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The Leeds Teaching Hospitals NHS Trust





Personalising airway clearance in PCD, exploring expert physiotherapist decision making. LM Schofield^{1,2}, SJ Singh³, JM Wild¹, D Hind¹. 1. University of Sheffield, 2. Leeds Teaching Hospitals NHS Foundation Trust, 3. University of Leicester

Conflicts of interest:



All physiotherapists initially recognised the situation as familiar even when the case was new to their service, using: cues and expectancies which informed goals and actions;

> He was quite crackly, particularly... in his...right mid zone on auscultation, he was clearing more sections...more fatigued ...those key...assessment findings prompted me to...recognise that something needed to change (Cue, Case 3.1) I need to see that the Aerobika was going to be enough

Initial courses of action were reconsidered in four cases, when expectancies were violated, causing the physiotherapists to seek further information to familiarise the situation;

> I wouldn't normally give somebody an incentive spirometer for airway clearance, but Mum had...said that it was really helpful...it was really interesting...to actually unpick that...to actually work out what's going on. (Violation of expectancies, Case 1.2)

(Goal, Case 5.4)

Physiotherapists mentally simulated and/or physically piloted ACT regimens to satisfy themselves that the plan was sound. Sometimes the first action conceived was rejected following simulation, and in most cases modifications were needed prior to implementation;

By the end of the session his chest was significantly clearer....this form of airway clearance was effective. (Will it work? Yes, Case 6.5) The whole thing is great idea to wake up at half four in the morning and do physio, but the reality is erm that's not going to happen. (Will it work? No, Case 2.3)

When personalising ACT regimens, despite initially finding the situation as familiar, physiotherapists often encountered uncertainty. Physiotherapists iteratively seek the information needed to familiarise the situation, and simulate courses of action, prior to implementing regimen changes. CDM is a useful approach to understand how ACT regimens are personalised, it remains unclear what the effects of such personalised ACT regimens are.

1. Lucas, J. S., et al. (2017). "Clinical care of children with primary ciliary dyskinesia." 2. (Klein 2008) Klein, G. (2008). "Naturalistic Decision Making." <u>Human Factors: The</u> Journal of the Human Factors and Ergonomics Society **50**(3): 456-460.

