

syukran

Quran & Embryology

Step by step explanation of an embryo mentioned in the Quran

بِسْمِ اللَّهِ الرَّحْمَنِ الرَّحِيمِ

01

Allah speaks about the stages
of man's embryonic
development

“

We created man from an extract of clay. Then We made him as a drop in a place of settlement, firmly fixed.

Al-Quran 23:12-14

**“ Then We made the drop into
an alaqah, then We made the
alaqah into a mudghah...**

Al-Quran 23:12-14

02

What is the
meaning of *Alaqqah*?

**“ Then We made the drop into
an alaqah, then We made the
alaqah into a mudghah...**

Al-Quran 23:12-14

“

*Then We made the drop into
an **alaqah**, then We made the
alaqah into a mudqah...*

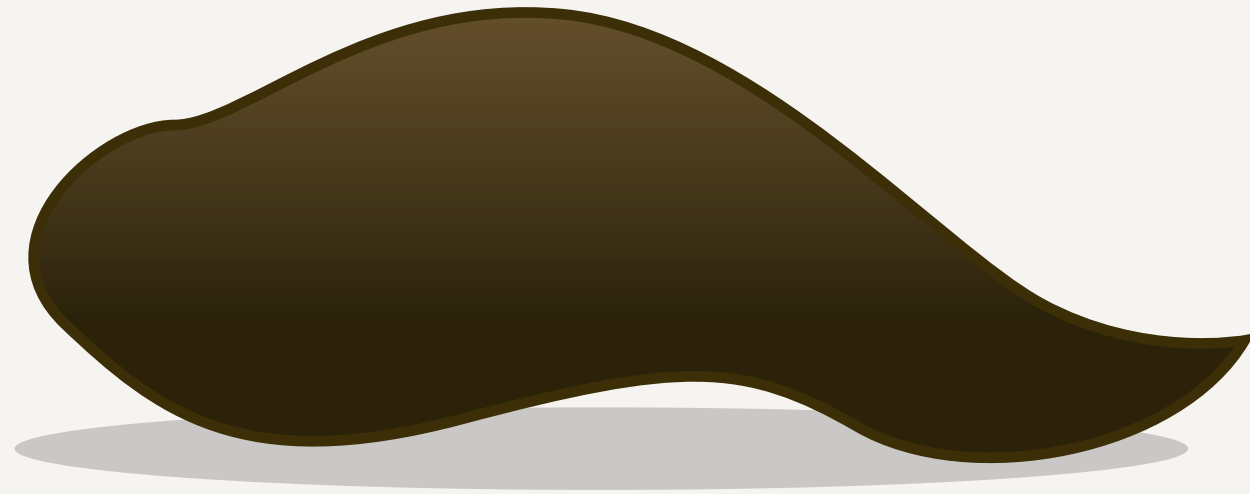
In arabic word 'alaqah
has 3 meanings:



