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SUPPLEMENTAL DATA

Hoffmann et al: Nutrition interventions for spine-related pain

Nutrition interventions for spine-related pain: A scoping review

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DOI: <https://doi.org/10.17305/bb.2024.11393>

Full article is available at the following link:

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Table 1. Actual Search Strategies

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Database(s): **Ovid MEDLINE(R) 1946 to Present and Epub Ahead of Print, In-Process & Other Non-Indexed Citations and Ovid MEDLINE(R) Daily, EBM Reviews - Cochrane Central Register of Controlled Trials** March 2024, **EBM Reviews - Cochrane Database of Systematic Reviews** 2005 to May 1, 2024, **Embase** 1974 to 2024 May 02

#	Searches
1	exp Nutrition Therapy/ or diet therapy/ or *Nutrition Assessment/ or *Nutrition Policy/
2	exp Diet/
3	exp Dietary Supplements/ or diet supplementation/ or mineral supplementation/ or nutritional support/ or vitamin supplementation/
4	exp vitamin/tu
5	exp mineral/tu
6	exp *Herbal Medicine/
7	exp *Plants, Medicinal/
8	exp *plant extract/
9	exp *Plant Extracts/
10	exp *Plant Leaves/
11	exp *Phytotherapy/
12	exp *Drugs, Chinese Herbal/
13	(diet or dietary or nutrition or nutritional or nutrient or nutrients or macronutrient* or micronutrient* or vitamin or vitamins or minerals or (vegetarian or vegan or fruit or fruits or vegetables or "mediterranean diet" or "gluten free" or prebiotic* or probiotic* or synbiotic* or nutraceutical* or nutriceutical* or multivitamin* or "multi-vitamin*" or "dietary fat" or "food habits" or "fish oils")).ti.
14	((diet or dietary) adj1 (protein or proteins or "plant-based" or fat or fats or fatty)).ti.
15	((diet* or food or nutrition* or mineral or minerals or vitamin or vitamins or protein or proteins) adj2 (supplement* or support* or protocol* or pattern* or changes or changing or therap* or treat* or manag* or interven* or intake)).ti.
16	((calcium or folate or zinc or selenium or magnesium or carbohydrate* or protein* or lipid or lipids or sugar) adj3 (diet* or content or diet* or added or intake)).ti.
17	("Aloe vera" or "alpha carotene" or "alpha tocopherol" or "alpha tocopherylquinone" or "alpha tocotrienol" or "ascorbic acid" or "beta carotene" or "beta tocopherol" or "Black cohosh" or

	"black currant" or "black pepper" or "black tea" or Blueberr* or cinnamon or coca or Cranberr* or "dried yeast" or Elderberr* or Eucalyptus or Flaxseed* or "folic acid" or "folinic acid" or Ginger or Ginkgo or Ginseng or "green tea" or guarana or Guava or pepper or Senna or Sodium or soybean or "St Johns wort" or Thyme or tocopherol or Turmeric or Valerian) adj5 pain).ti.
18	or/1-17
19	exp Musculoskeletal Pain/
20	exp Back Pain/
21	((spine or spinal or lumbar or vertebr* or disc or discs or back or disk or disks or diskogenic or discogenic or facetogenic or intervertebral* or osteopor* or spondy* or musculoskeletal or scoliosis) adj7 pain*) or (lumbago or "back-pain" or backache or "back-ache")).ti.
22	19 or 20 or 21
23	18 and 22
24	(exp animals/ or exp nonhuman/) not exp humans/
25	((alpaca or alpacas or algae* or amphibian or amphibians or animal or animals or antelope or armadillo or armadillos or avian or baboon or baboons or bats or beagle or beagles or bee or bees or bird or birds or bison or bovine or buffalo or buffaloes or buffalos or "c elegans" or "Caenorhabditis elegans" or camel or camels or canine or canines or canis or carp or cats or catfish or cattle or chamaeleo* or chameleon* or chick or chicken or chickens or chicks or chimp or chimpanze or chimpanzees or chimps or cow or cows or "D melanogaster" or "dairy calf" or "dairy calves" or deer or dog or dogs or donkey or donkeys or drosophila or "Drosophila melanogaster" or duck or duckling or ducklings or ducks or equid or equids or equine or equines or feline or felines or ferret or ferrets or finch or finches or fish or flatworm or flatworms or fox or foxes or frog or frogs or "fruit flies" or "fruit fly" or "G mellonella" or "Galleria mellonella" or geese or gerbil or gerbils or goat or goats or goose or gorilla or gorillas or groundhog or groundhogs or hamster or hamsters or hare or hares or heifer or heifers or horse or horses or iguana or iguanas or insect or insects or jellyfish or kangaroo or kangaroos or kitten or kittens or "laboratory animal*" or lagomorph or lagomorphs or lamb or lambs or lemur or lemurs or lemuridae or llama or llamas or macaque or macaques or macaw or macaws or marmoset or marmosets or mice or minipig or minipigs or mink or minks or monkey or monkeys or mouse or mule or mules or muskrat or muskrats or nematode or nematodes or newt or newts or octopus or octopuses or orangutan or "orang-utan" or

