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Drew A. Curtis Angelo State University

Han-Hung Huang Angelo State University

Kendra L. Nicks Angelo State University

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Patient Deception in Health Care: Physical Therapy Education, Beliefs, and Attitudes

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Introduction

Human behavior is dynamic. Physical and psychological factors are knitted into the fabric of healthy human functioning. The primary role of physical therapists is to "restore function, improve mobility, relieve pain, and prevent or limit permanent physical disabilities in patients with injury or disease" (American Physical Therapy Association, 2017). One factor that may present a barrier to fulfilling this role is the interpersonal aspects of the patient-therapist relationship, specifically when patients are deceptive. In the clinic, patients who falsely describe their health history falsely present clinical signs and symptoms or falsely respond to physical tests and measurements may mislead therapists' clinical judgement during physical therapy (PT) assessments. In addition, patients who falsely claim to be adhering to home exercises may adversely affect the PT plan of care and the treatment outcomes. For example, if a patient is being deceptive about being compliant with their home program, the therapist may attempt to progress them too quickly thereby causing more injury. Patient deception can also hinder the therapeutic alliance, which correlates with treatment adherence and has some effects on treatment outcome (Babatunde, MacDermid, & MacIntyre, 2017; Curtis & Hart, 2015; Kelly, Kraft-Todd, Schapira, Kossowsky, & Riess, 2014; Newman & Strauss, 2003). Additionally, patient deception could lead to mismanagement of their plan of care, which could extend to other healthcare providers. For example, a patient who falsely reports being compliant with PT to their physician may lead to an inappropriate treatment. Patient deception adds unnecessary cost to the burden of health care on the nation. In 2012, the Institute of Medicine reported that the cost of fraud on the nations was \$75 billion dollars (McGinnis, Saunders, Smith, Stuckhardt, 2012). They defined one aspect of this fraud as the overutilization of services that can happen as described above when a patient is deceptive regarding compliance with a less expensive treatment.

Lies and beliefs about lying behavior are found across various cultures (Global Deception Research Team, 2006). People tell an average of one to two lies per day, with a smaller group of people lying more frequently than others (DePaulo, Kashy, Kirkendol, Wyer, & Epstein, 1996; Serota, Levine, & Boster, 2010; Vrij, 2000). Motivations to lie are numerous and one theoretical framework has proposed that people lie to manage impressions (DePaulo et al., 2003). Not surprisingly, lies have been documented within various professions (see Vrij, 2008), including healthcare professions. A national survey found that 28% of Americans reported sometimes lying to their healthcare provider, which is an underestimate according to healthcare professionals (General Electric Healthymagination, 2010). Patients may lie for various reasons (Curtis, 2013) with most lies being told for self-oriented reasons (DePaulo et al., 1996). Patients may feign symptoms to receive medication (Jung & Reidenberg, 2007). Patients may also lie to mental health professionals. For example, psychotherapists have detailed accounts of a variety of discovered client deceptions (Kottler & Carlson, 2011). Clients' lies ranged in motivation and type of lie, from purposefully falsifying all information within therapy (Grzegorek, 2011) to intentionally leaving out information about dying from a terminal illness (Rochlan, 2011).

As people lie, people seek to detect those lies. For example, the most commonly held stereotype across 75 countries about liars is that they avoid eye contact (Global Deception Research Team, 2006). However, eye gaze behavior has been found to be unrelated to deception (Vrij, 2008). In fact, people are not generally very good at detecting deception, slightly greater than chance

(54%; Bond & DePaulo, 2006). Even professionals are not much more accurate (56%; Vrij, 2000). One of the reasons that people may not be accurate lie detectors is the reliance on faulty beliefs about deceptive behavior (Forrest, Feldman, & Tyler, 2004). While there is not one prominent and consistent behavior that reveals people deception (like your nose is growing when you lie), various behavioral indicators have been suggested such as decreased hand limb movements and increased latency to respond as well as pitch of voice (Akehurst, Köhnken, Vrij, & Bull, 1996; DePaulo et al., 2003; Hart, Hudson, Fillmore, & Griffith, 2006; Hart, Fillmore, & Griffith, 2010; Sporer & Schwandt, 2006; Vrij, 2000; 2008). Many of these cues are found crossculturally, though this literature base is scant (Curtis & Hart, 2015; Taylor, Larner, Conchie, & van der Zee, 2015). However, people across various professions, including psychotherapists, nursing students, managers, and police officers, hold inaccurate beliefs about these indicators of deception (Bogaard, Meijer, Vrij, & Merckelbach, 2016; Curtis, 2015; Curtis & Hart, 2015; Hart, et al., 2006; Hart et al., 2010). In addition, people do not usually like to be lied to, nor do they think positively of liars. Within healthcare professions, Curtis and Hart (2015) recently found that psychotherapists held a number of negative attitudes toward clients who lied in psychotherapy compared to those who did not. Some of the numerous negative attitudes that psychotherapists reported toward clients who lie were that they were less likely to like them, more anger toward them, seeing them as a bad person, and thinking more negatively of them. Very similar findings were discovered when surveying nursing students' attitudes toward clients who lie (Curtis, 2015).

