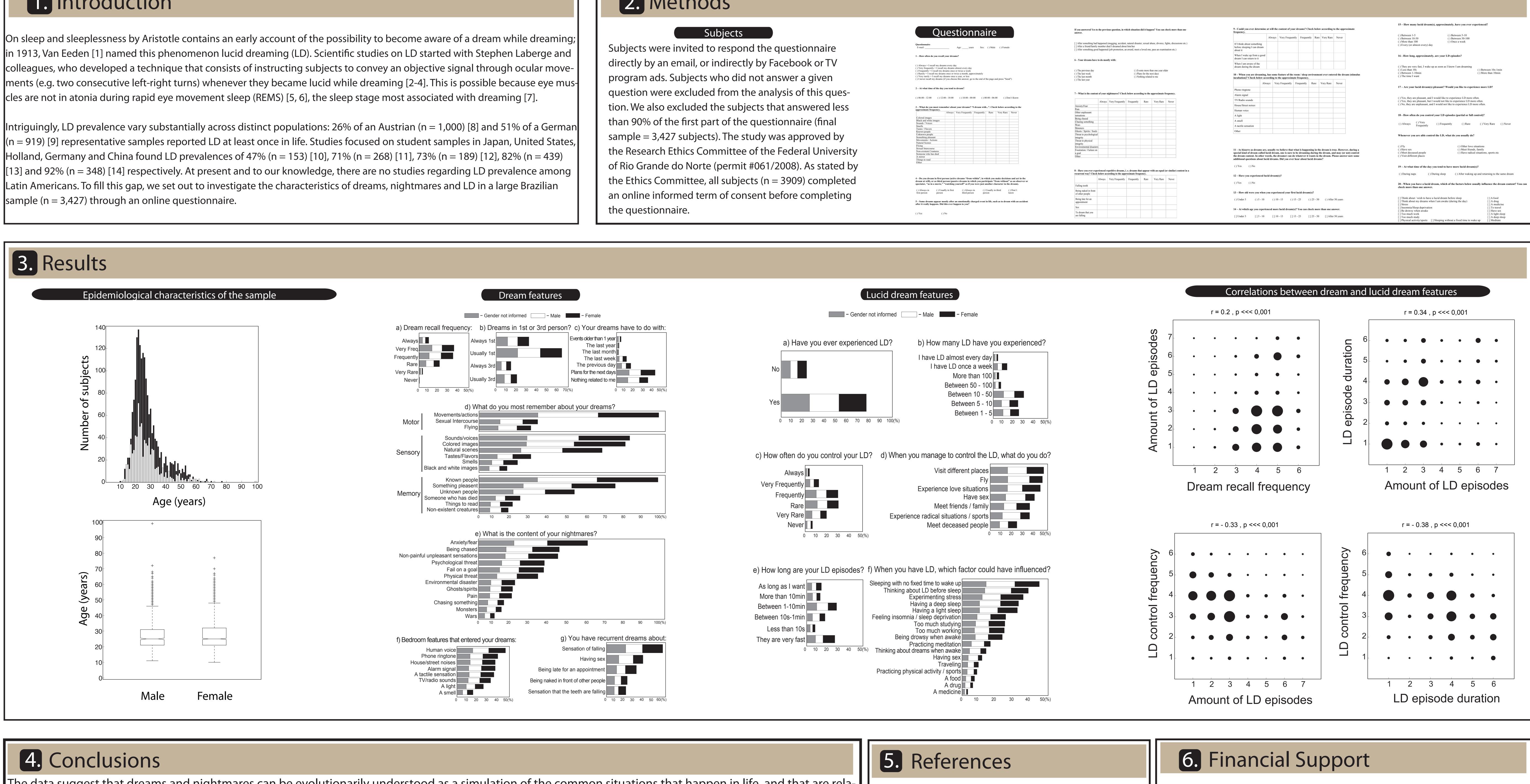


Lucid dreaming patterns in a large Brazilian sample: an epidemiological study * Mota-Rolim SA^{1,2,3}, Targino ZH², Souza BC², Blanco WF², Araujo JF^{1,2,3} & Ribeiro S^{1,2}

1. Introduction



The data suggest that dreams and nightmares can be evolutionarily understood as a simulation of the common situations that happen in life, and that are related to our social, psychological and biological integrity. The results also indicate that LD is a relatively common experience (but not recurrent), often elusive, difficult to control, and facilitated by the possibility to sleep with out a fixed time to wakeup (which increases REMS duration) and stress (which increases REMS transitions into wake) suggesting that LD is a state between REMS and wake. Moreover, despite the variability of LD prevalence among North Americans, Europeans and Asians, our data from Latin Americans strengthens the notion that LD is a general phenomenon of the human species.

