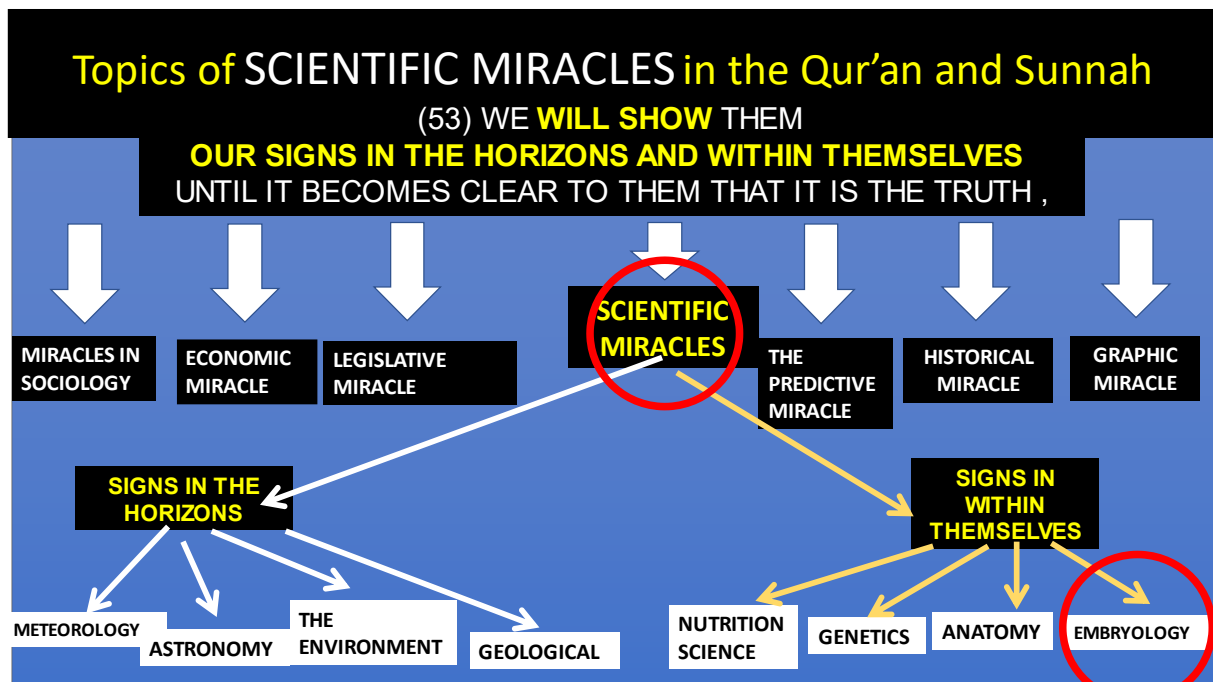


EVIDENCE THAT ISLAM IS THE TRUTH  
A BRIEF VIEW OF THE SCIENTIFIC MIRACLE IN THE HOLY  
QURAN AND THE NOBLE PROPHETIC HADITH  
(1) IN EMBRYOLOGY

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INTRODUCTION

The quran is the final revelation, and a proof, not only for the pagan arabs of 1400 years ago, but also for scientists today.

One of the most remarkable qualities of the koran, for our contemporaries, is perhaps the concordance which exists between the content of the koran and numerous discoveries of modern science.

One of the first western scientists to have carried out a serious study on the subject was maurice bucaille, author of the book the bible, the koran and science. in this work, he compares the statements relating to nature and science, in the bible and the koran. here is his conclusion :

“the koran is not only free from any contradiction in its stories, contradictions which are the sign of the different human manipulations that the different gospels have undergone, but it has a quality of its own, visible to those who desire it. examine objectively and in the light of science, namely its total concordance with the data of modern science. »

# SCIENTIFIC MIRACLES IN THE QUR'AN AND THE PROPHET'S HADITH

## IN EMBRYOLOGY

WHAT THE QURAN SAYS ABOUT HUMAN EMBRYONIC DEVELOPMENT is totally different from the theory of preformation.

The theory of preformation, also called the theory of preexistence, which was formulated in the 18th century to explain embryonic development by the deployment of pre-existing structures in the egg.

This theory has historically been opposed to that of epigenesis (mentioned by the Holy Quran and in the words of the Prophet Mohammad (ﷺ) according to which organs appear gradually during embryonic growth and are under the influence of external forces.