The implication of healthcare professionals incorrectly labeling patients as liars has been suggested to affect the professional-patient relationship including clinicians' attitude toward patients (Curtis, 2015; Curtis & Hart, 2015). Much like other healthcare professionals, PT clinicians' attitudes are equally important when considering the impact on the practice and the patient-therapist relationship. However, there is limited report about PT practitioners' beliefs about and attitudes toward patient deception. In addition, it is unclear how this topic is addressed in the current education on Doctor of Physical Therapy (DPT) students. Therefore, the objectives of this study were: (1) to investigate how the topic of patient deception is covered currently in DPT educational curriculum, (2) to explore DPT students' beliefs about and attitudes toward patient the effects of a pedagogical intervention on DPT students' beliefs about and attitudes toward patient deception.

Methods

Survey for Current DPT Education on Patient Deception

Two hundred seventeen surveys were sent out by email to the program directors of the accredited PT programs listed in the Commission on Accreditation in Physical Therapy Education (CAPTE) directory. The email provided the purpose of the study and contained a URL link to the study hosted through a secure online research software. The email recipients were asked to complete the brief questionnaire or kindly forward it to any faculty who are teaching courses that might cover ethics or patient deception. Upon selecting the URL link, participants were provided an informed consent. After reading and consenting to participate in the research study, the participants were asked to complete the one brief questionnaire the PT Training in Deception Questionnaire (PTTDQ, see Appendix A). The PTTDQ questionnaire was constructed by the researchers to assess the current training related to deception within PT programs.

DPT Student Participants

We recruited 17 participants through DPT program at a southwestern university. Students were informed that the researchers were interested in collecting data before and after a deception educational workshop. Students were provided informed consent and were instructed that their participation in the research aspect of the educational workshop was voluntary. Following the informed consent, students were provided with two packets of questionnaires. The first packet contained a demographic questionnaire, Detection of Deception Questionnaire (DDQ; see Appendix B), and the Attitudes Toward Patient Deception Scale (ATPDS; see Appendix C). The second packet contained the same questionnaires (DDQ and ATPDS) except for the demographics questionnaire. Students completed the forms within the first packet. Then, participants were provided the educational workshop and completed the post-workshop second packet of questionnaires. Lastly, students were provided with the debriefing form.

Detection of Deception Questionnaire (DDQ)

The DDQ was developed by Hart and colleagues (2006; 2010) and has been used in other studies examining professionals' beliefs about indicators of deception regarding patient or client deception (Curtis, 2015; Curtis & Hart, 2015). The DDQ consists of 30 items. The first item asks participants to indicate their confidence in their ability to detect deception on a 7 point Likert-type rating scale (1 = not confident at all, 7 = extremely confident) and the second item asks how often participants thought patients lie to them (1 = very rarely, 7 = very often). The remaining items asked participants to indicate whether they believed each of 28 behaviors increases, decreases, or remains the same when patients lie (1 = significant decrease in behavior, 4 = no change in behavior, 7 = significant increase in behavior).

Attitudes Toward Patient Deception Scale (ATPDS)

The ATPDS is a 24 item attitudinal scale that has been used in research investigating nursing students' attitudes toward patient deception (Curtis, 2015). The ATPDS is an adaptation of the Therapist Attitudes Towards Deception Scale (TATDS), in which the last 12 attitudinal items were adapted from studies investigating physical therapists' and physicians' attitudes (Curtis, 2013; Foster et al., 2003; Sack, Radler, Mairella, Touger-Decker, & Khan, 2009). The TATDS has shown high internal consistency reliability (Cronbach's $\alpha = .83$; Curtis, 2013). The only change in the ATPDS from the TATDS is asking participants to rate patient deception rather than client deception. The ATPDS asks participants to indicate on 12 items how their attitudes would change if a patient's lie was discovered, on a 9 point Likert-type rating scale (1 = decrease, 5 = no change, 9 = increase). On the remaining items, participants are asked to indicate their attitudes toward patients who lie to physical therapists compared to those who do not lie to physical therapists, on a 7 point Likert-type rating scale (e.g., 1 = not very pleasant, 7 = very pleasant). The ATPDS demonstrated acceptable internal consistency reliability in previous research (Cronbach's $\alpha = .88$; Curtis, 2015). The ATPDS for the current study demonstrated acceptable internal consistency reliability during both administrations (Cronbach's $\alpha = .79$; .83).

