

# Evidence Package Zinc

Product name: Gen50 Kyck

AUST L: 461726

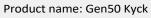
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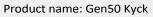
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## Table 6a: Executive Summary of Therapeutic Indications

Indication identifier	System targeted	Therapeutic indication	Required dosage	Specific/ Non-specific
ZINC 1	General health or body parts	<ul> <li>Maintain/support general health and wellbeing</li> <li>Antioxidant/Reduce free radicals formed in the body</li> <li>Helps reduce/decrease free radical damage to body cells</li> <li>Maintain/support body tissue repair/regeneration</li> <li>Maintain/support eye health</li> <li>Maintain/support healthy eye function</li> <li>Maintain/support connective tissue health</li> <li>Maintain/support healthy growth and development</li> </ul>	8-11 mg	Non-specific
ZINC 2	Gastrointestinal system	<ul><li>Maintain/support smell sensation</li><li>Maintain/support taste sensation</li></ul>	8-11 mg	Non-specific
ZINC 3	Immune system	<ul> <li>Maintain/support immune system health</li> <li>Maintain/support healthy immune system function</li> </ul>	8-11 mg	Non-specific
ZINC 4	Nervous system	<ul><li>Maintain/support nervous system health</li><li>Maintain/support nervous system function</li></ul>	8-11 mg	Non-specific



ZINC 5	Nutrition	<ul> <li>Maintain/support (state vitamin/mineral/nutrient [zinc]) levels in the body</li> <li>Helps prevent dietary (state vitamin/mineral/nutrient [zinc]) deficiency</li> <li>Aid/assist/helps metabolism of (state vitamin/mineral/nutrient [carbohydrate, protein])</li> <li>Aid/assist/helps protein synthesis in the body</li> </ul>	8-11 mg	Non-specific
ZINC 6	Reproductive system	<ul> <li>Maintain/support female reproductive system health</li> <li>Maintain/support healthy reproductive hormones</li> <li>Maintain/support/regulate healthy menstrual cycle</li> <li>Maintain/support reproductive system health</li> </ul>	8-11 mg	Non-specific
ZINC 7	Skin	<ul> <li>Maintain/support skin health</li> <li>Maintain/support skin integrity/structure</li> <li>Maintain/support wound healing in healthy individuals</li> <li>Maintain/support skin repair/healing/regeneration in healthy individuals</li> </ul>	8-11 mg	Non-specific





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## Table 6b: Evidence Summary for Scientific Indications

INDICATION 1						
Indication	Evidence reference details	Ingredient	Dosage	Patient population	Summary of findings	Balance of evidence
		Plant/animal part and preparation	Daily dosage, frequency & method	Subject, characteristics, health condition, ages, gender, ethnicity	Include enough information to demonstrate relevance and study outcomes. Any justifications from table 4d of Checklist 4 should be included here.	'Primary supporting', 'Secondary supporting'
<ul> <li>Maintain/su pport general health and wellbeing</li> <li>Antioxidant/ Reduce free radicals formed in the body</li> <li>Helps reduce/decrease free radical</li> </ul>	Health Canada Monographs , Health Canada, 20 23	Zinc	Adults: 8-11 mg	N/A	Helps in connective tissue formation; Helps to maintain healthy skin; Helps maintain healthy skin and connective tissue formation; Helps (to) maintain/support immune function/system; Helps with immune function; Helps in energy metabolism and tissue formation; Helps to maintain healthy bones, hair, nail and/or skin; Maintains healthy hair, skin and nails; Helps to prevent zinc deficiency; Helps to maintain the body's ability to metabolize nutrients.	Primary supporting