The theory of epigenesis is traditionally considered to have prevailed over preformationism at the end of the 19th century, with the emergence of experimental embryology.

It's from Aristotle, a philosopher from the 4th century BC, that comes the first description of the preformist hypothesis, which he already opposes to the theory of epigenesis defended by him.

For a long time, the authority of Aristotle made the hypothesis of epigenesis predominant in scientific circles.

At the end of the 17th century, the preformist theory was supported by the Church under the doctrine of preexistence and the interlocking of germs

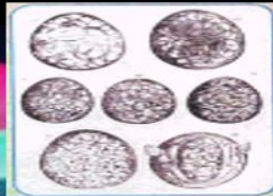
Contrary to the theory of pre-formation, which prevailed in human perception from Aristotle until around the 19th century, the Holy Quran and the sayings of the Prophet Mohammad (ﷺ), confirm that the fetus is created in stages.

They determine with great precision the stages of creation of the fetus.

**THE DWARF FETUS IS A MISCONCEPTION THAT PERSISTED AMONG WESTERNERS UNTIL THE END OF THE 19TH CENTURY.**



The fetus is born at term in the woman's egg, after discovery of the Microscope Hartsucker's drawing of the sperm whale - 1694 AD.



The fetus is born from menstrual blood Aristotle and Thales The Book of Jacob Ruef, 1554 AD



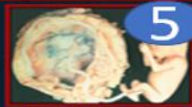
The fetus is born fully formed In the female oocyte Drawing by the artist Leonard Fancy) For the sperm Leonardo da Vinci 1511

**preformationism theory**

All 16th century knowledge of gametes and embryonic development can be traced back mainly to Hippocrates (Hippocraticum) and Aristotle (c. 385 - 322 BC).



**The Holy Quran and the words of the Prophet Mohammed (ﷺ), describe the stages of the formation of the fetus with great precision.**



**ANOTHER CREATION**

**BONES (SCLÉROTOME)**



**عظام ثم لحم**

**MUDGHAH**



**مرحلة المصغرة**



**ALAQAH (LEECH, SUSPENDED THING, AND BLOOD CLOT)**



**EGG IN THE UTERUS**

## A) THE QUR'AN AND THE PROPHET'S HADITH CONFIRM THAT THE FETUS IS CREATED FROM A MALE AND A FEMALE.

(يَا أَيُّهَا النَّاسُ إِنَّا خَلَقْنَاكُمْ مِنْ ذَكَرٍ وَأُنْثَى) س. الحجرات 13

(13) O mankind, indeed We have created you from male and female. (Surah Al-Hujurat 13)

(13) Ô hommes ! Nous vous avons créés d'un mâle et d'une femelle. (Surah Al-Hujurat 13)

(13) Os creamos a partir de un varón y una mujer. ( Surah Al-Hujurat 13)

(إِنَّا خَلَقْنَا الْإِنْسَانَ مِنْ نُطْفَةٍ أَمْشَاجٍ) [س.الإنسان: 2].

The Qur'an and Sunnah called the mixing of the sperm of the man and the woman the mixed sperm, as the first source on the subject. ( Surah Al-Insan: 2)

(يَا أَيُّهَا النَّاسُ إِنَّا خَلَقْنَاكُمْ مِنْ ذَكَرٍ وَأُنْثَى) س. الحجرات 13

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(13) Os creamos a partir de un varón y una mujer.



- The Qur'an and Sunnah called the mixing of the sperm of the man and the woman the mixed sperm, as the first source on the subject.
- The commentators defined the mixed sperm as: the mixed sperm in which the man's semen is mixed and blended with the woman's semen.

(إِنَّا خَلَقْنَا الْإِنْسَانَ مِنْ نُطْفَةٍ أَمْشَاجٍ) [س.الإنسان: 2].

الترجمة الإنجليزية- صحيح انترناشونال

(2) Indeed, We created man from a sperm-drop mixture [a combination of the male and female substance], within the womb.