Educational Workshop

A one-hour workshop was presented to DPT students. The workshop was conducted by a Counseling Psychology professor with expertise in human deception. The workshop provided an overview of deception from various sources of literature (DePaulo et al., 1996; Vrij, 2008). The

workshop was a lecture and discussion based presentation that covered areas of deception including the frequencies of its occurrence, types of lies, motivations for its use, deception detection, relational effects of deception, deception within professional relationships, beliefs about deception, and attitudes toward the use of deception. After discussing deception, the professor provided research resources regarding 28 indicators of deception (Akehurst et al., 1996; DePaulo et al., 2003; Hart et al., 2006; Hart et al., 2010; Sporer & Schwandt, 2006; Vrij, 2008) with accompanying handouts. The students were asked to review the indicators and then quiz each other within pairs. The quiz responses were not used in data collection. The intent of quizzing was to facilitate active learning and activate working memory to retain the correct indicators of deception. Following the indicator activity, the presenter discussed how attitudes toward patient deception may affect clinical practice, specifically aspects of PT.

Analyses

Descriptive statistics were conducted to evaluate responses on the survey for current DPT education on patient deception. Similar to other research (Curtis, 2015; Curtis & Hart, 2015) one-sample *t*-tests were applied on each of the 28 behavioral variables comparing participants' responses to a no-change anchor (= 4) to determine if behaviors were believed to change when patients lie, and the direction of behavioral change (1 = significant decrease in behavior, 4 = no change in behavior, 7 = significant increase in behavior). A Bonferroni adjustment was applied to the analyses, in order to avoid a Type I error (correction = .002). The mean of each indicator was then categorically compared to prior research of deception indicators. To examine beliefs from pre-workshop to post-workshop, categorical differences were compared.

One-sample *t*-tests were used on each of the 24 attitude items with a mid-point anchor (Items 1-12 midpoint = 5; items 13-24 midpoint = 4). Similarly, a Bonferroni adjustment was applied (= .002). To examine overall attitudes from pre-workshop to post-workshop attitudinal items were summed to derive a total attitude score for comparison and a paired samples *t*-test was conducted on total attitude scores. To examine the effect size, Cohen's d was used (Cohen, 1988).

Results

Survey for Current DPT Education on Patient Deception

Forty CAPTE accredited DPT programs responded to the survey (response rate: 18.4%). Over half of participants responded that their program length was less than 10 years and the majority responded that there were 31 to 40 students in each cohort. All participants responded that their program curriculum formally contained some information about ethics. Most participants (85.0%) stated that their program included moderate to very much information about ethics (M =5.05, SD = 1.25). The topic of patient and therapist deception is minimally included within their program curriculum (M = 2.89, SD = 1.41 and M = 3.22, SD = 1.73, respectively). However, patient and therapist deception it is seen as a moderately important area for their programs (M =3.53, SD = 1.84 and M = 4.00, SD = 2.04, respectively; Table 1).

Questions	N	Mean	SD
1. How much does your current program curriculum formal	ly 37	5.05	1.25
include information about ethics?			
2. How much does your current program curriculum formal	ly 36	2.89	1.41
include information about patient deception?			
3. How much does your current program curriculum formal	ly 36	3.22	1.73
include information about therapist deception?	-		
4. How important is the area of patient deception for your	36	3.53	1.84
program?			
5. How important is the area of therapist deception for your	35	4.00	2.04
program?			

Table 1. Summary of survey results for current DPT education on patient deception

Note: Likert-type scale (1 = None; 7 = Very much) were used for the question 1, 2 and 3. Likert-type scale (1 = Not at all important; 7 = Extremely important) were used for the question 4 and 5. (SD: Standard deviation)

DPT students' belief about patient deception

The participants ranged in age from 24 to 38 years old (M = 26, SD = 3.48). Participants' sex was fairly equally represented. The majority (64.7%) were Caucasian/European American and holding a Bachelor of Science Degree (94.1%). Almost every DPT student had been supervised as a volunteer in PT clinics and had participated in clinical integrations as well as one clinical practicum in acute care. Work settings of previous clinical experience varied, including hospital, private practice, rehabilitation center etc. Specialties in clinical experience also varied across participants. The participants reported very little exposure to literature on deception, training in patient deception, and training in deception detection. Confidence in detecting patient deception was moderate.

