Male reproductive health and yoga

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INTRODUCTION

Infertility and problems in conception have been a concern through the ages. Infertility in men is the inability to fertilize mature ova after mating with female partner, while, in women it is the inability to naturally conceive a child or to carry a pregnancy to full term. There are many reasons why a couple may not be able to conceive, or may not be competent to conceive without medical aid. Infertility has its impact on about 15% of couples of reproductive age, with nearly half of the cases resulting from male factor infertility.[1] The chance of getting pregnant in each menstrual cycle is very high and it has been reported that eight out of every ten women trying for a baby will fall pregnant within the first 6 months. Women who become pregnant without any medical assistance generally do so within 8 months of trying.[2] It is common for couples to seek help or advice if there is difficulty in conceiving. The point at which they may want to seek out help will depend on various aspects, for example, if they are over 35 years of age or if they have any worrying symptoms, the couple should strive for help after about 6 months of trying.[3] In men, various factors may contribute in infertility, like lifestyle, obesity, smoking, or alcohol consumption, including exposure various occupational and environmental metals. These factors result in decreased quality of sperm, by affecting its structure, development, count, and motility.[4]

Since the beginning of time, humans have employed rituals, folk medicines, and various techniques performed by shamans and other healers or revered members of their culture in an effort to potentiate their ability to conceive. Recently, complementary or alternative therapy is often employed for the same perseverance with the intent to enhance the probability of conception and augment a healthy pregnancy with a positive outcome. What may be considered CAM in one culture or country may be part of the traditional health system in another, for example, yoga, which is considered CAM therapy in the United States, has been part of the health system in India for more than 7000 years.[5] CAM therapy is often used to foster wellness, improve the results of traditional therapies, and in the advancement the quality of life. Yoga is being used by a growing number of youth and adults as a means of improving overall health and fitness. There is also a progressive trend toward use of yoga as a mind-body CAM intervention to improve specific physical and mental health conditions. There are some information about the beneficial impact of yoga practice on reproductive health and fertility among common people, but there is
no proper evidence-based literature available, which can throw some light on its impact on reproductive health. To provide researchers and clinicians with therapeutically useful information about yoga, the evidence evaluating yoga as an effective intervention for couples suffering with the problems of infertility, is reviewed and summarized. A brief overview of common causes of infertility today and its yoga therapy is presented in this review.

INFERTILITY IN MEN: COMMON ORIGINS
Lifestyle and spermatogenesis in adult male

Several studies in laboratory animals have examined whether exposure in adulthood to a wide range of chemicals can impair spermatogenesis. This literature is too vast and diverse to consider. In contrast, it is well recognized that demonstration of cause and effect in human studies is more problematic than in laboratory animal studies as laboratory animals are very much less variable in their phenotype and spermatogenesis profile in comparison to the huge variation seen among normal adult human males.[6] In addition, human males are exposed in reality to a complex mixture of environmental chemicals that may cause interactive effects on spermatogenesis.[7,8] Even when considering exposure to one environmental chemical, men will be unevenly exposed, in contrast to the situation in experimental animals where they are exposed to a constant dose under test circumstances and there is small variation between animals in spermatogenesis. Therefore, it is not a similar comparison; accordingly, a different level of proof is probably required to establish cause and effect. Furthermore, there are important differences between species in the set-up and organization of spermatogenesis that may affect vulnerability of the testis to disruption by exogenous factors.[9]

Obesity

Obesity is an important lifestyle-dependent factor that adversely affects spermatogenesis; as 10-30% of adult men in Western countries are now obese, it is likely that this will have an increasing effect on male fertility.[10,11] Several studies have shown up to a three-fold higher incidence of obesity in infertile men than in those with normal semen quality.[12,13] A BMI of >25 is associated with an average 25% reduction in sperm count and motility.[14-16] The most potent evidence describing the association is that the alterations in sperm production are secondary to alterations in intratesticular testosterone levels.[11,17] Patients with such hormonal profiles often show reduced blood levels of LH and FSH, when an increase might be expected in spite of reduced testosterone levels, one such interpretation is that there is declined androgen drive to spermatogenesis.[18,19] However, there may also be intratesticular effects that are unrelated to altered gonadotrophin levels as the reduction in inhibin B levels in obese men is disproportionately larger than the change in FSH levels, suggesting there may be direct effects of the increased obesity on sertoli function in turn permanently lowers sperm counts.[13-15,20]

