Treatment of Infertility by Natural Factors in a Patient Who Had Seven Failed Procedures of In Vitro Fertilization

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Abstract: Infertility is not rare today, it affects about 15% of couples around the world. It is usually treated by in vitro fertilization, method of assisted fertilization, which allows many couples to create offspring. On the other hand, this infertility treatment is still unsuccessful in many cases and unavailable to everyone. We report a case of a 33-year old woman who had seven unsuccessful attempts of conception by in vitro fertilization and neither of those didn't result with embryo implantation. In Special Hospital for Medical Rehabilitation, Daruvarske toplice, infertility treatment has been conducted by natural factors during 3 weeks. The treatment included fangotherapy, bathing in thermo-mineral water, hand massage and hydro massage. Two months after the end of the therapy she got pregnant by natural way and gave birth to twins, boy and girl. With these case report we wanted to point out that the natural factor is one of the choices for infertile patients who, for some reason, do not want methods of assisted fertilization or the method was unsuccessful but also a positive introduction to the medical assisted fertilization.

Keywords: Infertility treatment, In vitro fertilization, Thermo-mineral water, Fangotherapy, Natural factors

1. INTRODUCTION

According to the UN Declaration on Fundamental Human Rights, the privilege of creating marriage, family and offspring is one of the foundational human rights.¹ Because of the infertility, that affecting 15% of couples around the world (around 48.5 millions of couples), all married couples do not have offspring. In about fifty percent of cases the cause of couples infertility is female infertility while the rest is related to the infertility of men, both partners or is idiopathic where the cause of infertility is unexplained. Infertility is defined as lack of desired pregnancy with regular and without contraceptive intercourses within a period of at least one year.²

Infertility is treated by methods of assisted fertilization and the mostly used method is conventional in vitro fertilization in stimulated cycle, which is expensive and aggressive treatment, often unpleasant for patient with lot of potential complications.³ Less aggressive treatment of infertility is in vitro fertilisation in natural cycle or in cycle with mild stimulation.³ The treatment in natural cycle is less successful than expected and for greater performance drugs are used to stimulate ovulation, most commonly exogenous gonadotropins.⁴

In Special Hospital for Medical Rehabilitation, Daruvarske toplice, the problem of infertility is treated by natural factors which are now, at the time of 21st century medicine, coming to another plan. We have witnessed a lot of studies conducted on the subject of infertility treatment as well as on the beneficial effects of natural factors generally but on the other hand just a few that mention a natural factor in infertility treatment. The natural factor is one of the
A 33-year old woman, married for ten years, had seven unsuccessful attempts of conception by assisted fertilization called stimulated in vitro fertilization, neither of those didn't result with embryo implantation. She comes to Special Hospital for Medical Rehabilitation, Daruvarske toplice, to treat infertility naturally. Her's and her husband's medical findings are completely normal and the cause of infertility and failures of assisted fertilization remained unclear. She has a very painful menstrual periods. The woman has performed ambulatory rehabilitation, through the program called the 'Joy of Life', for 3 weeks. The program included:

a) Bathing in the tub with thermo-mineral water every day for one hour. Thermal water of wild origin, belongs to indifferent hyperthermic (47.5 °C) water with mineralization below 1g / L. According to the international classification, it is calcium-hydro-carbonate water. The radioactivity of water is low and ranges from 0.739 to 5.081 Mache's units and its falls with the heat of the source. The chemical composition of the source is almost identical but the temperature is different. The water temperature in tubs is 32-36°C.

b) Fangotherapy on the lumbo-sacral spine and belly three times per week for 20-30 minutes and mud blend thickness 3-4 centimeters. Fango, mineral mud, was created by millennium deposition of sand, clay and the processes of organic and inorganic decomposition under the influence of thermal water and atmospheric influences with great changes of soil temperature. It consists of azure blue clay mixed with tiny granules of quartz sand, ashes of volcanic origin and other inorganic and organic ingredients. Mineral mud actually came out of the land by digging a dry sediment which is mixed with thermal water and heated to 40°C. The mud is applied in the form of compress to the affected part of the body and directly to the body. The mud-lined part of the body is covered with a cloth, then a rubberized cloth and finally blanket.

c) hand massage of lumbar spine and belly three times a week for 20-30 minutes,

d) hydro massage of the whole body, in thermo-mineral water, every day for 30 minutes.

3. RESULTS AND DISCUSSION

One month after the end of the therapy the menstrual period was no longer painful and after 2 months she got pregnant by natural way. The pregnancy was without complications and gave birth to full term and healthy twins, boy and girl.

The availability of in vitro fertilization and a high quality program of it can make a significant contribution to natality and by using these procedures up to 5% of infants are born per year. With this case report we present some other way to treat infertility, natural factor.

Not only because of the long-lasting positive experience in the treatment of infertility in Hospital for Medical Rehabilitation, Daruvarske toplice, but also because of the known effects that natural factors have on the body system.

Bathing in tubs with thermo-mineral water have positive physical and chemical effect. Physical action of baths in thermal water has a thermal
effect, while chemical activity implies ion minerals that cause hyperemia, reduce inflammation and pain and improve the function of reproductive organs.\textsuperscript{[10]} Fango also has a dual effect. The thermal effect is as in the bath and a chemical effect is in the resorption of cumic acid that acts on the pituitary, and indirectly positive to the other glands with internal excretion.\textsuperscript{[10,11]} In chronic inflammatory centres, the fango acts analgesic, anti-inflammatory and anti-oedematous.

All that has been said so far, explains why natural factors act positively in the treatment of infertility, chronic pain and chronic inflammatory diseases.

Contraindications for baths and fango are acute inflammatory diseases, malignant forms, tuberculosis, severe heart diseases, unregulated hypertension, varicose veins, bleeding disorders, hyperthyroidism, body fatigue and skin diseases other than psoriasis.

4. CONCLUSION

The problem of infertility can be very stressful for couples who want to become parents and are prepared for it in every sense. With the advancement of medicine we are witnessing numerous methods of assisted fertilization which are in many cases still unsuccessful and unavailable to everyone. The purpose of this case report is to point out the positive effects of natural factors, first as a therapy for infertility treatment for couples who do not want or are unavailable to any method of assisted fertilization or the method is unsuccessful and second, as a desirable introduction to assisted fertilization methods in pairs who decide on it. In the future is necessary, in order to avoid putting a natural factor in the background, to present more case reports and researches on this field.

REFERENCES