Before the educational workshop, students held accurate beliefs for 7 of the 28 indicators of deception (Table 2). The correctly identified indicators were: increased pitch of voice, decreased logical consistencies and no changes in smiles, shrugs, length of answers, descriptions of their own feelings, and descriptions of interactions with others.

Behavioral indicators of deception	Identified by prior research	Students' beliefs before workshop	Mean (SD)	Sig.	Students' beliefs after workshop	Mean (SD)	Sig.
Eye contact	No change	Decrease	2.18 (0.64)	0.000	No change	4.12 (0.49)	0.332
Eye blinks	No change	Increase	5.35 (0.93)	0.000	No change	4.00 (0.00)	1.000
Head movements	No change	Increase	5.24 (0.66)	0.000	No change	4.00 (0.00)	1.000
Smiles	No change	No change	4.06 (1.03)	0.817	No change	4.00 (0.00)	1.000
Hand & finger movements	Decrease	Increase	5.47 (0.72)	0.000	No change	3.12 (2.06)	0.096
Arm movements	Decrease	No change	4.53 (1.33)	0.120	No change	3.12 (2.06)	0.096
Leg & foot movements	Decrease	Increase	5.24 (0.56)	0.000	No change	3.12 (2.06)	0.096
Postural Shifts	No change	Increase	5.82 (0.64)	0.000	No change	4.00 (0.00)	1.000
Shrugs	No change	No change	4.53 (1.01)	0.046	No change	4.00 (0.00)	1.000
Gestures	No change	Increase	5.35 (0.70)	0.000	No change	4.00 (0.00)	1.000
Number of speech interruptions (ah, um)	No change	Increase	5.71 (1.05)	0.000	No change	4.24 (0.75)	0.216
Number of pauses or hesitations	No change	Increase	5.35 (0.61)	0.000	No change	4.41 (1.23)	0.186
Latency to respond	Increase	No change	4.82 (1.38)	0.026	Increase	6.24 (0.66)	0.000
Hectic speech pattern	No change	Increase	5.29 (0.85)	0.000	No change	4.06 (0.25)	0.333
Pitch of voice	Increase	Increase	5.00 (0.79)	0.000	Increase	6.24 (0.66)	0.000
Length of answers	No change	No change	4.94 (1.75)	0.041	No change	3.18 (1.24)	0.014
Short simple sentences	Increase	No change	4.24 (1.35)	0.482	Increase	5.94 (1.39)	0.000
Plausible descriptions	Decrease	No change	4.29 (1.57)	0.452	No change	3.12 (1.73)	0.051
Logical consistencies	Decrease	Decrease	2.47 (0.87)	0.000	No change	2.94 (1.39)	0.006
Amount of detail in descriptions	Decrease	No change	4.06 (1.75)	0.891	No change	3.06 (1.52)	0.021

Table 2. DPT students' beliefs about lying-related changes in behavior before and after the educational workshop

Unusual details in descriptions	No change	Increase	5.41 (0.94)	0.000	No change	3.59 (0.94)	0.090
Unnecessary details in descriptions	No change	Increase	5.88 (0.70)	0.000	No change	3.47 (1.01)	0.046
Descriptions of their own feelings	No change	No change	4.35 (1.50)	0.346	No change	3.76 (0.66)	0.163
Recounting exactly what somebody said	Decrease	No change	4.29 (1.45)	0.415	Decrease	2.53 (1.38)	0.000
Descriptions of interactions with others	No change	No change	4.12 (1.27)	0.707	No change	3.71 (1.16)	0.311
Spontaneous corrections	Decrease	Increase	5.71 (0.59)	0.000	Decrease	2.12 (1.05)	0.000
Claiming a lack of memory	Decrease	Increase	5.47 (1.07)	0.000	Decrease	2.00 (0.94)	0.000
Contradictions	No Change	Increase	5.94 (0.66)	0.000	No change	3.47 (1.66)	0.208

Note: The mean values in each indicator were compared to a "No change" which is rating of 4.0. The students' accurate beliefs for indicators of deception both before and after the educational workshop are highlighted in light gray. The students held more accurate beliefs for 22 of the 28 indicators after the workshop. (SD: Standard deviation)

Following the workshop, students held accurate beliefs for 22 of the 28 indicators (Table 2). Except for the decreased logical consistencies, students were able to correctly recognize 16 more indicators including increased latency to respond, increased short simple sentences, decreased recounting exactly what somebody said, decreased spontaneous corrections, decreased claiming a lack of memory and no changes in eye contact, eye blinks, head movements, postural shifts, gestures, number of speech interruption (such as ah..., um...), number of pauses or hesitations, hectic speech pattern, unusual details in descriptions, unnecessary details in descriptions, and contradictions.