Another explanation for reduced spermatogenesis in obese men could be deposition of fat around the scrotal blood vessels, leading to impaired blood cooling and elevated testicular temperature.[21] Another potential argument to explain reduced sperm counts in obese men is that they accumulate increased amounts of toxicants in their adipose tissue because many of the persistent environmental chemicals are lipophilic.[13,22] Nevertheless, considering the high prevalence of obesity among young men today and the equally high prevalence of low sperm counts, it is possible that the obesity epidemic may be having an impact on spermatogenesis among young men, and it may also render such individuals more susceptible to damaging effects by other lifestyle or environmental exposures. For certain, obesity looks set to play an important role in determining the hormonal and fertility profile of Western men over the coming decades.[11:14,15]

Smoking, alcohol and drugs

Smoking and alcohol consumption usually come top of the list among the Western lifestyle factors commonly suspected to have adverse impacts on health. There is little evidence that either of these has a major impact on spermatogenesis, although meta-analysis supports the view that smoking has a small negative impact.[23,24] Physiologically, the testis is considered to be poised on the brink of hypoxia.[25,26] Therefore, factors that compromise delivery of oxygen to the testis would be suspected to have a detrimental effect. The negative impact of smoking on sperm counts in men is therefore consistent with this thinking. However, in comparison with the fairly dramatic decrease (up to 40%) in sperm counts that is induced in sons by maternal smoking in pregnancy, the reduction (10-17%) in sperm counts in adult men who smoke heavily[27] is modest, and in many individual studies no significant effects were found.[23,28] Although interference with oxygen supply is an obvious mechanism via which smoking could reduce spermatogenesis, other mechanisms may also operate, including exposure to cadmium and activation of the Ah receptor, as is thought to occur with maternal smoking in pregnancy.

Most studies that included alcohol as a point of investigation have failed to show a significant impact on sperm counts, at least among those with moderate alcohol consumption.[28,29] In contrast, in chronic alcoholics, there is good evidence for impairment of spermatogenesis and
reductions in sperm counts and testosterone levels.\textsuperscript{[30,31]} These effects work via endogenous cannabinoid-type receptors (CB1, CB2)\textsuperscript{[32–35]} that are expressed in humans and other animals,\textsuperscript{[32]} including on sperm.\textsuperscript{[36]} However, although there are bits of evidence pointing to adverse effects of cannabis use on testosterone levels and on sperm motility.\textsuperscript{[32,37,38]}

Administration of androgenic steroids to men results in reduced spermatogenesis because it causes suppression of LH secretion from the pituitary gland and a resulting suppression of intratesticular testosterone levels; this has been widely evaluated as an approach to male contraception.\textsuperscript{[39]} It is therefore not surprising that use of anabolic steroids by athletes, weightlifters, and bodybuilders can have similar adverse effects.\textsuperscript{[40,41]} as is the case with male contraception, cessation of anabolic steroid use results in recovery of spermatogenesis.\textsuperscript{[40]}

Prescription drugs of numerous types are used widely by normal males, and although effects of such compounds on spermatogenesis cannot really be classified as lifestyle/environmental, if they adversely impact on spermatogenesis such effects may be suspected as having an environmental cause, especially if the drug is taken chronically. An example is sulfasalazine, which has been widely used for the chronic treatment of irritable bowel disorders and which can induce infertility in men\textsuperscript{[42,43]} and in rats\textsuperscript{[44]} via effects probably late in spermatogenesis.\textsuperscript{[42]} Similarly, some chemotherapeutic agents (anti-mitotics such as cyclophosphamide) used for treatment of cancers or of some kidney diseases have well-documented adverse effects on spermatogenesis and/or fertility.\textsuperscript{[44,45]} Of more concern from an environmental perspective is for (largely unsuspected) effects of commonly prescribed drugs that are not necessarily considered as anti-spermatogenic. This is highlighted by a recent study of 165 infertile men (selected from a group of 1768 infertile men) who were taking medications of various sorts at the time of investigation and in whom no hormonal, historical, or other cause for the infertility could be found.\textsuperscript{[46]} The most common medications being taken by these men were H1 receptor antagonists (for allergy relief, such as hay fever), anti-epileptics and antibiotics. When half of the 165 patients switched or ceased their treatment, there was a 93% improvement in semen quality and an 85% increase in conception rate, compared with values of 12 and 10%, respectively, in the control group (men who continued on treatment). Other studies indicate reduced fertility in epileptic men and one explanation is that the drugs used for treatment (carbamazepine, oxcarbazepine, valproate) are associated with adverse effects on sperm number, morphology, or motility.\textsuperscript{[47]} For valproate at least, there is supporting data in rats showing adverse effects on spermatogenesis,\textsuperscript{[48]} although such effects are only obvious with supra-therapeutic dose levels, while at therapeutic dose levels only effects on reproductive hormone levels (reduced oestradiol and LH) are found.\textsuperscript{[49]} Some drugs (e.g., the H2-receptor antagonist, cimetidine) that affect spermatogenesis\textsuperscript{[50]} do so by altering androgen action, which has led to the development of substitute compounds that lack this side effect.

