

## Supplementary Material File 2: EMPOWER app question set

Table 1 describes the EMPOWER app question set which comprises 22 gateway questions and 36 additional probing questions. This means people using the app answered between 22 and 58 questions dependent upon responses.

Table 1. EMPOWER app question set

Domain	Gateway questions n=22	Branching rules	Probe questions n=36
Precipitants	I have been feeling stressed		
Hope	My sleep has changed I have felt upbeat about the future	> 3	I feel like the future holds little for me I feel like giving up
Mood	I have felt sad I have been enjoying things	> 3 > 3	Either / Or  I have had no enjoyment from seeing other people Due to my mood I've been doing less My mood has affected my appetite or sleep I have felt worthless
Anxiety	I have felt worried, nervous or anxious	> 3	My heart has been racing or I have been shaking My anxiety has stopped me from doing things This has affected my appetite or sleep
Self	I've been feeling good about myself	n/a	

Domain	Gateway questions n=22	Branching rules	Probe questions n=36
	I've been feeling confident	n/a	
Others	I've been feeling close to others	n/a	
	Other people are supportive of me	n/a	
Coping	I have been managing well today	> 3	<p>I have been dealing with my problems</p> <p>I have been coping with my emotions</p> <p>I have been getting the supports I need</p>
Fear of recurrence	I have been worrying about relapse	> 3	<p>I have been remembering previous episodes of being unwell</p> <p>I have been worrying about being in hospital</p>
Unusual voices	I have heard voices	> 3	<p>The voices have made it difficult to concentrate on other things</p> <p>The voices have stopped me from doing things</p> <p>Hearing voices has upset me</p> <p>Hearing voices has caused me to worry about relapse</p>
Seeing things	I have seen things that other people can't see	> 3	<p>Seeing things has made it difficult to concentrate on other things</p>

Domain	Gateway questions n=22	Branching rules	Probe questions n=36
			Seeing things has stopped me from doing things Seeing things upset me Seeing things has caused me to worry about relapse
Activity and Activation	I have put myself under more pressure than usual	> 3	I have had an increased capacity for daily activities I have been thinking about future plans more than usual
Feeling threatened	I have felt like I cannot trust other people I have felt like someone or something has meant me harm	Both > 3	Feeling threatened has stopped me from spending time with others Feeling threatened has stopped me from doing things Feeling threatened has made it difficult to concentrate on other things Feeling threatened has caused me to worry about relapse
Personalised Delusions (two most important selected)	Delusions 1	> 3	“Delusion 1” has upset me “Delusion 1” has stopped me from doing things “Delusion 1” has made it difficult to concentrate on other things

Domain	Gateway questions n=22	Branching rules	Probe questions n=36
	Delusions 2	> 3	<p>“Delusion 1” has caused me to worry about relapse</p> <p>“Delusion 2” upset me</p> <p>“Delusion 2” has stopped me from doing things</p> <p>“Delusion 2” has made it difficult to concentrate on other things</p> <p>“Delusion 2” has caused me to worry about relapse</p>
Personalised	Personalised 1 Personalised 2 Personalised 3		

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