**Bacteria type of isolation**

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**Bacteria**

are microscopic, single-celled organisms that exist in their millions, in every environment, both inside and outside other organism , Some of bacteria can survive extreme conditions .

Most bacteria are useful ,support many forms of life, both plant and animal, and they are used in medicinal processes

**ex** : There are harmless bacteria in the intestine that help digest food, and destroy some disease-causing organisms .

There are some types of bacteria that are harmful

**ex** :There are bacteria in the human body that may destroy cells and cause diseases, or attack and destroy tissues.

A scraping of your gums can yield 1 million bacteria per cm2 .

\*The bacteria in and on our bodies makes up about 10% of our dry body weight .

\* MRSA : Methicillin-resistant Staphylococcus aureus .

\* CRE : Carbapenem-Resistant Enterobacteriaceae .

\* TP : Treponema pallidum

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| --- | --- | --- | --- |
| symptoms | Treatment | Causes | Type of bacteria |
| Depend on where you're infected.  - mild infections on the skin (most) : sores, boils.  -cause more serious skin infections .  infect surgical wounds, the bloodstream, the lungs, or the urinary tract | It's tougher to  treat than most strains staph  because it's resistant to some commonly used antibiotics . | Infections in different parts of the body  pneumonia-  (Acute infection) | MRSA |
| urinary tract infection  cyanosis  sepsis  pneumonia  fever  low blood pressure | Difficult to treat :  Due to develops resistant mechanisms to antibiotics | Many types of infections | CRE |
| lesions in the skin | Penicillin can inhibit  in 6–8 hours , it can inhibit and may even kill TP.  Penicillin overall is the most recommended antibiotic  use antibiotics | the diseases syphilis, bejel, and yaws  lack of metabolic pathw | TP |
|  | | | |

**MRAS**

- Most MRSA infections aren't serious, some can be life-threatening. Many public health experts are alarmed by the spread of tough strains of MRSA. Because it's hard to treat, MRSA is sometimes called a

"super bug" .

**CRE**

-Health care professionals who treat CRE include emergency medicine physicians, infectious disease specialists …..other

**-Treatment**

is difficult and should involve a consult with an infectious disease specialist to help determine what mix of antibiotics may be the best choice for each individual patient .

**Infection is transmitted**

1-contact with a person infected with CRE

2- contact with an instrument that has been contaminated

**TP**

The infection is transmitted by :

\* **Syphilis disease** : sexual contact only

\* **Yaws disease**: is generally acquired in childhood as a result of skin contact with Lesions. This disease is chronic and mainly affects the skin and bones.

\* **bejel disease**: It occurs in childhood following contact with lesions in the mucous membranes, or by contaminated food tools. This disease causes many lesions in the skin, then it affects the bones and upper respiratory tracts.