Al-Quran 23:12-14

1

Leech



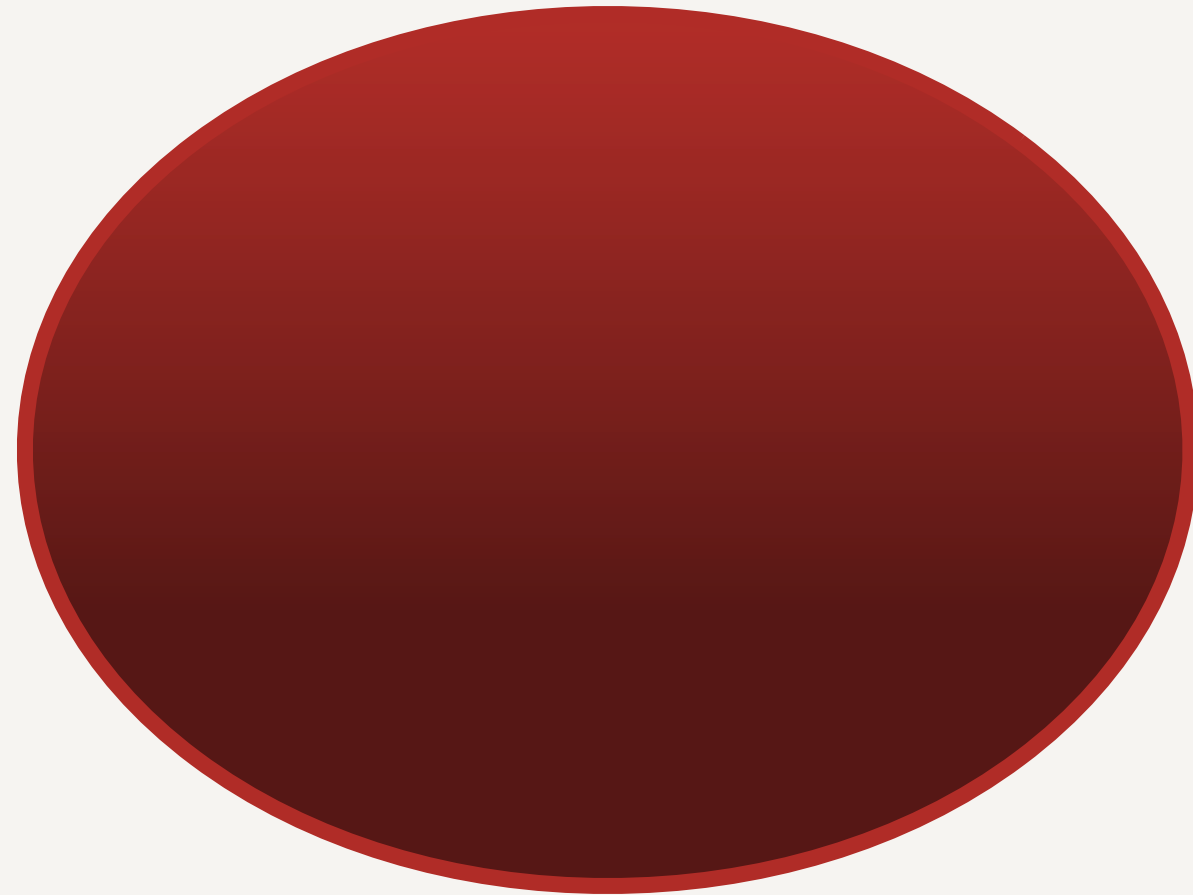


Suspended thing





