

Membranes

1. 4 types of membranes in the body.
2. 3 types of serous membranes.
3. 4 (or 5, depending on gender) mucous membranes of the body.
4. What is meant by the term "tract"?
5. Microbial status of cutaneous and mucous vs. serous and synovial membranes.
6. Autoimmune disease that attacks synovial membranes.

Answers:

Membranes

1. 4 types of membranes in the body.

- **Cutaneous**
- **Mucous**
- **Serous**
- **Synovial**

2. 3 types of serous membranes.

- **Peritoneum**
- **Pleura**
- **Pericardium**

3. 4 (or 5, depending on gender) mucous membranes of the body.

- **Gastrointestinal tract**
- **Respiratory tract**
- **Urinary tract**
- **Reproductive tract**
- **Conjunctiva**

4. What is meant by the term "tract"?

Tracts are body tubes that are open to the outside; the human tracts are all lined with mucous membranes and are key areas of interaction with the outside.

5. Microbial status of cutaneous and mucous compared with serous and synovial membranes.

- **Cutaneous/mucous: have lots of microbes (normal flora). These normal flora are a critical part of preventing autoimmune disease, allergies, and pathogenic disease**
- **Serous/Synovial: should remain sterile (no bacteria)**

6. Autoimmune disease that attacks synovial membranes.

Rheumatoid arthritis