damage to body cells  Maintain/su pport body tissue repair/regen eration  Maintain/su pport eye health  Maintain/su pport healthy eye function  Maintain/su pport connective tissue health  Maintain/su pport connective tissue health	GlobinMed, Global Information Hub on Integrated Medicine, 2022	Zinc	Adults: 8-11 mg	N/A	Zinc is necessary for the functioning of over 300 different enzymes and, as such, it plays a vital role in an enormous number of biological processes. In humans, the highest concentrations of zinc are found in the liver, pancreas, kidneys, bone, and muscles. Zinc is highly concentrated in parts of the eye, prostate gland, sperm, skin, hair, and nails  Functions in the body include: Immune system:  Helps regulate a wide variety of immune system activities, including T-lymphocytes, CD4, natural killer cells, and interleukin II.  Antioxidant:  Cofactor for the antioxidant enzyme Zn/Cu superoxide dismutase.  Wound Healing  Facilitates wound healing, especially in burns, surgical, and other types of scars	Primary supporting
developmen t						



	Zinc is necessary for the maturation of sperm, for ovulation, and for fertilization.
	Sensory perceptions Involved in sensory perceptions of taste, smell and vision. Necessary for salt-taste perception, dark adaptation, and night vision
	Serum vitamin A levels Controls the release of stored vitamin A from the liver.
	Insulin activity Is a component of insulin and recently was discovered to be a regulator of insulin activity.
	Thyroid Promotes the conversion of thyroxine to triiodothyronine.



U.S.	Zinc	Adults: 8-11	N/A	Zinc is involved in numerous	Primary
Department		mg		aspects of cellular metabolism. It	supporting
of Health				is required for the catalytic	
and Human				activity of approximately 100	
Services.				enzymes and it plays a role in	
(2022).				immune function, protein	
Retrieved				synthesis, wound healing, DNA	
from				synthesis, and cell division. Zinc	
National				also supports normal growth and	
Institute of				development during pregnancy,	
Health				childhood, and adolescence and	
Office of				is required for proper sense of	
Dietary				taste and smell. Zinc deficiency	
Supplement				is characterized by growth	
s website				retardation, loss of appetite, and	
				impaired immune function. In	
				more severe cases, zinc	
				deficiency causes hair loss,	
				diarrhea, delayed sexual	
				maturation, impotence,	
				hypogonadism in males, and eye	
				and skin lesions. Weight loss,	
				delayed healing of wounds,	
				taste abnormalities, and mental	
				lethargy can also occur. Zinc	
				nutritional status is difficult to	
				measure adequately using	
				laboratory tests due to its distribution throughout the body	
				,	
				as a component of various proteins and nucleic acids.	
				Plasma or serum zinc levels are	
				the most commonly used indices	
				for evaluating zinc deficiency,	



	but these levels do not necessarily reflect cellular zinc status due to tight homeostatic control mechanisms. Clinical effects of zinc deficiency can be present in the absence of abnormal laboratory indice. Clinicians consider risk factors (such as inadequate caloric intake, alcoholism, and digestive diseases) and symptoms of zinc deficiency (such as impaired growth in infants and children) when determining the need for zinc supplementation.
	Zinc and Health Immune function Severe zinc deficiency depresses immune function and even mild to moderate degrees of zinc deficiency can impair macrophage and neutrophil functions, natural killer cell activity, and complement activity. The body requires zinc to develop and activate T- lymphocytes.  Wound healing Zinc helps maintain the integrity of skin and mucosal membranes



