

Certification Curriculum



Insulation American American American American American American Level 5 DPLCMA

Summary Certification Overview

1	Working with fertility clients	11	Resolving Excess or Low Body Weight
2	Female fertility 101	12	Lessening Unwanted Epigenetic and Microbiomic Risks
3	Achieving successful conception	13	Planning a personalised fertility diet
4	Tracking fertile windows	14	Male Fertility 101
5	Estimating your client's next fertile window	15	Supplementing a Fertility Diet
6	"I want to get pregnant now"	16	Health conditions affecting odds MODULE
7	Slowing down accelerated ageing	17	Supporting my client through IVF
8	Reducing harmful inflammation	18	The first stage of pregnancy
9	Hormonal imbalances	19	Setting up your fertility nutrition practice
10	Mitigating environmental assault		





Unit	Content
1	Advanced Fertility Nutrition introduction
2	Skills Lab™: What's your goal?
3	Working with fertility nutrition clients
4	Assessing your client's cycle length
5	Skills Lab™: How fertility-friendly is your diet?
6	Assessing your client's diet
7	Introducing the uterus and ovaries
8	Ovulation: Making and releasing an egg
9	Conception: the union of egg and sperm
10	Implantation: Embedding in the endometrium





Unit	Content
11	Testing for pregnancy
12	Why track the 4 indicators of fertility?
13	Tracking cycle length
14	Tracking body temperature
15	Tracking cervical secretions
16	Tracking the LH surge
17	Interpreting fertility data
18	Identifying the fertile window step-by-step
19	Predicting the next fertile window
20	Estimating time to conception





Unit	Content
21	What speeds up reproductive ageing?
22	Antioxidants: slowing reproductive ageing?
23	Protecting the mitochondria
24	AGEs increasing inflammation
25	Trans fats, gluten, and lactose
26	Stressed while trying to conceive
27	Hormones in the menstrual cycle
28	Monitoring hormone levels for ovulation
29	Minimising endocrine disruptors
30	Balancing hormones through nutrition





Unit	Content
31	Pesticides and everyday toxins
32	Occupational hazards
33	Living toxins
34	What's an ideal preconception weight?
35	Extra fat = extra hard to get pregnant?
36	Eating enough and eating right
37	The epigenetics of fertility nutrition
38	Can microbes lower fertility odds?
39	Skills Lab™: Designing your client's personalised nutrition plan
40	Structuring your client consultations





Unit	Content
41	Skills Lab™: How can you monitor your client's progress
42	Bonus Guide: 100+ Fertility-Friendly Food Swaps
43	The 3 characteristics of good sperm
44	Skills Lab™: Preparing for a semen analysis
45	Ageing, inflammation, and hormone imbalance
46	Toxicity, body weight, epigenetics and microbiomics
47	Nutritional influences on male fertility
48	Common Supplements for boosting fertility odds
49	Top 5 conditions which impact female fertility
50	Visiting a gynaecologist?





Unit	Content
51	Fundamentals of assisted conception
52	In vivo and in vitro techniques
53	Skills Lab™: Is an assisted reproductive technology right for me?
54	Supporting the zygote
55	Preparing for pregnancy and parenthood
56	Skills Lab™: Am I ready to be a parent?
57	Dos, don'ts, and must dos
58	Professional, legal, insurance, and tax considerations





0. Advisory fundamentals

Unit	Here's what you'll learn	Extra support material
 0.1 Advanced Fertility Nutrition introduction 0.2 Skills Lab™: What's your goal? 	 A journey of scientific discovery Learning advanced science 40% of women We get asked all the time Scope of this certification Supporting fertility odds 6 Fertility Nutrition Principles Fertility Nutritional Advisor role The aim of this certification What else will you learn? From knowledge to practice More about your course materials Introducing your Fertility Management Success Map TM Setting up your practice Tell us your goals Your Personal Strategy Questionnaire 	■ Fertility Management Success Map™ ■ Skills Lab™: Personal Strategy Questionnaire (What's your goal?)





1. Working with fertility clients

Unit	Here's what you'll learn		Extra support material
1.1 Working with fertility nutrition	Your client's conception journeyWhere's the client in this journey?	•	Fertility Journey Questionnaire
clients	Fertility Journey QuestionnaireDifferent clients, different situations	•	Menstrual Cycle Tracker TM
1.2 Assessing your client's cycle length	Erasing the word "infertility"Fertility talk and etiquette	•	Diet and Lifestyle Audit TM
1.3 Skills Lab™:	 Words matter! Handling difficult client conversations 	•	Food and Drink Journal TM
How fertility- friendly is your	 Defining your role upfront Your professional boundaries 		Practical Assignment
diet?	Your scope of practiceComing up next	•	Test Your Knowledge
1.4 Assessing your client's diet	 A strong foundation Female cycle: always 28 days? What's the average length? 		Exercises
	 What's the average length? Let's get tracking Menstrual Cycle TrackerTM 		
	- Melisil dul Cycle il uckel		





1. Working with fertility clients

Unit	Here's what you'll learn	Extra support material
1.1 Working with	 Filling up my menstrual cycle tracker 	Fertility Journey
fertility nutrition	What counts as "day 1" in a cycle?	Questionnaire
clients	Start and end of the cycle	Menstrual Cycle
	Calculating cycle length	Tracker TM
1.2 Assessing your	Example: 3 cycles	Diet and Lifestyle
client's cycle length	The 4 main phases	Audit TM
	Days of each phase	Food and Drink
1.3 Skills Lab™:	The fertile window	Journal TM
How fertility-	Varying cycle lengths	Practical
friendly is your	Example: 4 phases	Assignment
diet?	Getting the basics	■ Test Your
	Your client's current choices	Knowledge
1.4 Assessing your	Identifying your client's baseline	Exercises
client's diet	■ Diet and Lifestyle Audit TM	
	Let's see a real client example!	
	Understanding the results	
	Turning yes to no	