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2. Methods

- [1] Van Eeden F(1913)
- [2] LaBerge S (1980) [3] Laberge S, Nagel L, Dement WC, Zarcone V (1981)
- [4] Laberge S, Dement WC (1982)
- [5] Aserinsky E, Kleitman N (1953) [6] Dement W, Kleitman N (1957)
- [7] Hobson JA, Pace-Schott EF, Stickgold R (2000)
- [8] Stepansky R et al. (1988) [9] Erlacher D, Schredl M (2011)
- [10] Erlacher D et al. (2008)
- [11] Palmer J (1979)
- [12] Blackmore SJ (1982)
- [13] Schredl M, Erlacher D (2004) [14] Yu CKC (2008)





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han one	9 - Could you ever determin	e at will t	he content of your	dreams? Cho	eck belov	v according	to the approximate	15 – How many lucid dream(s), approximately, have you ever experienced?
	frequency.	A 1	s Very Frequent	E	Dama	Varia Dana	Navar	() Between 1-5 () Between 5-10
•		Alway	s very riequenti	ly Flequenti	y Kale	very Kare	INEVEL	() Between 10-50 () Between 50-100 () More than 100 () Once a week
ons etc.)	If I think about something before sleeping I can dream about it							() Every (or almost every) day
	When I wake up from a good dream I can return to it	1						16 - How long, approximately, are your LD episodes?
	When I am aware of the							
	dream during the dream							() They are very fast, I wake up as soon as I know I am dreaming () Less than 10s () Between 10s-1min
	10 – When you are dreamin incubation)? Check below a				vironme	nt ever ente	red the dream (stimulus	() Between 1-10min () The time I want
	А	lways	Very Frequently	Frequently	Rare	Very Rare	Never	
	Phone ringtone							17 – Are your lucid dream(s) pleasant? Would you like to experience more LD?
	Alarm signal							
	TV/Radio sounds							() Yes, they are pleasant, and I would like to experience LD more often.() Yes, they are pleasant, but I would not like to experience LD more often.
	House/Street noises							() No, they are unpleasant, and I would not like to experience LD more often.
	Human voice							
	A light							18 - How often do you control your LD episodes (partial or full control)?
	A smell							() Verv
	A tactile sensation							() Always () Very Frequently () Frequently () Rare () Very Rare () Never
	Other							
		I	I	I		1		Whenever you are able control the LD, what do you usually do?
								() Else () Other laws situations
	11 - As bizarre as dreams a							() Fly() Other love situations() Have sex() Meet friends, family
	special kind of dream called the dream content. In other							() Meet deceased people () Have radical situations, sports etc () Visit different places
	additional questions about l							
itent in a	() Yes () No							19 - At what time of the day you tend to have more lucid dream(s)?
itent III a	12 – Have you experienced	12 – Have you experienced lucid dream(s)?						() During naps () During sleep () After waking up and returning to the same dream
		area	(-)-					
	() Yes () No	() Yes () No						20 - When you have a lucid dream, which of the factors below usually influence the dream content? check more than one answer.
	13 – How old were you when you experienced your first lucid dream(s)?							
	() Under 5 () 5 - 10 () 10 - 15 () 15 - 25 () 25 - 50 () After 50 years					() After	[] Think about / wish to have a lucid dream before sleep [] A food [] Think about my dreams when I am awake (during the day) [] A drug [] Stress [] A medicine	
	14 – At which age you expe	14 – At which age you experienced more lucid dream(s)? You can check more than one answer.						[] Insomnia/Sleep deprivation [] To travel [] Be drowsy when awake [] Have sex
	[] Under 5 [] 5 - 10	[]	10 - 15 [] 1:	5 - 25	25 - 50	[] After	50 years	[] Too much work [] A light sleep [] Too much study [] A deep sleep

