

MANAGING **METABOLIC DEFICIENCIES** ASSOCIATED WITH **VASCULAR & NEUROPATHIC** **CONDITIONS**

A PATIENT'S GUIDE TO A NOVEL APPROACH





Your doctor has the option to prescribe an EBM Medical Food for your condition. This brochure explains the advantages of medical foods relating to chronic conditions including vascular disease and peripheral neuropathy.

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What is a medical food?

Medical foods can help create a healthy environment to repair injured blood vessels and peripheral nerves – and may help to prevent more damage from occurring.

Medical foods may be considered for a variety of conditions, including:⁹

- Peripheral vascular disease
- Peripheral neuropathy
- Diabetes complications
- MTHFR Genetic Variant
- Chronic pain
- Chronic fatigue
- Fractures
- Rheumatoid arthritis
- Fibromyalgia
- Multiple sclerosis
- Heart disease
- Mood disorders
- Cognitive disorders
- Migraines

Medical foods are considered a unique category regulated by the FDA. Medical foods can help manage chronic conditions by addressing the metabolic deficiencies associated with diseases. They are intended for use under medical supervision.¹³

EBM uses only pharmaceutical-grade ingredients.



Specifically for management of distinctive nutrient needs, resulting from a specific clinical condition



Specifically formulated and processed



For patients who cannot normally take or metabolize ordinary food or those whose distinctive dietary needs cannot be met through normal diet



For oral intake or enteral feeding by tube



Used under medical supervision, and for patients receiving ongoing medical care

⁹Medical foods are not drugs.

What is vascular disease?¹

Vascular disease is any condition of the blood vessels (arteries and veins) that is not normal. Blood vessels circulate blood through the body. Problems within this vast network can cause severe types of conditions.

One of the most common types of vascular disease is called **peripheral vascular disease (PVD)**.

What causes peripheral vascular disease?

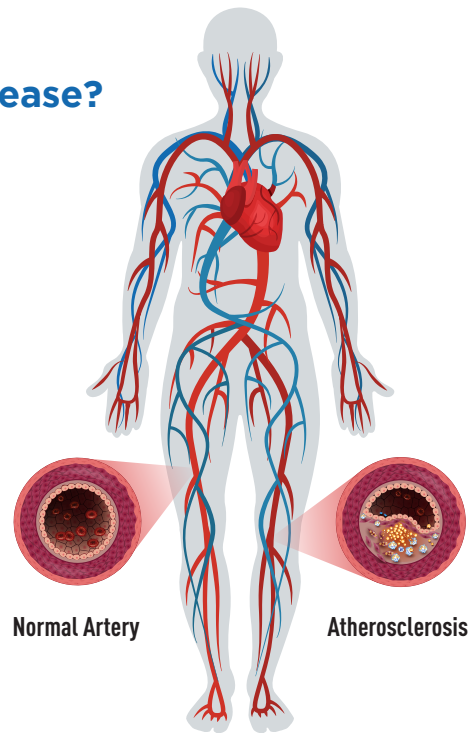
PVD is caused by **atherosclerosis** — a buildup of plaque — in the arteries that supply blood to your arms, legs, or pelvis.

You may have no symptoms, or you might notice:

- Pain, achiness, or fatigue that occurs while walking or exercising, and then disappears after several minutes of rest
- Cold or numb sensation in legs or feet
- Leg pain that worsens when your legs are elevated, but improves when you're sitting
- Leg or foot sores that don't heal

Risk factors for PVD

- Diabetes
- Family history
- Obesity
- High blood pressure
- High cholesterol
- Smoking
- *MTHFR genetic variant*
- *Elevated levels of homocysteine*



People with diabetes have the greatest risk of developing PVD and neuropathy.

What is neuropathy?²⁻⁴

Neuropathy is a disorder or condition that occurs when the nerves in your body that are outside the brain and the spinal cord are damaged.

Peripheral neuropathy is nerve damage that occurs anywhere in the body, but typically causes pain and loss of sensation in the hands and feet. This is the most common form of nerve damage.