	Age-related macular degeneration Researchers have suggested that both zinc and antioxidants delay the progression of age- related macular degeneration (AMD) and vision loss, possibly by preventing cellular damage in the retina
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reactions In humans, zinc metalloenzymes outnumber all the other trace mineral-dependent enzymes combined, with between 70 and 200 present in humans. Consequently, zinc is involved in myriad chemical reactions that are important for normal body functioning, such as carbohydrate metabolism, protein and DNA synthesis, protein digestion, bone metabolism and endogenous antioxidant systems.  Growth and development zinc is essential for the formation of biomembranes and zinc finger	Coh (201 In H Natu Sup <sub>i</sub> s. Ai evid base (4th 1197 Cha NSW Else	nen, M. 15). Zinc. Herbs & tural oplement An dence- sed guide n ed., pp. 7-1223).	Zinc	Males >18 years: 14 mg/day Females >18 years: 8 mg/day.	N/A	In humans, zinc metalloenzymes outnumber all the other trace mineral-dependent enzymes combined, with between 70 and 200 present in humans.  Consequently, zinc is involved in myriad chemical reactions that are important for normal body functioning, such as carbohydrate metabolism, protein and DNA synthesis, protein digestion, bone metabolism and endogenous antioxidant systems.  Growth and development zinc is essential for the formation	Primary supporting
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	motifs found in DNA transcription factors and, belonging to the type II nutrient class, is required for the building of all new tissues. Several studies of children with growth retardation and zinc deficiency have confirmed that repletion leads to increased levels and activity of growth hormone and insulin-like growth factor and insulin-like growth factor-binding proteins	
	Normal immune responses Zinc is involved in many aspects of immunological function. It is essential for the normal development and function of cells, for mediating non-specific immunity such as neutrophils, monocytes and natural killer cells and affecting the development of acquired immunity and T-lymphocyte function.	
	Neurological function Central nervous system zinc is found predominantly in the brain, specifically the hippocampus, amygdala and cortex, where it possesses both	



	catalytic and regulatory roles. Fertility
	Zinc is important for both male and female fertility. Zinc in humans is necessary for the formation and maturation of spermatozoa, for ovulation and for fertilisation
	Pregnancy and lactation Zinc is recognised as being a key nutrient during embryogenesis, fetal growth and development.
	Antioxidant Zinc contributes to the structure of the antioxidant enzyme extracellular SOD, restricts endogenous free radical production, is a scavenger of free radicals.
	Supporting glycaemic control Zinc pancreatic concentrations are very high, negatively impacted by deficiency and, not surprisingly, zinc possesses multiple related roles, including the processing, storage, secretion and action of insulin in β cells. Furthermore, zinc is necessary for activity of several
	gluconeogenic enzymes,



	including phosphoenolpyruvate carboxykinase, making zinc central in glucose metabolism regulation	
	Wound healing Zinc is an essential cofactor in both wound healing and immune function.	



(0.047) 7:	Adults: 8-11 mg	N/A	Zinc is a cofactor for numerous metalloenzymes and is involved in many biochemical pathways, including DNA and protein synthesis. It is essential for growth and plays a role in visual function, hearing, taste sensation, spermatogenesis, sexual development, immune function, and wound healing. Zinc also functions as an antioxidant, helps stabilize cell membranes, has an anti-inflammatory effect, and has antiviral activity against some viruses (e.g., rhinovirus and herpes simplex virus). In most studies of healthy adolescents and adults of various ages consuming Western diets, mean zinc intake ranged from 7.3–10.4 mg/day. Considering that the zinc intake of about half of the subjects in these studies was below the mean, these findings indicate that a substantial proportion of the population is failing to meet the RDA for zinc	Primary supporting
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Т	herapeutic	Zinc	Adults: 8-11	N/A	Zinc is a biologically essential	Primary
	Research		mg		trace element and is the second	supporting
	Center.		3		most abundant trace element in	3
(2	2024 <b>). Zinc.</b>				the body. It is a cofactor in many	
	Retrieved				biological processes including	
	rom Natural				DNA, RNA, and protein	
	/ledicines				synthesis. Zinc also plays a role	
	vebsite				in immune function, wound	
					healing, reproduction, growth	
					and development, behavior and	
					learning, taste and smell, blood	
					clotting, thyroid hormone	
					function, and insulin action.	
					About 300 enzymes depend on	
					zinc as a catalyst. Zinc is also	
					required in hepatic synthesis of	
					retinol binding protein, the	
					transport protein of vitamin A.	
					Zinc deficiency is characterized	
					by growth retardation, low	
					insulin levels, reduced levels of	
					insulin-like growth factor (IGF)-1,	
					anorexia, mental lethargy,	
					irritability, low sperm count,	
					generalized hair loss, rough and	
					dry skin, skin lesions, slow	
					wound healing, decreased	
					thyroid function, delayed onset	
					of puberty, poor sense of smell	
					and taste, diarrhea, and nausea.	
					In the human brain, zinc is	
					believed to play a role in the	
					hippocampus in communication	
					between neurons. Zinc has been	



