

Wonderfully Made Series  
**Study # 23: Virtue of Touch & Urinary System**  
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**Urinary System**

The Urinary System is a group of organs in the body concerned with filtering out excess fluid and other substances from the bloodstream. The substances are filtered out from the body in the form of urine.

Urine is a liquid produced by the kidneys, collected in the bladder and excreted through the urethra. Urine is used to extract excess minerals or vitamins as well as blood corpuscles from the body.

The Urinary system works with the other systems of the body to help maintain homeostasis. The kidneys are the main organs of homeostasis because they maintain the acid base balance and the water salt balance of the blood.

**Urinary system consists:**

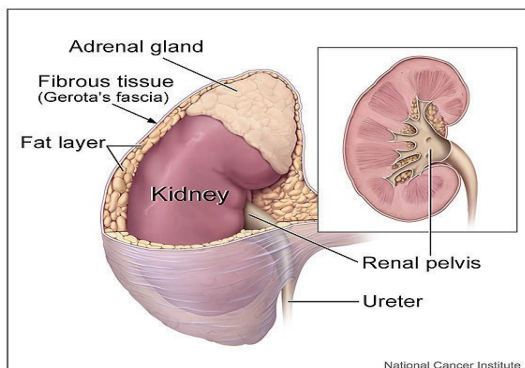
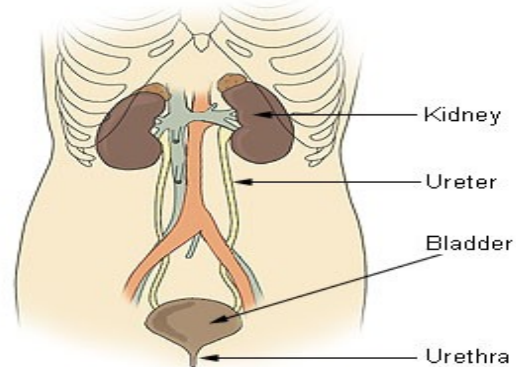
- Kidneys
- Ureters
- Bladder
- Urethra

**Kidneys**

Kidneys are the most important excretory organ. The primary function of the kidneys is to maintain a stable internal environment (homeostasis) for optimal cell and tissue metabolism. They do this by separating urea, mineral salts, toxins, and other waste products from the blood. They also do the job of conserving water, salts, and electrolytes. At least one kidney must function properly for life to be maintained.

The organ is about the size of a human fist and is surrounded by what is called Peri-nephric fat, and situated on the superior pole of each kidney is an adrenal gland.

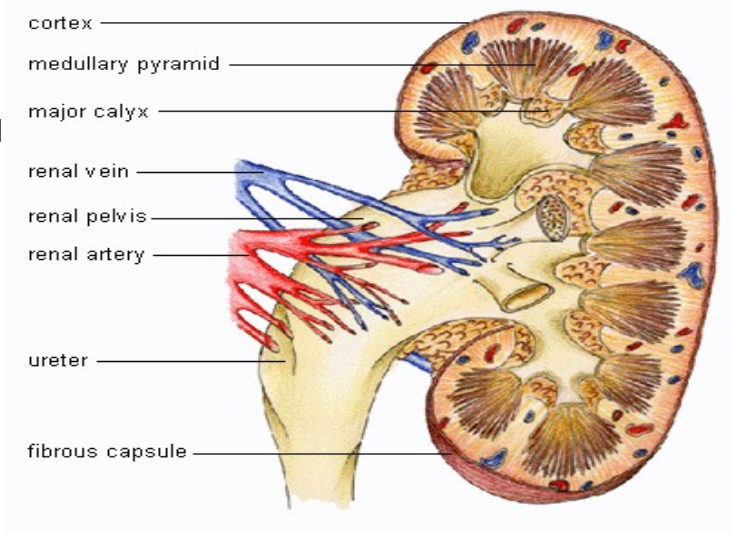
**Components of the Urinary System**



The kidneys receive their blood supply of 1.25 L/min (25% of the cardiac output) from the renal arteries which are fed by the abdominal aorta. This is important because the kidneys' main role is to filter water soluble waste products from the blood. Humans produce about 2.9 litres of urine over 24 hours, although this amount may vary according to circumstances.

### Renal cortex and medulla

A longitudinal cut through the kidney tissue clearly reveals two layers. The renal cortex borders on the renal capsule. This is a highly granulated reddish-brown zone, 6 to 10 mm thick. It houses the renal corpuscles required for filtration of the blood. A renal tubule departs from every renal corpuscle. It is responsible for the complicated metabolic process, which prepares the filtered fluid for excretion.