الترجمة الفرنسية- محمد حميد الله

Ô hommes ! Nous vous avons créés d'un mâle et d'une femelle,

الترجمة الإسبانية للمختصر في تفسير القرآن الكريم

The commentators defined the mixed sperm as: the mixed sperm in which the man's semen is mixed and blended with the woman's semen.( Surah Al-Insan: 2)

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Ô hommes ! Nous vous avons créés d'un mâle et d'une femelle.( Surah Al-Insan: 2)

الترجمة الإسبانية للمختصر في تفسير القرآن الكريم

2. Al-lah creó al ser humano de una gota que era una mezcla del líquido de un hombre y una mujer.( Surah Al-Insan: 2)

## B) The Quran on Human Embryonic Development:

In the Holy Quran, God speaks about the stages of man's embryonic development:

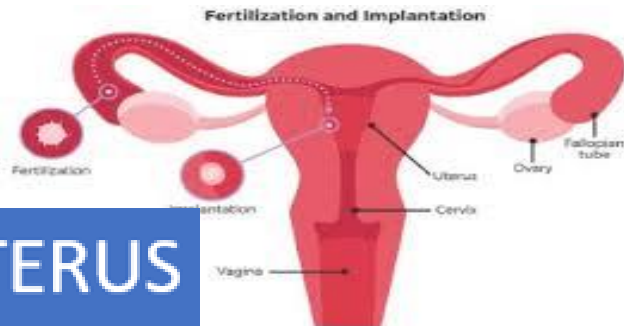
◀ We created man from an **extract of clay**. Then We made him as a **drop in a place of settlement (Egg in the uterus)**, Then **We made the egg into an *alaqah*** (leech, suspended thing, and blood clot), then We **made the *alaqah* into a *mudghah*** (chewed substance) and We made [from] the *mudghah* , **bones**, and We covered the bones with **flesh**; then We developed him into **another creation**. So blessed is Allāh, the best of creators. ➤<sup>1</sup> (Quran, 23:12-14)

## 1. THE NUTFAH AMSHAJJ STAGE

Literally, the Arabic word (nutfah amshajj) meaning an egg (Fertilized by sperm And ovum),

In the Qur'an, we find that the

### EGG IN THE UTERUS



fetus consists of both a man and a woman, and we also find that it consists of a sperm and gamete (the egg).

In the Prophet's hadith, we find that the fetus consists of: "the man's water and the woman's water."

It is a concept that humanity did not discover until the 19th and early twentieth centuries.

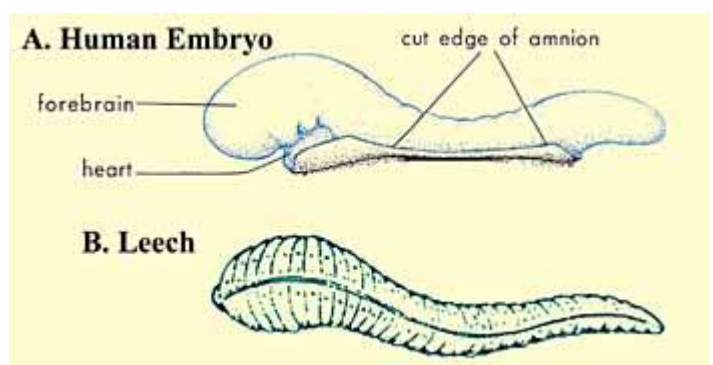
## 3. THE ALAQAH STAGE

The Arabic word alaqah has three meanings: (1) leech, (2) suspended thing, and (3) blood clot.

(1) leech,

In comparing a leech to an embryo in the alaqah stage, we find similarity between the two<sup>2</sup> as we can see in figure 1. 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.<sup>3</sup>

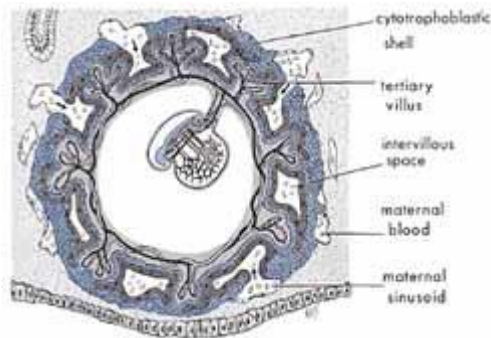
**Figure 1:** Drawings illustrating the similarities in appearance between a leech and a human embryo at the *alaqah* stage. (Leech drawing from *Human Development as Described in the Quran and Sunnah*, Moore and others, p. 37, modified from *Integrated Principles of Zoology*, Hickman and others. Embryo drawing from *The Developing Human*, Moore and Persaud, 5th ed., p. 73.)



