

Why was Zuckerman's Opinion - About Oogenesis Cessation after Birth - A Wrong One? Summary of a Published Article¹

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Abstract

Criticism of science addresses problems within science in order to improve science as a whole for playing a role in propelling science and scientists forward. Scientific evidence is evidence which serves to either support or counter a scientific theory or hypothesis. In 1951 Lord Solomon Zuckerman published a paper including his opinion what many consider to be an important scientific discovery at that time. In which he proposed his personal views that: "No oogenesis continues in the ovaries of mammalian females during postnatal life (after birth) with no evidence or experiment. Such evidence is expected to help in explanation and interpretation in accordance with scientific method but Zuckerman theory has no method or evidence. Debate over Zuckerman's theory to reevaluate and to correct it, certainly will lead to the rapid acceptance of the scientific logic and sound thinking. Because, putting the specific creating process, Zuckerman proposed as such-up-to-date- is widely unacceptable either logically or scientifically. It might be revived again by my new scientific opinion that might occurred in embryological development during the process of creation which is known only to GOD. In fact in Zuckerman's opinion, none of the evidence he considered was consistent with logic or scientific basis, despite that all, scientists had accepted it blindly with no discussion or comment and rapidly became dogma. So, since that time building on Zuckerman wrong direction and wrong opinion led to wrong thinking.

Keywords: *Zuckerman's Opinion; Oogenesis Cessation*

Introduction

In 1951 Lord Solomon Zuckerman published a paper [2] including his opinion what many consider to be an important scientific discovery at that time. In his treatise Zuckerman proposed his personal views that: "No oogenesis continues in the ovaries of mammalian females during postnatal life (after birth)".

In fact in Zuckerman's opinion, none of the evidence he considered was consistent with logic or scientific basis, despite that all, scientists had accepted it blindly with no discussion or comment and rapidly became dogma. This wrong opinion remained unchallenged until recent years [1,8]. Despite the fact that Zuckerman did not offer a single experiment proving that adult female mammals are incapable of oogenesis. His view had based solely on an absence of data and there was no experiment or scientific evidence. As he had admitted before his death. That is why Carl Sagan has the immortal words (of Martin Rees): an "absence of evidence is not evidence of absence".

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Now, after these decades, one asks himself, perhaps, when Zuckerman Being a lord no one dared to criticize this obvious wrong and illogical opinion, even before having any laboratory experiment, because this proposal needs no experiment to prove its error. Of serious issues in the journey of science and scientific life, is the false claim and lying of scientists with the name of science. as for example, the Korean scientist who claimed that he had cloned human beings [3].

There is a difference between trying and making mistakes and claiming that you have tried and got results while you are lying and giving a fabricated results. The main road of science is honesty and faith.

So, since that time building on Zuckerman wrong direction and wrong opinion led to wrong thinking based on his wrong view, which influenced the process of research and experimentation and the direction of science in this field and the scope of embryology. Now, this wrong opinion of Zuckerman reignited a vigorous debate that first began more than 60 years ago. My purpose here is to propose my opinion and call all scientists in this field again, to put this opinion aside and away, and to start studying this matter again with a new view forgetting all words delivered by Zuckerman.

What is known about oogenesis?

The embryological textbooks (based on old doctrine) had mentioned that the females in their fetal life having about two millions of primary oocytes in their ovaries [4]. Most regress during their childhood so that by adolescence only about 40,000 cells remain, of these only approximately 400 become secondary oocytes and are expelled at ovulation during reproductive period [4].

Points from already published opinion of the author [1]

Fortunately, Zuckerman during his life, had admitted that he did not offer a single experiment proving that adult female mammals are incapable of oogenesis after birth. Why is there a controversy about non-production of oocytes after birth as Zuckerman stated?

The author thinks that the strongest evidences indicating that the previous proposals were unsuccessful, unconvincing and illogical are:

- 1- Firstly, because Zuckerman himself had admitted that he was having no evidence.
- 2- It was illogical supposition (belief) of Zuckerman that there is no oocytes production after birth because this interpretation against dynamic of life and development of human being. The growth and division of cells are the main features of all organisms including humans. The continuing production of new oocytes is one these human features. The author asks the biologists: how could cells (oocytes) be created, divided and developed at the beginning of fetal life and stop division or production suddenly at the seventh month of fetal life and continuing this cessation after birth while every cell in the body is continuing division, growth in the race of development?