DPT students' attitude toward patient deception

Before the educational workshop, students held 15 negative attitudes toward patients who lie (Table 3). For example, if students discovered that patients were lying, they tend not to like the patients, are less likely to judge them as good patients, and have less desire to interact and work with them.

After the workshop, students held only 10 negative attitudes toward patients who lie and 5 negative attitudes were resolved (Table 3). For example, students would not be that angry at or thinking negatively of the patients who lie. When compared to patients who do not lie, students would not consider patients who lie are lazy or less pleasant.

The total attitude score was compared pre- and post-workshop, revealing a statistically significant difference (p < .001; Cohen's d = 1.75), which indicates that there were less negative attitudes toward patient deception after the workshop (M = 91.00, SD = 9.58) compared to attitudes prior to the workshop (M = 75.24, SD = 8.39).

Discussion

The current findings indicate that patient and therapist deception are minimally included within formal curriculum across DPT programs. Though minimally included, program directors and faculty deem deception within PT an area that is moderately important. These results are similar to findings regarding training within other healthcare professions (Curtis, 2013, 2015; Reed, 1996). Training in deception may be minimally included in PT and other healthcare professions due to the perceived therapist role, truth-bias, and a fear of incompetence (Barnett, 2011; Curtis, 2013; Kottler & Carlson, 2011; O'Sullivan, 2003). Education on deception in PT may be neglected because the focus is on clinical skills and competencies, similar to other healthcare professionals (Curtis, 2015; Curtis & Hart, 2015). Patient deception may be viewed as a peripheral matter, which may lead to its lack of inclusion in formal training and education. Further, physical therapists may operate with a truth-bias, in that assuming patients who want to get help will present symptoms honestly. Being biased toward patient honesty may contribute to a lack of discussion about deception within curriculum. Lastly, faculty and students may be fearful to talk about patient or therapist deception due to concerns of incompetence, in not detecting deception or for admitting to deceiving a patient.

	Students'			Students'		
Attitudes toward patient deception	attitudes before workshop	Mean (SD)	Sig.	attitudes after workshop	Mean (SD)	Sig.
Liking the patient	Decrease	3.76 (1.09)	0.000	Decrease	4.06 (0.97)	0.001
Being angry at the patient*	Increase	5.88 (0.78)	0.000	No change	5.12 (0.60)	0.431
Patient as a bad person*	No change	5.65 (0.79)	0.004	No change	5.24 (0.75)	0.216
Thinking negatively of patient*	Increase	6.12 (1.05)	0.000	No change	5.18 (1.07)	0.508
Judging patient harshly*	Increase	5.88 (0.86)	0.001	No change	5.47 (0.62)	0.007
Desire to interact with patient	Decrease	3.65 (1.00)	0.000	Decrease	3.94 (0.97)	0.000
Enthusiasm to work with patient	Decrease	3.35 (1.00)	0.000	Decrease	3.82 (0.64)	0.000
Judging client as a good patient	Decrease	3.65 (0.61)	0.000	Decrease	4.12 (0.93)	0.001
Speaking poorly of patient*	No change	5.29 (0.99)	0.236	No change	5.35 (0.79)	0.083
Trusting the patient	Decrease	2.53 (1.01)	0.000	Decrease	3.38 (1.03)	0.000
Thinking positively about patient	Decrease	3.53 (0.94)	0.000	Decrease	4.00 (0.79)	0.000
Viewing patient as sincere	Decrease	2.88 (0.93)	0.000	Decrease	3.71 (0.85)	0.000
Successful	Decrease	2.94 (1.03)	0.001	Decrease	3.41 (0.51)	0.000
Pathological*	No change	3.71 (0.77)	0.136	No change	4.00 (0.61)	1.000
Weak*	No change	4.18 (0.64)	0.269	No change	4.12 (0.60)	0.431
Compliant	Decrease	2.41 (0.94)	0.000	Decrease	3.13 (0.72)	0.000
Predictable	No change	3.65 (1.54)	0.358	No change	3.82 (0.88)	0.422
Pleasant	Decrease	3.00 (0.79)	0.000	No change	3.65 (0.79)	0.083
Lazy*	Increase	4.94 (0.97)	0.001	No change	4.35 (0.61)	0.029
Awkward*	No change	4.53 (0.80)	0.015	No change	3.94 (0.83)	0.773
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Table 3. DPT students' attitudes toward patient deception before and after the educational workshop

