

Biohawk's Solution to Infertility

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Recommended Program

Both partners follow the Biohawk 2-Step Plan for 3 months prior to conception:

1. Prepare all food and drink with a Biohawk ginger product as described on biohawk.com.au under "Information": go to "Food Preparation", "Helpful Hints", and "Recipes". If you are eating out, select dishes that are safer for you and give them a dusting with the Biohawk RELIEF. Add a very small amount of RELIEF powder into your tea, coffee, wine, whisky, gin and juices. The food and drink will have an improved flavour and a much larger proportion of the food's nutrition will be released for uptake in the small intestine. People find they can reduce the amount of food they eat by about 40% and maintain their necessary energy levels. In addition, as high energy food is absorbed in the small intestine and does not pass into the large intestine to be fermented by the bacteria, the large intestine's pH will adjust to above 6.2 allowing good bacteria to prosper.
2. Both Partners take the "daily" amount of Biohawk's RELIEF or DIGESTEASY for the body weight 2 times a day after breakfast and dinner (timing after the meal is not important but do not take other supplements or medicines or foods or drinks at the same time - leave over 20 minutes).
3. During pregnancy and breast-feeding, the mother should continue this program. If the baby does not latch on to the mother's breast or suffers from colic, simply apply a drop of DIGESTEASY **under** the baby's tongue before each feed.

Infertility is a serious health, social and economic problem

Currently in Australia over 20% of couples seeking to have a child are unsuccessful. One or both of the partners have a health condition with their reproductive organs that prevents conception or results in a miscarriage. By 2030, this percentage is estimated to increase to over 50% of couples, presenting a very serious problem for the country. (Figure 1)

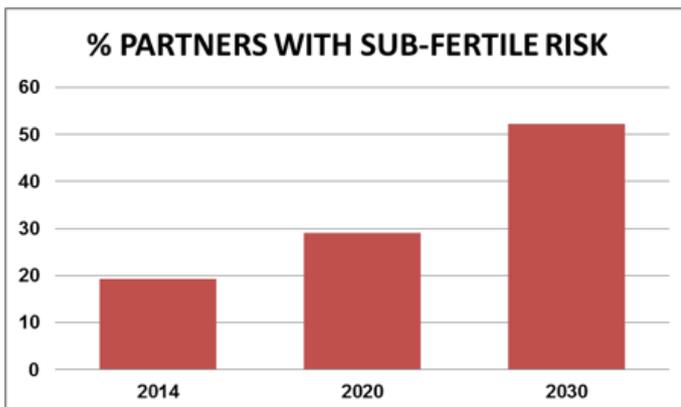


Figure 1:

Based on Australian women's age for births 2010; assuming 40% each partner has Food Intolerance switched on by vaccination at 21 in 2014, at 27 in 2020, and at 37 in 2030; assumed 50% of men with their immunity gene switched on by vaccination partner women with their immunity gene switched on by vaccination: earlier vaccinations were not as successful in switching-on the immunity gene.

Link between Infertility and Food Intolerance

Studies in the literature have shown a clear link between infertility and various expressions of food intolerance such as Coeliac Disease (about 1% of people with food intolerance), obesity and other autoimmune conditions. A change of diet to gluten-free and dairy-free has been reported to have had a benefit, but the gene for food intolerance, HLA DQ2 (95% in Australia) or DQ8 (5% in Australia), is hypersensitized by a very broad spectrum of western foods and drinks that have significant concentrations of proline-rich proteins. Examples of segments of some of these proteins are given in Figure 2. The pancreatic enzymes we rely upon to digest food proteins are unable to digest these proteins because the proline amino acid has a fixed

structure with a 5-membered relatively flat ring containing the amine nitrogen with the carboxyl group fixed at about 90° to the plane of the ring. The above immune system recognizes them as antigens causing an increase in immune cells and immune proteins that switch-on autoimmune genes the individual person has, plus immunoglobulins that will bind to antigenic proline-rich proteins such as on the membranes of sperm. These proteins also encapsulate the foods' nutrition limiting the amount of nutrition that is absorbed through the small intestine with the high energy nutrients passing into the large intestine where they are fermented lowering the pH of the large intestine to less than 6.2 where "good" bacteria are unable to survive while "bad" bacteria thrive and put toxins into the blood.

