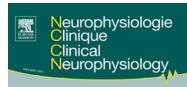




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ORIGINAL ARTICLE/ARTICLE ORIGINAL

Functional neurological disorders: The neurological assessment as treatment[☆]

Troubles neurologiques fonctionnelles : l'évaluation neurologique comme traitement

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Summary The neurologist's role in patients with functional disorders has traditionally been limited to making the diagnosis, excluding a 'disease' and pronouncing the symptoms to be 'non-organic' or 'psychogenic'. In this article, I argue that there are multiple opportunities during routine assessment of a patient with a functional disorder for the neurologist to take the lead with treatment. These opportunities occur throughout history taking, during the examination and, with greatest potential for treatment, at the end of the consultation. Elements of the neurologist's discussion that may be most useful include: (a) emphasis that symptoms are genuine, common and potentially reversible; (b) explanation of the positive nature of the diagnosis (i.e. not a diagnosis of exclusion); (c) simple advice about distraction techniques, self-help techniques and sources of information; (d) referral on to appropriate physiotherapy and/or psychological services; (e) offering outpatient review. I also discuss how new diagnostic criteria for DSM-5 and changes proposed for ICD-11 may facilitate changes that allow neurologists to bring their management of patients with functional disorders in line with other multidisciplinary neurological disorders in the outpatient clinic.

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MOTS CLÉS

Troubles conversifs ;
Psychogène ;
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fonctionnels ;
Traitement ;
Hystérie

Résumé On considère classiquement que, chez les patients présentant des symptômes neurologiques fonctionnels, le rôle du neurologue se limite à poser un diagnostic, exclure une «pathologie» et annoncer que les symptômes sont «non organiques» ou «psychogènes». Dans cet article, j'explique que, durant la mise au point de routine habituellement réalisée chez un patient présentant des symptômes neurologiques fonctionnels, le neurologue a de nombreuses occasions de jouer un rôle thérapeutique de premier plan. Ces occasions se présentent lors de l'anamnèse, de l'examen neurologique et, surtout, en fin de consultation. Les éléments de discussion les plus utiles qu'il peut fournir sont les suivants : (i) insister sur le fait que les symptômes sont bien réels, non exceptionnels et potentiellement réversibles ; (ii) expliquer

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qu'il pose un diagnostic positif et non un diagnostic d'exclusion ; (iii) donner un avis simple à propos des techniques de distraction, d'autosuggestion ainsi que sur les sources d'information ; (iv) donner accès à un service de physiothérapie ou de psychologie adapté ; (v) proposer au patient une consultation de suivi. Je montrerai également dans quelle mesure les nouveaux critères diagnostiques du DSM-5 et les modifications proposées par l'ICD-11 faciliteront la tâche du neurologue dans sa prise en charge des patients présentant des symptômes fonctionnels, dans le cadre d'une approche multidisciplinaire en consultation de routine.

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Introduction

Doctors in nearly all medical specialities see patients with physical symptoms, which are genuine but cannot be explained on the basis of a recognised 'organic' disease. Around 30–50% of outpatient visits in primary and secondary care are for this reason [23,34].

Some specialties, such as gastroenterology, have developed a pragmatic approach to the diagnosis and treatment of their functional disorders such as irritable bowel syndrome and functional dyspepsia [9]. Functional gastrointestinal disorders now occupy a standard part of their curriculum for training, practice and research. As a consequence gastroenterologists have primary responsibility for the management of patients with these disorders even though they may call on members of the multidisciplinary team to help.

Other specialities, such as cardiology and neurology, have not developed in the same way. Interest in this area from neurologists actually declined over the 20th century for many reasons. These include the success of the clinico-anatomic method, the dualistic split from psychiatry and prevailing notions that the diagnosis of "conversion disorder" (requiring evidence of psychic conflict) and treatment (psychodynamic unravelling of the presumed conflict) were essentially the territory of psychiatry rather than neurology [37].

For most of the 20th century, the pendulum swung strongly towards a psychiatric model of functional disorder/conversion disorder. However in the last 10–20 years the pendulum has started to swing back with increasing numbers of biological studies. It will hopefully come to rest on a model where both "neurology and psychiatry", "brain and mind" are equally important in considering the diagnosis and treatment of these disorders [3,10,11].