21	Knowledgeable	No change	3.82 (0.95)	0.455	No change	3.82 (0.64)	0.269
22	Intelligent	No change	3.82 (0.95)	0.455	No change	4.12 (0.60)	0.431
23	Likable	Decrease	3.18 (0.81)	0.001	Decrease	3.29 (0.69)	0.001
24	Adjusted	No change	3.53 (0.72)	0.016	No change	3.71 (0.59)	0.056

Note: The mean values on items 1-12 were compared to a mid-point anchor = 5. The mean values on items 13-24 were compared to a mid-point anchor = 4. The students' negative attitudes toward deception (p < .002) both before and after the educational workshop are highlighted in gray. Five negative attitudes were resolved after the workshop. (SD: Standard deviation; * item code was reversed

Due to minimal training in deception, it is not surprising that DPT students held a number of inaccurate beliefs about indicators of deception when first assessed. These findings are similar to research with other healthcare professionals (Curtis, 2015; Curtis & Hart, 2015). One of the reasons DPT students may have held inaccurate beliefs about deceptive behavior is that faulty beliefs are pervasive and evidenced in cross-cultural research (Global Deception Research Team, 2006). Additionally, when first surveyed, DPT students held many negative attitudes toward patients who lie. People typically do not favor being the target of deception. These findings have also been corroborated from professionals, such as psychologists and nursing students. Psychologists, psychology interns, and nursing students have reported negative attitudes toward clients or patients who lie, such as liking them less or thinking more negatively of them (Curtis, 2015; Curtis & Hart, 2015). Awareness of negative attitudes has been suggested to be important in PT practice (Sack et al., 2009).

The implementation of a deception workshop was effective in increasing accurate beliefs about indicators of deception and decreasing negative attitudes toward patients who lie. Healthcare professionals do not usually dedicate much of their education to deception (Curtis, 2015; Curtis & Hart, 2015), which may lead to relying on inaccurate beliefs developed from personal experience of observing others, media and social networks, or erroneous literature that promote liar stereotypes (Hurley, Griffin, & Stefanione, 2014; Vrij, 2008). Thus, including formal training would enhance education and practice through promoting accurate beliefs about deceptive behavior and encouraging DPT students to evaluate their attitudes toward patients, if deception is suspected. Decreasing negative attitudes toward patients who lie would serve to maintain a strong working alliance. However, it is important to note that while the workshop did resolve several negative attitudes toward patient deception, it did not resolve all negative attitudes. For example, participants held negative attitudes toward liking patients who lied preand post-workshop. In addition, the workshop also can be delivered to clinicians currently in practice. In doing so, DPT students and clinicians can positively affect the therapist-patient relationship and more effectively work toward patient outcomes.

There are some limitations in the current findings. First, the sample size of DPT respondents was small. The results reported on training in deception may not fully represent all DPT programs. Another limitation is that it is unclear if teaching about indicators of deception in a different format, other than the specific workshop, or by different educators, would lead to similar results. Therefore, we suggest that future research may need to focus on exploring various delivering formats for education about deception. Second, there may have been a response bias to answer in a manner that was consistent with the workshops aims to reduce negative attitudes toward patients. While not all negative attitudes were resolved, it could be beneficial to have attitudes assessed outside of the context of the workshop to eliminate potential bias. Last, it would be important to see whether the effects of these changes in beliefs and attitudes will be enduring. The current study implemented the post-test assessment following the workshop. It is unclear if the post-test results were due to acute recall or if the responses were stored into long-term memory, which would involve other mechanisms of memory (McGaugh, 2000). While we did not assess enduring attitudinal change, Cialdini, Petty, and Cacioppo (1981) discussed various routes for enduring attitudinal changes. Therefore, future research may also want to explore the longitudinal effects of this educational strategy for training DPT students. Additionally, research

may want to explore the beliefs and attitudes of PT clinicians and if continuing education enhances the effect of their clinical practices.