1. Working with fertility clients

Unit	Here's what you'll learn	Extra support material
 1.1 Working with fertility nutrition clients 1.2 Assessing your client's cycle length 1.3 Skills Lab™: How fertility-friendly is your diet? 1.4 Assessing your client's diet 	 Monitoring improvement Tracking your client's progress Practical Assignment Processed vs fresh Assessing current food choices Food and drink journaling tips Food and Drink JournalTM Importance of good nutrition The 6 Principles of Fertility Nutrition Your client's baby-making journey 	 Fertility Journey Questionnaire Menstrual Cycle TrackerTM Diet and Lifestyle AuditTM Food and Drink JournalTM Practical Assignment Test Your Knowledge Exercises





2. Female fertility 101

Unit	Here's what you'll learn	Extra support material
2.1 Introducing the uterus and ovaries 2.2 Ovulation: Making and releasing an egg	 Why study female anatomy? What to expect What is the uterus? Female reproductive system diagram Flexible anatomy Thickness of the endometrium A pair of walnuts What do the ovaries do? An egg delivery service Destined to meet Contact is key Client conversation tips The importance of an egg It starts with an egg Remember the 4 menstrual phases? Ovaries in the spotlight Hang fire! 	 ■ Water Accessibility Questionnaire TM ■ Practical Assignment ■ Test Your Knowledge Exercises ■ Video





2. Female fertility 101

Unit	Here's what you'll learn	Extra support material
2.1 Introducing the uterus and ovaries 2.2 Ovulation: Making and releasing an egg	 Born with eggs? Increasing age = decreasing eggs? Client conversation tip Dwindling reserves The female HPG axis Hormones are the messengers Timing egg release Fighting for dominance Antral follicle count Under pressure When is the fertile window? A temporary structure – just in case Ovarian vs menstrual cycle Your client's ovarian cycle A limited number of eggs? Slowing reproductive ageing 	 ■ Water Accessibility Questionnaire TM ■ Practical Assignment ■ Test Your Knowledge Exercises ■ Video





3. Achieving successful conception

Unit	Here's what you'll learn	Extra support material
3.1 Conception: the	What is conception?	■ Test Your
union of egg and	The bigger picture	Knowledge
sperm	An eventful journey	Exercises
	The egg and sperm unite	■ Video
3.2 Implantation:	Two halves coming together	
Embedding in the	A gamete comparison	
endometrium	A helping hand	
	 A preventative measure 	
3.3 Testing for	Zygote formation	
pregnancy	A fusion of information	
	A summary of fertilisation	
	The egg's final destination	
	An overview of conception	
	Fertilisation but no implantation?	
	Finally in the uterus	
	Client conversation tip	
	The 4 key processes	





3. Achieving successful conception

Unit	Here's what you'll learn	Extra support material
3.1 Conception: the union of egg and sperm 3.2 Implantation: Embedding in the	 An overview of implantation Blastocyst competency Lots of changes Time is of the essence The window of implantation "It's green – GO!" 	 Test Your Knowledge Exercises Video
endometrium	 A flexible structure 	
	A 'sticky' endometrium	
3.3 Testing for	A 'sticky' blastocyst	
pregnancy	Cellular suicide	
	 Nutritious blood 	
	 At the start of pregnancy 	
	 A foreign entity 	
	 The steps of implantation 	
	 Highest chance for conception 	
	 Post implantation 	
	The first week of pregnancy	





3. Achieving successful conception





Unit	Here's what you'll learn	Extra support material
4.1 Why track the	Making informed decisions	■ Fertility Tracker TM
4 indicators of	When is the fertile window?	Examples for
fertility?	A window of opportunity	completing each
	The end is ovulation	part of the
4.2 Tracking cycle	Key fertility data points	Fertility Tracker™
length	■ Fertility Tracker TM	■ Test Your
	 Revisiting the menstrual cycle 	Knowledge
4.3 Tracking body	Tracking the number of days is key	Exercises
temperature	Same for all women?	Your Key
	Changes in the menstrual cycle	Takeaways
4.4 Tracking	Many different contraceptives	Video
cervical secretions	Stopping contraception?	
	The modern age of technology	
4.5 Tracking the LH	Ready to start tracking?	
surge	See red? Start tracking!	
	Blood from my period, or not?	
	What causes spotting?	





Unit	Here's what you'll learn	Extra support material
4.1 Why track the 4 indicators of	What is "day 1"?Day 1: when to start tracking	 Fertility TrackerTM Examples for
fertility?	 When is the "last day"? Skipping a day? Described a second blood in the second	completing each part of the
4.2 Tracking cycle length	 Recording menstrual bleeding A light or heavy day? Example: length, bleeding 	Fertility Tracker™ ■ Test Your Knowledge
4.3 Tracking body temperature	 What are the odds? Cyclical differences When is the fertile window? 	Exercises Your Key Takeaways
4.4 Tracking cervical secretions	 Midpoint or 2 weeks? Midpoint vs length – 14 days Estimating ovulation day 	■ Video
4.5 Tracking the LH surge	 Cycle length: always helpful? A predictable cycle? 2 days of variability Cycle length variability 	





