

Pregnancy of Uncertain Viability (initial)) (Guidance for management of Pregnancy of Uncertain Viability (initial) based on transvaginal US)

Determining the viability of a pregnancy is crucial and the criteria are complex and vary depending on whether a patient has had an ultrasound earlier in the pregnancy. Therefore, this condition is addressed in two modules, this one representing an initial examination and another, representing a follow-up study. Criteria to enter include whether an embryo is present, the time since the last menstrual period, the presence and size of a yolk sac, the mean gestational sac diameter, the crown-rump length and whether a heartbeat is visible. This module is based on a multispecialty consensus, established at the Society of Radiologists in Ultrasound conducted in 2012.

(Ref: Doubilet PM, et al. Diagnostic Criteria for Nonviable Pregnancy Early in the First Trimester. N Engl J Med. 2013 Oct 10;369(15):1443-51.)

Table 2. Guidelines for Transvaginal Ultrasonographic Diagnosis of Pregnancy Failure in a Woman with an Intrauterine Pregnancy of Uncertain Viability.*	
Findings Diagnostic of Pregnancy Failure	Findings Suspicious for, but Not Diagnostic of, Pregnancy Failure†
Crown-rump length of ≥ 7 mm and no heartbeat	Crown-rump length of < 7 mm and no heartbeat
Mean sac diameter of ≥ 25 mm and no embryo	Mean sac diameter of 16–24 mm and no embryo
Absence of embryo with heartbeat ≥ 2 wk after a scan that showed a gestational sac without a yolk sac	Absence of embryo with heartbeat 7–13 days after a scan that showed a gestational sac without a yolk sac
Absence of embryo with heartbeat ≥ 11 days after a scan that showed a gestational sac with a yolk sac	Absence of embryo with heartbeat 7–10 days after a scan that showed a gestational sac with a yolk sac
	Absence of embryo ≥ 6 wk after last menstrual period
	Empty amnion (amnion seen adjacent to yolk sac, with no visible embryo)
	Enlarged yolk sac (> 7 mm)
	Small gestational sac in relation to the size of the embryo (< 5 mm difference between mean sac diameter and crown-rump length)

* Criteria are from the Society of Radiologists in Ultrasound Multispecialty Consensus Conference on Early First Trimester Diagnosis of Miscarriage and Exclusion of a Viable Intrauterine Pregnancy, October 2012.

† When there are findings suspicious for pregnancy failure, follow-up ultrasonography at 7 to 10 days to assess the pregnancy for viability is generally appropriate.