Pelvic floor exercises for erectile dysfunction
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BJU Int. 2005; 96: 595-7

Objective: To examine the role of pelvic floor exercises as a way of restoring erectile function in men with erectile dysfunction.

Patients and Methods: In all, 55 men aged > 20 years who had experienced erectile dysfunction for ≥ 6 months were recruited for a randomized controlled study with a cross-over arm. The men were treated with either pelvic floor muscle exercises (taught by a physiotherapist) with biofeedback and lifestyle changes (intervention group) or they were advised on lifestyle changes only (control group). Control patients who did not respond after 3 months were treated with the intervention. All men were given home exercises for a further 3 months. Outcomes were measured using the International Index of Erectile Function (IIEF), anal pressure measurements and independent (blinded) assessments.

Results: After 3 months, the erectile function of men in the intervention group was significantly better than in the control group (P < 0.001). Control patients who were given the intervention also significantly improved 3 months later (P < 0.001). After 6 months, blind assessment showed that 40% of men had regained normal erectile function, 35.5% improved but 24.5% failed to improve.

Conclusion: This study suggests that pelvic floor exercises should be considered as a first-line approach for men seeking long-term resolution of their erectile dysfunction.

Editorial Comment
The first time that pelvic floor exercise was discussed and documented as a realistic alternative for treatment of erectile dysfunction was in 1993 by Claes & Baert, for patients with mild degrees of venous leakage (1). The authors randomized a group of 150 consecutive male patients with erectile dysfunction and proven venous leakage to surgery or to a program of pelvic floor training. Surgery was not superior to the pelvic floor training program either subjectively or objectively. 42% of patients was satisfied with the program and refused surgery (1). Since then, a couple of works have been done on this subject, with somewhat good results (2,3).

Doctor Grace Dorey and co-workers have been extensively working in this field, examining the role of pelvic floor muscle exercises (focusing on the bulbocavernosus and ischiocavernosus muscles) as a key to restoring erectile function. The present work is one more important contribution from this group. The authors concluded that pelvic floor muscle exercises should be considered as a first-line approach for erectile dysfunction. This might be more important in men seeking long-term resolution of erectile dysfunction without acute pharmacological and surgical interventions, which can cause significant side-effects.

References

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Apoptosis and proliferation in human undescended testes
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BJU Int. 2005; 96: 634-8

Objective: To study apoptosis and proliferation in the testes of children with undescended testes; the degree to which undescended testes contributes to a patient’s ultimate fertility is debatable, but undescended testes have fewer germ cells, and some have proposed that apoptosis is an important cause.

Patients and Methods: Testis biopsies were taken at the time of orchidopexy in a consecutive series of children undergoing surgical repair for undescended testes. Immunohistological techniques were used to detect apoptosis and proliferation, and the numbers of cells undergoing apoptosis or proliferation per 50 seminiferous tubules were recorded.

Results: Inguinal testes had less apoptosis than abdominal testes, with a mean (sd) of 0.71 (1.31) vs 1.63 (1.95) apoptotic cells per 50 seminiferous tubules (P < 0.02). Similarly, there was less apoptosis in children aged > 1 years than in children aged < 1 years (0.68 (1.40) vs 1.35 (1.56); P < 0.03). Proliferation was very limited in all cryptorchid testes. In contrast to cryptorchid testes, five autopsy controls had many more apoptotic cells, (10.60 (1.34) per 50 seminiferous tubules), and many more proliferating cells, (8.40 (6.43) per 50 seminiferous tubules).

Conclusion: In contrast to animal studies, neither apoptosis nor proliferation was common in undescended testes from 6 months of age onward. However, apoptosis was more common in abdominal testes and in children aged < 1 year. It is likely that, if substantial apoptosis occurs in human undescended testes, it occurs before 6 months of age.

Editorial Comment

Apoptosis has been implicated in testicular germ cell loss in experimental models of cryptorchidism. Using the rat as an experimental model, it was demonstrated that apoptosis is the predominant mechanism of germ cell death rather than atrophy and necrosis in cryptorchidism (1,2). The mechanisms of germ cell apoptosis have been associated with oxidative stress or testicular exposure to elevated temperature, and there are evidence that endothelial nitric oxide synthase plays a functional role in mouse spermatogenesis in cryptorchidism-induced apoptosis (3).

In the present elegant and well designed study, doctor Kogan and his group, by the first time, showed us that surprisingly and different from animal studies, neither apoptosis nor proliferation was common in undescended testes from children with more than 6 months of age. The authors discussed that this unexpected result is probably due to the timing of the biopsies, as significant apoptosis might have taken place before the typical time of surgical intervention (6 months).

References

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