Introduction

The word ‘empathy’ originates from the German word ‘Einfühlung’ (‘in + feeling’) which in turn was translated from the Greek word ‘empathia’ (‘physical affection, passion’) [1].

Empathy is a concept which can have somewhat different meanings depending on the context. Merriam-Webster’s dictionary defines empathy as ‘the action of understanding, being aware of, being sensitive to, and vicariously experiencing the feelings, thoughts, and experience of another of either the past or present without having the feelings, thoughts, and experience fully communicated in an objectively explicit manner’ [2].

The concept of clinical empathy has evolved over the last decade. A systematic review by Di Blasi et al. [3] suggested that physicians who display a warm, friendly, and reassuring manner with their patients are more effective. The Society of General Internal Medicine (SGIM) defined clinical empathy as ‘the act of correctly acknowledging the emotional state of another without experiencing that state oneself ’ [4]. In contrast, Halpern [5] argued that physicians’ emotional attunement greatly serves the cognitive goal of understanding patients’ emotions.

Bohart and Greenberg [6] reviewed the many definitions of empathy within psychotherapy and concluded that they have in common, ‘trying to sense, perceive, share or conceptu-
alise how another person is experiencing the world’. Morse [7] conducted an extensive literature review on empathy, and summarised the 4 key components of empathy. They were: 1. Emotive component: the ability to subjectively experience and share in another’s psychological state or intrinsic feelings. 2. Moral component: an internal altruistic force that motivates the practice of empathy. 3. Cognitive component: the helper’s intellectual ability to identify and understand another person’s feelings and perspective from an objective stance. 4. Behavioural component: communicative response to convey understanding of another’s perspective.

Similarly, Barrett-Lennard [8] developed a multi-dimensional model of clinical empathy, referred to as the ‘empathy cycle’, which consists of 3 phases. Phase 1 is the inner process of empathetic listening to another who is personally expressive in some way, reasoning, and understanding; phase 2 is the attempt to convey empathetic understanding of the other person’s experience; and phase 3 is the client’s actual reception or awareness of this communication.

As to an exact definition of clinical empathy, it is unlikely that 1 definition is adequate to cover all components and all clinical encounters and situations, but there are certain elements that are common to most definitions. For example, Coulehan et al. [9] proposed a simple definition for clinical empathy: ‘the ability to understand the patient’s situation, perspective and feelings, and to communicate that understanding to the patient’. Mercer and Reynolds [10] argued that clinical empathy is ineffective without a behavioural or action component, i.e., without demonstrating unequivocally that physicians do indeed grasp what the patient is experiencing, and are able to act accurately on the basis of this understanding. This, in turn, requires a feedback loop – checking back with the patients that they have understood correctly.

Is Clinical Empathy Associated with Improved Therapeutic Outcomes?

The role of clinical empathy in improving therapeutic outcomes has been studied extensively by researchers in a range of clinical settings, but empathy research originated in the field of psychology, and it has been of particular interest to psychotherapy researchers. Orlinsky, Gawe and Parks’ [11] review of 115 studies of therapeutic empathy and outcome in psychotherapy reported that in over half the studies, therapeutic empathy was significantly correlated with therapeutic outcome. They also found that when therapeutic empathy was assessed by patients, empathy was positively correlated with recovery in 34 of 47 studies. A more recent meta-analysis of 59 studies by Elliott et al. [12] showed that empathy was moderately associated with improved therapeutic outcomes in psychotherapy, irrespective of the type of psychotherapy. Burns and Nolen-Hoeksema [13] demonstrated that therapeutic empathy has a moderate-to-large causal effect on recovery from depression in a group of 185 patients (aged 18–75 years) treated with cognitive-behavioural therapy (CBT). The authors simultaneously estimated the reciprocal effects of depression severity on therapeutic empathy and found that this effect was quite small.

Compared to mental health settings, the evidence for empathy improving clinical outcomes in other clinical contexts is more limited, though there is good evidence of positive associations between clinician empathy and patient satisfaction and enablement. In a study of 710 cancer patients in Germany, for example, clinical empathy was positively associated with improvement in patient-reported outcomes measured by major depression inventory (MDI) and European Organisation for Research and Treatment of Cancer (EORTC) quality of life (QoL) questionnaire QLQ-C30 [14]. Clinical empathy also led to improvement in patient enablement, and in turn improvement in patient-reported outcomes in a study of general practice (GP) consultations with 323 patients living in high deprivation areas of Scotland [15]. In a study of 1,015 out-patients attending 25 consultants across 10 different specialties, clinical empathy was positively related with increase in patient satisfaction and whether the patients would recommend the physician [16]. In an interesting randomised controlled trial of 719 clinical encounters with patients with common cold in the USA, an increase in patient-perceived empathy was associated with reduction in severity and duration of symptoms [17]. Recently, Hojat et al. [18] showed that physicians’ empathy was associated with positive clinical outcomes for diabetic patients, as measured by improvement in HbA1C results, in a study of 891 diabetic patients.