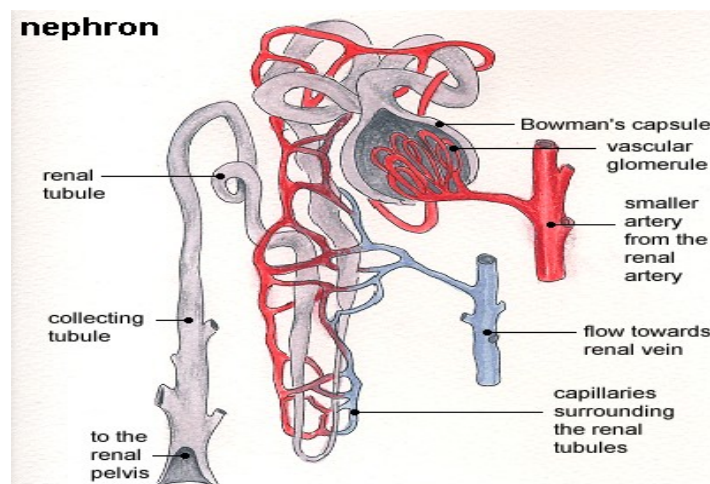


### Nephrons

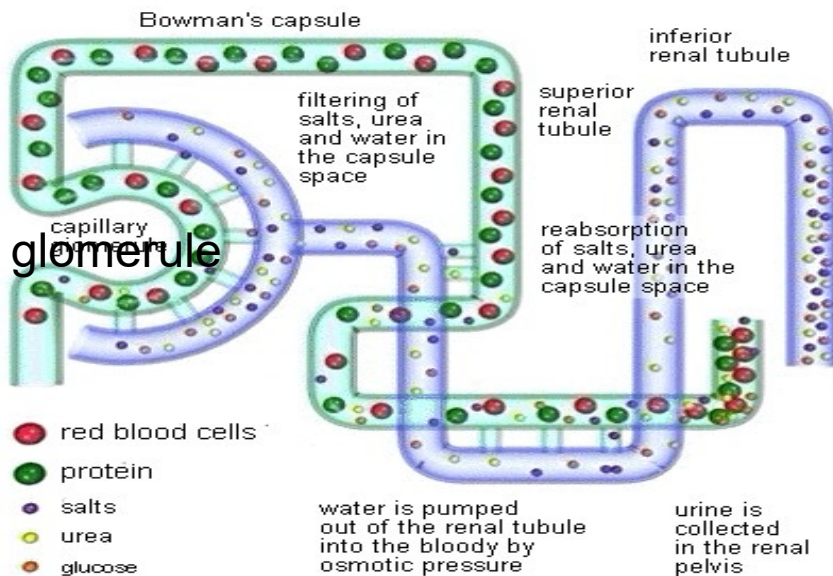
A nephron is the basic structural and functional unit of the kidney. The name nephron comes from the Greek word (nephros) meaning kidney. Its chief function is to regulate water and soluble substances by filtering the blood, reabsorbing what is needed and excreting the rest as urine.

Nephrons eliminate wastes from the body, regulate blood volume and pressure, control levels of electrolytes and metabolites, and regulate blood pH. Its functions are vital to life and are regulated by the endocrine system by hormones such as antidiuretic hormone, aldosterone, and parathyroid hormone.

In humans, a normal kidney contains 800,000 to 1.5 million nephrons



## Metabolic Processes In The Kidney



## Virtue of Touch

What is touch?

**Touch – to come in contact with (1. physically, 2. emotionally, and 3. spiritually.)**

**Physically** nerves throughout the body that interprets touch. **Emotionally** – you are in touch with your feelings. **Spiritually** – you are in touch with God and Jesus is in touch with you.

**Touch – gives you awareness and intimacy with your surrounding.**

**Touch – Is one of the most powerful of the five senses that God has given us?**

**Is touch important? Without touch it would be difficult to walk, talk, feel danger, etc.**

**Touch can be a matter of life or death.**

**Exodus 19:12 – touch mount Sinai = Death**

12 And thou shalt set bounds unto the people round about, saying, Take heed to yourselves, *that ye go not* up into the mount, or touch the border of it: whosoever toucheth the mount shall be surely put to death.

**Leviticus 11:8 - touching of unclean animals – make you unclean...**

8 Of their flesh shall ye not eat, and their carcase shall ye not touch; they *are* unclean to you.

**Leviticus 11:31**

31 These *are* unclean to you among all that creep: whosoever doth touch them, when they be dead, shall be unclean until the even.