	orangutans or "orang-utans" or oxen or parrot or parrots or pig or pigeon or pigeons or piglet or piglets or pigs or porcine or primate or primates or poultry or quail or rabbit or rabbits or rat or rats or reptile or reptiles or rodent or rodents or ruminant or ruminants or salmon or sheep or shrimp or slug or slugs or swine or tamarin or tamarins or tilapia or tilapias or toad or toads or trout or urchin or urchins or vole or voles or waxworm or waxworms or weasel or weasels or wolf or wolves or worm or worms or wrass* or xenopus or "zebra fish" or zebrafish) not (human or humans or patient or patients)).ti,ab,hw,kf.
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32	limit 31 to english language [Limit not valid in CDSR; records were retained]
33	limit 32 to yr="2012 -Current"
34	remove duplicates from 33

SCOPUS

1	TITLE (diet or dietary or nutrition or nutritional or nutrient or nutrients or macronutrient* or micronutrient* or vitamin or vitamins or minerals or (vegetarian or vegan or fruit or fruits or vegetables or "mediterranean diet" or "gluten free" or prebiotic* or probiotic* or synbiotic* or nutraceutical* or nutriceutical* or multivitamin* or "multi-vitamin*" or "dietary fat" or "food habits" or "fish oils"))
2	TITLE ((diet* or food or nutrition* or mineral or minerals or vitamin or vitamins or protein or proteins) W/2 (supplement* or support* or protocol* or pattern* or changes or changing or therap* or treat* or manag* or interven* or intake))
3	TITLE ((calcium or folate or zinc or selenium or magnesium or carbohydrate* or protein* or lipid or lipids or sugar) W/3 (diet* or content or diet* or added or intake))
4	TITLE (("Aloe vera" or "alpha carotene" or "alpha tocopherol" or "alpha tocopherylquinone" or "alpha tocotrienol" or "ascorbic acid" or "beta carotene" or "beta tocopherol" or "Black cohosh" or "black currant" or "black pepper" or "black tea" or Blueberr* or cinnamon or coca or Cranberr* or "dried yeast" or Elderberr* or Eucalyptus or Flaxseed* or "folic acid" or "folinic acid" or Ginger or Ginkgo or Ginseng or "green tea" or guarana or Guava or pepper or Senna or Sodium or soybean or "St Johns wort" or Thyme or tocopherol or Turmeric or Valerian) W/5 pain)
5	1 or 2 or 3 or 4
6	INDEX(embase) OR INDEX(medline) OR PMID(0* OR 1* OR 2* OR 3* OR 4* OR 5* OR 6* OR 7* OR 8* OR 9*)
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	<p>bovine OR buffalo OR buffaloes OR buffalos OR "c elegans" OR "Caenorhabditis elegans" OR camel OR camels OR canine OR canines OR carp OR cats OR cattle OR chick OR chicken OR chickens OR chicks OR chimp OR chimpanze OR chimpanzees OR chimps OR cow OR cows OR "D melanogaster" OR "dairy calf" OR "dairy calves" OR deer OR dog OR dogs OR donkey OR donkeys OR drosophila OR "Drosophila melanogaster" OR duck OR duckling OR ducklings OR ducks OR equid OR equids OR equine OR equines OR feline OR felines OR ferret OR ferrets OR finch OR finches OR fish OR flatworm OR flatworms OR fox OR foxes OR frog OR frogs OR "fruit flies" OR "fruit fly" OR "G mellonella" OR "Galleria mellonella" OR geese OR gerbil OR gerbils OR goat OR goats OR goose OR gorilla OR gorillas OR hamster OR hamsters OR hare OR hares OR heifer OR heifers OR horse OR horses OR insect OR insects OR jellyfish OR kangaroo OR kangaroos OR kitten OR kittens OR lagomorph OR lagomorphs OR lamb OR lambs OR llama OR llamas OR macaque OR macaques OR macaw OR macaws OR marmoset OR marmosets OR mice OR minipig OR minipigs OR mink OR minks OR monkey OR monkeys OR mouse OR mule OR mules OR nematode OR nematodes OR octopus OR octopuses OR orangutan OR "orang-utan" OR orangutans OR "orang-utans" OR oxen OR parrot OR parrots OR pig OR pigeon OR pigeons OR piglet OR piglets OR pigs OR porcine OR primate OR primates OR quail OR rabbit OR rabbits OR rat OR rats OR reptile OR reptiles OR rodent OR rodents OR ruminant OR ruminants OR salmon OR sheep OR shrimp OR slug OR slugs OR swine OR tamarin OR tamarins OR toad OR toads OR trout OR urchin OR urchins OR vole OR voles OR waxworm OR waxworms OR worm OR worms OR xenopus OR "zebra fish" OR zebrafish) AND NOT (human OR humans OR patient OR patients)))</p>
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Web of Science

