

ANDROSKILL

Erectile Dysfunction

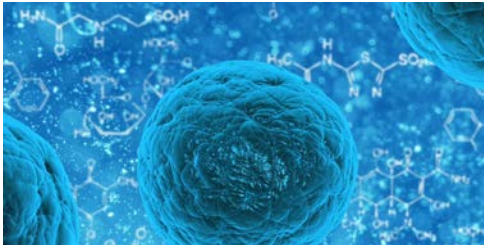
Stem Cell Therapy



ERECTILE DYSFUNCTION

is one of the most frequently reported medical condition in men. Defined as the chronic inability to achieve or sustain the erection, its prevalence varies across age group, with 35% and 50% ca of men, respectively, aged 60 and older than 70 affected.

However, it is not a natural part of getting older. Erectile dysfunction not only could be a sign of a health problem (such as blood vessels clogging or nerve damage) but also it could severely compromise man's quality of life (leaving him with low self-esteem, lack of self-confidence, and poor-quality intimate life) and his partner's mental, emotional, and physical wellbeing, ultimately leading to the risk of marital relation problems.



TREATMENT OPTIONS

can be divided into **traditional** and **novel approaches**, the former including lifestyle changes, topical or oral medications, intracavernosal injections, intraurethral suppositories, vacuum-assisted erectile devices, and surgically implantable prostheses, and the latter consisting in innovative options such as external prosthesis, shockwave therapy, platelet-rich plasma injection and stem cell therapy. Oral medications, in particular phosphodiesterase type-5 inhibitors (including sildenafil, vardenafil, tadalafil, and avanafil), are among the most prescribed treatments for erectile dysfunction. However, they only address the symptoms without eliminating the cause of the problem. Moreover, they work only if nervous system pathways are intact, they may lose effectiveness when used continuously, and their combination with other drugs (such as medications prescribed for chest pain or hypertension) can be contraindicated.

ERECTILE DYSFUNCTION CAUSES

are factors affecting vascular, nervous and endocrine system. In particular, certain **diseases** and **conditions** (such as cardiovascular problems, type 2 diabetes, obesity, metabolic syndrome, chronic kidney disease, bladder cancer surgery, and prostate cancer treatment-related injuries) can lead to erection problems. Also many common **medications** (among others, antidepressants, tranquilizers, blood pressure medications, antiandrogens, appetite suppressants, and ulcer medications) can lead to erection problems. Finally, **psychological**

RISK FACTORS

- age
- cigarette smoke
- lack of physical activity
- unhealthy diets
- alcohol abuse
- drug addiction

causes of erectile dysfunction include stress, anxiety, depression, low self-esteem, fear of sexual failure, guilt about sexual performance or activity. In general, unhealthy living is associated with an increase in the risk of erectile dysfunction. Other risk factors include specific gene variants, various markers of cardiovascular disease and several medical conditions, such as obstructive sleep apnea, ankylosing spondylitis, chronic prostatitis or pelvic pain syndrome, psoriasis, chronic periodontitis, and gout.

SYMPTOMS OF ERECTILE DYSFUNCTION

- do not being able to get an erection every time that it is desired
- do not having erection lasting long enough for an intercourse
- do not being able to get an erection at any time

WHY ANDROSKILL

- Treat causes and not only the symptoms
- Curative for medium and severe erectile dysfunction
- Totally safe and stable results
- Effective and longlasting results
- Androskill uses hundreds of million of expanded stem cells and not few thousands that are obtained from SVF (Stromal Vascular Fraction)

STEM CELL THERAPY

acts via regeneration of nerves and blood vessels, inflammation reduction, healing promotion and other specific mechanisms still to be fully characterized. It is delivered through **intracavernosal injection of Adipose Derived Stem Cells (MSCs)**, a type of stem cells capable of self-renewal and of differentiating into multiple cell types.

Stem cell therapy tolerability and safety have been demonstrated and the use of autologous stem cells mitigates any immunogenic concerns.

Their efficacy in the treatment of erectile dysfunction has been demonstrated too.

ACTION

Nerve regeneration

Decreased apoptosis of cavernosal cells

smooth muscle preservation

vascular endothelial regeneration

Increased cavernous smooth muscle and endothelial content

decreased collagen and fibrosis



ADIPOSE DERIVED STEM CELLS THERAPY

SCIENTIFIC EVIDENCE

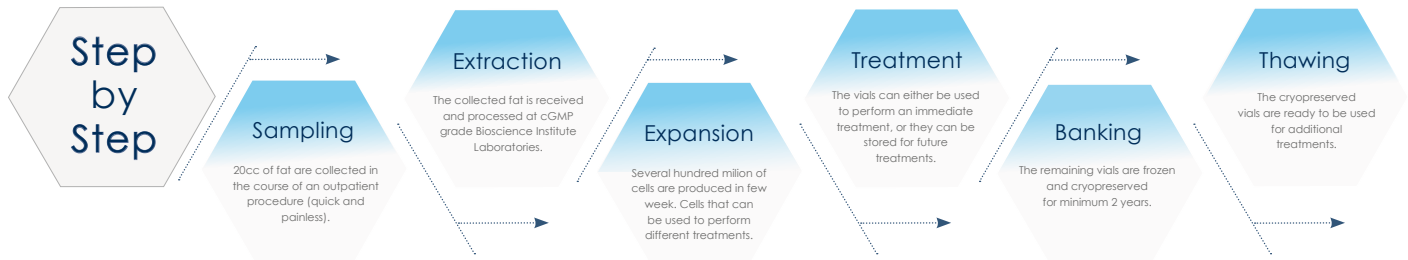
In a study that involved men with a history of prostatectomy, adipose stem cells-based therapy allowed erection successful for intercourse, without the need for oral medications.

ANDROSKILL PROCEDURE, the stem cell therapy for erectile dysfunction by Bioscience Institute, is based on the collection of only 20 cc of fat during a quick and painless outpatient procedure.

Bioscience Laboratories receive the collected fat and expand the isolated stem cells in only two weeks, obtaining several hundred million of pure autologous cells that can be used for erectile dysfunction treatment as well as for other procedures. The cells that are not immediately utilized are frozen and cryopreserved for future treatment; cells are preserved for a minimum of two years, ready to be thawed for additional use.

BIBLIOGRAPHY

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