

1      **Supporting Information**

2      **1. SAQ and MEQ**

3      **S1 Table.** Responses to each SAQ question (number of respondents and percentage of the group total) divided  
4      by groups according to the MEQ scores.

SAQ question	Assigned score	All (n = 153)	MEQ-based group		
			Morning (n = 16)	Intermediate (n = 100)	Evening (n = 37)
<b>Q1</b>	yes	1	150 (98%)	16 (100%)	97 (97%)
	no	0	3 (2%)	0 (0%)	3 (3 %)
<b>Q2</b>	Every day	0	3 (1%)	0 (0%)	2 (2 %)
	At least once a week	0	61 (41%)	10 (63%)	15 (41%)
	Only on nights before important events (Which ones? Please specify)	3	89 (58%)	6 (38%)	62 (62%)
<b>Q3</b>	Yes	0	65 (42 %)	5 (31%)	47 (47%)
	No, just in the morning before the alarm clock	3	88 (58 %)	11 (69%)	53 (53%)
<b>Q4</b>	5 minutes before or less	3	32 (21%)	1 (6%)	25 (25 %)
	Between 5 and 15 minutes	2	60 (38%)	12 (75%)	32 (32%)
	Between 15 and 30 minutes	1	48 (31%)	3 (19 %)	32 (32 %)
	More than 30 minutes (please specify .....)	0	13 (8%)	0 (0%)	11 (11 %)
<b>Q5</b>	When you have to wake up at the usual time (e.g., 7 a.m. on a working/school day)	0	117 (76 %)	14 (88 %)	72 (72%)
	When you have to wake up at an unusual time (e.g., 3 a.m.)	3	36 (24 %)	2 (12%)	28 (28%)

## 2. SAQ Italian version

## **SELF-AWAKENING QUESTIONNAIRE VERSIONE ITALIANA**

In particolari circostanze, per esempio prima di un esame universitario o un importante incontro di lavoro, alcune persone sono in grado di svegliarsi spontaneamente prima del suono della sveglia o addirittura non hanno bisogno di una sveglia. Le seguenti domande mirano a caratterizzare questo comportamento.

## Istruzioni

**Leggi ogni domanda con attenzione.**

Scegli la risposta che caratterizza con più precisione la tua esperienza personale.

Per favore rispondi a **TUTTE** le domande.

1. Ti è mai capitato di svegliarti volontariamente ad un orario prestabilito senza l'ausilio di una sveglia o altri aiuti esterni?

□ Si

No

2. Se si, quanto frequentemente ti succede?

Tutti i giorni

Almeno una volta a settimana

Solo prima di un evento importante (Quale evento? Specificare):

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<sup>1</sup> See, e.g., *United States v. Ladd*, 10 F.3d 1132, 1136 (11th Cir. 1993) (“[A]nyone who has ever been to a bar or restaurant knows that it is common for people to leave a tip for waitstaff.”).

.....)

3. In tali occasioni hai dei risvegli frequenti durante la notte o ti svegli solo poco prima dell'orario prestabilito?

Mi sveglio più di una volta (specificare in media quante volte: .....)

Mi sveglio solo una volta poco prima dell'orario prestabilito

4. Quanti minuti, in media, ti svegli **prima** dell'orario prestabilito?

5 minuti prima o meno

Tra 5 e 15 minuti

Tra 15 e 30 minuti

Più di 30 minuti (specificare quanto .....)

5. Nella tua esperienza, è **piu' probabile** che tale risveglio spontaneo si verifichi:

Quando ti devi risvegliare ad un orario abituale (per esempio, 7 del mattino in giornata lavorativa/scolastica)

Quando ti devi risvegliare ad un orario insolito/non abituale (per esempio, 3 del mattino).

53   **3. Description of battery tests and their scores**

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55   1. ISI is a 7-item self-report questionnaire to evaluate subjective symptoms and daytime consequences  
56   of insomnia as well as the degree of distress caused by these difficulties. Higher scores indicate greater  
57   insomnia severity. The total score ranges are: no significant insomnia (0–7), sub-threshold insomnia  
58   (8–14), moderate insomnia (15–21), and severe insomnia (22–28). In the literature, “responders” to  
59   treatment are defined by a decrease of  $\geq 8$  points on the ISI total score, whereas “remitters”<sup>xw</sup> are  
60   determined by a total ISI score  $< 8$  at the end of the treatment.  $\alpha = 0.75$ .

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62   2. The MEQ-SA is a 19-item self-report scale designed to evaluate subjective circadian typology:  
63   morning-, intermediate- and evening circadian preference subjects. The total score ranges from 16 to  
64   86.  $\alpha = 0.68$ .

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66   3. The PSQI is a 19-item self-report questionnaire used for a retrospective evaluation of sleep quality  
67   over the previous months. Seven clinical domains regarding sleep problems are assessed: sleep quality,  
68   sleep latency (SL), sleep duration, habitual SE, sleep disturbances, use of sleeping medications, and  
69   daytime dysfunction. All the items of the questionnaire are scored, and a single factor of global sleep  
70   quality is then computed. A total score 5 is considered an indicator of bad sleep quality

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72   4. The PSWQ is a 16-item instrument aimed to measure the trait of worry. Each item is rated on a scale  
73   of one (“not at all typical of me”) to five (“very typical of me”), with items 1, 3, 8, 10, and 11 that are  
74   reverse scored. A total score of 50 has been identified as a reliable cut-off to discriminate generalized  
75   anxiety disorder patients from healthy subjects with both a high specificity (90%) and sensitivity (82%).

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77   5. The STAI-Y is a 40-item self-report scale based on a 4-point Likert scale designed to evaluate anxiety  
78   (STAI-Y-1 = state anxiety, and STAIY-2 = trait anxiety in two different modules). STAI-Y scores  $> 44$   
79   in state module and  $> 41$  in trait module are evaluated as clinically significant.  $\alpha =$  from 0.86 to 0.95.

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81   6. The Center for Epidemiological Studies-Depression (CES-D) is a 20-item measure that asks to rate  
82   how often over the past week one experienced symptoms associated with depression, such as restless  
83   sleep, poor appetite, and feeling lonely. Response options range from 0 to 3 for each item (0 = Rarely  
84   or None of the Time, 1 = Some or Little of the Time, 2 = Moderately or Much of the time, 3 = Most or  
85   Almost All the Time). Scores range from 0 to 60, with high scores indicating greater depressive  
86   symptoms

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88   7. The RRS includes 22 items characterizing responses to depressed moods that are divided in three  
89   types: self-focused responses, symptoms focused responses, and responses focused on the possible  
90   consequences and causes of the mood. Every item must be rated on a scale from one (almost never) to  
91   four (almost always).

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93   8. The PSAS is composed by 16 items, each rated on a 5-point scale that describes symptoms of arousal  
94   at bedtime. Eight items evaluate cognitive arousal and eight evaluates somatic arousal. Higher scores  
95   suggest higher pre-sleep arousal.