Vitamin Recommended daily amount for adults	Role in the body	Best sources	
A (retinol, carotene) Males: 900 μg Females: 700 μg	growth and tissue repairimmune system functionsvision	livereggs	dark green & yellow fruits and vegetablesdairy products
B1 (thiamin) Males: 1.2 mg Females: 1.1 mg	 processing of carbohydrates and amino acids (protein) appetite regulation nervous system functions 	wheat germporkwhole & enriched grains	beanspeas
B2 (riboflavin) Males: 1.3 mg Females: 1.1 mg	 processing of carbohydrates, proteins & fats cell respiration and maintenance anti-oxidant activity 	dairy productsgreen leafy vegetableslegumes	beefsalmonalmondseggs
B3 (niacin, nicotinic acid) Males: 16 mg Females: 14 mg	 processing of carbohydrates, proteins & fats energy metabolism DNA repair nerve function circulation of blood 	meatfishwhole & enriched grains	beanspeasnuts
B5 (pantothenic acid) Males: 5 mg Females: 5 mg	 converting nutrients into energy vitamin utilization production of many important compounds used by the body 	whole-grain cerealslegumesmeats	avocadosweet potato
B6 (pyridoxine, pyridoxal, pyridoxamine) Males: 1.3–1.7 mg Females: 1.3–1.5 mg	 processing of carbohydrates, proteins & fats red blood cell formation cardiovascular health formation of antibodies & neurotransmitters 	fishpoultryred meatwhole grains	fortified cerealpotatoesspinach



Vitamin Recommended daily amount for adults	Role in the body	Best sources	
B12 (cobalamin) Males: 2.4 μg Females: 2.4 μg	 converting proteins & fats into energy nervous system functions formation of blood cells cardiovascular health 	lean beeffishpoultry	eggsdairy productsclams
Folate (folic acid) Males: 400 μg Females: 400 μg* *Pregnancy: 600 μg	 cell division and growth DNA synthesis red blood cell formation processing of proteins 	green leafy vegetablesdried beansfortified cereals	orangespastarice
C (ascorbic acid) Males: 90 mg Females: 75 mg	 anti-oxidant activity collagen maintenance wound healing infection resistance healthy gums and blood vessels 	citrus fruitstomatoesgreen & red peppers	melonsberriesbroccoli
D (calciferol) Males: 400–600 IU Females: 400–600 IU	bone & tooth formationimmune functionsmineral balance (calcium and phosphorous)	egg yolksalmonsardinesfortified milk	 Vitamin D is produced in the skin when exposed to sunlight
E (α-tocopherol) Males: 15 mg Females: 15 mg	anti-oxidant activity (free radical scavenger)possible immune system support	wheat germnutswhole grains	vegetable & nut oilsdark green vegetables
K Males: 120 μg Females: 90 μg	blood clottingbone metabolism	green leafy vegetables (e.g., spinach, broccoli, collards)	olive oilsoybean oil
H (biotin, vitamin B7) Males: 30 μg Females: 30 μg	 cell growth production of fatty acids processing of fats and amino acids maintain blood sugar levels strengthen hair and nails 	livereggsmeatwheat bran	cheeseyeastavocado



Mineral Recommended daily amount for adults	Role in the body	Best sources	
calcium Males: 1000–1200 mg Females: 1000–1200 mg	 support and formation of bones, and teeth regulates heartbeat, muscle action, nerve function & blood clotting 	low-fat or nonfat milk productscheesered beansspinach	broccolirhubarbkalecalcium-set tofu
chromium Males: 30–35 μg Females: 20–25 μg	 needed for using glucose as an energy source increases effectiveness of insulin metabolizes fat and protein 	whole grainspeasbeans	beefprocessed turkeybroccoli
copper Males: 900 μg Females: 900 μg	 formation of red blood cells needed for bone health iron metabolism involved in the normal function of the nervous system anti-oxidant activity 	organ meatsshellfishnutsseeds	oysterscocoa powderwhole grain products
fluoride Males: 4 mg Females: 3 mg	prevention of tooth decaystimulates new bone formation	seafoodteagrape juice	• Fluoridated water (and food prepared in fluoridated water) and fluoridated dental prod- ucts (e.g., toothpaste) will contain fluoride
iodine Males: 150 μg Females: 150 μg	thyroid functioning	iodized saltcodshrimp	cow's milkpotatoes
iron Males: 8 mg Females: 18 mg* *post-menopausal women: 8 mg/day	 formation of components of red blood cells that supply and trans- port oxygen DNA synthesis anti-oxidant activity 	red meatpoultryfishliverbeans	whole & enriched grainsgreen leafy vegetablestofuoysters
magnesium Males: 420 mg Females: 320 mg	 enzyme activation nerve & muscle function bone structure energy production 	nutsbeansbran cerealspinach	green leafy vegetableswhole & enriched grainsbanana



Mineral Recommended daily amount for adults	Role in the body	Best sources	
manganese Males: 2.3 mg Females: 1.8 mg	 bone growth & development wound healing metabolism of carbohydrates, amino acids, and cholesterol anti-oxidant activity 	nutswhole grainsteacoffee	branlegumespineapple
molybdenum Males: 45 μg Females: 45 μg	 biological reactions processing of sulfur-containing amino acids, drugs, and toxins 	beanslentilspeas	grain productsnuts
phosphorous Males: 700 mg Females: 700 mg	bone structureenergy production and storage	dairy productsmeatsfish	eggsbeanswhole grains
potassium Males: 4.7 g Females: 4.7 g	 fluid balance normal body function heart activity muscle contraction nervous system functions 	orange juicepotatoesbananastomato juice	soybeansapricotsplums
sodium Males: 1.5 g Females: 1.5 g	 maintenance of blood volume and blood pressure transmission of nerve impulses heart activity muscle contraction various internal functions 	 table salt processed meats (e.g., bacon, sausage, ham) canned soups and vegetables 	 worcestershire sauce soy sauce onion salt garlic salt bouillon cubes
selenium Males: 55 μg Females: 55 μg	anti-oxidant activityregulation of thyroid hormone	 cereals (e.g., corn, wheat, and rice) brazil nuts walnuts pork 	poultryeggsshrimphalibutcrab meat
zinc Males: 11 mg Females: 8 mg	 taste & smell sensitivity growth and development healing immune system function 	lean meatoysterseggsseafood	yeast-containing whole grainslow-fat milk products

