



Web-based | Guidelines Updates, Advances | & Researches in Dyslipidemia

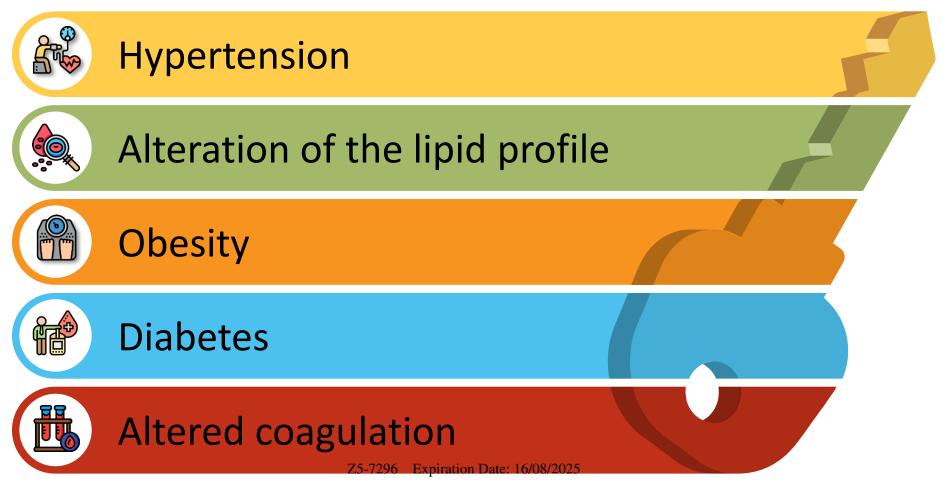
Non-Pharmacological Management of Dyslipidemia



1. DIET



- ✓ One of the most important aspects of human life related to atherogenesis is the dietary pattern.
- Nutrients are linked to many atherosclerosis risk factors:







Diet is a multi-component mixture of many nutrients which may interact with one another. We still do not have a definitive study of the impact of nutrients on CVD.

✓ Many approaches have been used to examine the influence of nutrition on atherosclerosis:





✓ Notes about these approaches :

Some of these approaches can be very informative about individual nutrients.

DIET

Metabolic ward studies where the nutrients are varied in a specific fashion without changing total calories or nutrient balance, are most likely to yield relatively definitive answers.

However, they are not closely related to the real lives of free living peoples.



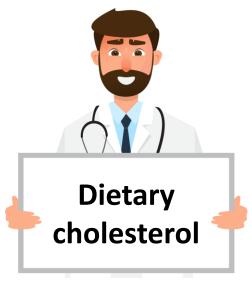
√ The primary dietary determinants of hypercholesterolemia are



particularly:







Dietary fat

Dietary fat which is almost completely absorbed in the intestinal tract





Cholesterol

The absorption of cholesterol is incomplete and is regulated at the intestinal epithelium.



1. DIETA. Dietary fat



Conversely, low intakes of fats and oils increase the risk of inadequate intakes of vitamin E and of essential fatty acids, and may contribute to a reduction of HDL-C.

Fat intake should predominantly come from sources of monounsaturated fatty acids, including both n-6 and n-3 PUFAs.

The cholesterol intake in the diet should be reduced (<300 mg/day), particularly in people with high plasma cholesterol levels.









1. DIET

B. Dietary Carbohydrate and Fiber

Expiration Date: 16/08/2025



Dietary carbohydrate

Soluble Dietary fiber





Has a 'neutral' effect on LDL-C



Excessive consumption is represented by untoward effects on plasma TGs and HDL-C levels.