Early symptoms

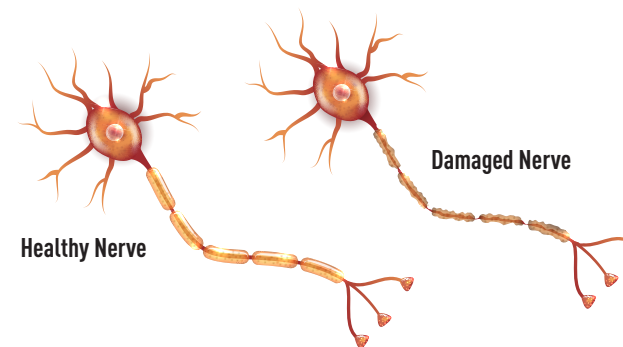
- Tingling
- Burning
- Numbness
- Muscle weakness, cramping, or atrophy
- Undetected sores on the feet

Autonomic neuropathy refers to symptoms occurring when there is damage to the nerves that manage daily body functions, such as:

- Blood pressure
- Heart rate
- Sweating
- Bowel and bladder emptying
- Digestion

Long-term damage

- Difficulty swallowing, digesting
- Bladder control
- Heart function (dizziness, lightheadedness on standing), inability to feel chest pain
- Erectile dysfunction
- Vaginal dryness
- Sweating



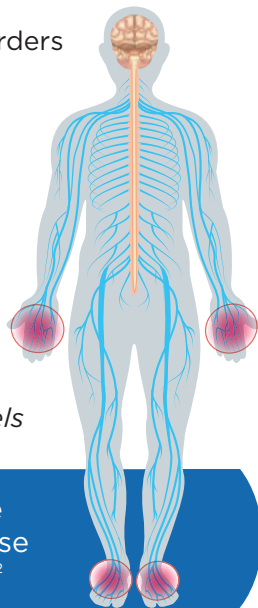
PVD and peripheral neuropathy are the leading causes of amputations and disabilities in the U.S.⁵



What causes neuropathy?²

Neuropathy associated with diabetes is called diabetic neuropathy. Other causes of neuropathy include:

- Idiopathic [unknown causes]
- Chemotherapy
- Autoimmune disorders
- Poor blood flow to the legs
- Nerve pressure
- Nutritional deficiencies
- *Metformin use*
- *MTHFR genetic variant*
- *Elevated homocysteine levels*



Diabetes is the number one cause of neuropathy²

Metformin and diabetes⁶

Metformin is a first-line therapy for Type 2 diabetes due to its benefits of glycemic control and improved insulin sensitivity.

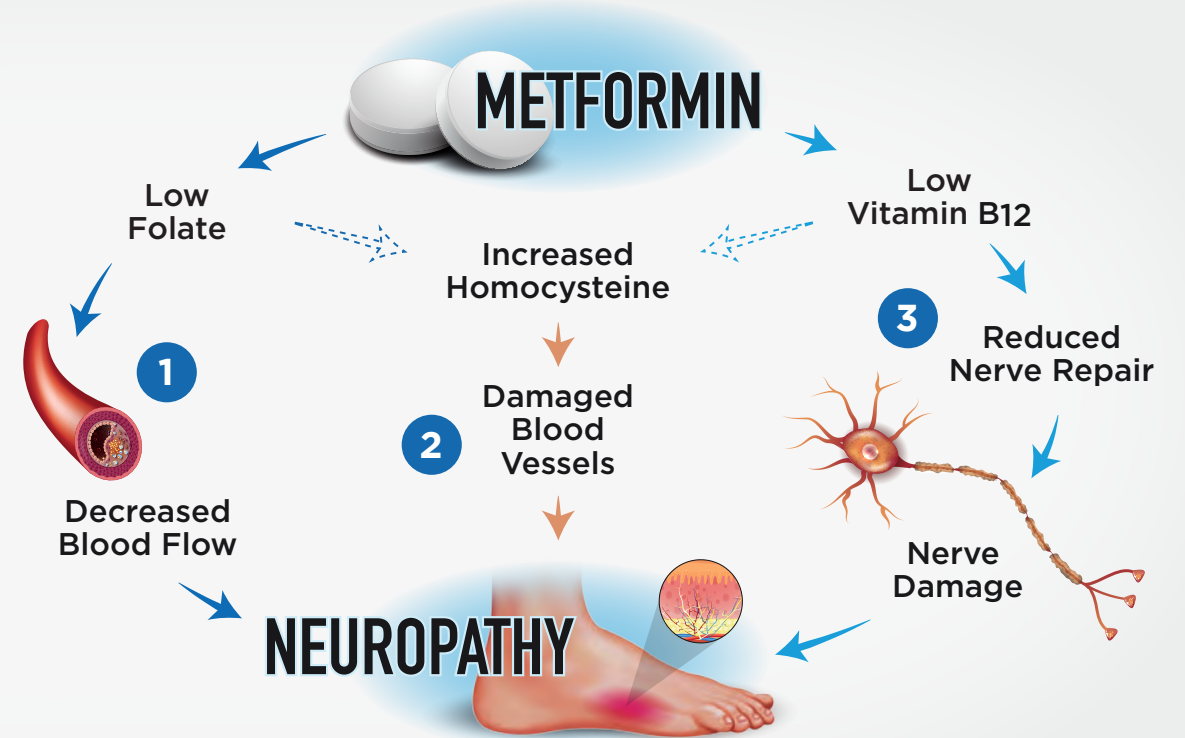
- *“Nutritional therapy should be considered upon initiation of, as well as during, metformin therapy” – ADA Positioning Statement*

Metformin-induced peripheral neuropathy^{7,8}

When available folate and vitamin B₁₂ are depleted, this causes a cascade of reactions that affect nerve structure and function – which in turn lead to peripheral neuropathy.

