## 4.1 Male Reproductive System

The male reproductive system is designed with two purposes in mind:

-produce \_\_\_\_\_ -deliver \_\_\_\_\_\_to the \_\_\_\_\_ Both males and females have \_\_\_\_\_\_ (first) sexual characteristics and \_\_\_\_\_ (second) sexual characteristics. \_\_\_\_\_\_characteristics have been there since birth while \_\_\_\_\_\_characteristics show up after puberty. \_\_\_\_\_: the period of development in a human where they become sexually mature and able to reproduce. In males this usually starts at age and continues until about age 18 The main male sex hormone is called . At puberty, the \_\_\_\_\_ gland releases hormones that signal the \_\_\_\_\_\_ to produce more \_\_\_\_\_\_. sex characteristics: have a direct role in reproduction. These are the organs that create sperm and deliver them to the egg. Ex: \_\_\_\_\_, \_\_\_\_\_/ \_\_\_\_/ \_\_\_\_\_/ \_\_\_\_\_/

\_\_\_\_\_/ \_\_\_\_\_/ \_\_\_\_\_\_/ \_\_\_\_\_\_/ \_\_\_\_\_\_/ \_\_\_\_\_/ \_\_\_\_\_/

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sex characteristics: help distinguish male from female, but no direct role in reproduction. Ex:
, appearance of,
and
A sperm is very simple. It has three main parts:
a, a and
a It is designed to move.
The contains the nucleus which is where the
DNA is located. Human sperm contains chromosomes. The only other part of the head other than the nucleus is called
the It contains chemicals necessary to allow the sperm to enter the egg.
The is just behind the head and is packed
with This is necessary to power the sperm for its swim.
The tail is called a and whips back and forth to propel the sperm forward.
Male Reproductive Structures:
: Two hang outside the abdominal cavity. It is here that sperm are produced and

nourished. It is also where male \_\_\_\_\_\_ is produced.

\_\_\_\_\_: a protective sac that holds the

\_\_\_\_\_. It also helps to keep the testes at the optimal

temperature for\_\_\_\_\_\_.

\_\_\_\_\_: Each testis contains a mass of coiled

tubes called\_\_\_\_\_\_. These tubes contain diploid cells that undergo meiosis to produce haploid sperm cells.

\_\_\_\_\_: These structures are just \_\_\_\_\_\_ the testis. This is where the mature sperm are stored.

To get out of the male reproductive structure, sperm need to travel through\_\_\_\_\_\_. The first tube leads from the

\_\_\_\_\_ and is called the\_\_\_\_\_.

The second leads from the \_\_\_\_\_\_ though the

\_\_\_\_\_ and out the penis and is called the

\_\_\_\_\_. The \_\_\_\_\_\_ is also the same tube urine exits through. The sperm are pushed out of the

\_\_\_\_\_ by muscular contractions of the penis.

Sperm need a fluid to swim in as well as a source of \_\_\_\_\_. The seminal fluid is created by a mixture of

secretions from various glands such as the\_\_\_\_\_, \_\_\_\_, and\_\_\_\_\_. This fluid has

\_\_\_\_\_ in it as an energy supply for the sperm. It is

also slightly \_\_\_\_\_\_ to protect against the

\_\_\_\_\_ environment of the female reproductive

tract. The sperm and seminal fluid together are called \_\_\_\_\_.

Sperm develop in the \_\_\_\_\_\_ starting at the outer edge of tube. As they mature into sperm they move closer and closer to the inner hollow opening. From

there they move to the \_\_\_\_\_\_ where they finish maturing.

It can take a sperm cell \_\_\_\_\_ days to mature, but

healthy male reproductive systems can make \_\_\_\_\_\_ mature sperm a day. It only takes 1 sperm to fertilize an egg, but millions are needed because it is a very dangerous trip!

If sperm are not released within a few days they are destroyed

by\_\_\_\_\_, however, new sperm cells are always being created. Mature sperm can be created even into old age, however the rate at which they are made slows as the male gets older.