Blood clot

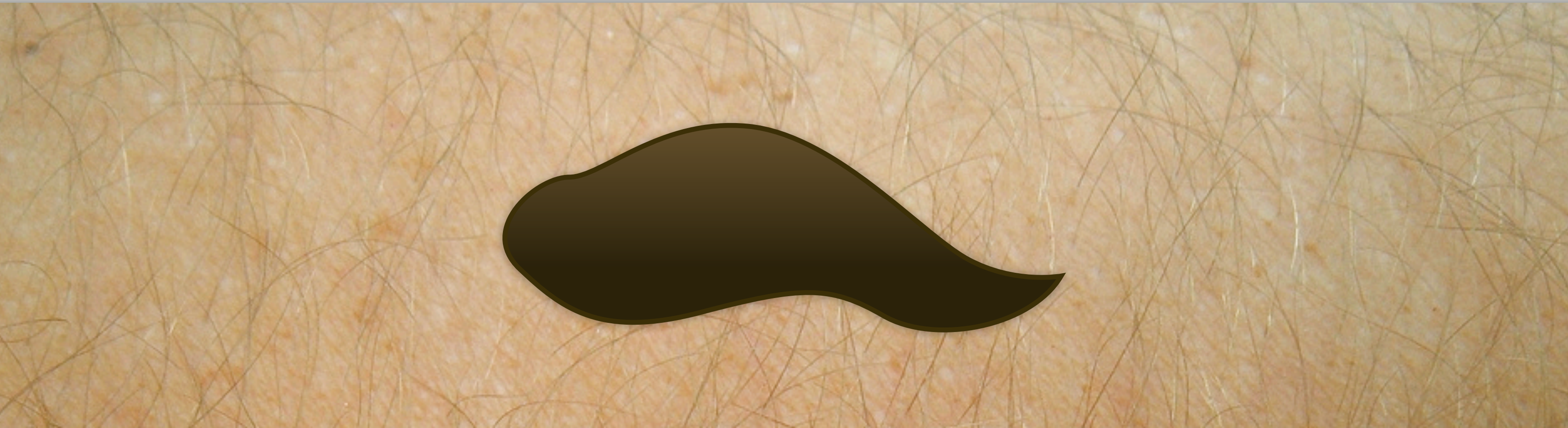
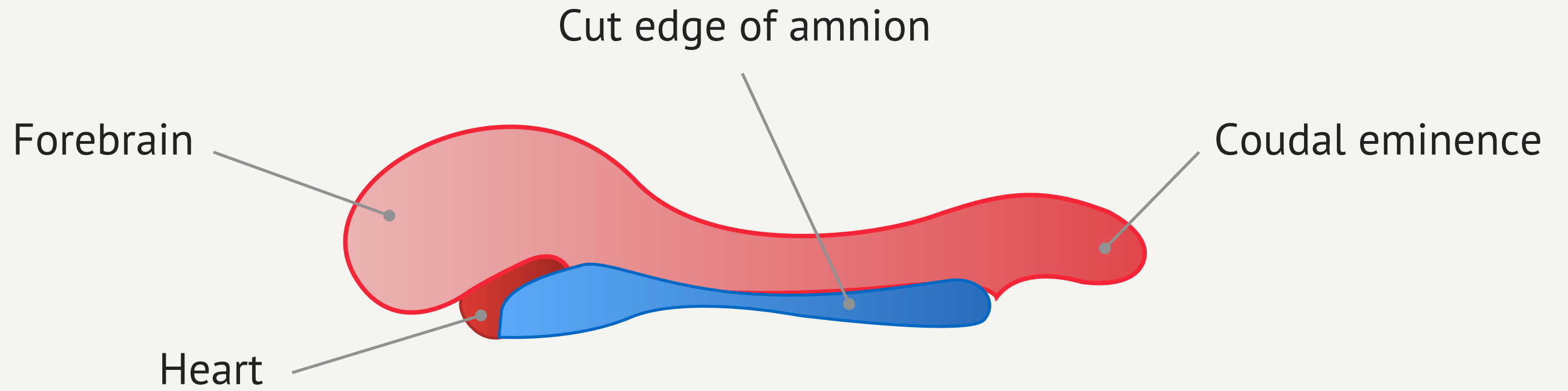