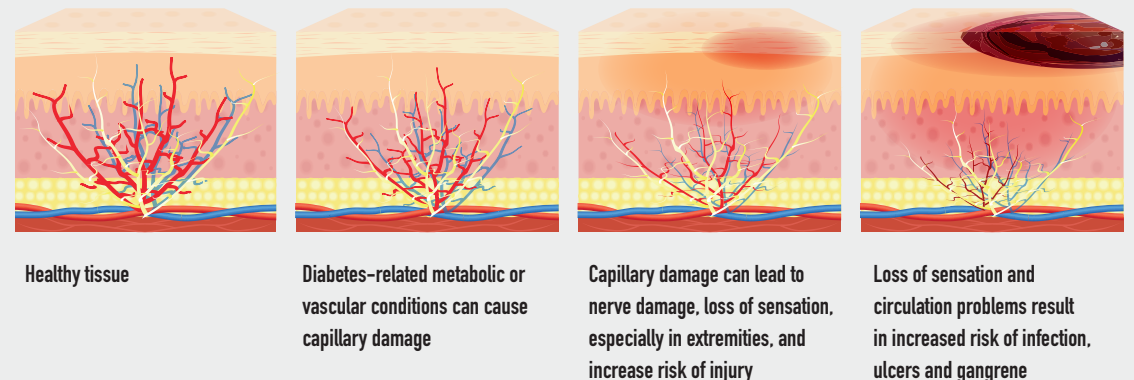
These reactions include:

- 1 Reduced blood flow to peripheral nerves.
- 2 Increase homocysteine levels causing blood vessel damage.
- 3 Reduced nerve repair causing nerve damage.



Evidence demonstrates that Type 2 diabetes patients with more than six months’ exposure to metformin have lower vitamin B₁₂ levels, elevated homocysteine, and clinically more severe neuropathy compared with similar patients with no metformin exposure.⁷

Diabetic neuropathy is a disease that will worsen over time



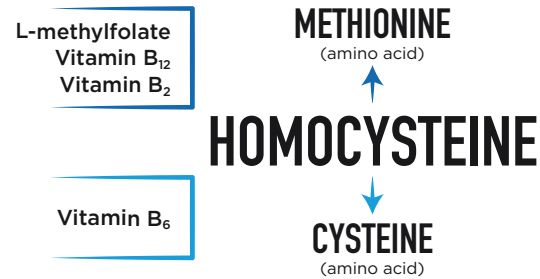
Homocysteine and MTHFR⁹

Risk factors for both peripheral vascular disease and peripheral neuropathy include elevated homocysteine levels and the MTHFR genetic variant.⁹

Homocysteine is an amino acid that is produced as a byproduct of consuming meat. Homocysteine is normally converted into other amino acids. An abnormal accumulation of homocysteine is believed to damage the cells that line the arteries, and is a marker for the development of many chronic conditions including peripheral vascular disease and peripheral neuropathy.

Drugs that increase homocysteine levels and related vitamin deficiencies include:

- Methotrexate
- Fenofibrates
- Nicotinic acid
- Metformin



How do I lower homocysteine levels?¹⁰⁻¹²

You can lower your homocysteine levels by eating less meat. You can also take the B vitamins folic acid (folate), B₆, B₁₂, and B₂. However, it is important that your body be able to break down and utilize these vitamins, **and that is where MTHFR becomes important.**

MTHFR is an enzyme involved in the metabolism of folate. Traditional folic acid (folate) must be broken down in the body before it can be used, and variants of the MTHFR gene lead to decreased enzymatic activity.

MTHFR genetic variant facts:¹⁰⁻¹²

- Present in up to 50% of the population — and at higher percentages in those with diabetes
- Reduces folate levels and increases homocysteine levels
- Known risk factor for development and severity of diabetic neuropathy
- Associated with other conditions including vascular disease, cognitive decline, depression/anxiety, renal disease, and osteoporosis

Biofolate^{®†}, the patented pure crystalline activated form of folate, is unaffected by the MTHFR genetic variant

BIOFOLATE[®]



L-METHYLFOLATE
(biologically active)

FOLIC ACID (over-the-counter vitamin)



DIHYDROFOLATE (whole grains, asparagus, spinach, etc.)