In this article, I give a personal view regarding features of the neurological assessment, which I believe can be used by the general neurologist for the day-to-day benefit of their patients with functional disorders. Some of this advice is evidence-based, from prognostic or treatment studies, but much is not and is instead suggested from 15 years of subspecialty interest and referrals of patients often perceived by colleagues to be 'difficult' or at the 'hard end' of the spectrum of functional neurological disorders.

My experience is that there are very few patients who are truly 'difficult' to have a consultation with. Many consultations are time-consuming. Many patients give "wandering" histories that need frequent 'reigning in' and considerable patience. There are many patients whom I have not been able to help. But with only a couple of exceptions, the

"recipe" presented here creates consultations that rarely results in an angry or complaining patient, even though this is a common scenario in many neurology services [4]. Sometimes single consultations have been highly therapeutic without the need for any other intervention. In many others, consultations appear to have helped patients make improvements and work more effectively with other health professionals. Even when a patient's symptoms and disability remain the same I am struck how often patients with functional disorders report 'peace of mind' and improved quality of life after developing a good understanding of their diagnosis. I am aware that a "recipe" on a printed page may not be enough. Some colleagues of mine appear to "say the right things" but still have unhappy patients, perhaps because those colleagues rushed the consultation or do not fundamentally believe that the patient has anything much the matter with them. When some of my neurologist colleagues "roll their eyes" or make comments such as 'no – I think she is genuine/real (i.e. not functional)' they are reminders of the professional ambiguity that characterises views about whether patients with functional disorders are deserving of help or not [19].

The suggestions here allow a model of care, like those in gastroenterology, where functional disorders, like migraine or multiple sclerosis (MS), become part of the accepted repertoire of conditions that a neurologist diagnoses and then takes responsibility for managing. Here I am arguing that, as with those conditions, the neurological assessment should not be regarded as a prelude to treatment, but the *first stage of treatment itself*.

For a systematic description of terminology [6], components of the assessment [42] and pitfalls in diagnosis [39] the reader is directed elsewhere. This article has been adapted from a previous review article by the author [42].

Therapeutic elements of history taking

The purpose of taking a history is not just to obtain information – ideally, it also enables the patient to feel unburdened and gain confidence in the doctor before the diagnosis has even been discussed.

Patients with functional disorders have often had bad experiences with previous doctors. Some common reasons for this include:

- not getting a chance to describe all their symptoms;
- feeling that their symptoms were being 'dismissed' or that they were 'disbelieved';

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- a perception that the doctor was most interested in looking for some kind of psychological problem to ‘pin’ the symptoms on (when it did not feel like that was the case to the patient and indeed there may not have been one to find);
- not being given a chance to explain and discuss what thoughts they had about the cause and treatment of the symptoms (e.g. Lyme disease, “crumbling bones” or stroke);
- not being given a diagnosis, treatment or anything they can read about afterwards;
- not being given enough time.

To this familiar list, I would add that patients with acute functional motor symptoms or dissociative (non-epileptic) attacks commonly experience depersonalisation (a feeling that they are disconnected from their body) or derealisation (a feeling of being disconnected from their surroundings) in conjunction with the onset of their symptoms (or with their attacks) [25,40,41]. Patients often find it hard to describe dissociative symptoms because:

- they may lack the words for the symptoms;
- they worry that the symptoms sound ‘crazy’.

Conversely, explaining that these terms are medical words for a common ‘trance-like state’ that has nothing to do with “going crazy” can be both therapeutic and helpful for explaining the mechanism of symptoms.

With these ‘bad experiences’ in mind, here are some suggestions for therapeutic aspects of history taking.

Drain the symptoms dry

Asking the patient to make a list of all their symptoms does not take as long as you think. It may seem perverse to want to ask about fatigue, sleep disturbance, pain, poor concentration and dizziness in someone who has already volunteered eight symptoms. However, a complete list of current symptoms at the start of a consultation helps a patient to feel unburdened and prevents symptoms ‘popping up’ later on (for example when they are leaving the room). Questions about fatigue and sleep often reveal that these are the main problem – the patient may be relieved to be asked about them as they may have anticipated that the doctor would not wish to hear from a patient who is ‘tired all the time’.