Environmental chemicals on spermatogenesis of adult men

There are three sorts of exposures environmental chemicals: Those that occur occupationally, those that occur in the general or home environment (e.g., pollutants) and those that occur because of our lifestyle choices (e.g., use of skin creams, deodorants, etc.). There is a widespread belief that human exposure to environmental chemicals via one or more of these routes can impair spermatogenesis in adult men and lead to reduced sperm counts. This belief has probably been triggered by the coincidence of concerns about “falling sperm counts” in men\textsuperscript{[51–53]} with concerns about the high prevalence of environmental chemicals in the modern environment.\textsuperscript{[44,47]} However, evidence to support this belief is remarkably thin on the ground.

YOGA PRACTICE: IMPACT ON REPRODUCTIVE HEALTH OF MEN

Adopting a regular yoga practice can improve the quality of sperm if one has issues with sperm count or motility. Practicing yoga is also proven to be excellent for prostate health, warding off prostate disorders, and reducing the size of prostate if it has got enlarged. Adopting a regular yoga practice can reduce stress and anxiety levels also, which can improve the overall health of reproductive organs, as it has proven that having less stress in life can improve sex-life and helps to treat mild erectile dysfunction (ED).

Many people in the U.S. today claim to practice yoga for its health benefits without consciously adopting Hindu religious perspectives as growing body of research evidence supports the belief that certain yoga techniques may improve physical and mental health through down-regulation of the HPA axis and the sympathetic nervous system.

The stress and stress-induced disorders are fast growing epidemics and bane of “modern” society. The holistic science of yoga has proven to be the best method for prevention as well as management of stress and stress-induced disorders by immediately down regulating effect on both the HPA axis response to stress.\textsuperscript{[54]} It was also found that brief yoga-based relaxation training normalizes the function of autonomic nervous system by deviating both sympathetic and parasympathetic indices
toward more “normal” middle region of the reference values. Studies show that yoga decreases levels of salivary cortisol and 24-h urine nor-epinephrine and epinephrine levels. These studies suggest that yoga has an immediate quieting effect on the HPA axis response to stress. While the precise mechanism of action has not been determined, it has been hypothesized that some yoga exercises cause a shift toward parasympathetic nervous system dominance, possibly via direct vagal stimulation. Regardless of the pathophysiologic pathway, yoga has been shown to have immediate psychological effects: Decreasing anxiety and increasing feelings of emotional and spiritual well-being.

**Yoga for men: Childhood and early adulthood**

Yoga helps children at an early age to develop strength, endurance, grace, and balance. In fact, many common yoga poses were developed for young boys. Yoga colleges, or schools, exclusively for boys were established in India in the late 19th century to offer young boys a full education, including physical culture. In this day and age, children all through the world can practice yoga to sustain the balanced growth of body and mind. Many of the yogic styles were developed to meet the needs of growing boys combining the art of movement with the classical yoga asanas. Weight-bearing postures of yoga helps in the growth of strong bones, whereas bendings and twistings help to maintain flexibility. Today, stress is endemic not only among adult men but also in growing children, thus, an increasing number of primary and high schools are introducing yoga practices into their curriculum in order to help children to learn at an early age how to manage stress.