Should range between 45-55% of total energy intake

Z5-7296 Expiration Date: 16/08/2025



Added sugar should not exceed 10% of total



Dietary carbohydrate

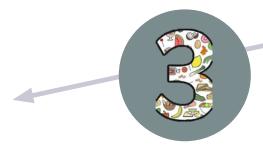
Soluble Dietary fiber





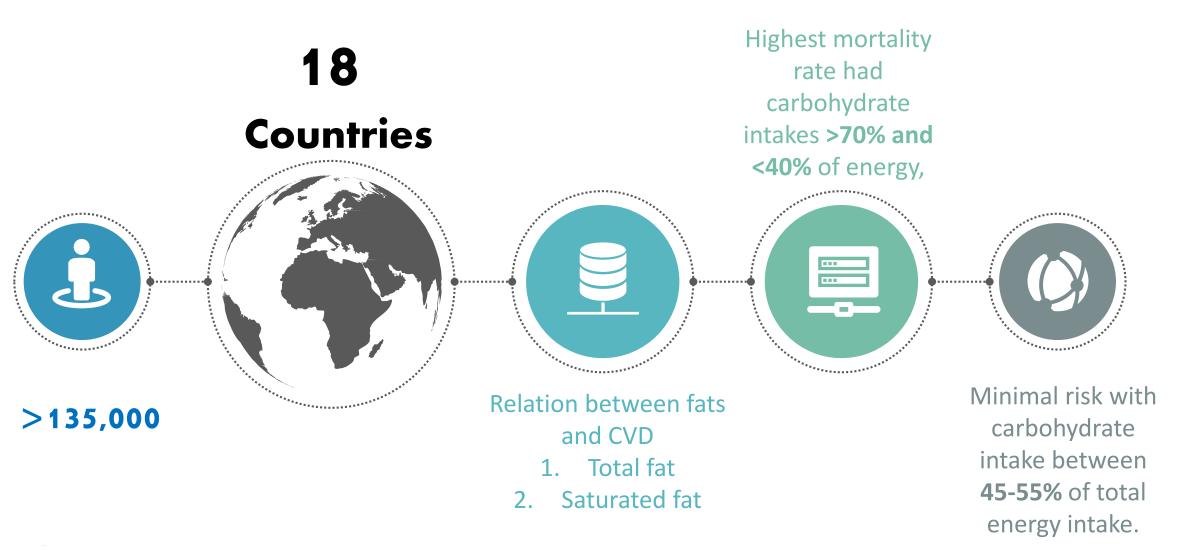


Present in legumes, fruits, vegetables, and wholegrain cereals



Represents a good dietary substitute for saturated fat

The Prospective Urban Rural Epidemiology (PURE) study





2. Smoking

3. Weight Reduction

4. Physical Activity

Expiration Date: 16/08/2025



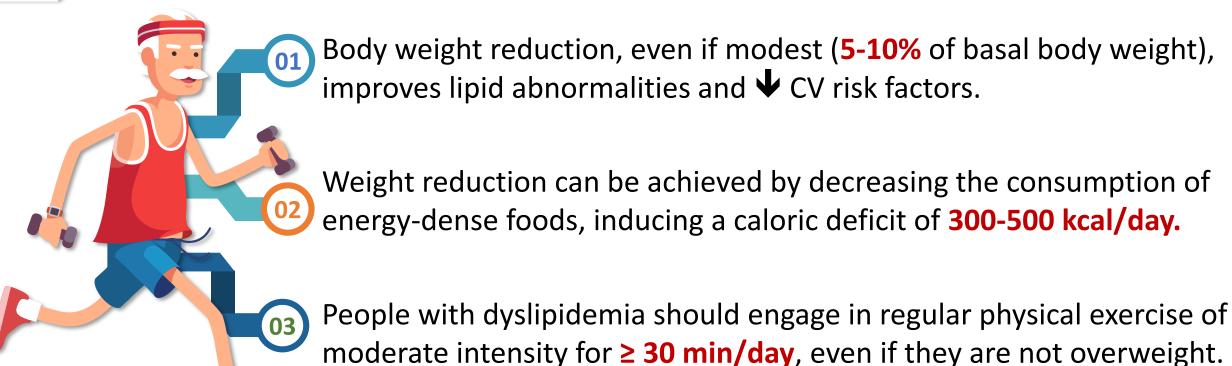
Smoking cessation⁽²⁾



Smoking cessation has clear benefits regarding overall CV risk, and specifically on HDL.



Body weight reduction and physical activity⁽²⁾



Improving LDL and Lipoprotein Food Choices²



2. Mach F, Baigent C, Catapano AL, et al. 2019 ESC/EAS Guidelines for the management of dyslipidaemias: lipid modification to reduce cardiovascular risk. Eur Heart J. 2020;41(1):111–188. doi:10.1093/eurheartj/ehz455.