Asking about dissociation

Obtaining a history of depersonalisation and derealisation may require questions that are slightly more “leading” than would normally be advised. Often patient say they have not had any symptoms at the onset of acute functional motor symptoms or dissociative (non-epileptic) attacks [29]. They will however often admit to symptoms of dissociation or panic if asked by questionnaire [27] or in the right way during assessment [35,40]. Questioning might proceed as in Box 1.

Box 1: Discussing dissociation during the history in a way that is therapeutic for the patient

Doctor: Did you get any warning symptoms?

Patient: No doctor, none.

Doctor: Did you feel dizzy when it started?

Patient: A bit maybe.

Doctor: What was the dizziness like?

Patient: I don’t know really – it’s hard to describe.

Doctor: If I told you there are three main sorts of dizziness – a light-headed feeling that you might faint, a feeling that you are moving even though you are still and a spaced out feeling as if you were not quite there – which of these would you say it was most like?

Patient: The third one and the first one.

Doctor: Tell me about that spaced out feeling in your own words. Don’t worry about sounding silly. The more detail you can give me, the more I can help.

Patient: Well it was strange really – it was like I was floating and people around me were really far away. It was horrible.

Doctor: How long did it go on for?

Patient: It must have been a couple of minutes.

Doctor: Was it scary?

Patient: Yes it was really frightening – It felt like I was going crazy...

Doctor: Actually what you are describing is called dissociation – it’s nothing to do with going crazy at all. It’s a trance-like state that people often have when they develop symptoms – I’ll explain later.

Hopefully it can be seen from this exchange that the patient has unburdened themselves of a frightening symptom that they were initially reluctant or found hard to discuss and received a preliminary explanation that it is common, and has nothing to do with “being crazy”. As I will explain later, it is often the patients perceived failure to obtain recognition that the symptoms are ‘real’ and ‘not crazy’ which so often forms the largest barrier to successful rehabilitation and good outcome [30]. Providing early reassurance that the consultation is not heading down the path of the patient being labelled as ‘crazy’, puts the patient at ease and into a state where they may find it easier to discuss other aspects of the history.

Ask what the patient thinks is wrong and what should be done

Medical students (in the UK at least) are now taught to routinely ask about ‘Ideas, Concerns and Expectations’ (ICE) although this is a habit that has bypassed by many older doctors. But these lines of questioning are essential in allowing the neurologist’s explanation to be tailored to the patient’s prior concerns. Therefore, someone who thinks their bones are crumbling in their neck will need a discussion of what a normal MRI cervical spine is at the age of 40. A patient who believes they have Lyme disease or multiple sclerosis will require something different. This discussion becomes therapeutic when the patient or family experiences relief in



Test hip extension – it's weak

Test contralateral hip flexion against resistance – hip extension has become strong

Figure 1 Hoover's sign of functional leg weakness (reproduced by permission *BMJ* publications) [42].

getting their worst fears and concerns out in to the open. The patient who is adamant that they will never improve is likely to have a worse prognosis than the patient who is unsure and looking for answers [15,30].

What happened with the other doctors?

When asked what they think is wrong some patients will say 'I don't know' despite a documented previous discussion of the diagnosis of a functional disorder. Why did the patient not believe the first explanation? Allow the patient to vent their frustration at previous health encounters. You do not need to pass judgement on what happened but this discussion is likely to be therapeutic for the patient.

Go easy on "psychological" questions

Neurologists are often tempted to dive in to questions about depression, anxiety, stress or abuse because they have been conditioned to believe that this is the right thing to do. It is actually not necessary to ask the patient about their mood and levels of anxiety either to make a diagnosis or begin treatment. Studies show that around half of patients have a comorbid anxiety or depression. Such things can often be inferred anyway from questions about day-to-day activities and thoughts. Patients with functional motor symptoms have rates of recent life stress and prior abuse which, depending which study you look at, may not be that different to the general population [20]. Questions about prior psychological trauma such as physical and sexual abuse are likely, in any case, to be unnecessarily intrusive for a first assessment unless it is clear that the patient wishes to discuss it. If these things are present and relevant (and they may not be), most patients prefer to discuss them once they have confidence in the doctor and the diagnosis (i.e. at a second appointment). Premature and clumsy questioning will commonly be 'anti-therapeutic' by raising suspicion in the patient that

you think their symptoms are 'all in the mind' (even if that is not what you think!).