shown to decrease blood glucose and increase insulin levels in human studies. Clinical research suggests that zinc has beneficial effects on the skin when used orally or topically. For example oral zinc can improve acne due to its anti- inflammatory activity. Also, taking oral zinc seems to decrease skin sebum secretion, which might benefit acne patients.
Male fertility appears to be influenced by zinc. Zinc is important for neutrophil, natural killer cell, and T-lymphocyte function. Even mild zinc deficiency might adversely affect T-cell functions. Zinc plays a key role in the maintenance of vision. It is present in high concentrations in the eye, particularly in the retina and choroid. Zinc deficiency can alter vision, and severe deficiency causes changes in the retina and retinal pigment epithelium (RPE). Zinc interacts with taurine and vitamin A in the retina, modifies plasma membranes in the photoreceptors, regulates the



				light-rhodopsin reaction within the photoreceptor, modulates synaptic transmission, and serves as an antioxidant in both the RPE and retina. It seems to slow the progression of some degenerative retinal diseases	
Associatiof Naturopic Practitio (2022). Zinc. Retrieve from: He Drug Nutrient.	ethi ners d rb	Adults: 8-14 mg	N/A	Zinc is necessary for the function of a large number of metalloenzymes, including alcohol dehydrogenase, alkaline phosphatase, carbonic anhydrase, leucine aminopeptidase, superoxide dismutase, antioxidant enzymes – and hormones including glucagon, insulin, growth hormone and sex hormones. Zinc is essential for proper immune function and for the integrity of connective tissue and cell membranes.  Indication Notes: Treatment of zinc deficiency, including poor immunity, wound healing and acne.	Primary supporting



Linus Pauling Indtitute. (2022). Zinc. Retrieved from: Micronutrien t Information Center	Zinc	Adults: 8-11 mg	N/A	Zinc plays important roles in growth and development, immune function, neurotransmission, vision, reproduction. Significant delays in linear growth and weight gain, known as growth retardation or failure to thrive, are common features of mild zinc deficiency in children. Adequate zinc intake is essential in maintaining the integrity of the immune system, specifically for normal development and function of cells that mediate both innate (neutrophils, macrop hages, and natural killer cells) and adaptive (B-lymphocytes and T-lymphocytes) immune responses	Primary supporting
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INDICATION 2	NDICATION 2								
Indication	Evidence reference details	Ingredient	Dosage	Patient population	Summary of findings	Balance of evidence			
		Plant/animal part and preparation	Daily dosage, frequency & method	Subject, characteristics, health condition, ages, gender, ethnicity	Include enough information to demonstrate relevance and study outcomes. Any justifications from table 4d of Checklist 4 should be included here.	'Primary supporting', 'Secondary supporting'			
<ul> <li>Maintain/su pport smell sensation</li> <li>Maintain/su pport taste sensation</li> </ul>	GlobinMed, Global Information Hub on Integrated Medicine, 2022	Zinc	Adults: 8-11 mg	N/A	Functions in the body include: Sensory perceptions Involved in sensory perceptions of taste, smell and vision. Necessary for salt-taste perception.	Primary supporting			



U.S. Department of Health and Human Services. (2022). Retrieved from National Institute of Health Office of Dietary Supplement s website	Zinc	Adults: 8-11 mg	N/A	Zincis required for proper sense of taste and smell. Zinc deficiency is characterized by loss of appetite, and impaired immune function, taste abnormalities can also occur.	Primary supporting
Gaby, A. (2017). Zinc. In Nutritional Medicine (2nd ed., pp. 160-67). Concord, NH: Fritz Perlberg Publishing.	Zinc	Adults: 8-11 mg	N/A	Zinc is essential for taste sensation.	Primary supporting