This is also the phase of reproductive growth and sexual maturation of growing boys. During puberty, immense alterations take place in the body’s chemistry and physiology. The chakras also develop and become more active. Inequities of the chakras, body chemistry, and physiology often point up mood swings. Regular yoga practice helps in maintaining balance in the different chakras and keeps the spirit and soul strong and healthy, thereby benefiting both the body and mind. Yoga poses tone and balances the sex glands, while improving energy. During the teen years, most boys and girls become self-conscious about the changes in their bodies that go with sexual development. Boys may suddenly become concerned about whether hair is beginning to grow in the right places, such as on their faces or in the pubic area. They may also be concerned with muscle tone. Regular practice of yoga builds muscle tone and strength and improves energy and balance to enhance physical fitness and performance. According to Indian Philosophy, a healthy spine creates balance and creates sound mind. Poses involving twists and upside-down positions are especially effective. Internal organs are growing and changing during this period and can become upset with diet changes or over stimulation of nerves. Yoga helps to keep organs healthy despite everyday stresses. It also assists in balancing out the mood swings and eliminating the body aches resulting from the hormonal imbalances experienced during sexual maturing. During this growth period, yoga is useful in easing the tension of tight muscles, tendons, and ligaments, and it can also help to strengthen bones. Yoga practice in childhood and early adulthood is also found to be effective to avoid precocious puberty.

**Yoga for adult men**

The stresses of modern life seem to be accelerating, however, to a greater extent for younger men. Stress seems to come from nearly every façade - work, home, personal relations, everywhere. Along with better management of stress, one can not only help himself to keep the muscle strength and flexibility, but also can improve his reproductive health. It also helps to improve circulation, promote proper functioning of the internal organs, and help to steady the nerves. Regarding reproductive health, *Kundalini Yoga* is considered the ultimate yoga by which virility and sexual energy are not suppressed. Sexual energy, which is considered the most potent form of biochemical energy in the body, is the one form of energy that can be used for rejuvenating the entire physical apparatus, as well as be used for spiritual growth and transformation; so this energy is certainly important to have in quantity and quality. The ancient holy men, yogis of India were known to maintain their sexual charge and drive right through their life and toward that end by yoga practice. Yoga can also heal any sexual dysfunction, and thereby increase sexual potency and refine sexual energy, so it can be utilized for spiritual transformation. In men, practicing *moola bandha* has been associated with relieving spermatorrhea, preventing inguinal hernia, and controlling testosterone secretion. Kraftsow clarifies how *moola bandha* stretches the muscles of the pelvic floor, increases circulation in that area, balances, stimulates, and rejuvenates the area through techniques that increase awareness and circulation. As a result, exercises that utilize *moola bandha* may be helpful in aiding people who lack sexual vitality and have poor sexual functioning. In numerous sex therapy centers, the practice of *moola bandha* is used to enhance awareness of genital arousal sensations, and in this way, may be a helpful adjunct for improving sexual desire and arousal. For Indian men who practice *brahmacharya*, or celibacy, certain yoga poses are thought to control (or reduce) erection and desire. For instance, there is a central pose known as *siddhasana* in which the practitioner’s legs are crossed while seated during which a celibate man can pinch his penis and scrotum with his heels to control his desire. This type of control is considered a highly desirable state to attain for these men choosing celibacy.
Yoga for middle aged men

As men mature, the emphasis of yoga practice progressively shifts from growing bones and muscles, to maintaining and protecting health. In this age, the major problems men suffer from is ED and loss of sexual attractions toward female partner, may be as a result of increased stress and anxiety and other physiological problems including hormonal imbalance which again attributable to their age. Anything that increases anxiety or stress may contribute to ED by interfering with the relaxation fundamental to erection. Yoga is deeply relaxing. Something that damages the arteries or interferes with penile blood flow may also contribute to ED. No wonder that risk factors include: High blood pressure, high cholesterol, heart disease, and diabetes, all of which damage the arteries and reduce blood flow around the body, including into the penis. Obesity and a sedentary lifestyle also increase risk of ED. They are closely linked to the risk factors just mentioned. All these conditions also become more prevalent as men age.