03

Similarity leech and an embryo

We may find similarity
comparing a **leech** to
an embryo





Also, the **embryo** at this stage obtains nourishment from the **blood** of the mother, similar to the **leech**, which feeds on the **blood** of others.

04

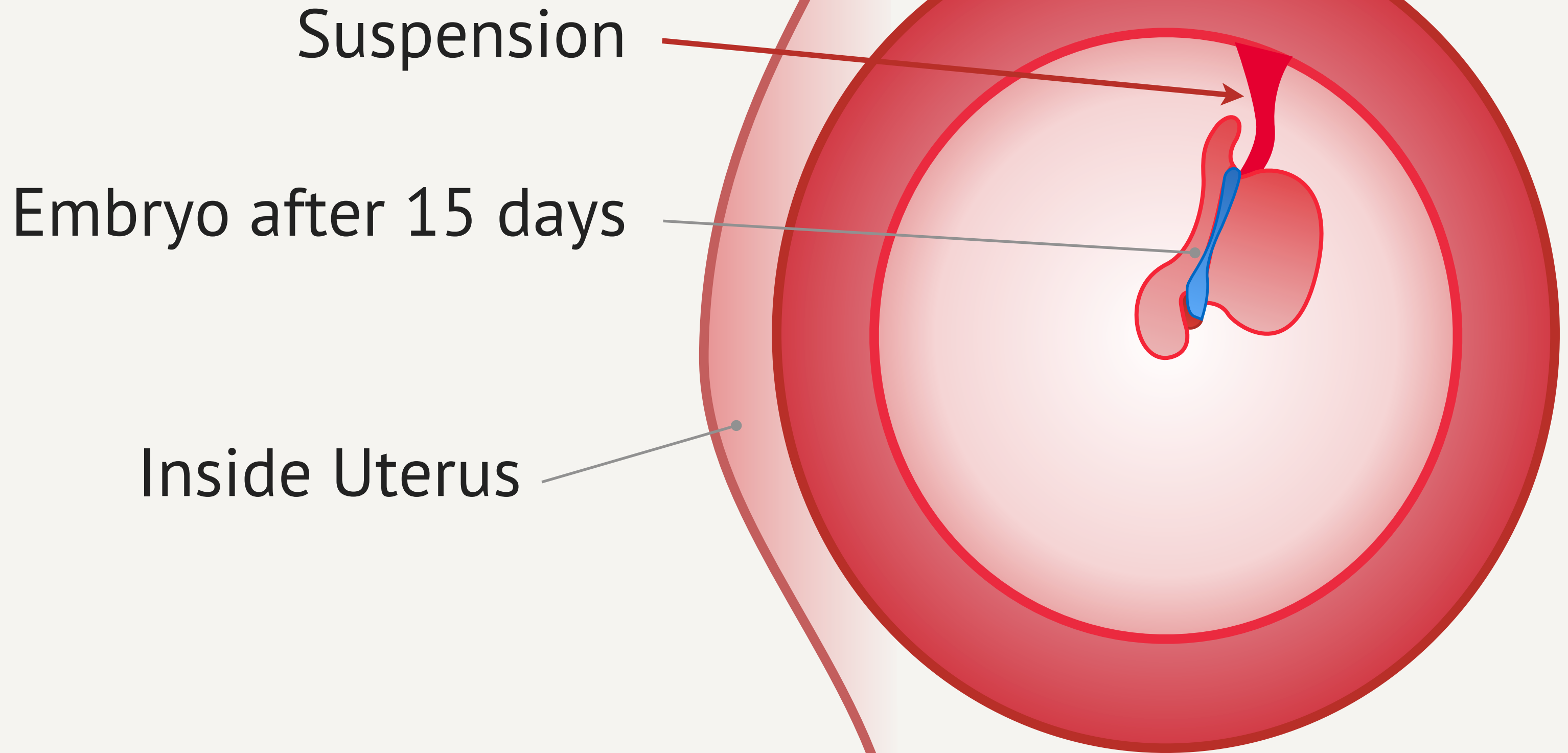
Similarity suspended thing
and an embryo