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Therape Researc Center. (2024). 2 Retrieve from Nat Medicine website	n Linc. d ural	Adults: 8-11 mg	N/A	Zinc also plays a role in taste and smell. Zinc deficiency is characterized bypoor sense of smell and taste.	Primary supporting
Associatiof Naturop c Practitio . (2022). Zinc. Retrieve from: He Drug Nutrient	athi ners d rb	Adults: 8-14 mg	N/A	Zinc is necessary for the function of a large number of metalloenzymes, including alcohol dehydrogenase, alkaline phosphatase, carbonic anhydrase, leucine aminopeptidase, superoxide dismutase, antioxidant enzymes — and hormones including glucagon, insulin, growth hormone and sex hormones. Zinc is essential for proper immune function and for the integrity of connective tissue and cell membranes.	Primary supporting

#### INDICATION 3



Indication	Evidence reference details	Ingredient	Dosage	Patient population	Summary of findings	Balance of evidence
		Plant/animal part and preparation	Daily dosage, frequency & method	Subject, characteristics, health condition, ages, gender, ethnicity	Include enough information to demonstrate relevance and study outcomes. Any justifications from table 4d of Checklist 4 should be included here.	'Primary supporting', 'Secondary supporting'
<ul> <li>Maintain/su         pport             immune             system             health     </li> <li>Maintain/su</li> </ul>	Health Canada Monographs , Health Canada, 20 23	Zinc	Adults: 8-11 mg	N/A	Helps (to) maintain/support immune function/system; Helps with immune function;	Primary supporting
pport healthy immune system function	GlobinMed, Global Information Hub on Integrated Medicine, 2022	Zinc	Adults: 8-11 mg	N/A	Functions in the body include: Immune system: Helps regulate a wide variety of immune system activities, including T-lymphocytes, CD4, natural killer cells, and interleukin II.	Primary supporting



U.S. Department of Health and Human Services. (2022). Retrieved from National Institute of Health Office of Dietary Supplement s website	Zinc	Adults: 8-11 mg	N/A	Zinc plays a role in immune function. Zinc deficiency is characterized by immune function.  Zinc and Health Immune function Severe zinc deficiency depresses immune function and even mild to moderate degrees of zinc deficiency can impair macrophage and neutrophil functions, natural killer cell activity, and complement activity. The body requires zinc to develop and activate T-lymphocytes.	Primary supporting
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Braun, L., & Cohen, M. (2015). Zinc. In Herbs & Natural Supplement s. An evidence-based guide (4th ed., pp. 1197-1223). Chatswood, NSW: Elsevier Australia.	Zinc	Males >18 years: 14 mg/day Females >18 years: 8 mg/day.	N/A	Main actions:  Normal immune responses Zinc is involved in many aspects of immunological function. It is essential for the normal development and function of cells, for mediating non-specific immunity such as neutrophils, monocytes and natural killer cells and affecting the development of acquired immunity and T-lymphocyte function.	Primary supporting
Gaby, A. (2017). Zinc. In Nutritional Medicine (2nd ed., pp. 160-67). Concord, NH: Fritz Perlberg Publishing.	Zinc	Adults: 8-11 mg	N/A	Zinc plays a role in immune function.	Primary supporting



Therapeutic Research Center. (2024). Zinc. Retrieved from Natural Medicines website	Zinc	Adults: 8-11 mg	N/A	Zinc also plays a role in immune function.  Zinc is important for neutrophil, natural killer cell, and T-lymphocyte function. Even mild zinc deficiency might adversely affect T-cell functions.	Primary supporting
Association of Naturopathi c Practitioners . (2022). Zinc. Retrieved from: Herb Drug Nutrient.	Zinc	Adults: 8-14 mg	N/A	Zinc is essential for proper immune function Indication Notes: poor immunity	Primary supporting



