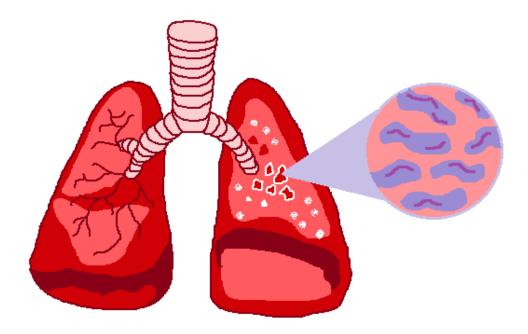


Health education Number: CM-102

Set date:2017.12.04 Revised date:2020.03.24 Review date:2023.02.15

## **Nursing and Prevention of Tuberculosis**

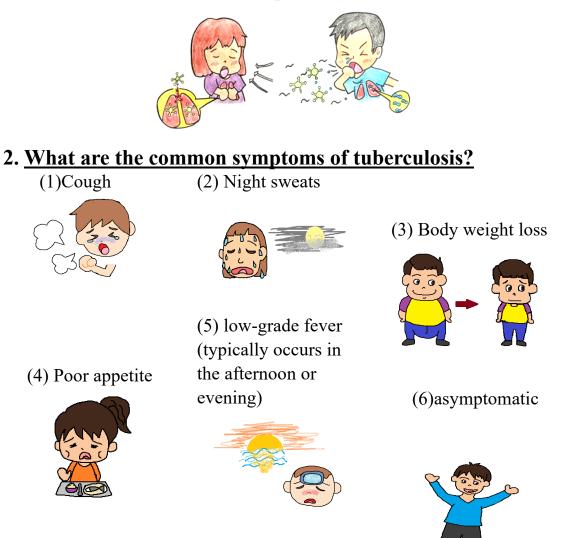


To deliver intelligent and holistic medicine and to provide the best healthcare Compassion Quality Innovation Accountability

All information above has been reviewed by Medical and nursing specialists Edited and published by the Department of Nursing, Taichung Veterans General Hospital

### 1. Transmission of tuberculosis:

When a patient with contagious pulmonary tuberculosis sneezes, coughs, or spits, droplets with pathogenic bacteria are sprayed from the mouth to air. Healthy people may have the opportunity to get infected and become sick when they inhale these particles.



### 3. How is tuberculosis diagnosed?

(1)chest x-ray

(2)sputum examination





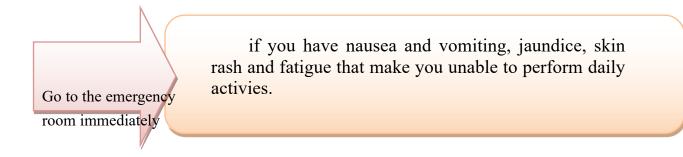
### 4. Review of treatments and common drug side effects:

- (1)When the sputum test shows a negative result after taking anti-TB drugs for two weeks, the disease becomes not contagious.
- (2) Anti-TB drugs must be taken for at least six to nine months. The cure rate is almost 100% if the drugs had been taken correctly and without interruption.
- (3) Not everyone has drug-related side effects.
- (4) The color of the urine and body fluid may become orange.

(5)After taking anti-TB medicine for one to two weeks, some patients would have similar symptoms of common cold, such as nausea, poor appetite, elevated liver function, itchy skin, blurred vision, limbs numbness and joint swelling.



At this time, you can have small meals frequently, observe symptoms, or ask your doctor for help.



### 5. Management of tuberculosis sputum:

When you sneeze, cough, and spit, cover your nose and mouth with toilet paper; burn or throw the toilet paper into a flush toilet to reduce the chance of contamination.



### 6. Diet education for tuberculosis:

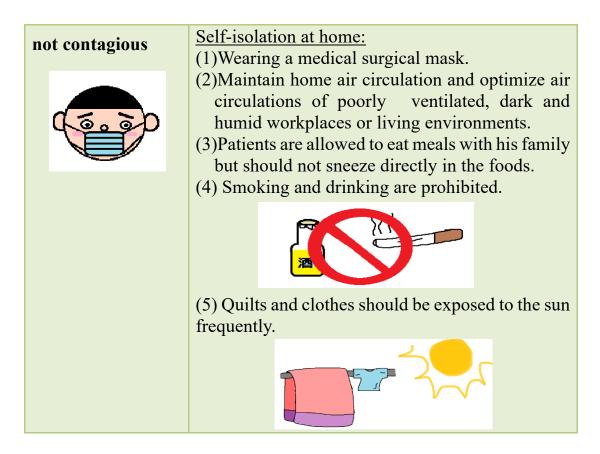
- (1)It is recommended to maintain a balanced diet.
- (2) Drugs containing PZA would cause high serum uric acid level in the

first 2 months of treatment. We suggest the following.