Yoga for aged men

Aging, a process of growing old is natural and hence unavoidable. As aging comes across with numerous health problems, mental disturbances and social distraction, it becomes the most annoying part of everyone’s life. All these issues interfere with daily routine of a person and make life more cumbersome. The average life expectancy for a male in the United States in the year 2000 was 74 according to studies by the National Center for Health Statistics at the Centers for Disease Control and Prevention. Seniors can benefit immensely from the practice of yoga. Yoga can help to promote the functioning of the circulatory, immune, and endocrine systems. It can help promote enhanced functioning of the nervous system and the internal organs. It can help calm and relax, thus relieving anxiety and stress. Not only physical limitations, but also depression and anxiety can be part of older men’s lives. The focusing practices of yoga can help older men gain greater clarity on their life situations - to accept themselves as they are. As men age, their production of DHEA, as well as testosterone and other androgens or sex hormones decline. It is been estimated that for every year over the age of 40, men’s testosterone level drops by 1%. About 20% of men in their 60s have significantly reduced testosterone levels. As testosterone is a key hormone in men’s sexual functions, aging-related decline in testosterone levels has a negative impact on men’s sexual performance.

THERAPEUTIC WAYS OF YOGA ACTION: ON MALE REPRODUCTIVE HEALTH

Yoga basically acts as mind-body complementary medicine of male reproductive health by improving health in various ways [Table 1]. It not only acts on endocrine axes to improve reproductive functions in male, but also, helps to improve reproductive health by improving reproductive behavior, mood, and also by reducing anxiety and stress.

Yoga in improvement of reproductive functions

There are reports that shows practice of yoga modulates neuroendocrine axis which results in beneficial changes in the practitioners. Schmidt et al. found a reduction in urinary excretion of catecholamines and aldosterone, a decrease in serum testosterone and luteinizing hormone levels and an increase in cortisol excretion, indicating optimal changes in hormones. Kamei et al. found changes in brain waves and blood levels of serum cortisol during yoga exercise in seven yoga instructors and found that alpha waves increased and serum cortisol significantly decreased.

The field of psychoneuroimmunology has defined the role of stress in reducing effectiveness of the immune system in combating infection and growth of malignant tumors. There are encouraging reports of studies citing the influence of melatonin on prostate tumors. Some studies found an association between meditation practice and levels of melatonin produced by the pineal gland. Some studies have reported role of Kundalini Yoga in regulation of terminal prostate cancer. For men, difficulties in the second chakra area usually occur in the prostate gland. On a deeper level, diseases of the pelvic area are often related to blocks in the second chakra, which can be connected to sensual or sexual issues and passion for life in general. This is also the area that carries deepest emotions, including pain and grief. If one does postures that activate the second chakra, especially those with imbalances in the pelvic area, will experience those feelings emerging. Every so often middle-aged men will experience swelling of the prostate, which does not cause pain but causes excessive urination due to the pressure on the bladder. Compression in postures such as the Yoga Mudra and Locust can flush out the prostate, bring in fresh blood and prana and improve tone. Men with inflamed prostates

| Table 1: Various yogic techniques and their health impacts |
|----------------------------------------------------------|
| **Hatha yoga** | This form of yoga includes slow, methodical postures, and movements. Hatha yoga focuses on improving posture and relaxation breathing techniques, and is meditative in nature |
| **Kripalu yoga** | Improves the connection between mind and body through simple postures and deep breathing techniques |
| **Couples yoga** | An increasingly popular form of fertility yoga, couples yoga involves completing postures with the help of a partner. This type of yoga is especially beneficial for individuals experiencing fertility problems, as it helps to improve intimacy and communication between couples |
should avoid postures that press down into the pelvis and they should go only halfway into less compressing posture. Pranayama can also be practiced in conjunction with the postures. Kapalabhati is an excellent practice for moving energy into the pelvis and is especially helpful for prostate enlargement, for inflammatory conditions, like prostatitis, dirgha pranayama or ujjayi breath can help cool and relax the area.

Obesity in reproductive age is also found to be a contributor to the male infertility. Yogic practice reported to improve serum adiponectin and leptin levels along with serum lipids and metabolic syndrome risk factors. Yoga and other relaxation techniques are established to have higher potency in regulating adiposity than other complementary and alternative therapies.

**Yoga in subduing stress and anxiety**

Since the 1970s, meditation and other stress-reduction techniques have been studied as possible treatments for depression and anxiety. One such practice, yoga has received less attention in the medical literature, though it has become increasingly popular in recent decades. Stress, however, is known to raise the likelihood of infertility, and yoga is very effective at reducing stress. Patients suffering from problems in reproductive functions, experience anxiety and depression rates similar to those of patients with cancer, HIV/AIDS. And even patients without fertility problems can find trying to have a baby—a mysterious process ultimately beyond our control—disorienting. The links between stress and infertility are complex and not fully understood, but cortisol, the so-called stress hormone, can interfere with normal reproductive functions. Lower stress levels and having a positive mood and outlook can increase the odds that fertility treatments will work. Perhaps the strongest evidence is that reducing stress through yoga can boost fertility.