Linus Pauling Indtitute. (2022). Zir Retrieved from: Micronutri t Informati Center	en	Adults: 8-11 mg	N/A	Zinc plays important roles in immune function. Adequate zinc intake is essential in maintaining the integrity of the immune system, specifically for normal development and function of cells that mediate both innate (neutrophils, macrop hages, and natural killer cells) and adaptive (B-lymphocytes and T-lymphocytes) immune responses	Primary supporting
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INDICATION 4								
Indication	Evidence reference details	Ingredient	Dosage	Patient population	Summary of findings	Balance of evidence		
<ul> <li>Maintain/su pport nervous system health</li> <li>Maintain/su pport nervous system function</li> </ul>	Braun, L., & Cohen, M. (2015). Zinc. In Herbs & Natural Supplement s. An evidence-based guide (4th ed., pp. 1197-1223). Chatswood, NSW: Elsevier Australia.	Plant/animal part and preparation	Daily dosage, frequency & method  Males >18 years: 14 mg/day Females >18 years: 8 mg/day.	Subject, characteristics, health condition, ages, gender, ethnicity N/A	Include enough information to demonstrate relevance and study outcomes. Any justifications from table 4d of Checklist 4 should be included here.  Central nervous system zinc is found predominantly in the brain, specifically the hippocampus, amygdala and cortex, where it possesses both catalytic and regulatory roles.	'Primary supporting', 'Secondary supporting'  Primary supporting		



Therapeutic Research Center. (2024). Zinc. Retrieved from Natural Medicines website	Zinc	Adults: 8-11 mg	N/A	in the human brain, zinc is believed to play a role in the hippocampus in communication between neurons. Zinc modulates synaptic transmission.	Primary supporting
Linus Pauling Indtitute. (2022). Zinc. Retrieved from: Micronutrien t Information Center	Zinc	Adults: 8-11 mg	N/A	Zinc has been found to influence nerve impulse transmission.	Primary supporting



INDICATION 5	INDICATION 5						
Indication	Evidence reference details	Ingredient	Dosage	Patient population	Summary of findings	Balance of evidence	
		Plant/animal part and preparation	Daily dosage, frequency & method	Subject, characteristics, health condition, ages, gender, ethnicity	Include enough information to demonstrate relevance and study outcomes. Any justifications from table 4d of Checklist 4 should be included here.	'Primary supporting', 'Secondary supporting'	
Maintain/su pport (state vitamin/min eral/nutrient [zinc]) levels in the body	Health Canada Monographs , Health Canada, 20 23	Zinc	Adults: 8-11 mg	N/A	Helps in energy metabolism and tissue formation; Helps to prevent zinc deficiency; Helps to maintain the body's ability to metabolize nutrients.	Primary supporting	



<ul> <li>Helps         prevent         dietary         (state         vitamin/min         eral/nutrient         [zinc])</li> </ul>	GlobinMed, Global Information Hub on Integrated Medicine, 2022	Zinc	Adults: 8-11 mg	N/A	Functions in the body include: Controls the release of stored vitamin A from the liver.	Primary supporting
deficiency Aid/assist/h elps metabolism of (state vitamin/min eral/nutrient [carbohydra te, protein]) Aid/assist/h elps protein synthesis in the body	U.S. Department of Health and Human Services. (2022). Retrieved from National Institute of Health Office of Dietary Supplement s website	Zinc	Adults: 8-11 mg	N/A	Zinc is involved in numerous aspects of cellular metabolism. It is required for the catalytic activity of approximately 100 enzymes and it plays a role in protein synthesis,	Primary supporting



