CASE REPORT

Delivering patient-centred care in rural family practice: using the patient’s concept of health to guide treatment

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SUMMARY

Through an examination of the life of an 83-year-old patient diagnosed clinically with secondary progressive multiple sclerosis (MS), general practice specialists, consultants and junior doctors will see the importance of assessing their patient’s concept of health and how to use this understanding to target healthcare options within their healthcare system. This article highlights, in a resource limited context of rural family practice, the utility of a strong physician–patient relationship, recalls the definition of patient-centred care, and the role of judicious inaction in certain contexts. These lessons can be extrapolated for use in more resource rich or specialised settings such as academic hospitals throughout Europe.

BACKGROUND

General practitioners (GPs) need to think differently from specialists according to Ian McWhinney, the late British GP and forefather of the discipline of family medicine.1–3 Unlike hospital medicine, the family physician:

1. Treats individuals not diseases
2. Works in the context of a trusted long-term relationship
3. Treats the patient holistically (organismally)
4. Provides treatment without the segregation of mind and body seen in other disciplines

A GP is in a unique position to take into account the personal concepts of health and social context that impacts the health of their patients. GPs in rural under-serviced areas often independently manage complex medical conditions that are impacted by psychosocial and resource challenges. They must make compromises in order to provide the best patient-centred care in the patient’s (not the doctor’s) cognitive framework.1–3 As we follow the journey of an 83-year-old patient with multiple sclerosis (MS) who lives alone in rural Ireland, we will attempt to illustrate her clinical diagnosis, understand her concept of health and identify ways her GP has targeted her care with action and inaction within the available healthcare system.

Neurological examination (2014)

The patient was examined by the first author in her home in 2014. She was awake, alert and comfortable sitting on the seat of a 4-wheeled walker. She ambulates in a seated position using her lower limbs to propel the walker. Examination of the cranial nerves was unremarkable. Visual acuity was tested with hand motions. The patient was able to read. Corneal reflexes were not tested for patient comfort. The patient’s gait was not assessed as the patient was unwilling to ambulate. The examination of the patient’s cognition, upper and lower limbs and cerebellum were also unremarkable, while proximal muscle weakness was described; it was not evident on physical examination. Her mood was euthymic and congruent throughout.

DIFFERENTIAL DIAGNOSIS

1. Clinically isolated syndromes suggestive of MS
2. Peripheral polyneuropathy
   A. Vitamin B12 deficiency
   B. Diabetes mellitus
   C. Inclusion body myositis
3. Infections
   A. Neurosyphilis
   B. Leprosy
4. Compressive spinal cord lesions
5. Acute disseminated encephalomyelitis

MULTIPLE SCLEROSIS

MS is a chronic inflammatory demyelinating disease of the central nervous system (CNS) with prevalence of 289 per 100 000 population in UK general practice.3–10 It has higher rates in women
and Northern regions. Its aetiology remains unknown but is hypothesised to be due to the interaction of genetic susceptibility with predisposing environmental or viral inciting factors.

Clinically it is divided up into a relapsing and remitting course (RR-MS) and primary progressive course (PP-MS) which does not see the same return of function after acute episodes. Eventually RR-MS will convert into a secondary progressive MS where you do not see return of function, and where treatments are moderately effective at best.

This is clinically the current stage of the patient's disease.

MS is a clinical diagnosis with investigations to support.

While it is difficult to imagine a modern patient diagnosed with MS without the use of imaging or supporting laboratory values, MRI technology was not available outside the theoretical sphere until the 1970s. The slow stepwise progression of the disease over 60 years is also consistent with this diagnosis. While MS in childhood is rare, headaches are not unheard of as part of a presenting constellation of features such as fatigue.

The evolution of symptoms leading to the patient's clinical diagnosis at age 23, illustrates the classic evolution of MS meeting clinically likely diagnostic criteria:

1. a young adult woman (1) who experienced multiple episodes of clinical white matter (2) CNS dysfunction (3) in multiple anatomic locations (4) separated in time and space (5), with no better explanation (6). We note likely versus definite as without some investigation and documentation of neurological examination at the time, peripheral polyneuropathy and infection cannot be completely discounted.

Nevertheless, the clinical progression to date, resulting in urine incontinence, history of heat intolerance (Uhthoff phenomenon) at presentation causing exacerbation of symptoms during exertion, combined with progressive optic pathology (although never formally examined) presents a convincing clinical argument to support a diagnosis of MS.

**PATIENT'S PERSPECTIVE**

Her 'fragility' was finally explained almost 60 years ago, when she was diagnosed with MS by a GP in the community. Since then, she has coped well with her illness, accepting all help that can be provided to her within her home and community by her rural GP. As the disease progressed, the patient finds herself more and more debilitated, welcoming further medical services and home care as available and necessary, but avoiding advanced secondary care that might assist particularly with the visual concerns. Why? What is patient-centred care in this situation? To understand, let us explore the patient’s concept of health:

A farmer’s daughter, the patient, and her three siblings come from modest stock. 'I was not as strong as I should be,' but there was ‘nothing really I could do. When I got really tired, I rested a wee while and then (got) going again’. I used to cycle a lot to (town). However, doing this, she still felt the journey took a whole lot of my energy away. 'I used to go out, but it would upset me. (Now) going out is too much, it is a wile worry'.

