Pharmacist's advice on appropriate medication use

- K Healthy diet, exercises and weight control are no longer needed after taking cholesterol-lowering medications.
- Cholesterol-lowering medications can reduce blood cholesterol level, but excessive dietary intake of cholesterol could severely hinder the disease management. Therefore, the combination of medication use, healthy diet, weight control and regular exercise are all essential in reducing cholesterol level.
- Refuse to use medications because of potential side effects.
- Not everyone will experience side effects after using the medications. The severity of side effects also differs among individuals. You should not be too worried about the side effects of the medications. If you stop using the medications or change the dose or frequency due to potential side effects, your conditions may get worse. Most common side effects are mild and will subside when your body adapts to them. Consult your doctor or pharmacist if the side effects persist or worsen.
- Noctor asked me to take two types of cholesterollowering medications, but I think one is enough.
- V The type of medications or dosage may vary in different patients according to their conditions and response to medications. Most patients require only one type of cholesterol-lowering medication but some may need additional medications. Do not stop taking your medications without doctor's advice.
- Reduce the dosage or even stop the medication because I do not have any symptoms.
- Patients who have high cholesterol level usually do not have any symptoms until blood vessels are significantly narrowed and blood flow is limited. Therefore, do not self-adjust the dosage merely based on your symptoms.

Cholesterol content in food

Food	Usual consumption quantity	Cholesterol (mg)	Fat (g)	Calorie
Plain rice	1 bowl	0	0.5	220
Fried rice	1 bowl	61	18	464
Barbecued pork rice	1 bowl	44	14	574
Spare rib rice	1 bowl	64	13	535
White bread	1 slice	0.5	1.8	134
Pineapple bun	1	17	7	235
Cocktail bun	1	17	7.5	221
Instant noodles	1 bowl	**	14.2	424
Wonton noodles	1 bowl	**	10.5	283
Beef stir-fry with rice noodles	1 plate	50	101	1237
Vegetable oil	1 teaspoon	0	4.5	40
Butter	1 teaspoon	11	4	36
Salad dressing	1 teaspoon	2	3.7	33
Lean meat	40g (raw)	22	2.4	57
Common fish	80g	80	3	80
Squid	1	350	2	138
Prawn	6	109	1	76
Scallop	1 piece	5	0.1	12
Chicken sausage	1	46	8.8	116
Luncheon meat	1 slice	20	10	110
Fried chicken wing	1	26	7	103

Food	Usual consumption quantity	otion (mg) (g)		Calorie
Boiled egg	1 (large)	212	5.3	78
Baked beans	1 teaspoon	1	0.2	16
Bean curd	1 cube	0	3	53
Boiled vegetable	120g	0	0	28
Fried vegetable	120g	0	6.8	88
Orange	1 (medium)	0	0.2	58
Apple	1 (medium)	0	0.5	89
Soft drink (juice)	250ml	0	0.1	127
Fizzy drink	355ml	0	0	151
Soy milk	250ml	0	7.4	169
Skimmed milk	250ml	5	0.5	90
Coffee / milk tea	1 cup	5	1	52
Beer	355ml	0	0	147
Double-stewed soup	1 bowl	**	4	50
Steamed fresh prawn dumpling	1 piece	**	2.9	37
Siu mai	1 piece	6	3.5	42
Steamed rice roll with beef	1 roll	8	2.3	79
Steamed barbecued pork bun	1	**	2.9	94
Steamed lotus seed paste bun	1	1	1.1	118

Deep-fried dumpling Hamburge Fish fillet b Pizza French fries French toas Egg tart Cake Cookie Soda crack



od	Usual consumption quantity	Cholesterol (mg)	Fat (g)	Calorie
taro	1 piece	3	9.9	113
	1	30	10	270
urger	1	50	18	370
	1 slice	30	15	311
3	1 pack (small)	0	10	210
st	1 portion	119	15	379
	1 piece	67	12	209
	1 piece	66	6	116
	1 piece	0	1.6	34
er	1 piece	0	0.7	26

(Referenced from Family Health Service, Department of Health) **Cholesterol content unknown

Medications for the Heart -**Cholesterol**lowering **Medications**

? For any queries, please seek advice from your doctor, pharmacist or other healthcare professionals.



藥劑職系及服務統籌委員會 COC-Grade (Pharmaceutical Services)



S/N: 013Ev4 (10/2023)



Cholesterol is a type of fat that is produced by the liver or absorbed from food. Normally, our bodies can regulate the cholesterol level. However, when this regulation is not functioning or there is an excessive intake of cholesterol, the blood cholesterol level may be raised.

Cholesterol is found in every cell of the body and has important functions in hormones and bile production, and cell membrane formation. However, excessive intake of cholesterol is harmful to our health. Persistent high cholesterol level leads to the formation of thick, hard deposits (plaques) that can cause hardening and narrowing or even clogging of blood vessels. Most commonly seen is the occlusion of the coronary arteries which can lead to chest pain, heart attack or even sudden death. Other risk factors for coronary heart disease include smoking, diabetes mellitus and high blood pressure. They would worsen the accumulation of plaques on inner walls of the arteries. It is therefore important to keep your blood pressure, cholesterol and blood sugar level within the optimal range to reduce the risk of developing cardiovascular diseases. You can check your cholesterol level by taking a blood test.