The second meaning of
the word *alaqah* is
“suspended thing.”

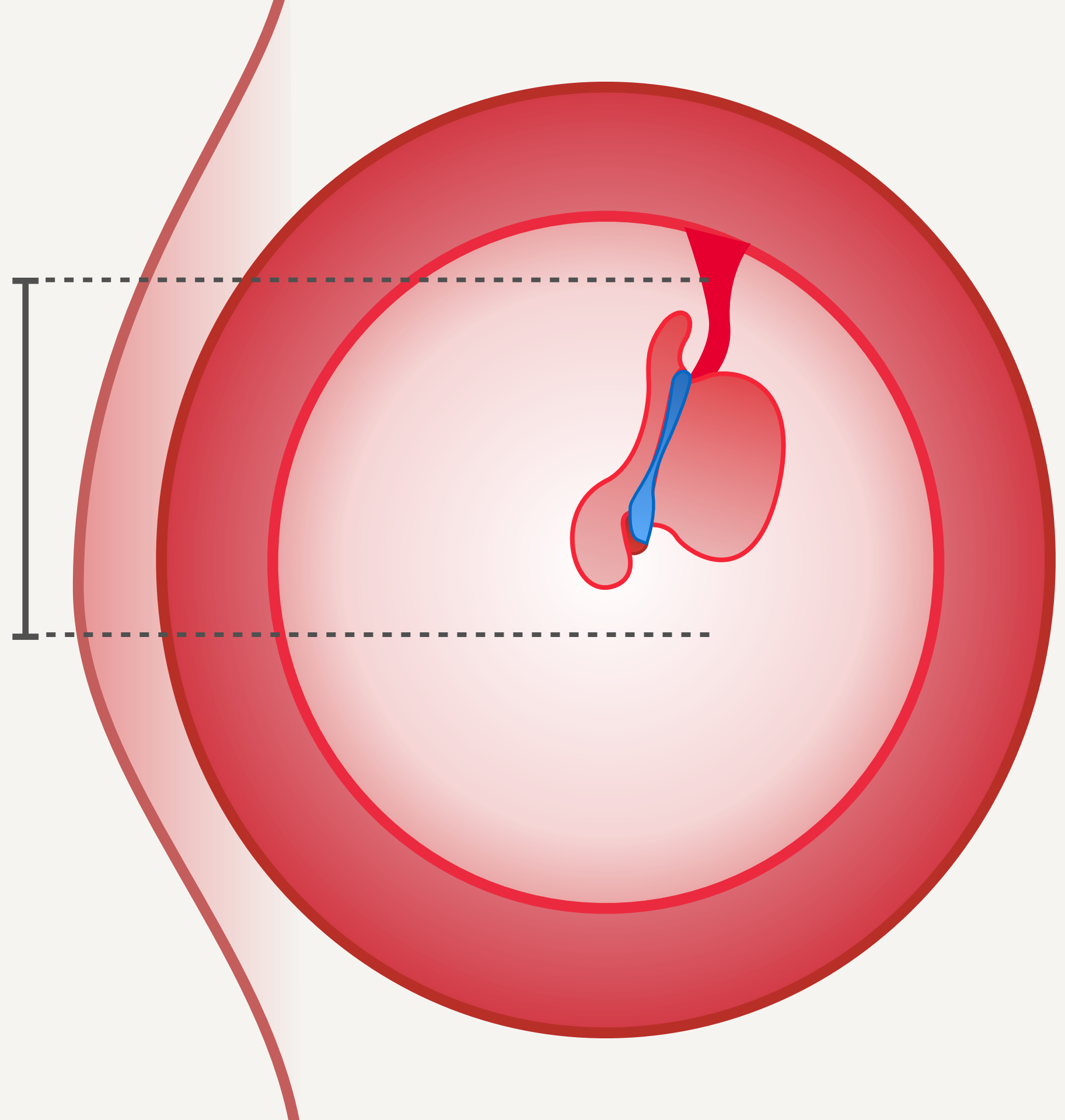


We can see the **suspension** of the embryo, during the *alaqah* stage, in the womb (uterus) of the mother.



