

Veeck Classification

G1	G2	G3a	G3b	G4	G5
					
Blastomere: equality Fragment: No	Blastomere: equality Fragment: A little	Blastomere: inequality Fragment: No	Blastomere: inequality Fragment: A little	Blastomere: inequality Fragment: Numerous	Fragment: More than half

Gardner Classification

1. an early blastocyst	2. a blastocyst	3. a full blastocyst	4. an expanded blastocyst	5. a hatching blastocyst	6. a hatched blastocyst
					
Trophectoderm	A: many cells forming a cohesive epithelium  A: tightly packed, many cells	B: few cells forming a loose epithelium  B: loosely grouped, several cells	C: very few large cells  C: very few cells		
Inner Cell Mass					

Figure S1. Veeck and Gardner classifications. Veeck Classification: Grading is performed based on the blastomeres' uniformity and the amount of fragments, as shown in the figure. Gardner classification: The percentage of blastocyst formation is determined, and each blastocyst is assigned a score using this classification. Briefly, blastocysts were given a numerical score from 1 to 6 based on their degree of expansion and hatching status, as follows: 1, an early blastocyst with a blastocoel that is less than half of the embryo's volume; 2, a blastocyst with a blastocoel that is half of or greater than half of the embryo's volume; 3, a full blastocyst with a blastocoel that is filling the embryo; 4, an expanded blastocyst with a blastocoel volume larger than that of the early embryo, with a thinning zona; 5, a hatching blastocyst with the trophectoderm starting to herniate through the zona; and 6, a hatched blastocyst, where the blastocyst has completely escaped from the zona. For blastocysts graded as 3–6 (i.e., full blastocysts onward), the inner cell mass development was assessed as follows: A, tightly packed, many cells; B, loosely grouped, several cells; or C, very few cells. The trophectoderm was assessed as follows: A, many cells forming a cohesive epithelium; B, few cells forming a loose epithelium; or C, very few large cells.

Table S1. Study of the effect of age on pregnancy, live birth, and miscarriage rates in each of the outcomes of single blastocyst transfer.

Data Basis	Pregnancy+	Pregnancy-	SMD
Age of cases at first embryo transfer	34.6	36.6	0.459
Age of cases with embryo transfer up to the second	34.6	37.6	0.729
Data Basis	Live birth acquisition cases	No live birth acquisition cases	SMD
Age of cases with embryo transfer up to the second	34.0	37.3	0.846
Data Basis	Miscarriage case	No miscarriage cases	SMD
Age of cases with embryo transfer up to the second	36.8	35.2	-0.328

SMD (Standardized Mean Difference) of age in single blastocyst transfer cases.