Time

Probably the hardest problem to solve from my initial list of patient 'bad experiences' is not having enough time. Ideally the patient with complex and chronic functional disorders should be given at least 1 hour for a new patient assessment, especially if they have seen many other specialists. In many neurological services this is not possible. This compromises what can be delivered but in my own practice I still think most of these components can be fitted in to a 30-minute consultation (and I do have to do that as well!). It may be worth reflecting though that a neurosurgeon does not try to remove someone's pituitary gland in the same time they would expect to decompress a carpal tunnel and perhaps neurologists should be less rigid about spending the same time with every patient.

Therapeutic features of the examination

Showing the patients their positive signs

The diagnosis of functional neurological disorders should be made on the basis of positive features on the examination, not the absence of disease (Table 1) [2,8,38]. Something that follows on from this is that functional disorders can also be diagnosed in the presence of existing disease such as multiple sclerosis or Parkinson's disease [24,26,33]. Sticking to this rule with patients is important in avoiding diagnostic mistakes but also therapeutic in helping patients to understand they do not have an absence of a condition (i.e. non-organic), they have a positively identifiable condition with positive criteria.

In an article entitled *Trick or treat? Showing patients with functional (psychogenic) motor symptoms their*

Table 1 Examples of positive signs in functional disorders that can be shared with a patient to explain the diagnosis.

	Positive finding
<i>Motor symptoms</i>	
Hoover's sign [21] (Fig. 1)	Hip extension weakness that returns to normal with contralateral hip flexion against resistance
Hip abductor sign [32]	Hip abduction weakness returns to normal with contralateral hip abduction against resistance
Other clear evidence of inconsistency	E.g., weakness of ankle plantar flexion on the bed but patient able to walk on tiptoes
Global pattern of weakness	Weakness, which is global affecting extensors and flexors equally
<i>Movement disorder</i>	
Tremor entrainment test [45]	Patient with a unilateral tremor is asked to copy a rhythmical movement with their unaffected limb. The tremor in the affected hand either 'entrains' to the rhythm of the unaffected hand, stops completely or the patient is unable to copy the simple rhythmical movement
Fixed dystonic posture [28]	A typical fixed dystonic posture, characteristically of the hand (with flexion of fingers, wrist and/or elbow) or ankle (with plantar and dorsiflexion)
Typical "functional" hemifacial overactivity [14] (Fig. 2)	Orcicularis oculis ororis over-contraction especially when accompanied by jaw deviation and/or ipsilateral functional hemiparesis
<i>Non-epileptic attacks</i> [2]	
Prolonged attack of motionless unresponsiveness	Paroxysmal motionlessness and unresponsiveness lasting longer than a minute
Long duration	Attacks lasting longer than 2 min without any clear cut features of focal or generalised epileptic seizures
Closed eyes	Closed eyes during an attack, especially if there is resistance to eye opening
Ictal weeping	Crying either during or immediately after the attack
Memory of being in a generalised seizure	Ability to recall the experience of being in a generalised shaking attack
Presence of an attack resembling epilepsy with a normal EEG	Normal EEG does not exclude frontal lobe epilepsy or deep foci of epilepsy but does provide supportive evidence
<i>Visual symptoms</i> [5]	
Fogging test	Vision in the unaffected eye is progressively "fogged" using lenses of increasing dioptres whilst reading an acuity chart. A patient who still has good acuity at the end of the test must be seeing out of their affected eye
Tubular visual field	A patient is found to have a field defect, which has the same width at 1 m as it does at 2 m

physical signs [36], Mark Edwards and I argued that sharing physical signs such as Hoover's sign and the Tremor Entrainment Test with patients fulfilled several valuable functions:

- the diagnosis is positive not negative. It is a clinical bedside diagnosis, not a diagnosis made because a scan is normal. Indeed the scan may be abnormal and it may still be a functional tremor. These positive signs are now required to make a diagnosis of functional neurological disorders in DSM-5 [1]. The presence of psychological stressors are no longer required. I discuss DSM-5 at the end of this article;
- the signs demonstrate the potential for reversibility – e.g. hip extension weakness returns transiently

to normal during contralateral hip flexion against resistance;

- the signs demonstrate the role of focused attention and the benefit of distraction – e.g. the more the patient pays attention to the limb and tries to move it the worse it is. Conversely when they are distracted then movement is much better.