So, if this proposal of Zuckerman is true (which is not so) Logically the age of primary oocytes and - in-depth - after birth - must be the same and static as in fetal life (not more than 7 months) because there is no production after birth and they stay dormant and latent as biologists stated in their textbooks.

How can these primary oocytes remain dormant-after birth- for years of life with the same static age (7 months), and then they may wake up after more than twelve years (age of puberty), and a number of them (group of them have been selected with unknown way and mechanism) (12 - 1000 primary oocytes) begin the process of division and one only ovulated, while others (40000 - 700000) still dormant.

- 3- Illogical total number of oocytes and a big mistake in estimating and calculating these oocytes. Some embryologists wrote one million and others said it reached seven millions. This huge, wrong number leading to mistrusted results.

- 4- Unsuccessful explanation of embryologists for the primary oocytes division at puberty period and the beginning of monthly ovarian cycle. They stated that after birth and at puberty the Primary oocytes after their dormant and suspended prophase they completed their division and before ovulation (36 - 48) hours the secondary oocytes enter to metaphase stage and arrested to be completed after fertilization. And they had related this long dormant to occurrence of chromosome 21 disorder (trisomy 21) and down syndrome [5].

How could we say that at puberty the ovum matured and ovulates, but we did not remember what happened during these years (infancy - puberty)? Because these ova are not growing and maturing suddenly, but they have entered the process of development and growth since fertilization (with all stages) till maturity (puberty).

The process of mitosis continues until we were born and continues until we were grown up. No one knows when do cells stop growing. Nobody knows exactly how much you will grow. And What causes the human body to grow.

- 5- Growth is a fundamental characteristic of humans. It is Unequivocal that cells have programmed by The creator (The God) and the growth is going in different stages (phases), from zygote, Neonate, infant, up to full maturity. Every stage (period) has its own requirements and time (age).

Nothing happens outside time except the God miracle of cavemen. Allah says: (So We cast [a cover of sleep] over their ears within the cave for a number of years [6]. And Allah says: (And they remained in their cave for three hundred years and exceeded by nine [5]. Everything on the earth's surface has a time's brand (obvious or hidden).

- 6- Again, It is clear that there is a jump on the time (period, age), when the scientists stated that the oocytes after birth remain in dormant or suspended status till the puberty or menopausal age. How could these cell be out of time with no growth?

In human body, the growth includes all the organs, tissues and cells. Please Look to these samples and examples of growth whatever the function of organ is:

- a) The thymus glands starts development in infancy and childhood. After puberty it starts to slowly shrink and become replaced by fat.
- b) The growth of the bone (faster), starting by ossification centers (fetal life and to ending in full maturity).
- c) The growth of the teeth starting with milk teeth in infancy and ending with the last one wisdom teeth (third molar) of the permanent teeth.
- d) The disappearance of RBCs nuclei after their maturity.

The growth and division of cells are important of almost all organism including humans. Naturally Ovaries are continually producing new eggs as the organ has this ability to producing. Who is able (from scientists) to prove that there is no division, no growth, and no production after birth.

Conclusion

After reviewing these proposals The author concluded:

- 1- There is a continual production of new oocytes till the decline of normal physiology of the human female body (menopausal), surprising that a woman aged 72 year, had got pregnant in USA as the news stated and other one in Lebanon aged 52 years. The continual production of oocytes is still of unknown origin to researchers but definitely there is programmed self-creating and production of these new egg cells from ovaries – but not stem cells - never mentioned before.
- 2- The human body has an integral and complex physiology, so the previous false proposal (non-production of oocytes after birth), reflected itself in studies and results of scientists and their misinterpretation in giving terms and words which did not represent the main concept such as: dormant primary oocytes, suspended prophase, atretic oocytes in fetal ovaries.....etc.

- 3- The egg cells (oocytes) created and produced in their ovaries. It is the only factory for this production. The factory of airplanes never produced cars.
- 4- Unability to (observing) the continuity of creation and growth of new egg cells does not consider an evidence against the presence and production of egg cells in ovaries. Because it may be a secret and mystery of God Allah says: (I did not make them witness to the creation of the heavens and the earth or to the creation of themselves, and I would not have taken the misguiders as assistants [7]).

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