Moreover, it is important to control the amount of lipoprotein in our blood. Lipoproteins are substances that transport cholesterol around our body. They are classed into "good" and "bad" lipoproteins. High-density lipoprotein (HDL) cholesterol is considered as "good" cholesterol because it helps to protect the arteries so it is desirable to have a high HDL level. On the other hand, low-density lipoprotein (LDL) and very lowdensity lipoprotein (VLDL) cholesterols are considered as "bad" cholesterols because they contribute to the formation of plaque. As a result, the LDL and VLDL levels should be kept at a healthy range.

Having a good control of cholesterol level can reduce the risk of developing cardiovascular diseases.

In general, high cholesterol level should be managed by lifestyle changes before starting medication therapy.

Precautions on lifestyle

- Wonitor and record blood pressure, blood lipid and blood sugar levels regularly.
- Have a balanced diet. Eat food with fewer calories. less salt. less fat and less cholesterol. Eat plenty of vegetables and fruits.
- Quit smoking. Limit consumption of alcohol.
- Exercise regularly.
- Waintain an appropriate body weight, especially for overweight and obese patients.
- Take enough rest, manage stress and maintain a positive attitude.

Precautions on medication use

- Use the medications as directed. Do not stop using the medications or change the dose or frequency unless directed by your doctor.
- Use the medications preferably at the same time every day.
- If you have history of drug allergy, consult your doctor or pharmacist before using the medications.
- Tell your doctor and pharmacist if you are pregnant, planning to become pregnant or breastfeeding.
- Consult your doctor or pharmacist before using any other medications, including health supplements, Traditional Chinese Medicines, Proprietary Chinese Medicines and over-the-counter medications.
- Please consult your doctor or pharmacist if you encounter any difficulties in using the medications.
- Please consult your doctor if symptoms persist or worsen after using the medications.

Cholesterol-lowering medications

Classes of medications	Common side effects	
Statins Atorvastatin, Rosuvastatin, Simvastatin	Headache, stomach upset, muscle pain	 Do not take an Simvastatin sh Avoid in pregn Contact your c dark urine, yell Avoid grapefru
Fibrates Fenofibrate, Gemfibrozil	Stomach pain, abdominal pain, shin rash	 Fenofibrate: So Gemfibrozil: Ta Contact your of dark urine, yell
Cholesterol absorption inhibitors Ezetimibe	Headache, tiredness, abdominal pain, stomach upset, flatulence, nausea	 Contact your of dark urine, yell
Bile acid sequestrants Cholestyramine	Constipation, gas or bloating, stomach upset	 Do not take the Side effects ca Any other med from being abs
PCSK9 inhibitors Alirocumab, Evolocumab	Injection site reaction (redness, pain, bruising), influenza, inflammation of the nose and throat, upper respiratory tract infection, muscle pain, nausea	 Store in a refrig For subcutane Discard unuse Do not shake.
Small interfering RNA-based therapy Inclisiran	Injection site reaction (redness, pain, rash), bronchitis, joint pain	 Intended for ac For subcutane
	le entre e el entre e e entre le une el utetere effected	اسمال ممسم مالج بممالا مم

* If you experience sleepiness, dizziness or blurred vision after taking the medications, avoid driving or activities requiring mental alertness or coordination. Avoid alcohol as it may increase the side effects.

* If you notice any allergic reactions like skin itchiness, face or hand swelling, breathing difficulty, etc., consult your doctor immediately.



Do not double the dose.



Please consult your doctor or pharmacist for missed dose of Alirocumab or Evolocumab.

Precautions
ntacid at the same time with rosuvastatin.
hould be taken in the evening.
nancy or breastfeeding.
doctor immediately if you experience any unexplained muscle pain or weakness, loss of appetite, nausea, vomiting, Ilow skin or eyes, etc.
ruit or grapefruit juice while taking simvastatin.
Swallow with water, do not chew.
Take 30 minutes before meal.
doctor immediately if you experience any unexplained muscle pain or weakness, loss of appetite, nausea, vomiting, Ilow skin or eyes, etc.
doctor immediately if you experience any unexplained muscle pain or weakness, loss of appetite, nausea, vomiting, Ilow skin or eyes, etc.
he medication in its dry powder form. It must be mixed with fluids and is more palatable if mixed with juices.
can be reduced by eating more high fibre-containing food (like vegetables) and drinking more fluids.
dications should be taken at least 1 hour before or 4 hours after cholestyramine as this may prevent other medications boorbed by the body.
rigerator (2-8°C), do not freeze; protect from light.
eous use only.
ed portion.
administration by a healthcare professional.
eous use only.

💚 Store in a cool and dry place away from direct heat and light

Since the second second

Do not share the medications with other people.