We find in our own practice that this simple demonstration of the nature of the diagnosis is one of the most therapeutic parts of the consultation. Our patients even practice these physical signs at home to help persuade themselves and family members that the diagnosis is correct. It is perhaps then worth rehearsing what the explanation of a Hoover's sign would sound like during a consultation as shown in Box 2.

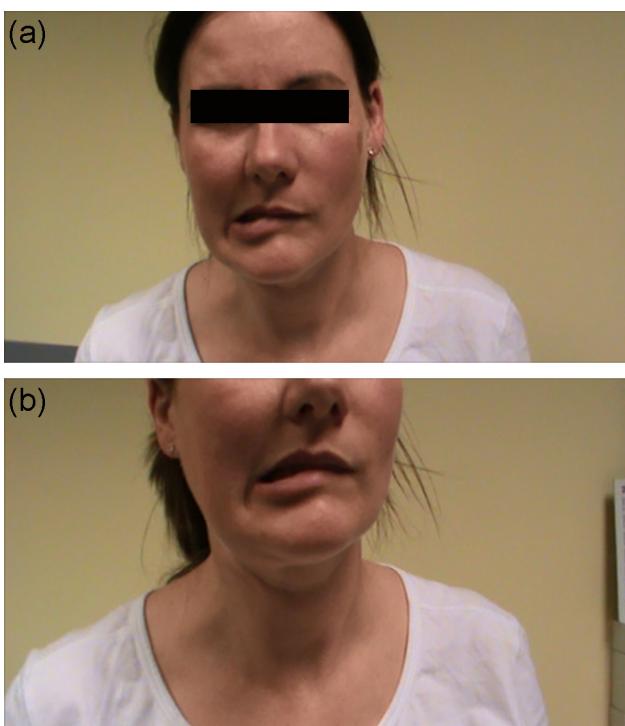


Figure 2 Functional facial overactivity can look like facial weakness – typically with platysma overactivity, jaw deviation and/or contraction of orbicularis oculis.

Box 2: An example of how to show a patient their Hoover's sign [36]

Doctor (testing weak hip extension): "Try to keep your foot flat on the floor for me."

Patient (in a sitting position): "I can't do it."

Doctor (testing contralateral hip flexion against resistance): "Now, concentrate on lifting up your good right leg. Look at that right leg and focus on keeping it up in the air. Now, can you feel that when you do that the power in your left leg has come back to normal? I can't get that left foot off the floor now."

Patient (and the partner): "That's weird."

Doctor: "This test is called Hoover's sign. It's a positive sign of a genuine problem called functional leg weakness. I can see that you were really trying to keep your left foot on the floor but your leg was weak. But because the movement comes back to normal when you move your other leg that shows me that the weakness can't be due to damage anywhere in the nervous system."

Patient: "So what's going on then?"

Doctor: "Your brain is having trouble sending a message to your leg to make it move, but when you are distracted the automatic movements can take place normally. This test shows me there is a problem with the function of your nervous system, not damage to it. It's basically a problem with the function of the nervous system – a bit like a software problem instead of a hardware problem. Shall I show you again?"

A "hands on" way of improving doctor patient rapport

We live in an age of technological medicine but many patients still appreciate the thoroughness and skill of a physical examination. The physical examination provides 'hands on' contact, a basic transaction which patient's have expected from health professionals for millennia. There are also many aspects of the neurological examination which have the potential to 'break the ice', such as the plantar response, finger nose test and knee jerks. The opportunity to share a smile with a patient whose affect has been flat throughout an assessment should not be underestimated.

An opportunity to reinforce normal findings

During the examination some doctors say very little. Explaining what you are doing and mentioning that things are normal as you go along helps improve confidence and transparency.

These aspects of the physical examination are therapeutic opportunities open to physicians and physiotherapists but which psychologists and psychiatrists rarely avail themselves of. There is no reason however why the latter should not learn these skills. Psychiatrists I work with have successfully incorporated these features in to their practice.

Therapeutic aspects of the explanation

Diagnoses and explanations in medicine are often, in themselves, therapeutic. The patient with migraine will no longer worry about a brain tumour when they realise that pain from a brain tumour would not *remit* as well as relapse. Even patients with motor neurone disease who are devastated and shocked at the news of a terminal illness may report a sense of relief that a cause has been found for their problems. Diagnostic limbo is a difficult state for anyone to be in regardless of the diagnosis.