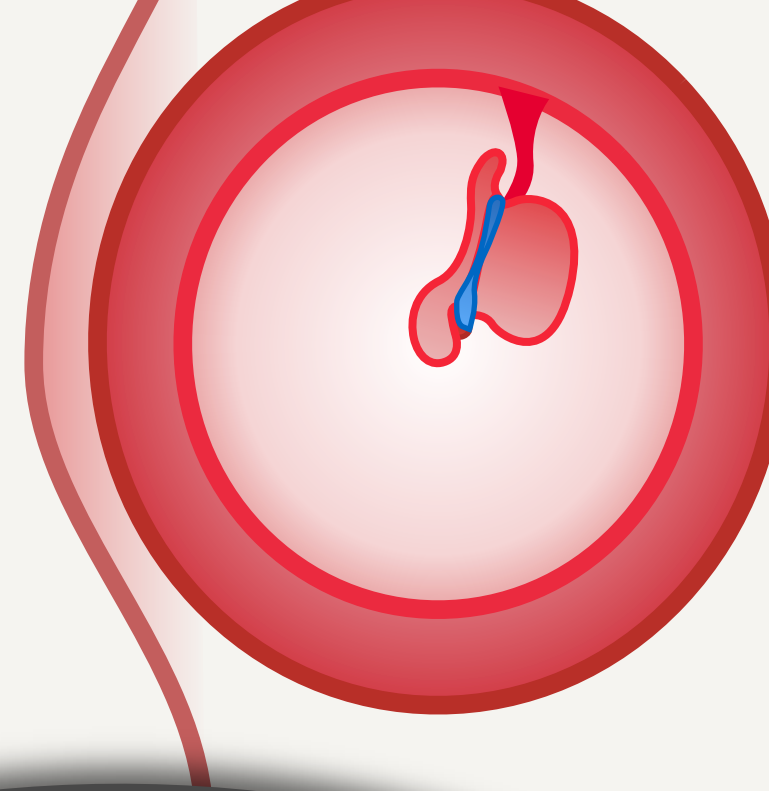


Embryo size
is **0.6mm**



Ten cents coin
size is **17mm**

Estimate comparison



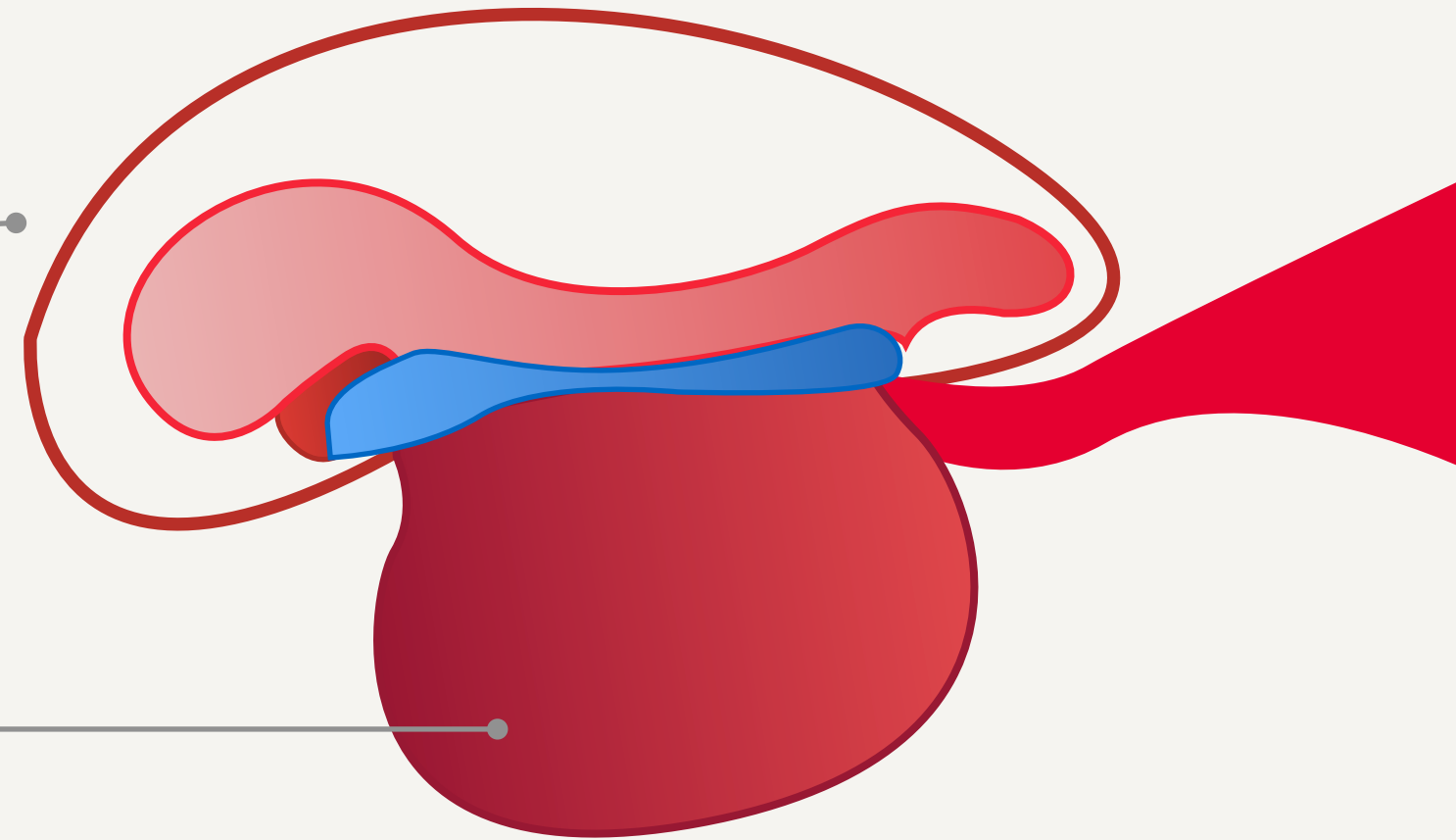
05

Similarity of a blood clot
and an embryo

We can find that the external appearance of the **embryo** and its sacs during the *alaqah* stage is similar to a blood clot.



Embryo's Sacs



large amounts of blood

Diagram of the primitive cardiovascular system in an embryo during the *alaqah* stage