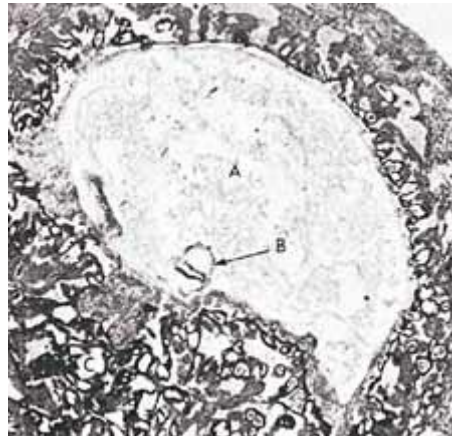
## (2) suspended thing

The second meaning of the word *alaqah* is “suspended thing.” This is what we can see in figures 2 and 3, the suspension of the embryo, during the *alaqah* stage, in the womb of the mother.

**Figure 2:** We can see in this diagram the suspension of an embryo during the *alaqah* stage in the womb (uterus) of the mother. (*The Developing Human*, Moore and Persaud, 5th ed., p. 66.) (Click on the image to enlarge it.)



**Figure 3:** In this photomicrograph, we can see the suspension of an embryo (marked B) during the *alaqah* stage (about 15 days old) in the womb of the mother. The actual size of the embryo is about 0.6 mm. (*The Developing Human*, Moore, 3rd ed., p. 66, from *Histology*, Leeson and Leeson.)

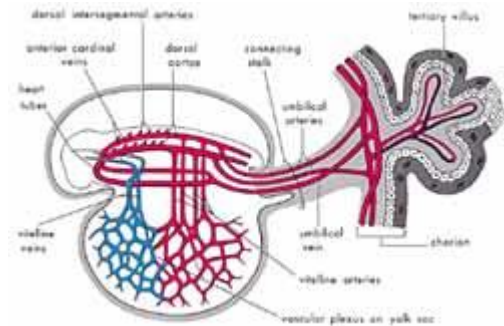


## (3) blood clot

The third meaning of the word *alaqah* is “blood clot.” We find that the external appearance of the embryo and its sacs during the *alaqah* stage is similar to that of a blood clot. This is due to the presence of relatively large amounts of blood present in the embryo during this stage<sup>4</sup> (see figure 4). Also during this stage, the blood in the embryo does not circulate until the end of the third week.<sup>5</sup> Thus, the embryo at this stage is like a clot of blood.



**Figure 4:** Diagram of the primitive cardiovascular system in an embryo during the *alaqah* stage. The external appearance of the embryo and its sacs is similar to that of a blood clot, due to the presence of relatively large amounts of blood present in the embryo. (*The Developing Human*, Moore, 5th ed., p. 65.) (Click on the image to enlarge it.)



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

## 4. THE MUDGHAH STAGE

The next stage mentioned in the verse is the *mudghah* stage. The Arabic word *mudghah* means “chewed substance.” 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.”<sup>6</sup> (see figures 5 and 6).

**Figure 5:** Photograph of an embryo at the *mudghah* stage (28 days old).

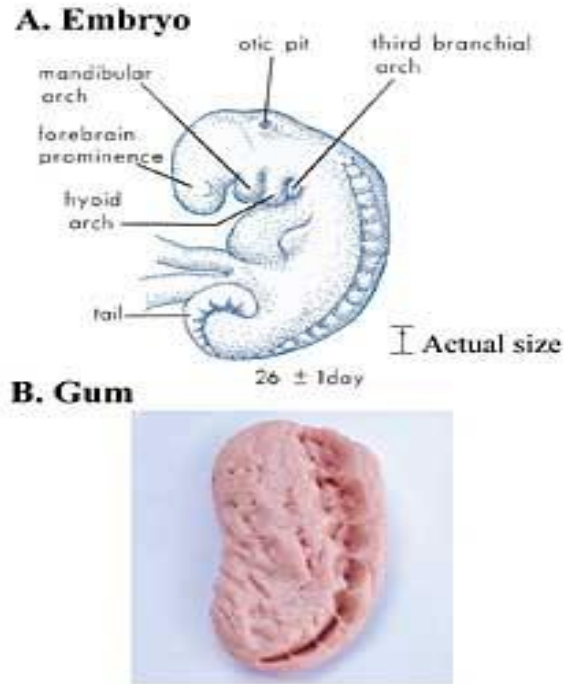


The embryo at this stage acquires the appearance of a chewed substance, because the somites at the back of the embryo somewhat resemble teeth marks in a chewed substance. The actual size of the embryo is 4 mm. (*The Developing Human*, Moore and Persaud, 5th ed., p. 82, from Professor Hideo Nishimura, Kyoto University, Kyoto, Japan.)