In 2000, Domar found that 55% of infertility patients had a baby within 1 year of practicing yoga and meditation, along with other relaxation techniques. Anxiety responds well to treatments such as cognitive behavioral therapy and/or medication. Non-pharmacological interventions such as mind-body interventions, known to decrease anxiety in several clinical situations, might be offered for treating and preventing anxiety during reproductive age.

Available reviews of a wide range of yoga practices suggest they can reduce the impact of exaggerated stress responses and may be helpful for both anxiety and depression. It mainly acts via down regulating the HPA axis that trigger as a response to a physical or psychological demand (stressor), leading to a cascade of physiological, behavioral, and psychological effects, primarily as a result of the release of cortisol and catecholamines. This response leads to the mobilization of energy needed to combat the stressor through the classic “fight or flight” syndrome.

In this respect, yoga functions like other self-soothing techniques, such as meditation, relaxation, and exercise [Table 2]. By reducing perceived stress and anxiety, yoga appears to modulate stress response systems. Tooley et al. found significantly higher plasma melatonin levels in experienced meditators in the period immediately following meditation compared with the same period at the same time on a control night. It was concluded that meditation can affect plasma melatonin levels. It remains to be determined whether this is achieved through decreased hepatic metabolism of the hormone or via a direct effect on pineal physiology. Either way, facilitation of higher physiological melatonin levels at appropriate times of day might be one avenue through which the claimed health-promoting effects of meditation occur. These observations suggest that yogic practices can be used as psychophysiological stimuli to increase endogenous secretion of melatonin, which, in turn, might be responsible for improved sense of well-being.

**Table 2: Yogic practices to improve male reproductive health**

| Diagnoses                          | Considerations                                                                 |
|------------------------------------|-------------------------------------------------------------------------------|
| Anxiety and stress                 | Movement in poses can be used to discharge and direct energy—starting with energizing and ending with calming poses. Focusing attention on present moment sensations could be helpful to avoid stress/anxiety. Belly breathing can be practiced, as anxiety/agitation may be increased with upper chest breathing. Relaxation should be guided by an expert, as anxiety/hyperactivity may increase during relaxation. Progressive increase in length of exhalation is beneficial. |
| Abnormal mood functioning and obesity | One should start with slow and easy movements, with progressive increase in activity level. Then, deeper twists, new poses, and longer holds in poses should be encouraged to increase capacity to go beyond self-perceived limits. |
| Low sperm count or motility disorders | To get blood pumping to reproductive organs with a few yoga poses that can increase sperm count and quality. It can be performed by sitting tall with legs stretched out in front, to move into Mahamudra: Bending of left knee and bringing left foot to the center of groin. The sole of the foot should rest right against perineum, keeping right leg straight and bending forward over the legs, reaching right hand down to grab right foot. Counting of three deep breaths after holding and then repetition on the other side is helpful to improve blood circulation to the genital organs. |
| Disorders in prostate              | Boot poses tone pelvic floor muscles to promote prostate health. |
Yoga in improving mood and functioning

In a German study published in 2005, women who described themselves as “emotionally distressed” are treated with 90-minute yoga classes a week for 3 months. At the end of 3 months, women in the yoga group reported improvements in perceived stress, depression, anxiety, energy, fatigue, and well-being. Depression scores improved by 50%, anxiety scores 30%, and overall well-being scores by 65%. Initial complaints of headaches, back pain, and poor sleep quality also resolved much more often in the yoga group than in the control group. In an another 2005 study examined the effects of a single yoga class for inpatients among patients with bipolar disorder, major depression, and schizophrenia it is found after yoga class, tension, anxiety, depression, anger, hostility, and fatigue dropped significantly. Further controlled trials of yoga practice have demonstrated improvements in mood and quality of life for elderly, people caring for patients with dementia, breast cancer survivors, and patients with epilepsy.[78]

CONCLUSION

The high prevalence of low sperm counts in young men across the world today is a cause for concern, especially when considered together with the trend for first pregnancy in the female partner (and thus reduced female fertility). As when considered together with the trend for first pregnancy across the world today is a cause for concern, especially 

that yoga can be beneficial in the prevention of infertility and improve male reproductive health.

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