Unit	Here's what you'll learn	Extra support material
4.1 Why track the4 indicators offertility?4.2 Tracking cyclelength	 A helpful marker A surrogate for hormone increase? Still looking back Staying in bed longer Example: basal temperature Temperature control 	 Fertility TrackerTM Examples for completing each part of the Fertility TrackerTM Test Your
4.3 Tracking body temperature 4.4 Tracking	 Example: Additional notes Retrospective vs prospective Look closely Migrating mucus Outside or inside? 	Knowledge Exercises Your Key Takeaways Video
cervical secretions 4.5 Tracking the LH	 Collecting secretions 4 types of cervical mucus Example: cervical mucus 	
surge	 Moving on to mucus Don't miss out! A small opportunity 	





Unit	Here's what you'll learn	Extra support material
4.1 Why track the 4 indicators of fertility? 4.2 Tracking cycle	 Sperm cell survival Mucus is not the final story Accuracy helps! Starting folliculogenesis Another small opportunity What time to test? 	 Fertility TrackerTM Examples for completing each part of the Fertility TrackerTM Test Your
4.3 Tracking body temperature	 What time to test? Most fertile days 4 days lost? Probability of conception Urine for a treat! 	Exercises Your Key Takeaways
4.4 Tracking cervical secretions4.5 Tracking the LH	 Variation in tests Changing faces A helpful comparison Following instructions Sperm symbolises intercourse 	■ Video
surge	Example: LH surge	





Unit	Here's what you'll learn	Extra support material
4.1 Why track the 4 indicators of fertility?	Correcting misconceptionsPutting it all together	 Fertility TrackerTM Examples for completing each part of the
4.2 Tracking cycle length		Fertility Tracker TM Test Your Knowledge
4.3 Tracking body temperature		Exercises Your Key Takeaways
4.4 Tracking cervical secretions		Video
4.5 Tracking the LH surge		





5. Estimating your client's next fertile window

Unit	Here's what you'll learn	Extra support material
5.1 Interpreting fertility data 5.2 Identifying the fertile window step-by-step 5.3 Predicting the next fertile window	 It's interpretation time! Fertile Window Chart™ Fertile Window Summary™ Just the beginning Instructions Overview Every cycle is unique What are the odds? How to identify fertile windows Step-by-step instructions How long are we talking? Make sure it's a good fit More is more The beginning of the end Cycle Length Guide Conjecture: a great starting point Example: cycle length A postovulatory pick-me-up 	■ Fertile Window Chart™ ■ Fertile Window Summary ™ ■ Instructions Overview ■ Test Your Knowledge Exercises ■ Your Key Takeaways





5. Estimating your client's next fertile window

Unit	Here's what you'll learn		Extra support material
5.1 Intoxpreting	Temperature trending		Fertile Window
5.1 Interpreting		_	
fertility data	Temperature Conversion		Chart™
	The 2 signs of ovulation	•	Fertile Window
5.2 Identifying the	Counting backwards		Summary ™
fertile window step-	Example: temperature	•	Instructions
by-step	Any additional notes?		Overview
	Example: notes	•	Test Your
5.3 Predicting the	Not trendy enough?		Knowledge
next fertile window	Moisture marks the spot		Exercises
	Example: mucus	-	Your Key
	It's time to face the facts!		Takeaways
	Double trouble		
	It's all in the mode		
	You've reached your peak!		
	Example: LH surge		
	Similar ranges?		





5. Estimating your client's next fertile window

Unit	Here's what you'll learn	Extra support material
5.1 Interpreting	3 more steps to go!	Fertile Window
fertility data	Read your fertility blueprint(s)	Chart TM
	Estimating fertile window dates	Fertile Window
5.2 Identifying the	Finding middle ground	Summary™
fertile window step-	Similar of different?	Instructions
by-step	Example: finding average	Overview
	Example: notes	■ Test Your
5.3 Predicting the	Timing is everything	Knowledge
next fertile window	Example: intercourse	Exercises
	Example: summary	Your Key
	Know your limits	Takeaways
	When will I be pregnant?	





6. "I want to get pregnant now"

Unit	Here's what you'll learn	Extra support material
6.1 Estimating time to conception	 "When will I get pregnant?" Different clients, different situations Managing expectations No need to brush up on your maths How often is often enough? What is "time to conception"? In an ideal world What are the odds? Flexibility vs frequency Estimated time to conception "Which would you prefer?" Explaining the data Scenario 1. Faster time to conception "Scenario 2. Slower time to conception "Why me?!" 	Estimated time to conception handout Test Your Knowledge Exercises Your Key Takeaways
	■ "When are you free?"	



6. "I want to get pregnant now"

Unit	Here's what you'll learn	Extra support material
6.1 Estimating time to conception	 Make it fun! Time for nutritional factors? 	 Estimated time to conception handout Test Your Knowledge Exercises Your Key Takeaways





Unit	Here's what you'll learn		Extra support material
7.1 What speeds	The first of the 6 principles	•	Kitchen
up reproductive	How many types of ageing?		Inventory TM
ageing?	The 3 types of age	-	Antioxidant Food
	Damaging the DNA		List TM
7.2 Antioxidants:	Reactive oxygen species	•	Antioxidant Foods
slowing	Remember the follicle?		Tracker TM
reproductive	From follicle to blastocyst	•	Mito Supporters
ageing?	Splitting cells		Tracker TM
	Mitosis and nondisjunction	•	Test Your
7.3 Protecting the	Feeling off balanced		Knowledge
mitochondria	Passing on DNA		Exercises
	Unbalanced chromosomes	•	Your Key
	 Older vs younger reproductive age 		Takeaways
	Unwanted consequences		
	A quick review		
	Getting in the way of conception		
	Avoiding aneuploidies		





