Exercise- and strategy-based physiotherapy-delivered intervention for preventing repeat falls in people with Parkinson’s: the PDSAFE RCT

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Disclaimer: This report contains transcripts of interviews conducted in the course of the research and contains language that may offend some readers.
Plain English summary

People with Parkinson’s disease fall often. Falls are scary and make moving about harder. The PDSAFE trial tested a new ‘home physiotherapy’ programme for reducing falls. People with Parkinson’s disease were allocated to one of two groups by chance: they either received the PDSAFE exercises or just normal care. The costs were looked at and people were asked for their views of the PDSAFE exercises.

To take part, people had to have Parkinson’s disease, live in their own home, be able to walk, have had at least one fall in the previous year and pass a memory test. PDSAFE was taught by physiotherapists and included exercises and fall avoidance strategies. Everyone had to record falls on a monthly calendar, and balance, strength and walking were tested.

To our knowledge, this was the largest falls trial looking at people with Parkinson’s disease in the world: 541 people took part. The number of falls an individual reported differed a lot between people. When all people with Parkinson’s disease in the trial were considered, the physiotherapy programme did not reduce falls in the first 6 months. However, it was found that some people had fewer falls after taking part in the exercises, whereas others did not. Those with more severe Parkinson’s disease (i.e. problems with movement, memory and freezing of gait) fell more often after the PDSAFE intervention, even though their balance and confidence improved. Those with good memory, moderate disease and two or three falls in the previous year reacted well to PDSAFE and had fewer falls. It was found that PDSAFE reduced near-falls (about to fall but managed to save themselves) and improved balance and confidence. The physiotherapists and those who took part liked the programme and felt that it helped, but it was expensive to run.

In conclusion, a falls prevention programme should be based on each person’s needs and a different treatment should be used for those with more severe Parkinson’s disease.
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This report

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