The association between improved therapeutic outcomes and clinical empathy has also been demonstrated in complementary medicine settings, though the study numbers have been small. Price et al. [19] in a study of 52 patients showed that increase in empathy in acupuncture consultations predicted better health outcomes for patients at 8 weeks, as measured by Measure Yourself Medical Outcome Profile (MYMOP). Bikker et al. [20] showed that empathy in homoeopathy consultations was positively associated with improvement in patient complaint and well-being at 3 months, in a study of 117 patients.

How Does Clinical Empathy Improve Outcomes?

Neumann et al. [21] proposed a model to explain the possible mechanism by which clinical empathy in the physician-patient relationship might improve therapeutic outcomes (fig. 1). Empathic communication in a clinical encounter can achieve various positive effects. To begin with, patients are likely to tell more about their symptoms and psychosocial concerns to an empathic physician [9, 22, 23]. This enhanced medical and psychosocial information sharing leads to a more accurate di-
Hemmerdinger et al. [31] did a systematic review of tests of empathy in medicine. They identified 50 relevant papers describing 59 different instruments for measuring empathy in the medical consultation. However, they found only 8 instruments to have an evidence base supporting their reliability (inter-rater or test-retest) and valid internal consistency. Of these, 6 were self-rated measures, which were labelled by the authors as first person measures: Medical Condition Regard Scale (MCRS) [32], Jefferson Scale of Physician Empathy (JSPE) [33], Empathy Test (ET) [34], Empathy Construct Rating Scale (ECRS) [35], Davis’ Interpersonal Reactivity Index (DIRI) [36] and Balanced Emotional Empathy Scale (BEES) [37]. According to the systematic review, all of the 6 tests had evidence supporting their test-retest and inter-rater reliability but none of these first person measures were correlated with empathy or patient care, as judged by diagnosis [24, 25]. Additionally, the empathic physician is able to identify with the patient and has a better understanding of individual patients’ needs [26]. Consequently, empathic physicians can reciprocate by means of specific medical/psychosocial therapies and provide appropriate illness-related information, allowing patient participation while doing so [10, 19, 27, 28]. This, in turn, leads to improvements in patient satisfaction, patient enablement and compliance with proposed therapies [19, 28, 29]. These positive effects of clinical empathy on an efficient patient-physician relationship are thought to explain its association with improved outcomes in therapy.

Importantly, empathic consultation has advantages for the physician as well. Roter et al. [30] found that physicians with an engaged, psychosocially oriented communication style experience burnout less frequently than others.

**Measurement of Clinical Empathy**

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patients. However, in a study published last year, Hojat et al. [18] have shown that empathy measured by JSPE is associated with better clinical outcomes (improvement in HbA1C) in diabetic patients.

The review concluded that only 1 measure, the Consulta-
tional and Relational Empathy (CARE) measure, had suitable
validity and reliability for measuring physician empathy from the patients’ perspective [38]. The CARE measure not only has high internal consistency, but also demonstrates other important aspects – reliability and validity [39].

The final, 8th instrument was the Four Habits Coding Scheme (FHCS), an observer-rated measure, which showed validated internal consistency [40]. The FHCS was correlated with patient evaluations of care, but correlation was not statistically significant.

In the field of psychotherapy, the Barrett-Lennard Rela-
tionship Inventory (BLRI) [41] and the 10-item Empathy Scale (ES) devised by Persons and Burns [42] are widely used patient-rated measures of empathy measurement. The BLRI is based on operational definition of Rogers’ hypothesis that client’s perceptions of therapists’ facilitative conditions (positive regard, empathy and congruence) predict therapeutic outcome [43]. One of the earliest empathy measurement scales was developed by Truax and Carkhuff in 1967 [44], which was observer-rated. Typically, trained raters listened to 2- to 5-min samples from psychotherapy session tapes. More recently, observer-rated empathy measures have been developed which measure multiple component elements of empathy [45, 46]. Finally, BLRI has a self-rating component which measures therapist’s rating of empathy.

There is considerable evidence to suggest that patient-rated empathy in clinical encounters is more reliably associated with better therapeutic outcomes than self-rated empa-
thy, both in medicine and psychotherapy [11, 12, 21].

Barriers and Facilitators of Empathic Consultation

Researchers have studied various factors which help or hinder empathic consultation in medicine, medical education and psychotherapy. These can be broadly divided into physician factors, situational factors and patient factors.

