
By: Zhang, Mark Keywords: human embryos [2]


Nilsson, born in Sweden in 1922, worked as a photojournalist since the mid-1940s. Using instruments with macro-lenses and wide-angled lenses, Nilsson photographed human fetuses. Nilsson published those images both in Life's cover article “Drama of Life before Birth” in 1965 and in A Child Is Born a few months later.


The first nine chapters focus on biological facts before and during conception [6]. The authors first focus on the sperm [8] and on the egg [9], they display several microscopic images of the sperm [8] and the egg [9]. They also show photographs of the cervical mucus, or fluid secreted by the uterus [10] that the sperm [8] must penetrate to fertilize the egg [9]. In those introductory chapters, the authors discuss the menstrual cycle, genetic mechanisms of how both parents' genes [11] give rise to characteristics in offspring, and how conception [6] occurs.

In the following six chapters, the authors follow the progression of pregnancy [4] from week one through week eight, when an embryo becomes a fetus [5]. The authors use photographs and illustrations to explain how the embryo first begins to divide and how it embeds itself into the lining of the uterus [10]. The authors also discuss the similarities and differences between human embryos and fish [12] embryos.

In the remaining sixteen chapters, the authors record the growth of the fetus [5] until the birth of the child. In those chapters, the authors depict photos of the fetus [5]'s developing blood, face, hands, feet, eyes, and hair. The photographs that Nilsson uses are some of the first pictures to show such details of the fetus [5] in utero. In addition, chapters containing maternity advice intersperse those biological explanations. Sections titled “First Visit to the Doctor” and “Waiting” document the advice that many doctors give to mothers and they seek to dispel myths surrounding pregnancy [4]. The authors inform the reader of the tests that pregnant women take, possible complications that may arise from pregnancy [4], and they give general advice such as which gymnastic exercises are best to practice for preparation. The book finishes with the chapters “Delivery” and “After Birth,” in which the authors summarize the actual birth process, and they include photographs of the first moments in a baby's life.

The first edition of A Child Is Born sold more than a million copies, suggesting its wide appeal. The book underwent five editions, with an edition appearing in 2009. Critics praised later editions as an apt educational tool for both expectant parents and for professionals. Nilsson continued to work on other projects relevant to developing embryos and fetuses, including filming “Miracle of Life,” a 1983 episode in Nova, a popular science TV series, that won several Emmy Awards.

Nilsson's use of photographs to educate the public about embryos and fetuses contributed to the escalating debate over abortion [13] in the early 1960s. Specifically, one of Nilsson's photographs, which appeared on the cover of Life magazine in 1965, focused much public attention on embryos and fetuses rather than on pregnant women.

A Child Is Born was not the first book to document the development of human embryos and fetuses, but it is among the first works that use photographs. Furthermore, some critics hailed it as being the first book to focus substantially on the growth of the fetus [5]...
and embryo, as opposed to the pregnant woman.

Sources


Subject

Topic
Outreach [31] Publications [32]

Publisher
Arizona State University. School of Life Sciences. Center for Biology and Society. Embryo Project Encyclopedia.

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