In conclusion, the current study explored an interpersonal phenomenon, deception, within the context of PT education. Deception in PT is deemed important and not often addressed within education. The current findings reveal that DPT students do not hold any professional advantage regarding beliefs about indicators of deception and hold a number of negative attitudes toward patients who lie. However, an education intervention corrected many inaccurate beliefs and reduced negative attitudes. Therefore, we suggest that PT educators may want to consider embedding a thread of discussion regarding patient deception and students' attitudes regarding patient deception within a current curriculum, which may enhance PT education and students' subsequent practice. This addition would not necessarily require mandatory curriculum change but instead, raise awareness throughout the curriculum about deception. The information could easily be added to discussions of the therapeutic alliance, clinical practicums, as well as case studies that already exist in the current entry-level curriculum.

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Appendix A PT Training in Deception Questionnaire

1. How long is your program (including BS, MPT, and DPT)?

- Less than 10 years
- \circ 11 to 20 years
- o 21 to 30 years
- \circ 30 to 40 years
- More than 40 years

2. How many students are there in each cohort (in average)?

- Less than 20 students
- \circ 20 to 30 students
- \circ 31 to 40 students
- \circ 41 to 50 students
- \circ More than 50 students

3. How much does your current program curriculum formally include information about ethics?

1	2	3	4	5	6	7
None						Very much

Please answer the following questions as best you can. If you are uncertain on what is meant by deception, please refer to this definition:

"a successful or unsuccessful deliberate attempt, without forewarning, to create in another a belief which the communicator considers to be untrue"

4. How much does your current program curriculum formally include information about patient deception?

1	2	3	4	5	6	7
None						Very much

5. How much does your current program curriculum formally include information about therapist deception?

1	2	3	4	5	6	7
None						Very much

6. How important is the area of therapist deception for your program?

1	2	3	4	5	6	7
Not at						Extremely
all import	tant					important

7. How important is the area of patient deception for your program?

1	2	3	4	5	6	7
Not at						Extremely
all importa	nt					important

Appendix B Detection of Deception Questionnaire

For the following questions, *circle* the number that most closely corresponds with your <u>opinions.</u>

1.	How	confid	lent are	you th	at you o	can de	etect when patients are deceptive to you?
	1	2	3	4	5	6	7
	lot ver onfide	-					Extremely confident

2.	How	often	do you	think	patients	would	l be decept	ive to you?
	1	2	3	4	5	6	7	
	Verv						Verv	

often

<u>Please indicate whether the following behaviors increase or decrease when people lie to you.</u>

3.	Eye co	ntact:					
	1	2	3	4	5	6	7
D	ecrease	s]	Does not			Increases
	a lot			change			a lot
				-			
4.	Eyebli	nks:					
	1	2	3	4	5	6	7
D	ecrease			Do not			Increase
	a lot			change			a lot
				C			
5.	Head 1	movem	ents:				
	1	2	3	4	5	6	7
D	ecrease			Do not			Increase
	a lot			change			a lot
				-			
6.	Smiles	:					
	1	2	3	4	5	6	7
D	ecrease			Do not			Increase
	a lot			change			a lot
				-			
7.	Hand	and fin	ger m	ovement	S:		
	1	2	3	4	5	6	7
D	ecrease			Do not			Increase
	a lot			change			a lot
				-			

rarely

8. Arm mo					
1 2	2 3	4	5	6	7
Decrease		Do not			Increase
a lot		change			a lot
-	l foot move		_	_	
1 2	2 3	4	5	6	7
Decrease		Do not			Increase
a lot		change			a lot
10. Postura	l shifts [.]				
1 2		4	5	6	7
Decrease		Do not	-	•	Increase
a lot		change			a lot
		0			
11. Shrugs:					
1 2	2 3	4	5	6	7
Decrease		Do not			Increase
a lot		change			a lot
12. Gesture					
1 2	2 3	4	5	6	7
Decrease		Do not			Increase
a lot		change			a lot
13 The nu	mber of sne	ech inter	runtio	ns suc	h as "uh" and "um":
1 2		4	5	6	7
Decrease		Do not	U	0	Increase
a lot		change			a lot
		0			
14. The nu	mber of pau	ises or he	esitatio	ns in s	peech:
1 2	2 3	4	5	6	7
Decrease		Do not			Increase
a lot		change			a lot
				-	respond to a question:
1 2 Decreases	-	4	5	6	7
Decreases	L	Does not			Increases
a lot		change			a lot
16. Hectic s	peech patte	erns:			
1 2		4	5	6	7
Decrease		Do not			Increase
a lot		change			a lot