Braun, L., & Cohen, M. (2015). Zinc. In Herbs & Natural Supplement s. An evidence-based guide (4th ed., pp. 1197-1223). Chatswood, NSW: Elsevier Australia.		Males >18 years: 14 mg/day Females >18 years: 8 mg/day.	N/A	Zinc belongs to the class of type II nutrients which are considered the cellular building blocks and therefore zinc, together with the other type II nutrients (essential amino acids, magnesium, potassium, phosphorus, protein and sulfur), is required for the synthesis of any new tissue.  Main actions: Cofactor in many biochemical reactions In humans, zinc metalloenzymes outnumber all the other trace mineral-dependent enzymes combined, with between 70 and 200 present in humans. Consequently, zinc is involved in myriad chemical reactions that are important for normal body functioning, such as carbohydrate metabolism, protein and DNA synthesis, protein digestion.  Furthermore, zinc is necessary for activity of several gluconeogenic enzymes, including phosphoenolpyruvate carboxykinase, making zinc central in glucose metabolism regulation	Primary supporting
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Gaby, A. (2017). Zinc. In Nutritional Medicine (2nd ed., pp. 160-67). Concord, NH: Fritz Perlberg Publishing.	Zinc	Adults: 8-11 mg	N/A	Zinc is a cofactor for numerous metalloenzymes and is involved in many biochemical pathways, including DNA and protein synthesis. It is essential for growth	Primary supporting
Therapeutic Research Center. (2024). Zinc. Retrieved from Natural Medicines website	Zinc	Adults: 8-11 mg	N/A	Zinc is a cofactor in many biological processes including DNA, RNA, and protein synthesis. About 300 enzymes depend on zinc as a catalyst. Zinc has been shown to decrease blood glucose and increase insulin levels in human studies.	Primary supporting

#### INDICATION 6



Indication	Evidence reference details	Ingredient	Dosage	Patient population	Summary of findings	Balance of evidence
		Plant/animal part and preparation	Daily dosage, frequency & method	Subject, characteristics, health condition, ages, gender, ethnicity	Include enough information to demonstrate relevance and study outcomes. Any justifications from table 4d of Checklist 4 should be included here.	'Primary supporting', 'Secondary supporting'
<ul> <li>Maintain/su pport female reproductive system health</li> <li>Maintain/su pport healthy reproductive hormones</li> <li>Maintain/su pport/regula te healthy</li> </ul>	Health Canada Monographs , Health Canada, 20 23	Zinc	Adults: 8-11 mg	N/A	Helps in connective tissue formation; Helps to maintain healthy skin; Helps maintain healthy skin and connective tissue formation; Helps (to) maintain/support immune function/system; Helps with immune function; Helps in energy metabolism and tissue formation; Helps to maintain healthy bones, hair, nail and/or skin; Maintains healthy hair, skin and nails; Helps to prevent zinc deficiency; Helps to maintain the body's ability to metabolize nutrients.	Primary supporting



menstrual cycle Maintain/su pport reproductiv e system health	GlobinMed, Global Information Hub on Integrated Medicine, 2022	Zinc	Adults: 8-11 mg	N/A	Zinc is highly concentrated in the prostate gland, sperm.  Functions in the body include:  Sexual Function  Zinc is necessary for the maturation of sperm, for ovulation, and for fertilization.	Primary supporting
	Braun, L., & Cohen, M. (2015). Zinc. In Herbs & Natural Supplement s. An evidence-based guide (4th ed., pp. 1197-1223). Chatswood, NSW: Elsevier Australia.	Zinc	Males >18 years: 14 mg/day Females >18 years: 8 mg/day.	N/A	Zinc is important for both male and female fertility. Zinc in humans is necessary for the formation and maturation of spermatozoa, for ovulation and for fertilisation  Pregnancy and lactation Zinc is recognised as being a key nutrient during embryogenesis, fetal growth and development.	Primary supporting



