATORX) AND MISSING(COM\_SS) AND MISSING(SC\_SS) AND MISSING(RC\_INDICATOR2) AND MISSING(UB\_INDICATOR) AND MISSING(ANX\_INDICATOR) AND MISSING(DEP\_INDICATOR)) ES\_2 = 9.

**IF** (SS\_1 = 1 OR (H\_INDICATOR = 3 OR H\_INDICATOR = 4) OR (MOB\_INDICATORX = 3 OR MOB\_INDICATORX = 4) OR (RC\_INDICATOR2 = 3 OR RC\_INDICATOR2 = 4) OR (UB\_INDICATOR = 3 OR UB\_INDICATOR = 4) OR ANX\_INDICATOR = 4 OR DEP\_INDICATOR = 4) ES\_2 = 1.

**FREQUENCIES** ES\_2.

**ES\_2: WG-ES Disability Indicator based on 9 domains and 20 questions**

		Frequency	Percent	Valid Percent	Weighted Estimate*
Valid	WITHOUT DISABILITY	14222	82.1	82.1	84.6
	WITH DISABILITY	3104	17.9	17.9	15.4
	Total	17326	100.0	100.0	

\*Weighted estimate provided – but is not part of the SPSS syntax.

**ES\_3: SS\_1 + Upper Body-indicator + AD (4)**

The syntax below calculates the WG Short Set ENHANCED Disability Indicator (**ES\_3**) based on the 12 questions at the recommended cut-off. The level of inclusion is: at least 1 domain/question is coded A LOT OF DIFFICULTY or CANNOT DO AT ALL for the six short set question; severity levels 3 or 4 for the Upper body-Indicators; and severity level 4 for Anxiety- and Depression-Indicators.

**COMPUTE** ES\_3 = 0.

**IF** (MISSING(VIS\_SS) AND MISSING(HEAR\_SS) AND MISSING(MOB\_SS) AND MISSING(COM\_SS) AND MISSING(SC\_SS) AND MISSING(COG\_SS) AND MISSING(UB\_INDICATOR) AND MISSING(ANX\_INDICATOR) AND MISSING(DEP\_INDICATOR)) ES\_3 = 9.

**IF** ((VIS\_SS = 3 OR VIS\_SS = 4) OR (HEAR\_SS= 3 OR HEAR\_SS = 4) OR (MOB\_SS= 3 OR MOB\_SS = 4) OR (COM\_SS= 3 OR COM\_SS = 4) OR (SC\_SS = 3 OR SC\_SS = 4) OR (COG\_SS = 3 OR COG\_SS = 4) OR (UB\_INDICATOR = 3 OR UB\_INDICATOR = 4) OR ANX\_INDICATOR = 4 OR DEP\_INDICATOR = 4) ES\_3 = 1.

**RECODE** ES\_3 (9=SYSMIS).

**FREQUENCIES** ES\_3.

**ES\_3: WG-SS Enhanced Disability Indicator based on 9 domains and 12 questions**

		Frequency	Percent	Valid Percent	Weighted Estimate*
--	--	-----------	---------	---------------	--------------------

Valid	WITHOUT DISABILITY	14393	83.1	85.8	87.7
	WITH DISABILITY	2384	13.8	14.2	12.3
	Total	16777	96.9	100.0	
Missing		549	3.2		
Total		17326	100.1		

\*Weighted estimate provided – but is not part of the SPSS syntax.

### ***POST SCRIPTUM: porquê excluir a dor e a fadiga?***

É de realçar a exclusão dos domínios da dor e da fadiga de vários dos identificadores de incapacidade acima. Tem havido considerável debate sobre estes domínios no âmbito do WG. Em bom rigor, não são domínios de funcionalidade; e as nossas análises indicam que estão ambos altamente correlacionados com outros domínios e que as taxas de incapacidade com a sua inclusão podem ser muito elevadas. Por fim, em termos de comparabilidade internacional, estes domínios são menos universais; ou seja, são mais propensos a influências socioculturais locais do que outros domínios de funcionalidade.

Por tais motivos, optámos por excluí-los de várias destas análises, embora possam ser incluídos em análises complementares efetuadas por serviços nacionais de estatística ao respetivo nível.