1	<p>(TI= (diet OR dietary OR nutrition OR nutritional OR nutrient OR nutrients OR macronutrient* OR micronutrient* OR vitamin OR vitamins OR minerals OR (vegetarian OR vegan OR fruit OR fruits OR vegetables OR "mediterranean diet" OR "gluten free" OR prebiotic* OR probiotic* OR synbiotic* OR nutraceutical* OR nutriceutical* OR multivitamin* OR "multi-vitamin*" OR "dietary fat" OR "food habits" OR "fish oils")) OR TI= ((diet OR dietary) NEAR/1 (protein OR proteins OR "plant-based" OR fat OR fats OR fatty)) OR TS= ((diet* OR food OR nutrition* OR mineral OR minerals OR vitamin OR vitamins OR protein OR proteins) NEAR/2 (supplement* OR support* OR protocol* OR pattern* OR changes OR changing OR therap* OR treat* OR manag* OR interven* OR intake)) OR TI= ((calcium OR folate OR zinc OR selenium OR magnesium OR carbohydrate* OR protein* OR lipid OR lipids OR sugar) NEAR/3 (diet* OR content OR diet* OR added OR intake)) OR TI= (("Aloe vera" OR "alpha carotene" OR "alpha tocopherol" OR "alpha tocopherylquinone" OR "alpha tocotrienol" OR "ascorbic acid" OR "beta carotene" OR "beta tocopherol" OR "Black cohosh" OR "black currant" OR "black pepper" OR "black tea" OR blueberr* OR cinnamon OR coca OR cranberr* OR "dried yeast" OR elderberr* OR eucalyptus OR flaxseed* OR "folic acid" OR "folinic acid" OR ginger OR ginkgo OR ginseng OR "green tea" OR guarana OR guava OR pepper OR senna OR sodium OR soybean OR "St Johns wort" OR thyme OR tocopherol OR turmeric OR valerian) NEAR/5 pain)) AND (TI= ((spine OR spinal OR lumbar OR vertebr* OR disc OR discs OR back OR disk OR disks OR diskogenic OR discogenic OR lumbago OR facetogenic OR intervertebral* OR osteoporo* OR scoliosis OR spondy* OR musculoskeletal) NEAR/3 pain*))</p>
2	<p>PMID=(0* or 1* or 2* or 3* or 4* or 5* or 6* or 7* or 8* or 9*)</p>
3	<p>1 not 2</p>
4	<p>TS=((alpaca OR alpacas OR amphibian OR amphibians OR animal OR animals OR antelope OR armadillo OR armadillos OR avian OR baboon OR baboons OR beagle OR beagles OR bee OR bees OR bird OR birds OR bison OR bovine OR buffalo OR buffaloes OR buffalos OR "c elegans" OR "Caenorhabditis elegans" OR camel OR camels OR canine OR canines OR carp OR cats OR cattle OR chick OR chicken OR chickens OR chicks OR chimp OR chimpanze OR chimpanzees OR chimps OR cow OR cows OR "D melanogaster" OR "dairy calf" OR "dairy calves" OR deer OR dog OR dogs OR donkey OR donkeys OR drosophila OR "Drosophila melanogaster" OR duck OR duckling OR ducklings OR ducks OR equid</p>

	<p>OR equids OR equine OR equines OR feline OR felines OR ferret OR ferrets OR finch OR finches OR fish OR flatworm OR flatworms OR fox OR foxes OR frog OR frogs OR "fruit flies" OR "fruit fly" OR "G mellonella" OR "Galleria mellonella" OR geese OR gerbil OR gerbils OR goat OR goats OR goose OR gorilla OR gorillas OR hamster OR hamsters OR hare OR hares OR heifer OR heifers OR horse OR horses OR insect OR insects OR jellyfish OR kangaroo OR kangaroos OR kitten OR kittens OR lagomorph OR lagomorphs OR lamb OR lambs OR llama OR llamas OR macaque OR macaques OR macaw OR macaws OR marmoset OR marmosets OR mice OR minipig OR minipigs OR mink OR minks OR monkey OR monkeys OR mouse OR mule OR mules OR nematode OR nematodes OR octopus OR octopuses OR orangutan OR "orangutan" OR orangutans OR "orang-utans" OR oxen OR parrot OR parrots OR pig OR pigeon OR pigeons OR piglet OR piglets OR pigs OR porcine OR primate OR primates OR quail OR rabbit OR rabbits OR rat OR rats OR reptile OR reptiles OR rodent OR rodents OR ruminant OR ruminants OR salmon OR sheep OR shrimp OR slug OR slugs OR swine OR tamarin OR tamarins OR toad OR toads OR trout OR urchin OR urchins OR vole OR voles OR waxworm OR waxworms OR worm OR worms OR xenopus OR "zebra fish" OR zebrafish) NOT (human OR humans))</p>
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