5. Sweets and sweeteners

Preferred: Non-caloric sweeteners

Moderate: Sucrose, honey, chocolate, sweets/ candies

Limited: Cakes, ice creams, fructose, soft drinks

Limited: Processed meats

Preferred: Lentils, heans, fava

7. Dairy food and eggs

Preferred: Skimmed milk and voghurt

yoghurt

Moderate: ow-fat milk, lowfat cheese and
other milk products, eggs
Limited: Regular cheese,
cream, whole milk and
yoghurt



1. CEREALS

Preferred: Whole grain **Moderate**: Refined bread,

2. Vegetables

Preferred: Raw and cooked
Moderate: Potatoes
Limited: prepared in butter or

cream

Limited: Trans fats and hard margarines, palm and coconut oils, butter, lard, bacon fat

(except coconut)

Limited: Coconut

ice

Methods of cooking

1. Preferred

2. Moderate

3. Limited







SUMMARY

	To be preferred	To be used in moderation	To be chosen occasionally in limited amounts
Cereals	Wholegrains	Refined bread, rice, and pasta, biscuits, corn flakes	Pastries, muffins, pies, croissants
Vegetables	Raw and cooked vegetables	Potatoes	Vegetables prepared in butter or cream
Legumes	Lentils, beans, fava beans, peas		
Fruit	Fresh or frozen fruit	Dried fruit, jelly, jam, canned fruit, sorbets, ice lollies, fruit juice	
Sweets	Non-caloric sweeteners	Sucrose, honey, chocolate, sweets/candies	Cakes, ice creams, fructose, soft drinks
Meat and fish	Lean and oily fish, poultry without skin	Lean cuts of beef, lamb, pork, and veal, seafood, shellfish Expiration Date: 16/08/2025	Sausages, salami, bacon, spare ribs, hot dogs, organ meats

SUMMARY

	To be preferred	To be used in moderation	To be chosen occasionally in limited amounts
Dairy food and eggs	Skimmed milk and yoghurt	Low-fat milk, low-fat cheese and other milk products, eggs	Regular cheese, cream, whole milk and yoghurt
Cooking fat and dressings	Vinegar, mustard, fat-free dressings	Olive oil, non-tropical vegetable oils, soft margarines, salad dressing, mayonnaise, ketchup	Trans fats and hard margarines (better to avoid them), palm and coconut oils, butter, lard, bacon fat
Nuts/seeds		All, unsalted (except coconut)	Coconut
Cooking procedures	Grilling, boiling, steaming	Stir-frying, roasting	Frying



Impact of specific lifestyle changes on lipid levels (ESC/EAS)⁽²⁾

	Magnitude of the effect	Level
Lifestyle interventions to reduce TC and LDL-C levels		
Avoid dietary trans fats	++	Α
Reduce dietary saturated fats	++	Α
Increase dietary fibre	++	Α
Use functional foods enriched with phytosterols	++	Α
Use red yeast rice nutraceuticals	++	А
Reduce excessive body weight	++	А
Reduce dietary cholesterol	+	В
Increase habitual physical activity	+	В



Impact of specific lifestyle changes on lipid levels (ESC/EAS)⁽²⁾

	Magnitude of the effect	Level
Lifestyle interventions to reduce TG-rich lipoprotein levels		
Reduce excessive body weight	+	А
Reduce alcohol intake	+++	Α
Increase habitual physical activity	++	Α
Reduce total amount of dietary carbohydrates	++	Α
Use supplements of n-3 polyunsaturated fats	++	Α
Reduce intake of mono- and disaccharides	++	В
Replace saturated fats with mono- or polyunsaturated fats	+	В



Impact of specific lifestyle changes on lipid levels (ESC/EAS)⁽²⁾

	Magnitude of the effect	Level
Lifestyle interventions to increase HDL-C levels		
Avoid dietary trans fats	++	Α
Increase habitual physical activity	+++	Α
Reduce excessive body weight	++	А
Reduce dietary carbohydrates and replace them with unsaturated fats	++	А
Modest consumption in those who take alcohol may be continued	++	В
Quit smoking	+	В



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