Common approaches

Neurologists who are confident about the diagnosis of a functional disorder are often less confident about transmitting that information to the patient. There are several common approaches to this problem. It is worth rehearsing the pitfalls of each of these approaches (Table 2).

Giving a positive diagnosis

One solution to these problems, in my view, is to approach the problem in the same transparent and straightforward way you do for other patients seen in the neurology clinic (Table 3). Discussions about terminology go round and round [6,12] (and probably always will). I increasingly find that is not so much the precise terminology but the overall attitude of the doctor that matters.

Consider how you tell a patient that they have multiple sclerosis. Generally you start, within the first few sentences at least, by telling the patient that they have multiple sclerosis. There is then usually a discussion about why the

Table 2 Features of some common explanations offered by neurologists to patients for functional disorders and their associated problems.

Strategy	Comments
1. Making no diagnosis – No neurological disease (includes the term ‘non-organic’)	The patient is likely to go elsewhere to seek a diagnosis
2. Making an ‘unexplained’ diagnosis – e.g., these things are common in neurology and we do not really know why they happen	The patient is likely to go elsewhere to seek a diagnosis Many neurological disorders have known pathology but ‘unexplained’ or ‘unknown’ aetiology, e.g. MS/PD Neurologists should be familiar with functional disorders and be able to make a positive clinical diagnosis
3. Making an incomplete diagnosis – for example telling someone with a 3-week history of functional hemiparesis triggered by migraine that they just have migraine [44]	This may be acceptable to the patient (and be easier for the neurologist) but leads to a missed opportunity to understand symptoms and potential for reversibility
4. Trying to explain that the problem is psychological – for example explaining that these symptoms are often ‘stress-related’	Likely to be rejected by most (80%) of patients Often equated by patients as an accusation that the symptoms are ‘made up’ or ‘imagined’ Many patients with these symptoms do not have identifiable stress or psychiatric disorder This is, however, consistent with referral for psychological treatment

Table 3 Some suggested ingredients for a therapeutic explanation for patients with functional neurological disorders.

Ingredient	Example
Explain what they do have...	“You have functional weakness” “You have dissociative seizures”
Emphasise the mechanism of the symptoms rather than the cause	Weakness: “There is a problem with the way your brain is sending messages to your body – it is a problem with the function of your nervous system” Seizures: “You are going into a trance-like state a bit like someone being hypnotised”
Explain how you made the diagnosis	Show the patient their Hoover’s sign or dissociative seizure video
Indicate that you believe them	“I do not think you are imagining/making up your symptoms/mad”
Emphasise that it is common	“I see lots of patients with similar symptoms”
Emphasise reversibility	“Because there is no damage you have the potential to get better”
Explain what they do not have	“You do not have MS, epilepsy”, etc.
Emphasise that self-help is a key part of getting better	“This is not your fault but there are things you can do to help it get better”
Metaphors may be useful	“There’s a problem with the software of the nervous system rather than the hardware”
Introducing the role of depression/anxiety	“If you have been feeling stressed/low/worried that will tend to make the symptoms even worse” (often easier to achieve on a second visit)
Use written information	Send the patient their clinic letter. Give them some written information, e.g. www.neurosymptom.org , www.nonepilepticattacks.info
Stop the antiepileptic drug in dissociative seizures	If you have diagnosed dissociative (non-epileptic) attacks and not epilepsy, stop the antiepileptic drug
See the patient again	I will see you again. Please have a read of my letter and the information I have given you and come back with questions
Making the physiotherapy or psychiatric referral (preferably at a second visit)	“My colleague X (or my colleague Dr X) has a lot of experience and interest in helping patients with functional movement disorder – he won’t think you are crazy either”

diagnosis has been made – typical symptoms, signs on examination and an abnormal MRI that a doctor will preferably show to the patient. The conversation does not start with a discussion about all the neurological diseases the patients do *not* have (although that may come later). Neither does the conversation typically move early towards aetiology, which for most conditions is not found in the name of the disorder. The doctor may talk about inflammation or autoimmune disease but this is *mechanism* not aetiology – ‘how’ not ‘why’. When doctors do discuss the aetiology of multiple sclerosis then normally phrases such as “It’s just one of those things/bad luck” indicate to the patient that it is not their fault. It is also true that if you can see it on a scan or have heard of the condition then generally patients do not believe *a priori* that it is their fault anyway.