Unit	Here's what you'll learn	Extra support material
7.1 What speeds up reproductive ageing? 7.2 Antioxidants: slowing reproductive	 Detractors and reproductive age Too much of a good thing What could go wrong? Choose wisely Which exercises are best? 4 Key dietary components Slowing down ageing 	 Test Your Knowledge Exercises Your Key Takeaways Video
7.3 Protecting the mitochondria	 Kitchen Inventory TM Time for a shopping trip? Raise the bar Working together "Where should I start?" A plant defence system? A rainbow of specialities When eating just isn't enough Antioxidant losses from cooking Different cooking methods 	





Unit	Here's what you'll learn	Extra support material
7.1 What speeds up reproductive ageing?	 Raw vs cooked: Which one wins? Cooking certain vegetables Lycopene in tomatoes Other antioxidant boosting strategies 	Test YourKnowledgeExercisesYour Key
7.2 Antioxidants:	Your enzymes need you!	Takeaways
slowing reproductive ageing?	 Crucial structural components A proven system Working in isolation? Fertility Supporting Foods 	■ Video
7.3 Protecting the mitochondria	 Unsung Hero? In my client's kitchen? Antioxidant Food ListTM Antioxidant Foods TrackerTM 	
	 Slowing down Supporting mitochondria How to feed your mitochondria Antioxidant compounds 	





Unit	Here's what you'll learn	Extra support material
7.1 What speeds up reproductive ageing? 7.2 Antioxidants: slowing reproductive	 Vitamin E to the rescue? "I need assistance!" Supporting blastocysts We make our own? Beet the odds! Repair and regenerate Reducing reproductive ageing 	 Test Your Knowledge Exercises Your Key Takeaways Video
ageing?	 Mitochondrial Supporters List Mito Supporters TrackerTM 	
7.3 Protecting the mitochondria	 Making a commitment The end of the first 	





8. Reducing Harmful Inflammation

Unit	Here's what you'll learn	Extra support material
8.1 AGEs increasing	Inflammation 101	Cooking Method
inflammation	Stress and inflammation	Audit [™]
	Inflamed conditions	Handouts: Top
8.2 Trans fats,	Foods for inflammation?	anti-inflammatory
gluten, and lactose	■ Cooking Method Audit TM	foods, 60 foods to
	Client conversation tips	watch for
8.3 Stressed while	 AGEs increasing ageing 	damaged fats,
trying to conceive	Protein glycation	Glucose food
	Are AGEs also in food?	swaps, lactose
	Preferred cooking methods	food swaps
	Processed foods?	Conception Stress
	Where do the AGEs go?	Evaluation TM
	Why are AGEs so problematic?	Test Your
	A vicious cycle	Knowledge
	Delayed fertilisation	Exercises
	Reducing AGEs through the diet	Your Key
	 Top anti-inflammatory foods 	Takeaways





8. Reducing Harmful Inflammation

Unit	Here's what you'll learn	Extra support material
8.1 AGEs increasing	 Not just about AGEs 	Cooking Method
inflammation	What else impacts inflammation?	Audit [™]
	Artificial trans fats	Handouts: Top
8.2 Trans fats,	Changing structure	anti-inflammatory
gluten, and lactose	What do trans fats look like?	foods, 60 foods to
	Problems with an egg?	watch for
8.3 Stressed while	Inflammation, stress, and insulin	damaged fats,
trying to conceive	 60 foods to watch for damaged fats 	Glucose food
	What is gluten?	swaps, lactose
	Coeliac disease and NCGS	food swaps
	Decreasing fertility?	Conception Stress
	Understanding the why	Evaluation TM
	Monitoring nutritional deficiencies?	■ Test Your
	Gluten food swaps	Knowledge
	 Statistical Likelihood 	Exercises
	Trouble digesting dairy?	Your Key
	A new player in milk intolerance?	Takeaways





8. Reducing Harmful Inflammation

	Unit	Here's what you'll learn	1	Extra support material
8.1 A	GEs increasing	Want a glass of milk?	•	Cooking Method
inflam	mation	Looking to the clinic		Audit TM
		Who should limit dairy?	-	Handouts: Top
8.2 Tr	ans fats,	Lactose food swaps		anti-inflammatory
gluten	, and lactose	Pressure to conceive?		foods, 60 foods to
		■ Conception Stress Evaluation TM		watch for
8.3 St	ressed while	Stress causes inflammation?		damaged fats,
trying	to conceive	What might happen?		Glucose food
		Too stressed to conceive?		swaps, lactose
		Longer time to pregnancy		food swaps
		A thief in the body?	-	Conception Stress
		Broken self-defence system?		Evaluation TM
		Balancing those stress levels	•	Test Your
		12 tips for reducing stress		Knowledge
		Feeling hormonal?		Exercises
		A cycle of events	•	Your Key
		At risk for imbalances?		Takeaways





9. Hormonal imbalances: How to prevent them

Unit	Here's what you'll learn	Extra support material
9.1 Hormones in the menstrual cycle9.2 Monitoring hormone levels for	 Hormonal Imbalances ChecklistTM Where do hormones come from? Hormones during the menstrual cycle Short but complex Cycling hormones 	 Hormonal Imbalances Checklist TM Ovulation Test Planner TM
ovulation	Releasing an eggAwaiting sperm	 Ovulation Test TrackerTM
9.3 Minimising endocrine disruptors	 Luteolysis and starting over Testing for ovulation? 3 main ovulation hormones 	 Low-Gl Grocery List TM My Low-Gl
9.4 Balancing hormones through nutrition	 A positive experience? At home ovulation tests Day 3 FSH test Ovulation urine testing Timing matters 	Grocery List™ Using the Low-Gl Grocery List™
	Early or late morning?Reducing false negatives	





