The study aims to evaluate the cost-effectiveness of the current antenatal care provided by the nurse. A descriptive observational study was conducted in AL-Hadba Primary Health Care Center in Mosul city from the 1st of March to the 30th of April 2004. The study include two groups: the first (group A) examines by the doctor only (antenatal care with out nurse). The doctor completed all information on the pregnant assessment card and physical examination for (100 women) measuring the time need by the Doctor to complete this information in the first and follow up visit which was (2-7) min, while in the Second (Group B) in antenatal care unit the investigator completed the information of pregnant card, gave advice and prepared (50 pregnant women) for physical examination. The time needed for the nurse to complete the information of pregnant card was (2-7) min. The study indicates non significant differences in the information gained by both the doctor and the nurse, but the time spent by the nurse could compensate that needed by the doctors for better services and (full pregnant assessment and health education). Aiming at reducing the complications such as hypertension, which is most prevalent, is one example of the cost–effectiveness of the sequel for missing a case of hypertension that will may be end in Caesarean Section. In conclusion, antenatal care should be appointed to a specialized nursing college graduate. Nurse should be appointed in every antenatal care.