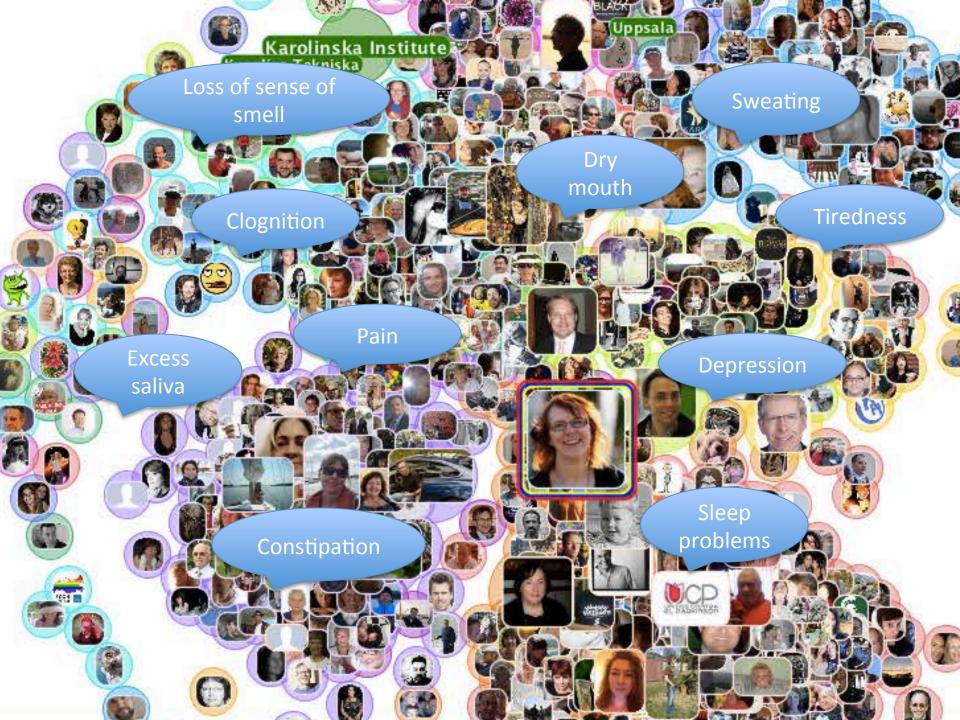
# Quantified Self







### Why do I fall?

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#### Bruised knees and bruised ego...

BY SARARIGGARE · OCTOBER 25, 2013 · POST A COMMENT



I have a new friend. She can be seen on the photo here and I picked her up in a shop the other day. A few days earlier I had no idea that I would feel the need to pick her up, but there you go, that's life I guess.

On Monday I went to work as usual, went to a few meetings in the morning, more or less 'business as usual'. For lunch, I thought I'd show my two colleagues the brand new auditorium and the lunch restaurant there, so we took a short walk and went into the building that looks like a giant glass bowl. Of course, if you give three engineers the choice of three different dishes for lunch, they will pick one each. We went looking for a table, sat down with salmon on a bed of fennel, a giant ball of mince of lamb with mash and a Swedish quiche on a bed of greens, and no, the woman in the party (me) did <u>not</u> have the quiche...

Having finished both the food and the mandatory Swedish 'fika' (coffee or tea plus something sweet, like a cookie or cake or similar), we took our trays and made our way through the spacious restaurant towards the place for dirty dishes and I found myself thinking: "hmmmm, if I were to see someone I recognise sitting at those tables, I would probably find myself freezing...". For those of you readers lucky enough to not understand the meaning of that sentence, here is a brief video from youtube (for the extra interested, look here). There is a lot to

#### Sara Riggare (SaraRiggare)

Proud mother, engineer, PhD student on patient empowerment by IT, optimistic realist with Parkinson's. Not patient but impatient. #QuantifiedSelf #Health20 Stockholm, Sweden

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#### TWEETS FROM @SARARIGGARE

@skjonas Yes, VERY interesting!Thank you so much!!! 3 days ano

#### www.riggare.se

## Freezing-of-gait (FOG)

Review

### Freezing of gait: moving forward on a mysterious clinical phenomenon

John G Nutt, Bastiaan R Bloem, Nir Giladi, Mark Hallett, Fay B Horak, Alice Nieuwboer

Lancet Neurol 2011; 10: 734–44

Department of Neurology, **Oregon Health & Science** University, Portland, OR, USA (Prof J G Nutt MD, Prof F B Horak PhD); Radboud University Nijmegen Medical Centre, Donders Institute for Brain, Cognition and Behaviour, Nijmegen, Netherlands (Prof B R Bloem MD); Tel-Aviv Sourasky Medical Centre, Sackler School of Medicine, Tel Aviv University, Tel Aviv, Israel (N Giladi MD); National Institute of Neurologic Disorders and Stroke, Bethesda, MD, USA (Prof M Hallett MD); and Department of Rehabilitation Sciences, Katholieke Universiteit Leuven, Tervuursevest, Belgium (Prof A Nieuwboer PhD) Correspondence to: Dr John G Nutt, Department of Neurology, Oregon Health & Science University, Portland, OR 97239, USA