**Figure 6:** When comparing the appearance of an embryo at the *mudghah* stage with a piece of gum that has been chewed, we find similarity between the two.

**A)** Drawing of an embryo at the *mudghah* stage. We can see here the somites at the back of the embryo that look like teeth marks. (*The Developing Human*, Moore and Persaud, 5th ed., p. 79.)

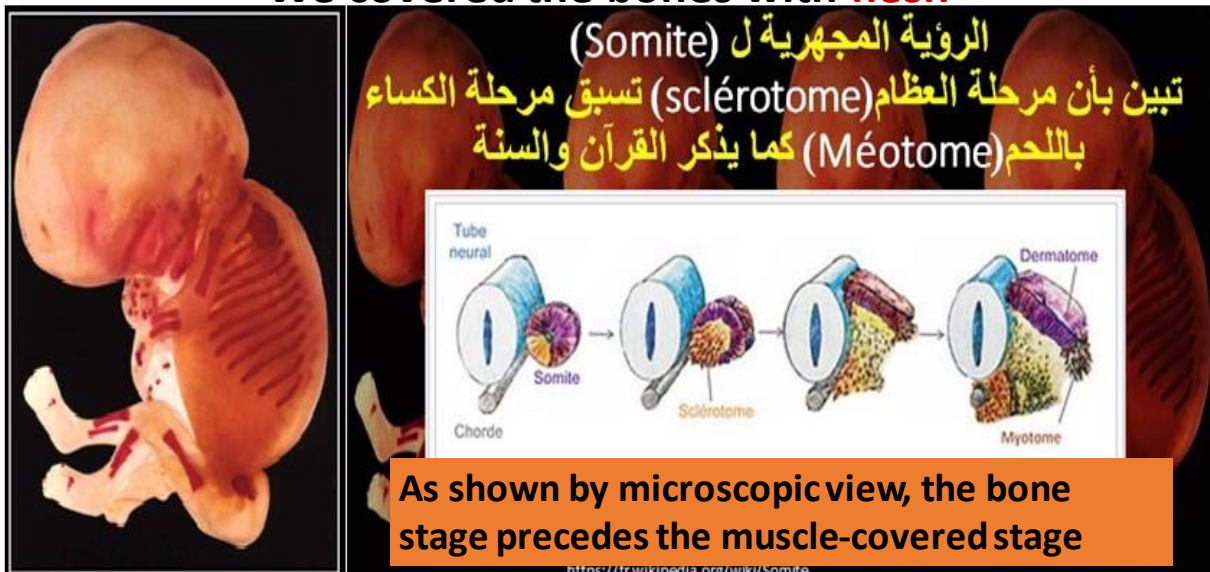
**B)** Photograph of a piece of gum that has been chewed.



## 5. THE BONES STAGE AND THEN THE MUSCLE COVERING STAGE

As shown by microscopic view, the bone stage precedes the muscle-covered stage

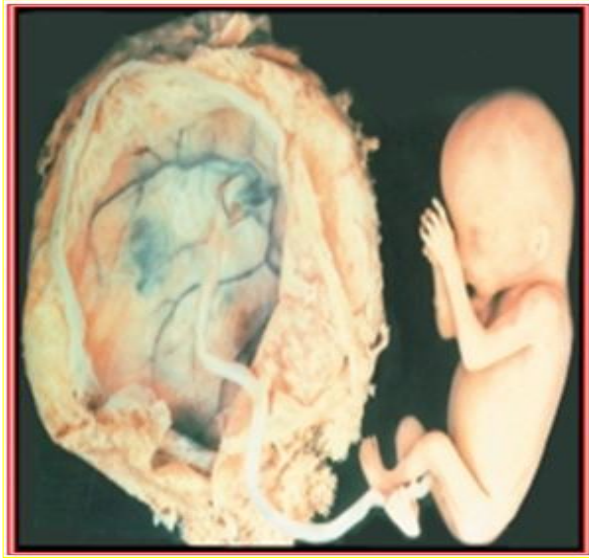
and We made [from] the *mudghah* , **bones** , and We covered the bones with **flesh**



As shown by microscopic view, the bone stage precedes the muscle-covered stage

<https://it.wikipedia.org/wiki/Somite>

## 6. THE OTHER STAGE OF CREATION (takes human form, and does not resemble the previous stages)



then We developed him into **another creation**. So blessed is Allāh, the best of creators.