Gaby, A. (2017). Zinc. In Nutritional Medicine (2nd ed., pp. 160-67). Concord, NH: Fritz Perlberg Publishing.	Zinc	Adults: 8-11 mg	N/A	Zinc is essential for growth and plays a role in spermatogenesis, sexual development	Primary supporting
Therapeutic Research Center. (2024). Zinc. Retrieved from Natural Medicines website	Zinc	Adults: 8-11 mg	N/A	Zinc also plays a role in reproduction. Zinc deficiency is characterized by low sperm count.  Male fertility appears to be influenced by zinc.	Primary supporting



Association of Naturopathi c Practitioners . (2022). Zinc. Retrieved from: Herb Drug Nutrient.	Zinc	Adults: 8-14 mg	N/A	Zinc is necessary for hormones including growth hormone and sex hormones.	Primary supporting
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INDICATION 7							
Indication	Evidence reference details	Ingredient	Dosage	Patient population	Summary of findings	Balance of evidence	



		Plant/animal part and preparation	Daily dosage, frequency & method	Subject, characteristics, health condition, ages, gender, ethnicity	Include enough information to demonstrate relevance and study outcomes. Any justifications from table 4d of Checklist 4 should be included here.	'Primary supporting', 'Secondary supporting'
<ul> <li>Maintain/su pport skin health</li> <li>Maintain/su pport skin integrity/stru cture</li> <li>Maintain/su pport</li> </ul>	Health Canada Monographs , Health Canada, 20 23	Zinc	Adults: 8-11 mg	N/A	Helps in connective tissue formation; Helps to maintain healthy skin; Helps maintain healthy skin and connective tissue formation; Helps (to) maintain/support immune function/system; Helps to maintain healthy bones, hair, nail and/or skin; Maintains healthy hair, skin and nails;	Primary supporting
wound healing in healthy individuals  Maintain/su pport skin repair/healin g/regenerati on in	GlobinMed, Global Information Hub on Integrated Medicine, 2022	Zinc	Adults: 8-11 mg	N/A	Zinc is highly concentrated in skin, hair, and nails  Functions in the body:  Wound healing  Facilitates wound healing, especially in burns, surgical, and other types of scars	Primary supporting



healthy individuals	U.S. Department of Health and Human Services. (2022). Retrieved from National Institute of Health Office of Dietary Supplement s website	Zinc	Adults: 8-11 mg	N/A	Zinc is required for the catalytic activity of approximately 100 enzymes and it plays a role in, wound healing.  Zinc and Health Wound healing Zinc helps maintain the integrity of skin and mucosal membranes	Primary supporting
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Coh (201) In Ho Natu Supp s. An evid base (4th 1197- Chai NSW Else	plement n dence- ed guide ed., pp. '-1223). tswood, V:	Males >18 years: 14 mg/day Females >18 years: 8 mg/day.	N/A	Zinc belongs to the class of type II nutrients which are considered the cellular building blocks and therefore zinc, together with the other type II nutrients (essential amino acids, magnesium, potassium, phosphorus, protein and sulfur), is required for the synthesis of any new tissue. They are not stored by the body and are under tight physiological control.  Main actions: Growth and development zinc is essential for the formation of biomembranes and zinc finger motifs found in DNA transcription factors and, belonging to the type II nutrient class, is required for the building of all new tissues.  Wound healing Zinc is an essential cofactor in wound healing	Primary supporting
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Therapeutic Research Center. (2024). Zinc. Retrieved from Natural Medicines website	Zinc	Adults: 8-11 mg	N/A	Zinc also plays a role in wound healing. Clinical research suggests that zinc has beneficial effects on the skin when used orally or topically. For example oral zinc can improve acne due to its anti-inflammatory activity. Also, taking oral zinc seems to decrease skin sebum secretion, which might benefit acne patients.	Primary supporting
Association of Naturopathi c Practitioners . (2022). Zinc. Retrieved from: Herb Drug Nutrient.	Zinc	Adults: 8-14 mg	N/A	Zinc is essential for proper immune function and for the integrity of connective tissue and cell membranes.  Indication Notes: Treatment of zinc deficiency, including poor wound healing and acne.	Primary supporting