**Numbers 4:15** - Touch anything holy=death

15 And when Aaron and his sons have made an end of covering the sanctuary, and all the vessels of the sanctuary, as the camp is to set forward; after that, the sons of Kohath shall come to bear *it*: but they shall not touch *any* holy thing, lest they die

**Numbers 16:23 – Korah, Dathan, and Abiram starts a Rebellion against Moses...**

<sup>26</sup>And he (Moses) spake unto the congregation, saying, Depart, I pray you, from the tents of these wicked men, and touch nothing of theirs, lest ye be consumed in all their sins.

What happen in verses 32 and 35? Swallowed up or consumed with fire

**NEW TESTAMENT:**

CONTACT – TOUCH SIN

**2 Corinthians 6:14-17**

14 Be ye not unequally yoked together with unbelievers: for what fellowship hath righteousness with unrighteousness? and what communion hath light with darkness?

15 And what concord hath Christ with Belial? or what part hath he that believeth with an infidel?

16 And what agreement hath the temple of God with idols? for ye are the temple of the living God; as God hath said, I will dwell in them, and walk in *them*; and I will be their God, and they shall be my people.

17 Wherefore come out from among them, and be ye separate, saith the Lord, and **touch not** the unclean *thing*; and I will receive you,

**James 4:4** – Friendship (contact-intimate touch) with the world

4 Ye adulterers and adulteresses, know ye not that the friendship of the world is enmity with God? whosoever therefore will be a friend of the world is the enemy of God.

**1 Corinthians 7:1-2** – Touch here meaning Fornication

1 Now concerning the things whereof ye wrote unto me: *It is* good for a man not to touch a woman. 2 Nevertheless, *to avoid* fornication, let every man have his own wife, and let every woman have her own husband. (

**TRANSITION THE TOUCH... CHRIST... VIRTUE**

Women with Issue of blood Mark 5

**Mark 5:25-26**

25 And a certain woman, which had an issue of blood twelve years,

26 And had suffered many things of many physicians, and had spent all that she had, and was nothing bettered, but rather grew worse,

Does this sound like many who go to the modern medicine today? They'll take all the money you have but still sick.

**Mark 5:28** Woman with the issue of blood.

28 For she said, If I may touch but his clothes, I shall be whole. –

**Matthew 9:21**

21 For she said within herself, If I may but touch his garment, I shall be whole.

**\*\*\*Touch** in the Greek here is **haptomai { hap'-tom-ahee}** means **to fasten one's self to, adhere to, cling to**

**Virtue: (Mark 5:30-) Greek – Power**

**Mark 3:10 (read some context) – Before the women with the issue of blood in Mark 5**

<sup>10</sup>For he had healed many; insomuch that they pressed upon him for to touch him, as many as had plagues. <sup>11</sup>And unclean spirits, when they saw him, fell down before him, and cried, saying, Thou art the Son of God.

**Luke says why the people touch Jesus to be healed?**

**Luke 6:19**

19 And the whole multitude sought to touch him: for there went virtue out of him, and healed them all.

Those being healed had to faith in Jesus in order to be made whole both physically and spiritually.

**After the story of the women with issue of blood in Matthew 9 it appeared that her testimony inspired many others to just touch the hem of Jesus garment to be made whole.**

**Matthew 14:36**

**36 And besought him that they might only touch the hem of his garment: and as many as touched were made perfectly whole.**

**What is the power of Christ touch?**

**Luke 5:12 - Cleansing of the leopard-UNCLEAN**

12 And it came to pass, when he was in a certain city, behold a man full of leprosy: who seeing Jesus fell on *his* face, and besought him, saying, Lord, if thou wilt, thou canst make me clean.

13 And he put forth *his* hand, and touched him, saying, **I will: be thou clean.**

**Matthew 8:14 – Touching of Peter's Mother-SICK**

14 And when Jesus was come into Peter's house, he saw his wife's mother laid, and sick of a fever.

15 And he touched her hand, and the fever left her: and she arose, and ministered unto them.

**Matthew 9:27-29 Healing the blind-BLIND**

27 And when Jesus departed thence, two blind men followed him, crying, and saying, *Thou* Son of David, have mercy on us.

28 And when he was come into the house, the blind men came to him: and Jesus saith unto them, **Believe ye that I am able to do this?** They said unto him, Yea, Lord.

29 Then touched he their eyes, saying, **According to your faith be it unto you.**

**Luke 22:48 – Jesus Heals the EAR**

<sup>50</sup>And one of them smote the servant of the high priest, and cut off his right ear. <sup>51</sup>And Jesus answered and said, **Suffer ye thus far.** And he touched his ear, and healed him.

**2 Thessalonians. 3:3-5**

3 But the Lord is faithful, who shall stablish you, and keep *you* from evil.

4 And we have confidence in the Lord touching you, that ye both do and will do the things which we command you.

5 And the Lord direct your hearts into the love of God, and into the patient waiting for Christ.