9. Hormonal imbalances: How to prevent them

Unit	Here's what you'll learn	Extra support material
9.1 Hormones in the menstrual cycle	 Ovulation urine oestrogen testing? Ovulation Test Planner TM Ovulation Test Tracker TM 	Test YourKnowledgeExercises
9.2 Monitoring	Waiting for a positive result	Your Key
hormone levels for	Example: Ovulation Test Tracker	Takeaways
ovulation	 A prospective measure 	■ Video
	What might a doctor look for?	
9.3 Minimising	Anti-Mullerian hormone	
endocrine disruptors	Prolactin – more than for lactation?	
	Who has more prolactin?	
9.4 Balancing	Can diet make a difference?	
hormones through	Endocrine disruptors	
nutrition	Flexibility over fertility?	
	What is a toxic dose?	
	Not relevant in humans?	
	Possible interference	
	Transferring disruptors to our food	





9. Hormonal imbalances: How to prevent them

Unit	Here's what you'll learn	Extra support material
9.1 Hormones in the menstrual cycle	Healthy crops at what expense?EDs in the blood?Are we eating disruptors?	
9.2 Monitoring	 A near impossible task 	
hormone levels for	 Reducing dietary detractor exposure 	
ovulation	Altered hormones from drinking?	
	How much is 14 units of alcohol?	
9.3 Minimising	 Reducing alcohol before pregnancy 	
endocrine disruptors	Sleep and stress	
	5 factors which alter hormones	
9.4 Balancing	Minimising lifestyle detractors	
hormones through	Nutrition for hormone regulation	
nutrition	Stability through the diet	
	Blood sugar fluctuations	
	What is the glycaemic index?	
	 Gl and the rise of the glucose levels 	
	 Getting to an ideal weight 	





9. Hormonal imbalances: How to prevent them

Unit	Here's what you'll learn	Extra support material
9.1 Hormones in the menstrual cycle	 Stability a key for a fertility diet Linking PCOS to insulin How to use the glycaemic index 	
9.2 Monitoring	 GI ranking and categories 	
hormone levels for	Reducing the GI with fibre	
ovulation	How much fibre do we need?	
	The truth behind the fibre controversy	
9.3 Minimising	More than just removing foods	
endocrine disruptors	■ Low-GI Grocery List TM	
	■ My Low-Gl Grocery List TM	
9.4 Balancing	■ Using the Low-Gl Grocery List TM	
hormones through	Diets as a whole?	
nutrition	Low-carb?	
	Raw food?	
	Meat free?	
	Caloric restriction and fasting	
	 Supporting fertilisation and fertility 	





10. Mitigating environmental assault

10.1 Pesticides and everyday toxins Notivation for change Completing the environmental audit 10.2 Occupational hazards Is a "toxin-free" life possible? Comparing mice to humans Cutting out cosmetics? Harmful chemicals in cosmetics Choosing fresh What are pesticides? Why how you cook matters Risks of DNA adducts Genotoxins from food preparation Cigarette smoke Lighting up? Decreased success rates	Unit	Here's what you'll learn	Extra support material
	10.1 Pesticides and everyday toxins 10.2 Occupational hazards	 Harmful toxins in the environment Motivation for change Completing the environmental audit Environmental Assault Audit™ Is a "toxin-free" life possible? Comparing mice to humans Cutting out cosmetics? Harmful chemicals in cosmetics Choosing fresh What are pesticides? Are we eating pesticides? Why how you cook matters Risks of DNA adducts Genotoxins from food preparation Cigarette smoke Lighting up? 	 Environmental Assault Audit TM Occupation Risk Evaluation TM Test Your Knowledge Exercises Your Key





10. Mitigating environmental assault





10. Mitigating environmental assault

Unit	Here's what you'll learn	Extra support material
10.1 Pesticides and everyday toxins 10.2 Occupational hazards 10.3 Living toxins	 Viruses, bacteria, and yeast Viruses: tiny living things Infecting the reproductive system 25% of the US Hiding in plain sight Hitching a ride Artificial reproductive technology No cure It's not just HPV Bacterial infections too? An asymptomatic bacteria Candidiasis yeast infection Urogenital infections That's 4 of 6 	 Environmental Assault Audit™ Occupation Risk Evaluation™ Test Your Knowledge Exercises Your Key Takeaways
	■ That's 4 of 6	





11. Resolving excess or low body weight

Unit	Here's what you'll learn	Extra support material
11.1 What's an ideal preconception weight? 11.2 Extra fat = extra hard to get pregnant? 11.3 Eating enough and eating right	 Enhancing fertility odds "Ideal" – says who? BMI first BMI Calculator Weight categorisation Example: BMI Is BMI an accurate measure? Higher body weight? IVF: does body weight matter? Highest birth rates It's all about ovulation Promoting fertility Client conversation tips Over or under? 	 BMI Calculator Healthier Food Swaps Test Your Knowledge Exercises Your Key Takeaways
	 The science of hunger What is leptin? Leptin resistance and weight gain 	