Figure 2: Food & Drink Proline-Rich Protein Segments Showing where Ginger Enzymes Digest the Proteins

Wheat .. QPFPQQPYQPQPFPSQLPY..	Barley .. PTPLQPQQFPQQPQQPLPRPQQP..
Milk .. QPTTMARHHPHPLSFMAIPPK..	Wine .. CPSPPPKPPKVKHPLPPLPKHPPH..
Carrot .. CPDPYKPKPKPTPKPTPTPYS..	Tomato .. CPYCPYPPSTPKHPKLPPKVKPPS..
Onion .. NPGLRNPRFQNIPRDCRNTFVRP..	Lentil .. KPPVYKPPVEKPPVYKPPVVKPP..
Capsicum .. EPPKPKPEKPKPEKPKQPEKPK....	Grapefruit .. PPEPKKPK..
Beetroot .. RPSRPTPPRPPTPRPPPRPPTPRP..	Asparagus .. CPHCPPTTIPTHPTTKPIDPPTHRPHPPK..
Soy .. PSHPPRRPS..	Peanut .. DPYSPDPYSPSQDPDRRDYSPSPY..
Coffee .. QPFRPPPSLPPQ..	Chocolate .. NPYYFPK..

P proline **P** where ginger enzymes digest protein

The above Biohawk program pre-digests the proline-rich proteins before they enter the digestive system releasing all the nutrition for absorption in the small intestine and removing the risk of large intestine fermentation so the pH returns to above 6.2, which allows good bacteria to re-colonise. The ginger enzymes have been found to activate macrophages so the body can repair the previous damage to the reproductive system.

Consequences of Food Intolerance on aspects of Fertility recognized in the medical literature:

- Delayed puberty
- Absence of menstrual period
- Early menopause
- Reduced semen quality
- Hypogonadism – diminished activity of gonads (testes and ovaries)
- Polycystic Ovarian Syndrome: PCOS
- Endometriosis
- Failure of male vas deferens to develop due to Cystic Fibrosis
- Recurrent miscarriages
- Higher stillbirth rate
- Increased preterm deliveries
- Lower birth weight
- Reduced duration of lactation
- Reluctance of baby to latch on to breast

This is a very serious, emerging health, economic and social problem confronting Australia and other countries. IVF programs will not resolve the problem unless the damage to the reproductive system is repaired successfully prior to implantation.

Role of Immunoglobulins in Infertility: hypothesis by Dr Hawkins

If one or both partners have food intolerance, their IgG levels are elevated for binding to proline-rich proteins. Not surprisingly, male sperm have membrane proteins that are rich in proline (see *Figure 3*) to protect the sperm just as bacteria, viruses and cancer cells have a coating of proline-rich proteins so they can survive in their host. If because of food intolerance one or both partners have elevated levels of IgG, these proteins will bind to the sperm's membrane interfering with the sperm's motility and their ability to fertilise an egg. Some infertile men have a condition called leucospermia (elevated white cells in semen including T-cells and B-cells) that would facilitate the production of immunoglobulins to bind specifically to the sperm membrane proline-rich proteins. Such a coating would remove the ability of the sperm to fertilize an ovum. If the female has food intolerance with elevated IgG levels, it is possible they will bind to the male's sperm interfering with their ability to fertilise. Biohawk's above program allows the person's body to reduce the immune system to normal lowering the risk of IgG interfering with conception.

