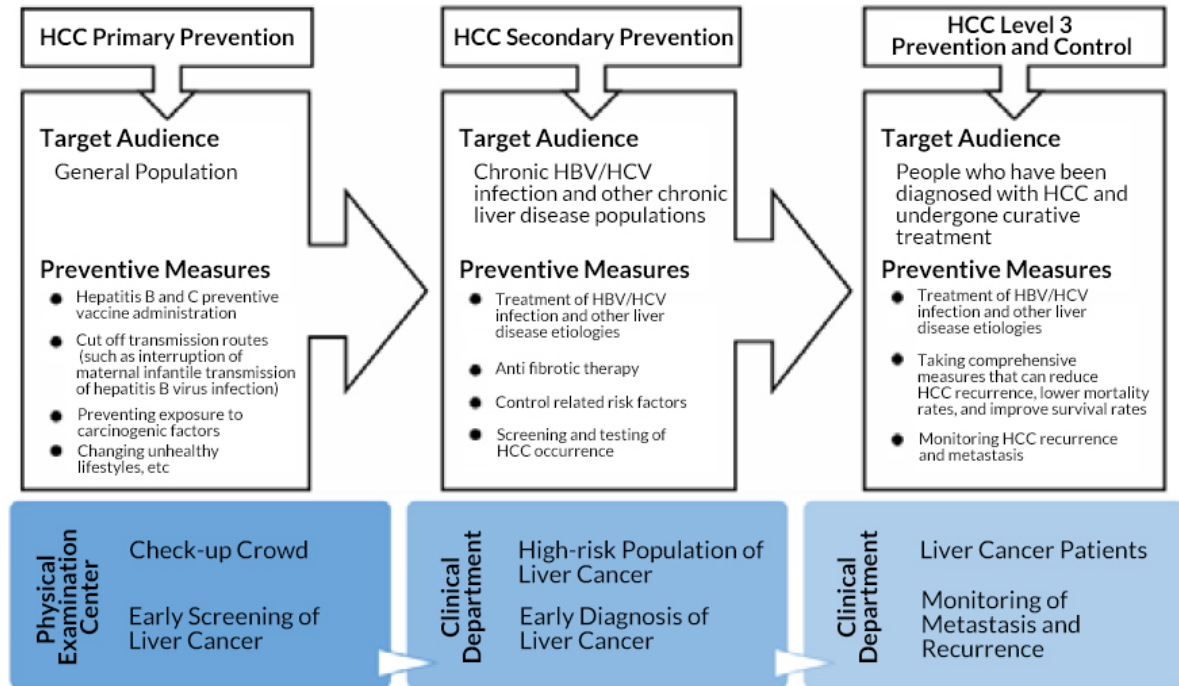


# miRNA7™ Testing

## miRNA7 Testing - Application Scenarios

### Early Screening in the Field of Health Management & Participation in the Entire Process of Tertiary Prevention



Consensus on Secondary Prevention of Primary Liver Cancer(2021 Edition)

## miRNA7 Testing Requirements

### I . Requirements for Blood Collection and Processing

1. Use EDTA anticoagulant vacuum blood collection tube.

Attention: The blood collection using EDTA tube for miRNA7 testing should be placed before any blood collection using the heparin anticoagulant tube to avoid possible heparin contamination that might lead to the inhibition of PCR reaction.

2. Collect whole blood into an EDTA anticoagulant tube until the vacuum is depleted, immediately gently invert the tube and mix 6-8 times, and store at room temperature temporarily.

3. After collecting anticoagulant whole blood, ensure that plasma separation is completed within 4 hours.

1) First centrifugation: room temperature,  $1300 \times G$  (g: centrifugal force), 20 minutes. Immediately use a pipette after centrifugation, aspirate carefully 1.0mL of plasma into a clean nuclease-free centrifuge tube.

Attention: Aspirate carefully to avoid blood cells.

2) Second centrifugation:  $4^{\circ}\text{C}$ ,  $13000 \times G$  (g: centrifugal force), 10 minutes. Aspirate 0.8mL of plasma after centrifugation, transfer the supernatant to a new nuclease free cryopreservation tube.

Attention: Avoid sediment from the bottom.

4. If hemolysis occurs in the sample, blood should be collected again.

## **II. Sample Preservation Requirements**

1. Whole blood samples should be stored at room temperature ( $15\text{-}25^{\circ}\text{C}$ ) for no more than 4 hours and should not be refrigerated.

2. Plasma samples can be stored at  $-20^{\circ}\text{C}$  for one month and at  $-70^{\circ}\text{C}$  for long-term storage. Avoid repeated freeze-thaw cycles exceeding 2 times.

## **III. Sample Transportation Requirements**

1. Whole blood samples should be transported at room temperature ( $15\text{-}25^{\circ}\text{C}$ ) and delivered to Epione Medlab within 3 hours after collection.

Attention: The blood collection tubes should be kept upright and avoid severe vibration throughout the entire transportation process.

2. Plasma samples should be transported at  $-20^{\circ}\text{C}$  with cold chain logistics throughout the entire process.