11. Resolving excess or low body weight

Unit	Here's what you'll learn	Extra support material
11.1 What's an ideal preconception weight? 11.2 Extra fat = extra hard to get pregnant? 11.3 Eating enough and eating right	 Hormone imbalance A mutated receptor Too much sugar? Undesirable consequences Multiple mechanisms A greater need Getting in the way of implantation Fertility detractors: the one to watch Summary of mechanisms Overweight but undernourished Getting to that ideal weight What about underweight? Underweight fertility risks? 2 main functions effected 	 BMI Calculator Healthier Food Swaps Test Your Knowledge Exercises Your Key Takeaways
	The two-cell theoryNecessary energyGetting energy inside eggs	





11. Resolving excess or low body weight

Unit	Here's what you'll learn	Extra support material
11.1 What's an ideal preconception weight?11.2 Extra fat = extra hard to get pregnant?	 Limited supplies Leptin and kisspeptin Anorexia nervosa Fat: a must-have for fertility Outside of eating disorders Extreme dieting It all adds up! 	 BMI Calculator Healthier Food Swaps Test Your Knowledge Exercises Your Key
11.3 Eating enough and eating right	 Two ways of gaining weight Ditching empty calories Healthier Food Swaps A nice pair of genes 	Takeaways





12. Lessening unwanted epigenetic and microbiomic risks

Unit	Here's what you'll learn	Extra support material
12.1 The epigenetics of fertility nutrition 12.2 Can microbes lower fertility odds?	 Epigenetics and microbiomics Same code, different expression Winning the lottery? Common epigenetic modifications Gene expression in fertility A tale of epigenetics in fertility Epigenetics of the egg cell Food and environment Food epigenetics and fertility From food to DNA Better folate than never Folate is not alone Selenium selects the good genes Selenium supporting the embryo From human genes to bacteria Trillions of bacteria where? "Good" vs "bad"? 	 Fermented and prebiotic sources Test Your Knowledge Exercises Your Key Takeaways Video





12. Lessening unwanted epigenetic and microbiomic risks

Unit	Here's what you'll learn	Extra support material
12.1 The epigenetics of fertility nutrition 12.2 Can microbes lower fertility odds?	 Feeling off balance? Our bacterial reproductive world Diversifying bacteria Lactobacillus: female guardians Diet against bacterial vaginosis? Nutritional legacy on bacterial vaginosis Bacteria in urinary tract infections UTI / Vaginosis Symptoms Protection against UTIs Pre and probiotics Fermented and prebiotic sources Feeding the fertility microbiome? Caring for the vaginal microbiome Completing the 6 principles 	 Fermented and prebiotic sources Test Your Knowledge Exercises Your Key Takeaways Video





13. Planning a personalised fertility diet

Unit	Here's what you'll learn	Extra support material
13.1 Skills Lab™: Designing your client's personalised nutrition plan 13.2 Structuring your client	 Creating a personalised plan Fertility Diet Planning Workbook TM Reviewing and adjusting Practical Assignment Providing everything at once? Everyone is different Big goals 	■ Fertility Diet Planning Workbook™ including the Fertility Foods Master List™, Daily Fertility
consultations 13.3 Skills Lab™: How can you monitor your client's progress 13.4 Bonus Guide: 100+ Fertility- Friendly Food	 Running the first session Structuring a client session Keeping notes Session Summary Handout Getting your first clients Keeping them on track Tracking progress Motivational changes Tracking diet intakes weekly Monitoring behavioural changes 	Meal Planner™, Fertility Meal Options Kit™, Female Fertility Shopping List™ ■ Session Summary Handout ■ Test Your Knowledge Exercises





13. Planning a personalised fertility diet

Unit	Here's what you'll learn	Extra support material
13.1 Skills Lab™: Designing your client's personalised nutrition plan 13.2 Structuring your client consultations 13.3 Skills Lab™: How can you monitor your client's progress 13.4 Bonus Guide: 100+ Fertility- Friendly Food Swaps	 3-Part Weekly Tracking Kit™ All "Yes" answers? Do adjustments need to be made? Monitoring body weight Body Weight Tracker™ A record and motivational tool Bonus time Practical Assignment Welcome! Tips to use this guide Fertility-Friendly Food Swaps Guide My Fertility-Friendly Food Swap Ideas Sugary Drinks Inventory Junk Food and Snacks Inventory Fertility Food Substitutes Planner™ Example: food/drink swaps 	 3-Part Weekly Tracking Kit™ including the Environmental Check™, Sleep Check™, Physical Activity Check™ Fertility-Friendly Food Swaps Guide Sugary Drinks Inventory Junk Food and Snacks Inventory Fertility Food Substitutes Planner™





Unit	Here's what you'll learn	Extra support material
14.1 The 3 characteristics of good sperm 14.2 Skills Lab™: Preparing for a semen analysis 14.3 Ageing, inflammation, and hormone imbalance 14.4 Toxicity, body weight, epigenetics and microbiomics 14.5 Nutritional influences on male fertility	 No longer just a female issue What qualifies good sperm? Tests evaluating sperm parameters Low sperm counts? WHO sperm parameters Preparing for a semen analysis Genetics and medical conditions? Male reproductive conditions Getting the most out of testing Could it be the sperm quality? 4 groups of questions Semen Analysis Preparation™ handout Working with the doctor Practical Assignment Supporting the male body Male Fertility Detractors Checklist™ Improving male fertility 	 Semen Analysis Preparation™ handout Male Fertility Detractors Checklist™ Male Fertility Shopping List™ My Male Fertility Shopping List™ Test Your Knowledge Exercises Your Key Takeaways Video