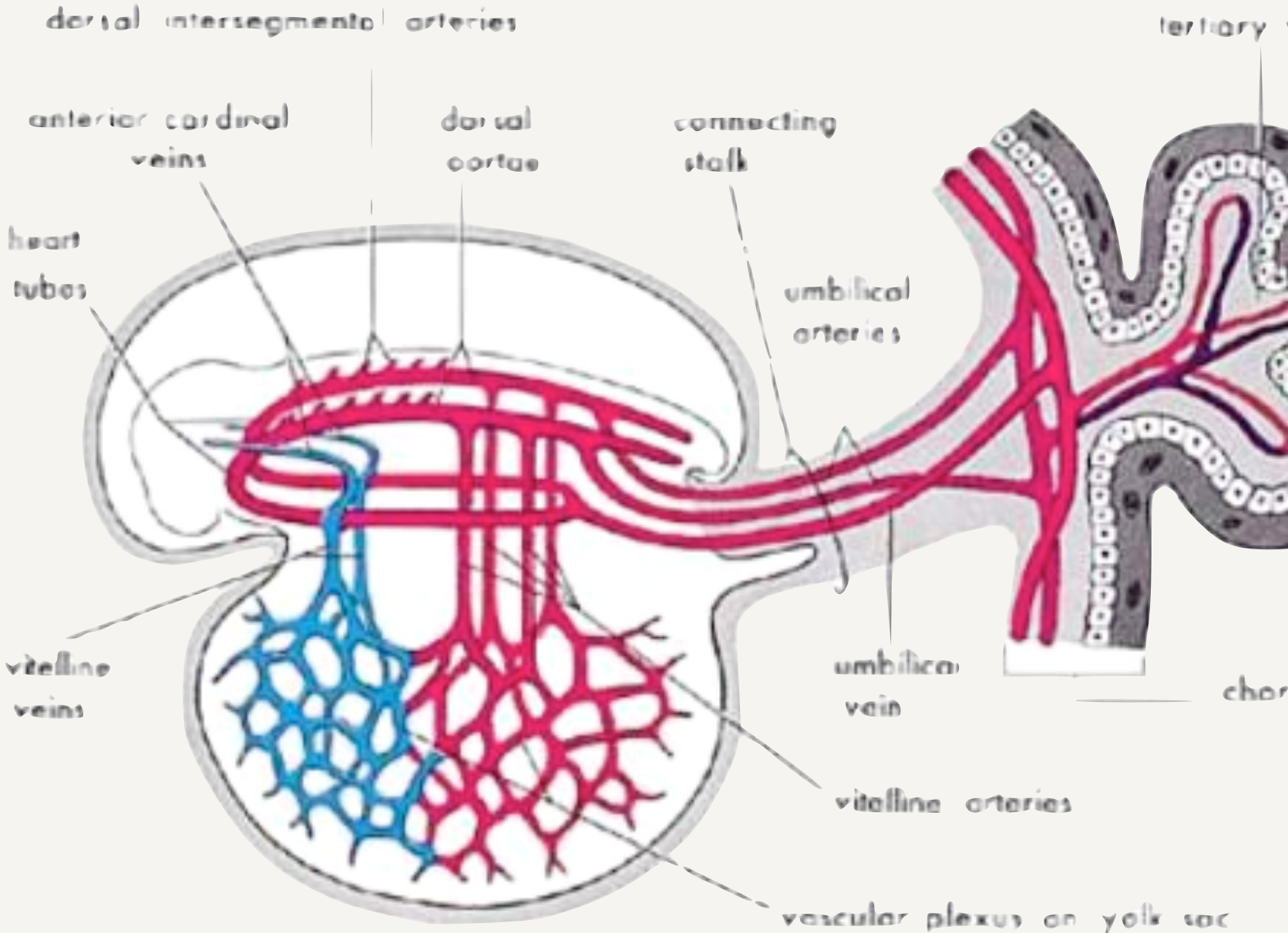


Image courtesy from the book *The Developing Human* by Dr. Moore

This is due to the presence of relatively **large amounts** of **blood** present in the embryo during this stage.



So the **three** meanings of the word *alaqah* correspond accurately to the **descriptions** of the embryo at the *alaqah* stage.

06

What is the
meaning of *Mudghah*?

**“ Then We made the drop into
an alaqah, then We made the
alaqah into a mudghah...**

Al-Quran 23:12-14

“

*Then We made the drop into
an alaqah, then We made the
alaqah into a **mudghah**...*

Arabic word *mudghah* means
“**chewed substance.**”



2-14

Professor Keith L. Moore—*Embryology professor* said:

“If one were to take a piece of gum and chew it in his or her mouth...

...and then compare it with an embryo at the mudghah stage...

...we would conclude that the embryo at the mudghah stage acquires the appearance of a chewed substance.”