TETRAHYDROFOLATE



5,10-METHYLENETETRAHYDROFOLATE

MTHFR Genetic Variant



L-METHYLFOLATE
(biologically active)

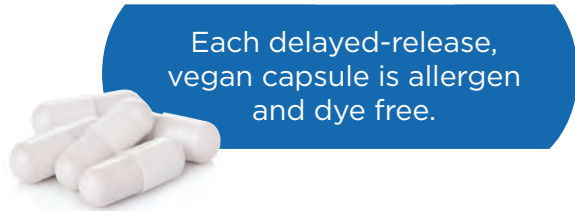
[†]Featured in EB-N3^{DR}, EB-N5^{DR} and EBN6^{DR} products

A simple DNA swab of your saliva can determine whether you have the MTHFR genetic variant.

Visit www.EBMmedical.com or call 844-360-4095 for a requisition form for your doctor.

Metabolic management of vascular and neuropathic conditions with medical foods

The active pharmaceutical-grade ingredients in EBM Medical Foods work together to support many essential functions within the body, specifically those involved in peripheral neuropathy and peripheral vascular disease.



Each delayed-release, vegan capsule is allergen and dye free.

Ingredient Guide ¹⁴⁻²²






ACTIVE INGREDIENT	DESCRIPTION
L-methylfolate Calcium [active folate (pure crystalline)]	+ Blood flow and nerve repair - Homocysteine levels
Methylcobalamin [active Vitamin B ₁₂]	+ Peripheral nerve repair - Homocysteine levels
Pyridoxal 5'-Phosphate [active Vitamin B ₆]	- Harmful substances that damage nerves - Homocysteine levels
Cholecalciferol [active Vitamin D ₃]	+ Factors involved with nerve health
Alpha Lipoic Acid [antioxidant]	+ Blood flow to the peripheral nerves - Inflammation
Benfotiamine [active Vitamin B ₁]	- Pathways involved in damaging blood vessels and peripheral nerves
Riboflavin [active Vitamin B ₂]	- Homocysteine levels

Manufactured in compliance with current Good Manufacturing Practices [cGMP].

+ increase - decrease



Peripheral neuropathy: recommended use and dose per formulation and patient condition*

NO SYMPTOMS & METFORMIN USE		SYMPTOMS WITH OR WITHOUT METFORMIN USE		
EB-N5^{DR} 	EB-N6^{DR} 	EB-N3^{DR} 	EB-N5^{DR} 	EB-N6^{DR} 
1 capsule daily	1 capsule daily	1 capsule daily	2 capsules daily	2 capsules daily
6 MONTH SUPPLY		3 MONTH SUPPLY		

EB-N3^{DR} Delayed Release**

L-methylfolate Calcium.....6 mg	Pyridoxal 5'-Phosphate.....70 mg
Methylcobalamin.....4 mg	Riboflavin.....1.3 mg

Dosage: Adult dose is 1 capsule daily or as directed by physician.

EB-N5^{DR} Delayed Release**

L-methylfolate Calcium.....6 mg	Cholecalciferol.....5000 IU
Methylcobalamin.....4 mg	Alpha Lipoic Acid.....600 mg
Pyridoxal 5'-Phosphate.....70 mg	

Dosage: Adult dose is 1 capsule twice daily with food or as directed by physician. A.M. & P.M. dosing is recommended.

EB-N6^{DR} Delayed Release**

L-methylfolate Calcium.....6 mg	Alpha Lipoic Acid.....600 mg
Methylcobalamin.....4 mg	Benfotiamine.....300 mg
Pyridoxal 5'-Phosphate.....70 mg	

Dosage: Adult dose is 1 capsule twice daily with food or as directed by physician. A.M. & P.M. dosing is recommended.

* Consult with your physician to determine the right usage and dosage.
** Products feature delayed-release capsules for targeted delivery to promote tolerability.

Now that I have been prescribed an EBM Medical product, what are the next steps?



1 Your provider will send your prescription to EBM Medical



2 You will receive a text or email to confirm your order —
To expedite your order, call us at 1-844-360-4095



3 An EBM representative will contact you to answer your questions and process your payment



4 Within 24 hours, your prescribed formula will be shipped to your door



5 You will receive a confirmation text 10 days before your prescription needs to be refilled



Questions? Contact EBM at 1-844-360-4095, support@EBMmedical.com, or, visit our website at www.EBMmedical.com

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