Unit	Here's what you'll learn	Extra support material
14.1 The 3 characteristics of good sperm 14.2 Skills Lab™: Preparing for a semen analysis 14.3 Ageing,	 Reminder: the 6 Nutrition Principles Men: no reproductive decline? Who passes on more mutations? Consequences of ageing Oxidative stress in sperm Fatty sperm? Accumulation of AGEs in sperm Promoting inflamed sperm 	 ■ Semen Analysis Preparation TM handout ■ Male Fertility Detractors Checklist TM ■ Male Fertility Shopping List TM
inflammation, and hormone imbalance	Stressed out sperm?Hormonal testes2 main testes cell types	 My Male Fertility Shopping ListTM Test Your
14.4 Toxicity, body weight, epigenetics and microbiomics	 The male endocrine system Endocrine disruptors in males Disrupting hormone levels 	Knowledge Exercises Your Key
14.5 Nutritional influences on male fertility	Multi-player hormonesHalf way there!The second half	Takeaways ■ Video





Unit	Here's what you'll learn	Extra support material
14.1 The 3 characteristics of good sperm 14.2 Skills Lab™: Preparing for a semen analysis 14.3 Ageing, inflammation, and hormone imbalance	 2 degrees cooler Keeping it cool Raising the temperature A sensitivity to radiation Smoking away sperm health? Oxidative stress Outcomes of damaged sperm An excess of fat cells Multiple mechanisms How obesity decreases fertility Low weight, less cells 	 Semen Analysis Preparation™ handout Male Fertility Detractors Checklist™ Male Fertility Shopping List™ My Male Fertility Shopping List™ Test Your
14.4 Toxicity, body weight, epigenetics and microbiomics 14.5 Nutritional influences on male fertility	 Exercise in moderation Changing sperm expression Changes in diet? Epigenetics during spermatogenesis Bacteria in the sperm? Imbalance in bacteria 	Knowledge Exercises Your Key Takeaways Video





Unit	Here's what you'll learn	Extra support material
14.1 The 3 characteristics of good sperm 14.2 Skills Lab™: Preparing for a semen analysis 14.3 Ageing, inflammation, and hormone imbalance 14.4 Toxicity, body weight, epigenetics and microbiomics 14.5 Nutritional influences on male fertility	 The key vitamins and minerals Top 10 Tips for Healthy Sperm Nutrients for spermatogenesis Vitamins, minerals, and antioxidants Important vitamins Important antioxidants Important antioxidants Not a single nutrient Soy: preventing pregnancy? Less sperm = less fertility? Choosing low-fat dairy All fat is not equal DHA necessary for acrosome The acrosome reaction Fragmented sperm? Drinking away sperm health? Key points for sperm health 	 Semen Analysis Preparation ™ handout Male Fertility Detractors Checklist ™ Male Fertility Shopping List ™ My Male Fertility Shopping List ™ Test Your Knowledge Exercises Your Key Takeaways Video





Unit	Here's what you'll learn	Extra support material
14.1 The 3 characteristics of good sperm 14.2 Skills Lab™: Preparing for a semen analysis 14.3 Ageing, inflammation, and hormone imbalance 14.4 Toxicity, body weight, epigenetics and microbiomics 14.5 Nutritional influences on male fertility	 Male Fertility Shopping ListTM My Male Fertility Shopping ListTM Non-food sourced nutrients 	 Semen Analysis Preparation ™ handout Male Fertility Detractors Checklist ™ Male Fertility Shopping List ™ My Male Fertility Shopping List ™ Test Your Knowledge Exercises Your Key Takeaways Video





15. Supplementing a fertility diet

Unit	Here's what you'll learn	Extra support material
15.1 Common Supplements for boosting fertility odds	 Why supplement? Who should supplement? Folic acid Supplementing a fertility diet But my friend took it and Coenzyme Q10 CoQ10 for everyone? Omega 3s DHEA Promising role in fertility? Higher egg and embryo yields Vitamin D Implementation success Anti-Mullerian hormone production Supplements for male fertility Profiling a supplement 	 Strategies for Taking Supplements™ Daily Supplement Tracker™ Test Your Knowledge Exercises





15. Supplementing a fertility diet

Unit	Here's what you'll learn	Extra support material
15.1 Common Supplements for boosting fertility odds	 Strategies for Taking Supplements™ Daily Supplement Tracker™ Which key supplements? Profiling a supplement Getting the right nutrients 	 Strategies for Taking Supplements™ Daily Supplement Tracker™ Test Your Knowledge Exercises





16. Health conditions affecting odds

Unit	Here's what you'll learn	Extra support material
16.1 Top 5 conditions which impact female fertility 16.2 Skills Lab™: Visiting a gynaecologist?	 Impact of health conditions Case file: Endometriosis Case file: PCOS Case file: PID Case file: POF Case file: Uterine fibroids What is endometriosis? Endometriosis risk Managing endometriosis PCOS: in depth 	 Gynaecologist Appointment Guide Test Your Knowledge Exercises
gynaccologists	Managing endometriosis	
	Impact of chemo or radiation	





16. Health conditions affecting odds

Unit	Here's what you'll learn	Extra support material
16.1 Top 5 conditions which impact female fertility 16.2 Skills Lab™: Visiting a gynaecologist?	 NSAIDs: good or bad? Steroids in sport Immunomodulators Talking to the doctor first Not feeling well? Additional documents Gynaecologist Appointment Guide Working with the doctor Practical Assignment 	 Gynaecologist Appointment Guide Test Your Knowledge Exercises





17. Supporting my client through IVF

Unit	Here's what you'll learn	Extra support material
17.1 Fundamentals of assisted conception	 What is ART? 3 types of ART The start of "test tube babies"? 6 types of artificial conception 	PracticalAssignmentVideos
17.2 In vivo and in	Used in combination	
vitro techniques	No ovulation, no pregnancy	
	Superovulation?	
17.3 Skills Lab™: Is	Who might want induction?	
an assisted	Too many hormones?	
reproductive	Using a donor?	
technology right for	Freezing eggs for later?	
me?	Not all alike	
	The specifics of ART	
	What is artificial insemination?	
	Who is Al for?	
	Healthy eggs and sperm?	
	Who wants GIFT?	