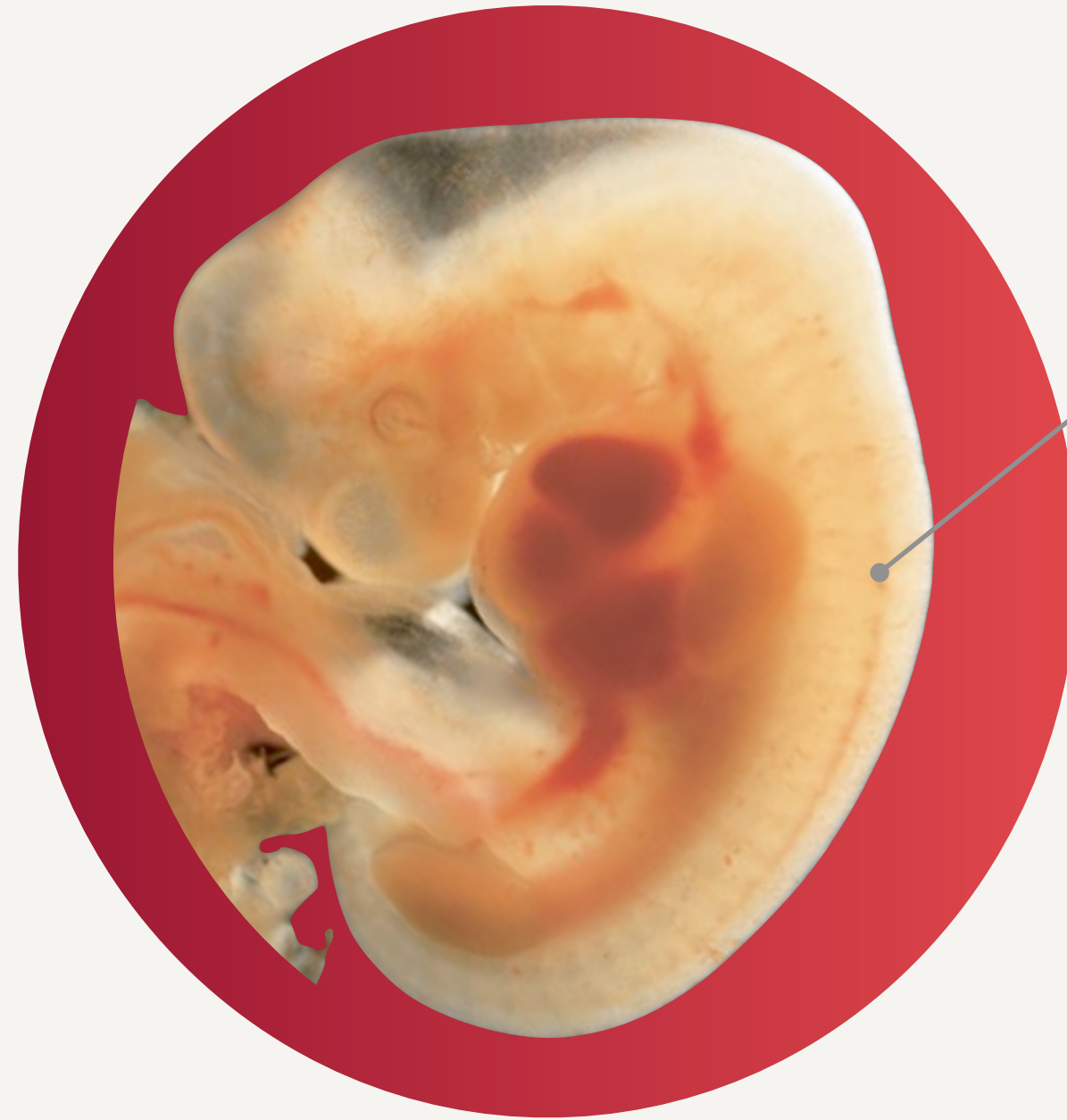
This is because of the **somites** at the back of the embryo that somewhat resemble **teethmarks** in a chewed substance.





Teethmark

Chewed bubble gum



Somites

Photograph of an embryo at the *mudghah* stage—28 days old

Did you know?

Hamm and
Leeuwenhoek were
the first scientists



Did you know?

...to observe human sperm cells using an improved microscope in **1677**.



Did you know?

It is more than **1000 years** after
Quran was sent to our Prophet

Photograph of an embryo at the *mudghah* stage—28 days old

07

Conclusion

All this knowledge
are discovered by
our prophet
Muhammad PBUH



1400

years ago



When scientists have only **recently** discovered this using advanced equipment which did not exist at that time.



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Resources

Prof Moore's talk at Seventh Medical Conference in Dammam–1981, Quran.com, IslamReligion.com, creativecommons.org,

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