Freezing of gait (FoG) is a unique and disabling clinical phenomenon characterised by brief episod step or by extremely short steps that typically occur on initiating gait or on turning while walking. Pa which is a feature of parkinsonian syndromes, show variability in gait metrics between FoG episodes reduction in step length with frequent trembling of the legs during FoG episodes. Physiological, fun and clinical–pathological studies point to disturbances in frontal cortical regions, the basal ganglia, a locomotor region as the probable origins of FoG. Medications, deep brain stimulation, and rehabilit can alleviate symptoms of FoG in some patients, but these treatments lack efficacy in patients with a better understanding of the phenomenon is needed to aid the development of effective therapeutic

#### Introduction

Freezing of gait (FoG) is an often dramatic, episodic gait pattern that is common in advanced Parkinson's disease (PD), other parkinsonian syndromes, and microvascular ischaemic lesions.<sup>1-3</sup> FoG highly impairs mobility, causes falls,<sup>45</sup> and reduces quality of life.<sup>62</sup> The pathogenesis of FoG is not understood and empirical treatments are of poor efficacy. For these reasons, FoG is an important clinical problem. It is also a challenge to our understanding of the physiology of normal locomotion in humans and the pathogenesis of gait disorders in patients.

In this Review, we describe the clinical features of and therapeutic approaches to FoG, discuss the physiology of locomotion in animals and humans, and consider hypotheses for the pathogenesis of FoG. This material is clears the support surface; (2) alternate legs occurs at a frequency of 3-8 Hz;<sup>11-13</sup> an increase in cadence with a decrease often precedes FoG;<sup>14</sup> (4) a subjective fe being glued to the floor accompani

freezing; (5) FoG is commonly precipitated of renevea by various cues; and (6) FoG can be asymmetrical, affecting mainly one foot or being elicited more easily by turning in one direction.

If one or more of these associated features is universal to all episodes of FoG, they could provide important clues to its pathogenesis. Alternatively, some of these features could help with identification of different forms of the disease; that is, FoG might not be a single clinical phenomenon but represent several different syndromes with different underlying mechanisms. Along this line

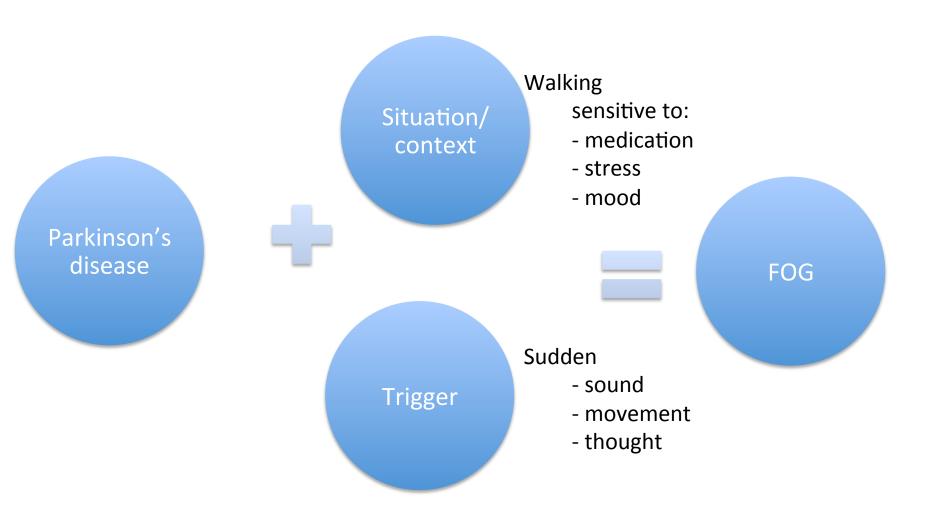
#### **Clinical features**

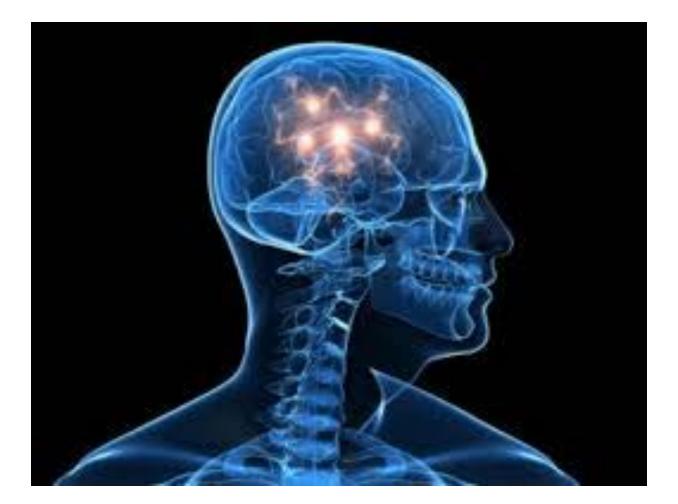
Although classic FoG is easily recognised, to define the phenomenon precisely is surprisingly difficult. The definition accepted at the 2010 workshop of clinicians and scientists interested in FoG was "brief, episodic absence or marked reduction of forward progression of the feet despite the intention to walk."8.9 This definition includes episodes in which the patient cannot initiate gait ("start hesitation") and arrests in forward progression during walking ("turn" and "destination" hesitation), as well as episodes of shuffling forward with steps that are millimetres to a couple of centimetres in length. The notion of FoG as an episodic phenomenon is important because it suggests transient disruptions of locomotor circuitry. Most commonly, FoG lasts a couple of seconds, but episodes can occasionally exceed 30 s.10 Rarely, FoG seems to be almost continuous, such that the patient is unable to generate any steps that are long enough to provide useful ambulation.