However, the patient is delighted for the social company that is available at home. Today she misses her brother not only as a sibling but as 'he was great company to me'. She welcomes her rural GP and reaches out whenever she has need of supportive services or prescriptions and is grateful for the home visits that can sometimes be provided. She is glad to have the students over to help them learn and give back, and she is comfortable saying when she is tired or in need of a break. Here, in her own environment, and despite her inability to get into the bed or toilet independently, she is content to accept any and all care that is available.

**TREATMENT**

In the 1950s, MS was thought to result from limited blood flow. Treatments based on this cutting edge science, were not available outside the academic centres and certainly not in rural Irish town.

Thus, initially, no treatment was provided to the patient aside from X-rays (new technology at the time which might have had a therapeutic benefit). Improved health was seen between what is presumed to be inflammatory episodes, which eventually took much of her sight, bladder control and ability to ambulate without the aid of a wheelchair. During this time the patient had numerous falls associated with balance and weakness among other symptoms. Each time the patient found herself in hospital, she was diagnosed with MS without the use of imaging or supporting laboratory values, MRI technology was not available outside the theoretical sphere until the 1970s.

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**OUTCOME AND FOLLOW-UP**

Patient-centred care: using the patient’s concept of health to target treatment

As GPs, our cognitive bias tells us that in this case, the GP would ideally serve as a team lead and coordinator, a health advocate and support for the patient facilitating access to every possible specialised resource available to manage MS. For this patient, the GP uses this patient’s concept of health to streamline her efforts and treats her patient effectively and efficiently using the concept of ‘judicious inaction’. She provides supportive care and directs access to home help. The patient is thrilled her GP coordinates home support and care, provides home health visits when necessary and prescriptions for symptomatic management. Her current GP only attempts to coordinate secondary care when absolutely necessary (ie, in the case of a fall) as ultimately, this care is outside the patient’s personal concept of health. Previously practitioners attempted care outside the patient’s concept of health and the patient will cancel or miss any appointments made for her outside her home and community. She will not accept help from her GP removing barriers for her to access secondary care services as these services available outside her community fall outside her concept of health.

A clinician can feel helpless and ineffective when their patient declines offers to go to hospital to get treatment for a flare-up or a cardiac condition as is medically indicated. However, by going back to the organisational view of the patient in a long-term continuing relationship noted by McWhinney, it should become clear to trainees and experienced clinicians alike why this sort of care would not be, in this case, patient-centred. In terms of maximising patient-centred healthcare, the real role for
the physician is more that of a communicator of options, collaborator in creating the patient’s vision of health and a professional caring for the patient in her beloved home.

One might then ask why this approach was not taken initially as this patient has been in the system for 60 years. The answer is evident when one considers this case is being discussed with the accuracy of hindsight. Like many problems in medicine, it is often a GP’s biggest challenge to identify a patient’s true concept of health. In this case, as is often the case, the current understanding of this patient’s concept of health was developed over time by trial and error as a product of multiple discussions had over the course of the longitudinal therapeutic relationship.

This patient and her story illustrates a clinical diagnosis of MS, elicits understanding of how the patient’s concept of health enables more targeted healthcare, and provides perspective on why patients might reject treatment that is intended for their benefit. Finally, this case supports the ideal of targeted options and discussion within both the patient’s concept of health and the healthcare system as a way to develop the clinician–patient relationship and improve on professional efficiency. ‘Judicious inaction’ need not be viewed as neglect but can be considered a part of patient-centred care.

CONCLUSION
Lessons for the developing trainee
This case highlights that some neurological diagnoses, including MS, are clinical. It reinforces to all physicians and particularly GPs the importance of assessing their patient’s concept of health and how to use this understanding to target healthcare options within their healthcare system. Through a discussion of the patients long-term relationship with her GP, her disease progression and the current outcome; this article demonstrates the utility of a strong physician–patient relationship in providing patient-centred care and highlights advantages of judicious inaction within these contexts.

Learning points

- Multiple sclerosis (MS) is primarily a clinical diagnosis.
- It is important for all healthcare providers particularly general practitioners to assess their patient’s concept of health.
- Clinicians should use this concept of health to target healthcare options within their healthcare system.
- Appropriate care can sometimes be exemplified by ‘judicious inaction’ in certain contexts.

Acknowledgements  Professor AW Murphy; Professor P Cantillon; Dr P Hayes; Dr B Callaghan; Dr Liam Bannan; Dr Clarissa Moodie, Medical Editor; Ms Gillian McGlinchey; Ms Myriam Davidson; Ms Jennifer Lay; The staff at the patient’s health centre.

Contributors  JMC performed the data acquisition, analysis, and interpretation of data for the work with oversight from EM. Both authors made substantial contributions to the conception and design of the work. Both authors were involved in the drafting (JMC) and revising of the work (EM and JMC). JMC and EM gave final approval of the version to be published. JMC and EM are in agreement to be accountable for all aspects of the work in ensuring that questions related to the accuracy or integrity of any part of the work are appropriately investigated and resolved.

Competing interests  None declared.

Provenance and peer review  Not commissioned; externally peer reviewed.

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REFERENCES
Reminder of important clinical lesson

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