17. Supporting my client through IVF

Unit	Here's what you'll learn	Extra support material
17.1 Fundamentals of assisted conception 17.2 In vivo and in vitro techniques 17.3 Skills Lab™: Is an assisted reproductive technology right for me?	 Understanding "in vitro" Overview of IVF Why choose in vitro? IVF Statistics in the UK What influences success? Example IVF cycle timeline Intracytoplasmic sperm injection Looking for holes in the sperm Zygote intrafallopian transfer Helping your client conceive Thinking about ART? 3 groups of questions Assisted Conception FAQs handout Working with the doctor Practical Assignment 	 Assisted Conception FAQs handout Practical Assignment Test Your Knowledge Exercises Videos





17. Supporting my client through IVF

Unit	Here's what you'll learn	Extra support material
17.1 Fundamentals of assisted conception 17.2 In vivo and in vitro techniques 17.3 Skills Lab™: Is an assisted reproductive technology right for me?	 What is ART? 3 types of ART The start of "test tube babies"? 6 types of artificial conception Used in combination No ovulation, no pregnancy Superovulation? Who might want induction? Too many hormones? Using a donor? Freezing eggs for later? Not all alike The specifics of ART What is artificial insemination? Who is Al for? Healthy eggs and sperm? Who wants GIFT? 	 Assisted Conception FAQs handout Practical Assignment Test Your Knowledge Exercises Videos





18. The first stage of pregnancy

Unit	Here's what you'll learn	Extra support material
18.1 Supporting the zygote	 Nutrition: still key Pregnancy timeline Baby's development 	 Preparing for Parenthood ™ handout Practical
18.2 Preparing for	 Key nutrients at each stage 	
pregnancy and	 Minimising miscarriage Miscarriage vs. stillborn 	Assignment Test Your
parenthood	Miscarriage vs stillbornReducing risk through nutrition	Knowledge
18.3 Skills Lab™:	Two roles of folate	Exercises
Am I ready to be a	Homocysteine metabolism	
parent?	Why elevated homocysteine?	
	4 key antioxidants	
	■ Top 12 nutrients	
	 Getting to an ideal weight 	
	Leptin linking it all?	
	Cutting out caffeine?	
	Exercising impacting implantation?	
	Light activity preferable	





18. The first stage of pregnancy

Unit	Here's what you'll learn	Extra support material
18.1 Supporting the zygote	 Supporting the embryo Beyond a healthy baby Benefit of seeking help 	 ■ Preparing for Parenthood TM handout
18.2 Preparing for pregnancy and parenthood	 Prepared to be a parent? Support through pregnancy Ready at work? Minimising stress 	PracticalAssignmentTest YourKnowledge
18.3 Skills Lab™: Am I ready to be a parent?	 Foetal stress impact summary Postpartum depression Postpartum depression risk factors Going through a hard time Lack of sleep An exciting time! Newly pregnant? 5 groups of questions Preparing for Parenthood TM handout Exciting times ahead! 	Exercises





19. Setting up your fertility nutrition practice

Unit	Here's what you'll learn	Extra support material
19.1 Dos, don'ts, and must dos 19.2 Professional, legal, insurance, and tax considerations	 Acting responsibly and ethically with clients What you CAN and CANNOT do What you MUST do The importance of medical advice Which products or brands? Running a successful practice Includes templates of legal documents Setting up your practice The 4 most important steps to follow Types of insurance cover you need Registering as self-employed Your initial client consultation Observing client confidentiality and data protection 	 Client Health Check Questionnaire Medical Referral Form Client Informed Consent Form Test Your Knowledge Exercises





19. Setting up your fertility nutrition practice

Unit	Here's what you'll learn	Extra support material
19.1 Dos, don'ts, and must dos 19.2 Professional, legal, insurance, and tax considerations	 ■ Includes the following downloadable documents for immediate use: ➤ Client Health Check Questionnaire ➤ Medical Referral Form ➤ Client Informed Consent Form 	 Client Health Check Questionnaire Medical Referral Form Client Informed Consent Form Test Your Knowledge Exercises







This content was brought to you by

The Health Sciences Academy

Passionate about changing people's lives through science and online education

The Health Sciences Academy ® is the largest online educator on nutrition science in the UK, focusing on science-based certification courses recognised by government-regulated awarding bodies, from Sports and Exercise Nutrition, to Clinical Weight Loss, to Advanced Supplements.

Our online lessons and practical materials are 100% engineered by **our very own team of scientists and researchers**. This way, we provide students with reliable science-based knowledge and hands-on tools, helping them to develop their *own* expertise. As opposed to passive learning, we encourage an active and creative discovery, whilst offering a gradual and interactive learning experience.

Through an easy to use state-of-the-art multimedia platform, students can take interactive quizzes, participate in live polls, complete online assessments, download printable worksheets for use with their clients, and put their knowledge in practice through Skills Lab™. There is nothing else like it.