Following this initial discussion, the patient with multiple sclerosis or epilepsy may be directed to sources of information on the web and, with a bit of luck, an appointment with a specialist nurse so that they can have support and further information for their chronic condition. Patients with chronic conditions like diabetes and epilepsy are encouraged to self-manage and optimise their conditions but the neurologist or another physician will see the patient from time to time for review and certainly, in the case of multiple sclerosis, at least once more to answer questions.

So, translating this approach to functional disorders gives us a plan outlined in **Table 3**. Tell the patient what they *have* first (and discuss what it is not later). Discuss the positive evidence for the diagnosis from the history and examination and explain why it cannot be seen on any scans. Some discussion of mechanism is helpful – a problem with the software of the brain communicating to the limbs (functional motor disorders) or a trance-like state (dissociative [non-epileptic] attacks) – especially when linked to the examination findings or symptoms of dissociation. If the question of ‘why’ arises then it would seem quite reasonable to say that this varies from person to person, that there are various potential triggers including injury, pain, panic attacks and life stress but that in many people it is not clear and may well be ‘one of those things’.

As with other chronic disease management, being honest and transparent, encouraging the patient to understand their condition, providing self-help information (such as www.neurosymptoms.org or www.nonepilepticattacks.info) and optimising function are important. Specialist nurses or allied health professionals dedicated to this area hardly exist but would be a great advantage given the size and complexity of the problem.

If your current approach to talking to patients with functional disorders is different to how you approach other disorders, it is worth asking yourself why. Do you have an ambivalent attitude to the patient and a concern that the symptoms are voluntary? Are you changing your approach because you think they need a psychosocial formulation on the first assessment? Or perhaps you view these patients as ‘not having a diagnosis’ rather than having a diagnosis?

Arranging a follow-up visit

Table 3 also expands on other things that might be said by a neurologist during a 5- to 10-minute period at the end of

a consultation. In addition to explanation, the neurologist treating functional disorders like MS or epilepsy would normally see the patient again to go over the diagnosis. At that second visit, if the first one has gone well then other issues may emerge and referral to physiotherapy or psychiatry is likely to flow more naturally from the consultations. If the first consultation did not go well, this might be because the patient needs more time to understand it, or it might be that the patient is fundamentally not motivated or interested to pursue the diagnosis and treatment suggested. If that is the case then it would be sensible for the neurologist to defer referral to other services on the grounds that they are unlikely to be able to help someone who does not have some confidence in their diagnosis (see below). Either way, a follow-up visit from a neurologist can play a useful role in determining who might benefit from more treatment and who probably will not. A follow-up visit also allows a neurologist the chance to learn from experience by finding out when they have communicated well and when they have not.

Neurologists can do cognitive behavioural therapy

Cognitive behavioural therapy is often believed by physicians to be a rather complex ‘black box’ therapy, which can only be carried out by trained therapists. In fact, when a neurologist alters a patient’s view about their diagnosis during a single consultation (e.g. the patient came in thinking it was multiple sclerosis/brain damage and left believing they had a functional disorder and potential for recovery) then that is cognitive therapy. If the patient then changes their behaviour as a result of their new cognition then that is cognitive behavioural therapy. Arguably, a neurologist is better placed than anyone else to shift fundamental misconceptions that a patient may have about their diagnosis.

In addition to altering basic beliefs about their disorder, neurologists are in a position to offer simple tips for rehabilitation. For example they can explain about doing more on bad days and less on good days, using distraction techniques during movement (with music, talking, altered gait pattern) or distraction techniques before a dissociative (non-epileptic) attack.

Stepped care for functional neurological disorders

A group of health professionals working in this area in Scotland proposed a stepped care model for the treatment of patients with functional neurological disorders. Step 1 of treatment is the neurological consultation model described here [17]. The neurologist then has a key role in triaging and making onward referrals to the multidisciplinary team, which ideally involves physiotherapy, psychiatry/psychology, speech therapy and occupational therapy. My own personal preference for step 2 is a brief intervention either by a physiotherapist (for functional motor symptoms) or psychologist (for non-epileptic attacks). Step 3 is more complex multidisciplinary treatment.

