

**Supplementary table 1: Patient demographics (deliveries of twins).**

	<b>0 CL</b>	<b>1 CL</b>	<b>Multiple CL non-IVF</b>	<b>Multiple CL IVF</b>
n	8	3	10	7
Median Participant Age	37.0	36.6	38.1	35.6
Range	32.3-45.3	35.5-39.4	28.4-38.7	35.4-42.7
Participant Race				
Asian	3	2	4	3
African American				1
White	5		6	3
Other		1		
Median Partner Age	44.5	37.5	38.6	37.2
Range	32.0-46.9	35.6-38.4	29.2-55.5	35.4-45.2
Partner Race				
Asian	2	3	3	2
African American	1			
White	5		5	5
Unknown			2	

**Supplementary table 2:** Hormone levels of pregnancies with deliveries of twins (median, 25th and 75<sup>th</sup> percentile).

	<b>0 CL</b>	<b>1 CL</b>	<b>Multiple CL non-IVF</b>	<b>Multiple CL IVF</b>	<b>p- value</b>
n	8	3	10	7	
Relaxin (pg/ml)	n.d.	121.0 (104.0, 181.5)	401.5 (226.9, 620.0)	1108.0 (375.0, 1403)	<0.001
Progesterone (ng/ml)	5.2 (4.4, 10.2)	25.7 (20.9, 39.3)	39.2 (32.6, 50.8)	78.2 (52.5, 161.0)	<0.001
Estradiol (pg/ml)	229.8 (189.4, 295.5)	358.0 (323.0, 374.0)	247.5 (172.0, 320.0)	861.0 (765.5, 1387.0)	0.02

n.d.: not detectable

**Supplementary table 3:** Concentrations of serum electrolytes and other parameters in pregnancies with twins (median, 25<sup>th</sup> and 75<sup>th</sup> percentile).

	<b>0 CL</b>	<b>1 CL</b>	<b>Multiple CL non-IVF</b>	<b>Multiple CL IVF</b>	<b>p- value</b>
n	7	2	7	5	
Glucose mg/dL	93.0 (84.0, 95.5)	100.5 (97.3, 103.8)	87.0 (77.0, 96.0)	95.0 (84.0, 99.0)	0.68
BUN mg/dL	11.0 (9.5, 12.5)	10.0 (10.0, 10.0)	9.0 (8.5, 11.5)	12.0 (10.0, 14.0)	0.52
Ca <sup>2+</sup> mg/dL	9.2 (9.2, 9.5)	9.7 (9.7, 9.8)	9.5 (9.4, 9.6)	9.7 (9.6, 10.1)	0.20
Creatinine mg/dL	0.9 (0.8, 10)	0.6 (0.5, 0.7)	0.6 (0.6, 0.7)	0.6 (0.6, 0.7)	0.09
Na <sup>+</sup> mmol/L	140.0 (137.5, 142.5)	139.5 (139.2, 139.8)	137.0 (136.5, 140.5)	141.0 (138.0, 151.0)	0.56
K <sup>+</sup> mmol/dL	4.5 (4.3, 4.8)	4.7 (4.7, 4.8)	4.6 (4.3, 4.8)	4.6 (4.5, 5.6)	0.67
Cl <sup>-</sup> mmol/dL	103.0 (102.5, 103.0)	105.5 (105.2, 105.8)	104.0 (101.5, 105.5)	108.0 (106.0, 115.0)	0.07
tCO <sub>2</sub> mmol/L	30.0 (30.0, 31.5)	28.0 (27.5, 28.5)	28.0 (27.5, 28.0)	30.0 (29.0, 31.0)	0.03