Several important features can accompany FoG: (1) the foot or toe does not leave the ground or only barely



### Clearing the FOG



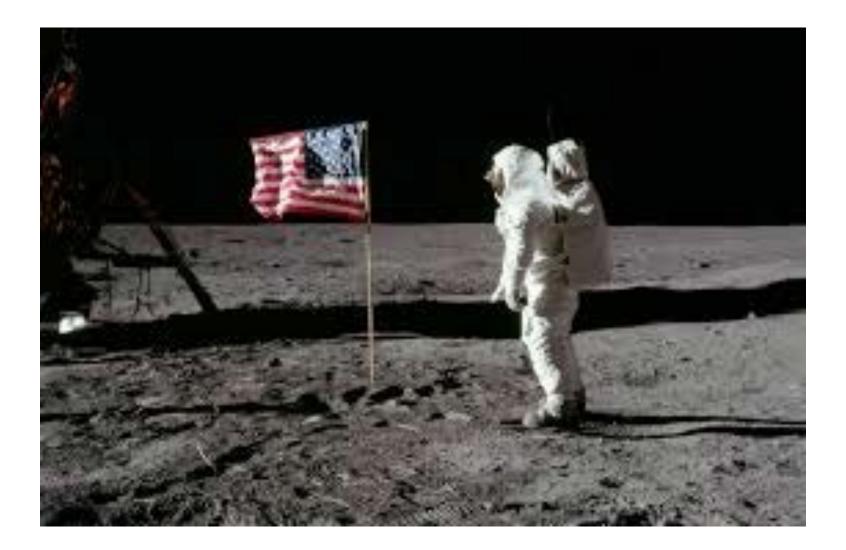


## What did I do?

## How did I do it?



## What did I learn?





## What did I learn?

• The QS community is AWESOME!!



#### Movement Disorders

and the second second			SEARCH
Transcranial direct current stimulation for treatment of freezing of gait: A Cross-over study			In this issue
Francesca Valentino MD <sup>1,†</sup> , Giuseppe Cosentino MD <sup>1,†</sup> , Filippo Brighina MD <sup>1</sup> , Nicolò Gabriele Pozzi MD <sup>2</sup> , Giorgio Sandrini MD <sup>2</sup> , Brigida Fierro MD <sup>1</sup> , Sandrini MD <sup>2</sup> , Brigida Fierro MD <sup>1</sup> ,		Advanced > Saved Searches > ARTICLE TOOLS	
Giovanni Savet MD <sup>1,*</sup> and Clau	Keywords	rs; motor cortex; brain stimulation	
Article first publ DOI: 10.1002/m © 2014 Internatio Disorder Society	ABSTRACT	지 않는 형태는 것이 많은 것이 가지만 것이라. 전 것이 가지만 않는 것이 같이 나라 있다.	
Funding agenc	patients with FOG. Methods	na desta de la compresa a la construita 🖲 como de la dada da 1996 y compresa de la construita de la construit	en for folken en beskelden en foren er sektron och som for folke 🗜 ut han for foregen av 2 - of folket. Konder hver er
Additional Info How to Cite   A Funding agenc Research (MIUI Relevant confli Full financial dis	patients with FOG. <b>Methods</b> In this cross-over, double-blind, sham-controlled current stimulation for 5 consecutive days. Clinic	study, 10 PD patients with FOG persist	ing in "on" state underwent anodal and sham o
How to Cite A Funding agenc Research (MIUI Relevant confli	patients with FOG. <b>Methods</b> In this cross-over, double-blind, sham-controlled current stimulation for 5 consecutive days. Clinic	I study, 10 PD patients with FOG persist cal assessment over a 1-month period w by the Stand Walk Sit test, with reduction son's Disease Rating Scale score, were	ing in "on" state underwent anodal and sham o vas performed. in number and duration of FOG episodes, alo observed after anodal stimulation. Beneficial

Anodal transcranial direct current stimulation of the motor cortex is safe and has therapeutic potential in PD patients with FOG. © 2014 International Parkinson and Movement Disorder Society Sara Riggare sara@riggare.se www.riggare.se @SaraRiggare