- Mechanism: Soluble fiber, particularly pectin found in apples, forms a gellike substance in the digestive tract. This gel can bind to cholesterol and bile acids, preventing their absorption and promoting their excretion from the body.
- ➤ Cholesterol Reduction: By reducing the absorption of cholesterol, soluble fiber helps lower levels of LDL (low-density lipoprotein) cholesterol, often referred to as the "bad" cholesterol.

• Cardiovascular Benefits of Antioxidants:

> Types of Antioxidants: Apples contain various and xidants, including flavonoids, polyphenels, and Canan C. These compounds act as antioxidants of neutralizing free regicals in the body.

Tree Radicals are Cardiovascular Disease: Free radicals are molecules with unpaired electrons that can cause oxidative stress, damaging cells and contributing to inflammation. Oxidative stress is implicated in the development of cardiovascular diseases.

• Additional Cardiovascular Benefits:

➤ Blood Pressure Regulation: Some studies suggest that the antioxidants in apples may contribute to the relaxation of blood vessels, helping to regulate blood pressure.