17. Changes in the pitch of voice:									
1 2	3	4	5	6	7				
Decrease		Do not			Increase				
a lot		change			a lot				
	_								
18. The length			_		_				
1 2	3	4	5	6	7				
Decrease		Do not			Increase				
a lot		change			a lot				
19. The use of	short.	simple sen	tences	in sto	ries and explanations:				
1 2	3	4		6	7				
Decreases	_	Does not	-	-	Increases				
a lot		change			a lot				
		U							
20. The use of	plausi			n stor	ies and explanations:				
1 2	3	4	5	6	7				
Decreases		Does not			Increases				
a lot		change			a lot				
					4 •				
21. Logically c		4	5	-					
1 2 Decrease	3	-	5	6	7 Increase				
Decrease a lot		Do not			Increase a lot				
a lot		change			a lot				
22. The amour	nt of de	etailed des	criptio	ns in s	stories and explanations:				
1 2	3	4	5	6	7				
Decreases		Does not			Increases				
a lot		change			a lot				
23. Unusual de		-			_				
1 2	3	4	5	6	7				
Decrease		Do not			Increase				
a lot		change			a lot				
24. Unnecessary details in descriptions:									
1 2	3	4	5	6	7				
Decrease	5	Do not	5	0	Increase				
a lot		change			a lot				
		••••••							
25. Description									
-	ns of th	leir own fe	enngs	or the	e feeling of others:				
1 2	ns of th 3	eir own fe 4	5	or the	e feeling of others: 7				
1 2 Decrease			_		7 Increase				
1 2		4	_		7				

26. Recounting exactly what somebody had said in stories and explanations:

a lot

1	2	3	4	5	6	7	
Decreases		Does not				Increases	
a lot			chang	ge		a lot	
27. Desc	riptior		teractio	ns with	others	s in stories and explanatior	ıs:
1	2	3	4	5	6	7	
Decrea	se		Do no	ot		Increase	
a lot			chang	ge		a lot	
			_		_		
28. Spo r	itaneoi	is corr	ections	in stori	es and	explanations:	
1	2	3	4	5	6	7	
Decrea	se		Do no	ot		Increase	
a lot			chang	ge		a lot	
			_	_			
29. Clai	ming a	lack of	f memo	ry for c	ertain	events or information:	
1	2	3	4	5	6	7	
Decrea	ses		Does n	ot		Increases	
a lot			chang	ge		a lot	
30. Stor	ies witl	n contr	adiction	ıs:			
1	2	3	4	5	6	7	
Decreas	se		Do no	ot		Increase	

a lot change

Appendix C

Attitudes Toward Patient/Client Deception Scale

The investigators do not condone or condemn deception; rather, it is being studied scientifically and trying to learn the answers to some of the most fundamental questions about the phenomenon.

If you discovered that a patient/client was lying to you, how would that affect:

1 Signif decrea	ficantly ase	2		3		4 No change		5	6	7 Significantly increase
1.	Likin	g the pa	tient/cli	ent?						
2.	Being	g angry a	at the pa	tient/cl	ient?					
3.	Seein	ig the pa	tient/cli	ent as a	bad pe	rson?				
4.	Think	king neg	atively	about th	ne patie	nt/client	?			
5.	Judgi	ng the p	atient/c	lient ha	rshly?					
6.	Desir	e to inte	ract wit	h the pa	atient/cl	ient?				
7.	Enthu	usiasm to	o work v	with the	e patient	t/client?				
8.	Judgi	ng the c	lient as	a good	patient/	client?				
9.	. Speaking poorly of the patient/client with others?									
10). Trust	ing the p	patient/c	lient?						
11	l. Think	king pos	itively a	bout th	e patier	nt/client'	?			
12	2. View	ing the j	patient/c	client as	s sincere	e?				
13-23	. Patie	nts/Clie	nts who) lie con	npared	to pati	ents/clie	ents who do r	ot lie are:	
]	1 Not vei	2 rv	3	4	5	6	7 Verv			

	lot ve ccess	•					Very successful
	1 ot very		3	4	5	6	7 Very
path	ologic	cal					pathological

1 Not very weak	2	3	4	5	6	7 Very weak
1 Not very compliant	2	3	4	5	6	7 Very compliant
1 Not very pleasant	2	3	4	5	6	7 Very pleasant
1 Not very lazy	2	3	4	5	6	7 Very lazy
1 Not very awkward	2	3	4	5	6	7 Very awkward
1 Not very knowledgea		3	4	5	6 kı	7 Very nowledgeable
1 Not very intelligen	2 t	3	4	5	6	7 Very intelligent
1 Not very likeable	2	3	4	5	6	7 Very likeable
1 Not very adjusted	2	3	4	5	6	7 Very adjusted