Suggest	Avoid		
(1) <b>drinking 1500-2000ml of</b>	(1)Sun-dried shiitake mushrooms and		
water every day.	seaweed should not be excessive.		
(2)have more fruits, vegetables,	(2) beverages containing alcohol,		
soy products and dairy	chicken essence, and fructose-		
products.	containing beverages.		
	(3)high-purine foods such as offal, red meat, fish and seafood.		
HH DEL			

# 7. Care of tuberculosis patient:

Period	注意事項			
<u>early stage of high</u> <u>contagiousness</u>	<ul> <li>(1)Isolation ward:</li> <li>(1) Caregivers and visitors are advised to wear N95 masks.</li> <li>(2) Visitors' accesses are restricted.</li> <li>(2)When going to public places, you need to wear a medical surgical mask.</li> </ul>			



### 8. Tuberculosis information for contacts:

Relatives and friends who live with the patient should cooperate with the health unit to receive chest X-ray or related examinations; contacts can also use the "Simple Tuberculosis Seven-Point Screening Method" for selftest: cough for two weeks (2 points), sputum (2 points), chest pain (1 point) loss of appetite (1 point), and loss (1 point). When the above symptoms reach 5 points or more, it is recommended to seek a medical examination as soon as possible for early diagnosis and treatment.

Tuberculosis Seven-Point Screening Method

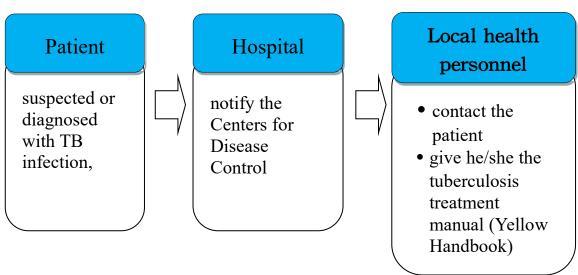
	coug	sh for two	sputum	chest pain	loss of	bodyweight
0.0	weeks				appetite	loss
AS A	2 points		2 points	1 point	1 point	1 point
	yes					
199 9	no					

reach 5 points or more, it is recommended to seek medical!

### 9. <u>Tuberculosis during air travel:</u>

The Ministry of Health and Welfare implements the law on the prevention and control of infectious diseases. Article 58, Sect. 1, subparagraph 5 stipulates that "pulmonary tuberculosis patients who are registered and managed in the national tuberculosis patient database, and whose sputum smear test is positive for acid-fast bacteria are likely to be contagious." "Patients" are not allowed to leave the country (territory) by public aircraft with a single flight of more than eight hours.

Restrictions can only be lifted after 14 days of direct observation and treatment (DOT) or when other evidence shows that there is no risk of infection. If you plan to travel by public aircraft, please discuss and confirm the travel with the public health administrator.



### 10. What is the Yellow Handbook:

which could discount medical expenses when the doctor

gives you a definite diagnosis of pulmonary TB.



### 11. Conclusion:

Tuberculosis can be effectively treated with regular and uninterrupted medication. Contacts can also follow the seven-point screening method and follow the guidance of health center personnel for inspection. It is very important to have good self-protection and good hygiene habits.

#### 12. Reference

- 王玉女、劉佩華、林素英、簡伊翎、謝旻瑾(2021)・提升入住負
  壓隔離病房肺結核病人護理指導之完整性・*醫務管理期刊,22*(2),171-186。https://(2021),22(2),171-186 https:// doi.org/
  10.6174/JHM.202106 22(2).171
- 吴敏華、馮家諒、林雅美、張翠霞、蘇鈞卉、林青毅(2020)・中部 某區域醫院以 TB 培養方式分析結核分枝桿菌陽性率及抗藥 性·澄清醫護管理雜誌,16(3),23-28。https://(2020). TB.,16(3),23-28 https:// doi.org/ 10.30156/CCMJ
- 衛生福利部疾病管制署(2022,1月5日),結核病疾病介紹。 https://www.cdc.gov.tw/Category/Page/7j5JIWAmqm3nCFYLzQt0 Ha

Zhou, J., Lv, J., Carlson, C., Liu, H., Wang, H., Xu, T., Wu, F., Song, C., Wang, X., Wang, T., & Qian, Z. (2021). Trained immunity contributes to the prevention of Mycobacterium tuberculosis infection, a novel role of autophagy. *Emerging Microbes & Infections*, 10(1), 578–588. https://doi.org/10.1080/22221751.2021.1899771

Let us take the quiz to make sure you understand. 1.Cough and body weight loss are the common symptoms of tuberculosis.

 $\bigcirc$ Yes  $\bigcirc$ No  $\bigcirc$ Don't know

2.Chest x-ray and sputum examination can diagnosed tuberculosis.

 $\bigcirc$ Yes  $\bigcirc$ No  $\bigcirc$ Don't know

3.everyone has drug-related side effects.

 $\bigcirc$ Yes  $\bigcirc$ No  $\bigcirc$ Don' t know

4. Anti-TB drugs must be taken for at least six to nine months.

 $\bigcirc$ Yes  $\bigcirc$ No  $\bigcirc$ Don't know

 Caregivers and visitors are advised to wear N95 masks.

 $\bigcirc$ Yes  $\bigcirc$ No  $\bigcirc$ Don't know