How could Muhammad ﷺ have possibly known all this 1400 years ago, when scientists have only recently discovered this using advanced equipment and powerful microscopes which did not exist at that time? Hamm and Leeuwenhoek were the first scientists to observe human sperm cells (spermatozoa) using an improved microscope in 1677 (more than 1000 years after Muhammad ﷺ). They mistakenly thought that the sperm cell contained a miniature preformed human being that grew when it was deposited in the female genital tract.<sup>7</sup>

Professor Emeritus Keith L. Moore<sup>8</sup> is one of the world's most prominent scientists in the fields of anatomy and embryology and is the author of the book entitled *The Developing Human*, which has been translated into eight languages. This book is a scientific reference work and was chosen by a special committee in the United States as the best book authored by one person. Dr. Keith Moore is Professor Emeritus of Anatomy and Cell Biology at the University of Toronto, Toronto, Canada. There, he was Associate Dean of Basic Sciences at the Faculty of Medicine and for 8 years was the Chairman of the Department of Anatomy. In 1984, he received the most distinguished award presented in the field of anatomy in Canada, the J.C.B. Grant Award from the Canadian Association of Anatomists. He has directed many international associations, such as the Canadian

and American Association of Anatomists and the Council of the Union of Biological Sciences.

In 1981, during the Seventh Medical Conference in Dammam, Saudi Arabia, Professor Moore said: “It has been a great pleasure for me to help clarify statements in the Quran about human development. It is clear to me that these statements must have come to Muhammad from God, because almost all of this knowledge was not discovered until many centuries later. This proves to me that Muhammad must have been a messenger of God.”<sup>9</sup>

Consequently, Professor Moore was asked the following question: “Does this mean that you believe that the Quran is the word of God?” He replied: “I find no difficulty in accepting this.”<sup>10</sup>

During one conference, Professor Moore stated: “...Because the staging of human embryos is complex, owing to the continuous process of change during development, it is proposed that a new system of classification could be developed using the terms mentioned in the Quran and *Sunnah* (what Muhammad ﷺ said, did, or approved of). The proposed system is simple, comprehensive, and conforms with present embryological knowledge. The intensive studies of the Quran and *hadeeth* (reliably transmitted reports by the Prophet Muhammad’s ﷺ companions of what he said, did, or approved of) in the last four years have revealed a system for classifying human embryos that is amazing since it was recorded in the seventh century A.D. Although Aristotle, the founder of the science of embryology, realized that chick embryos developed in stages from his studies of hen’s eggs in the fourth century B.C., he did not give any details about these stages. As far as it is known from the history of embryology, little was known about the staging and classification of human embryos until the twentieth century. For this reason, the descriptions of the human embryo in the Quran cannot be based on scientific knowledge in the seventh century. The only reasonable conclusion is: these descriptions were revealed to Muhammad from God. He could not have known such details because he was an illiterate man with absolutely no scientific training.”<sup>11</sup>

والله تعالى أعلم

### Footnotes:

- (1) Please note that what is between these special brackets « ... » in this web site is only a translation of the meaning of the Quran. It is not the Quran itself, which is in Arabic.
- (2) *The Developing Human*, Moore and Persaud, 5th ed., p. 8.
- (3) *Human Development as Described in the Quran and Sunnah*, Moore and others, p. 36. ↑
- (4) *Human Development as Described in the Quran and Sunnah*, Moore and others, pp. 37-38.
- (5) *The Developing Human*, Moore and Persaud, 5th ed., p. 65.
- (6) *The Developing Human*, Moore and Persaud, 5th ed., p. 8.
- (7) *The Developing Human*, Moore and Persaud, 5th ed., p. 9.
- (8) Note: The occupations of all the scientists mentioned in this web site were last updated in 1997.
- (9) The reference for this saying is *This is the Truth* (videotape).
- (10) *This is the Truth* (videotape).
- (11) *This is the Truth* (videotape). For a copy, see footnote no. 9.

بين المراجع:

*Among the references*

<https://quranenc.com/ar/home>

<https://www.islam-guide.com/frm-ch1-1-a.htm>