Figure 3. Infertility-related sperm protein Spag-1

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1 MTTKDYPSLW GFGTTKTFKI PIEHLDFKYI EKCSDVKHLE KILCVLRSGE EGYYPELTTEF
61 CEKHLQALAP ESRALRKDKP AATAASSFTAE EWEEKIDGDIK SWVSEIKKEE DKMHFHETET
121 FPAMKDNLPP VRGSNSCLHV GKEKYSKRPT KKKTPRDYAE WDKFDVEKEC LKIDEDYKEK
181 TVIDKSHLSK IETRIDTAGL TEKEKDFLAT REKEKGNEAF NSGDYEEAVM YYTRSSISALP
241 TVVAYNNRAQ AEIKLQNWNS AFDCEKVLE LEPGNVKALL RRATTYKHQN KLREATEDLS
301 KVLDVEPDND LAKKTLSEVE RDLKNSEEAAS ETQTKGKRMV IQEIENSSEDE EGKSGRKHED
361 GGGDKKPAEP AGAARAAQPC VMGNIQKLT GKAEGGKREPA RGAPQRGQTP EAGADKRSSPR
421 RASAAAAAGG GATGHPGGGQ GAENPAGLKS QGNELFRSGQ FAEAAGKYSA AIALLEPAGS
481 EIADDLSILY SNRACCYLKE GNCSGCIQDC NRALELHPFS MKPLLRRAMA YETLEQYGKA
541 YVDYKTVLQI DCGLQLANDS VNRLSRILME LDGPNWREKL SPIPAVPASV PLQAWHPAKE
601 MISKQAGDSS SHRQQGITDE KTFKALKEEG NQCVNDKNYK DALSKYSECL KINNKECAIY
661 TNRALCYLKL CQFEEAKQDC DQALQLADGN VKAFYRRALA HKGLKNYQKS LIDLNKVILL
721 DPSIIEAKME LEEVTRLNL KDKTAPFNKE KERRKIEIQE VNEGKEEPGR PAGEVSMGCL
781 ASEKGGKSSR SPEDPEKLPI AKPNNAYEFG QIINALSTRK DKEACAHLLA ITAPKDLPMF
841 LSNKLEGDTF LLLIQSLKNN LIEKDPSLVY QHLLYLSSKAE RFKMMLTLIS KGQKELIEQL
901 FEDLSDTPNN HFTLEDIQAL KRQYEL
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Differences in protein profile of the sperm of fertile and infertile men

Studies of protein extracts of fertile and infertile men's sperm (for example, Rajeev, SK; Reddy, KV, **Human Reproduction**, 2004, **19**, 234-42) have found that men with fertile sperm have a 57kDa protein whereas 80% of infertile men lack this protein and 20% have negligible levels of the protein. It will be of interest to see if the Biohawk program's impact on the immune system of infertile men switches off the gene that prevents the expression of this protein.

Outcomes from Biohawk program

The success rate is exceptionally high for couples who have followed the above Biohawk program to overcome their well-documented infertility with failure to conceive over a number of years, multiple miscarriages and/or multiple failed IVF programs over a number of years. Most couples simply report to Biohawk successful conception and successful birth. Some examples from Biohawk's case files follow.

Case 1:

"I have massive issues with recurrent pregnancy loss (6 miscarriages) and I was about to do IVF when we spoke.

I did as you suggested and treated all my food with Relief and also took 1/2 teaspoon 2-3 times a day. We did a frozen embryo transfer and it took. I am now 8 weeks pregnant (I've never gotten this far) and we have seen the little heart beat twice. Starting to feel more confident every day." Healthy baby born full term.

Case 2:

"I had been told by my specialists to stop all medication, for example Clomid and everything else. I was also advised to stop taking Eutroxig and Crestor medication. After I had stopped all medications for one month with no success in falling pregnant, I was thinking this was it because of my stage of life, and there were going to be no more children for me, and to accept that we had been blessed to have our first and only child. After having a miscarriage once after our first child and after ceasing all medication as I had been told to do without success, I started preparing my food with Biohawk's ginger and taking it as a supplement morning and night. One day I just knew I was pregnant and I produced a full-term, healthy, beautiful baby girl. (photo: 8 months)



Case 3:

Fertility Clinic: "I put someone directly onto you and they are pregnant now. Your products are a 'compulsory' part of our program."

"We are running at about 80-90% babies being born, with the only people who have not conceived have not been doing what they are meant to."

"Thank you for helping all those who I have told to call/contact you. And for the many I have just put on your products.

They are all having great results.

I hope you don't mind people contacting you."

Case 4:

Female had one withered (left) ovary with no right ovary with severe endometriosis prior to commencing Biohawk program: After 1 month, left ovary had normalised, endometriosis had reduced in severity, and first healthy egg was produced. After 3 months, the right ovary appeared and each ovary produced a healthy egg, followed by a successful pregnancy with the embryo having a strong heartbeat (110/minute) at about 9 weeks. The 20 week studies showed a healthy baby (photo: 20-week ultrasound). Full-term, very healthy boy 3.2Kg has arrived into this world.



Important Advice

Biohawk's products are foods. The program is based on sound scientific studies and case studies but not on formal independent clinical trials. No known health risk has been identified from following the protocol. It is important to maintain supervision of your health condition by your medical team.