Several studies have demonstrated a decline in empathy over the course of medical training, both during medical school and during early hospital training. A systematic review of such studies concluded that physician distress (e.g., burnout, stress, reduced QoL) was a significant factor in self-as-
essed empathy decline [47]. Although this may seem to con-
tradict the work that suggests empathy is protective of burn-
out [30] it should be noted that these studies employed differ-
ent research designs (cross-sectional and longitudinal) and studied physicians at different stages of their careers.

Non-verbal communication or body language could be equally important as verbal communication. Various studies of client’s experience of psychotherapist’s empathy have shown that non-verbal skills such as therapist’s posture and maintaining eye contact could improve perceived empathy, along with verbal skills such as using emotion words, giving advice and not interrupting [48–50]. Another potential individual physician factor affecting empathy is gender, with 1 paper reporting that female medical practitioners are more empathic than male, though this is variable and likely to be influenced by other factors [51].

Situational factors like time are important, with lack of time being a barrier for an empathic consultation. For in-
stance, there is evidence that more time leads towards higher patient-perceived empathy in UK GP consultations [52]. The degree of familiarity between psychotherapist and client influences the level of empathy, underlining the importance of continuity of care [49]. Other contextual factors, like institu-
tional culture and workload, may have a considerable impact on an individual’s ability to behave empathically. There is some evidence, for instance, that doctors working in more person-oriented medical specialities (like GP) have higher levels of empathy than those working in, e.g., surgical speciali-
ties [53].

Finally, patient factors are likely to be an important con-
tributor. For example, studies have found that levels of empa-
thy in psychotherapy were higher with clients who had less clinical dysfunction and who were brighter [54]. As Barrett-
Lennard [8] pointed out, the patients’ sharing of their experi-
ence is an essential link in the cycle of empathy. This is likely to be influenced by patients’ individual personality and other factors such as self-awareness and ability to communicate clearly, which may in turn be influenced by socioeconomic factors like level of education.

Can Clinical Empathy Be Enhanced Through Training?

It has been argued that if empathy can decline during medical training then it should also be possible to enhance clinical em-
pathy by targeted educational programmes [53]. Empathy has been considered a core element of professionalism in medi-
cine, incorporated into many undergraduate medical curricula [55]. Different approaches to enhance empathy in healthcare students have been explored. These have ranged from experien-
tial learning with ‘patient simulations’ (where students are placed in scenarios that their patients might face) [56] and ‘pa-
tient navigators’ (where students accompany patients over the course of a hospital admission) [57] to a more traditional focus on communication skills, both verbal and non-verbal [58].

Of course, programmes to increase empathy do not end at university. There is a growing number of post-graduate courses in areas such as mindfulness, with some evidence of their positive effects. For example, Krasner et al. [59] have demonstrated that mindfulness training can significantly im-
prove physician empathy, mood disturbance, and burnout. In
a similar vein, the work of Gilbert and colleagues [60] in compassion-focused therapy, which has clear overlaps with empathy, has attracted worldwide attention. Again, the mechanism of action regarding how mindfulness training improves empathy is not clear, and further research is required on this.

Nevertheless, the concept of clinical empathy does not have unanimous support. Some commentators dispute the very idea of being able to achieve empathy in a therapeutic consultation. For example, McNaughton [61] contends that ‘true empathy derives from an experience of intersubjectivity and this cannot be achieved in the doctor-patient relationship’. She does, however, believe that physicians can and should sympathise with their patients, and respond accordingly, so it could perhaps be argued that the dispute is more around semantics and definitions than a wholesale rejection of the concept itself.

**Conclusion**

Clinical empathy is a complex, multi-dimensional concept. However, it is widely accepted that it involves cognitive and affective elements and both verbal and non-verbal communication. Clinical empathy may improve health outcomes by enhancing physician-patient communication and making the consultation more effective. It is highly valued by patients, improving both self-reported satisfaction and enablement. As such, it also has a role in measuring physician performance and as an assessment tool in medical education, with patient-rated measurement tools for clinical empathy being more predictive of outcomes than self-rated measurement tools. Importantly, there is evidence to suggest that empathic therapeutic encounters are associated with better outcomes, although there is more evidence for this in mental health problems than physical health problems. The larger evidence base supporting better outcomes for mental health problems is reflective of the fact that the role of empathy has been investigated more often for mental health problems. There is, however, emerging evidence to suggest that empathy may have a role to play in improving physical health outcomes, especially in chronic disease management.

Several factors related to the physician, the patient and the environmental context are likely to influence clinical empathy – some positively (like increased consultation time and doctor-patient familiarity); others negatively (like stress and workload). Further research in this area should focus on contextual factors in and around the clinical encounter which contributes towards an empathic consultation, and on ways of augmenting these factors in education and practice.

**Disclosure Statement**

The authors declare no conflict of interest.

**References**

The Role of Empathy in Clinical Practice: A Review

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