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Describing further treatment with physiotherapy [13,22] and/or psychological treatments [16,31] is beyond the scope of this article. In brief though, there is good evidence emerging for the role of physiotherapy in particular for patients with functional movement and gait disorder. For example a recent randomised trial of three weeks of inpatient physical rehabilitation for patients with functional gait disorder of 9 months duration demonstrated a persistent mean 7-point change in a 15-point functional mobility scale compared to controls [18]. Another retrospective study of 60 patients undergoing similar physically oriented therapy (with no formal psychological treatment) also reported impressive results with 62% having only mild or no disability at follow-up [7]. Cognitive behavioural therapy has been shown to be a promising treatment for patients with dissociative (non-epileptic) attacks in a randomised controlled trial with a number needed to treat of 5 [16].

When treatment fails

The implication of a stepped care approach is that if the first step, the neurological assessment and explanation, fails then there is no foundation on which to build further treatment. Psychologists and physiotherapists who work with these patients often comment how hard their job is when the initial neurological consultation has gone badly and the patient still believes they are a 'medical mystery'. Conversely, further therapy appears much easier it is when the patient understands their diagnosis, especially its potential for reversibility [13]. In some patients, reiteration of that first step by the neurologist may improve the situation. There are a substantial proportion of patients however, who cannot understand or accept their diagnosis or benefit from treatment, however carefully and sympathetically it is explained to them. Common features of such patients include the following: patients unable to repeat back anything about their diagnosis on the second visit after a sympathetic initial consultation; personality disorder; very fixed views about an alternative diagnosis; the presence of a legal case; very longstanding and/or physically disabling symptoms. Clinicians should be cautious with this list as many patients with these features can be helped.

It is important for all health professionals to recognise when treatment has not helped or is not going to be helpful. It is not fair to ask a patient or therapist to continue treatment, which will probably fail and be demoralising for both parties. Instead, neurologists should be willing at times to acknowledge that, as with many neurological disorders, they do not currently have a treatment, which can help the underlying symptom, and they should instead focus on enabling the patient and protecting them from harm. In my own practice I say to the patient that I am sorry I cannot help their underlying condition and that I do not regard this as their fault. For some patients in this situation, aids such as wheelchairs or house adaptations are appropriate, even though these should be avoided in the patient with rehabilitation potential. I ask the patient's primary care physician to monitor for comorbid treatable conditions such as

Box 3: DSM-5 criteria for conversion disorder (functional neurological symptom disorder)

1. One or more symptoms of altered voluntary motor or sensory function.
2. Clinical findings provide evidence of incompatibility between the symptom and recognised neurological or medical conditions.
3. The symptom or deficit is not better explained by another medical or mental disorder.
4. The symptom or deficit causes clinically significant distress or impairment in social, occupational, or other important areas of functioning or warrants medical evaluation.

depression or anxiety and will offer to review if there are new neurological symptoms causing concern.

Classifications – recent changes and implications for practice

Recently published criteria for functional neurological disorders in the Diagnostic and Statistical Manual of Mental Disorders – 5 (DSM-5) [1] emphasise the importance of positive physical criteria in making the diagnosis (Box 3). Patients must no longer have had recent psychological stressor (even though some will have). These new criteria bring the diagnosis of functional disorders back in to a form that neurologists should be comfortable with using. In addition, the International Classification of Diseases (ICD-11) is also being revised for its 11th edition in 2015. For the first time, it is hoped that functional neurological disorders will appear in the neurology section as well as the psychiatry section [43]. One of the hopes of these revised international criteria is that they will encourage greater confidence in the diagnosis from neurologists and better interdisciplinary working between neurology and psychiatry.

Conclusion

Neurologists have always been the primary doctors responsible for making a diagnosis of functional neurological disorders. In contrast they often do not take responsibility for treatment. I have argued that there are multiple opportunities within a routine history taking, examination and explanation to begin therapy for the patient with a functional disorder. A method of explanation that simply mirrors that used for other neurological conditions may be best. This emphasises what the problem is (and not what it is not), why the diagnosis is being made, emphasises reversibility but does not depend on aetiological assumptions that may be incorrect. A successful consultation should be the beginning of treatment, not the prelude to treatment. New diagnostic criteria and structures in DSM-5 and ICD-11 will hopefully encourage neurologists to regain responsibility for the management

and not just the diagnosis of functional neurological disorders.

Disclosure of interest

The author runs a free website for patients with functional neurological disorders, www.neurosymptoms.org which is consistent with the content of the article but makes no money for the author. No other relevant conflict of interest.

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