

Table 2. Studies Describing Neonatal and Maternal Clozapine Concentrations as Well as Clozapine Concentrations in Breast Milk

First author and year of publication	Number of mothers (number of pregnancies)	Maternal CLZ concentrations (mean ng/mL)					Amniotic fluid concentration (ng/mL)	Umbilical cord concentration (ng/mL)	Concentration in breast milk (ng/mL)	Neonatal concentration (ng/mL)	
		Pre-pregnancy	1st Trimester	2nd Trimester	3rd Trimester	Since delivery					
Nguyen 2020 ²⁹	N = 3 (3)	#	Day 50: M1: ± 200 M2: ± 200 M3: #	Day 100: M1: # M2: # M3: ± 300 and ± 200	Day 200: M1: ± 800 M2: # M3: ± 200 Day 250: M1: # M2: ± 300 M3: ± 500 Day 260: M1: # M2: # M3: ± 300	Day 0: M1: ± 500 M2: ± 200 M3: ± 800 Day 10: M1: ± 1,400 M2: # M3: #	#	#	#	#	
Westin 2018 ¹⁷	N = 4 (4)	418.6	399.7	358.8	322.1	#	#	#	#	#	
Imaz 2018 ³⁰	N = 3 (4)	#	#	#	#	Day 0: M1: CLZ: 198 NorCLZ: 200 M2: CLZ: 122 NorCLZ: 79 M3-1: CLZ: 194 NorCLZ: 114 M3-2: CLZ: 148 NorCLZ: 149	M1: CLZ: 61 NorCLZ: 39 M2: CLZ: # NorCLZ: # M3-1: CLZ: 67 NorCLZ: 52 M3-2: CLZ: # NorCLZ: #	M1: CLZ: 77 NorCLZ: 56 M2: CLZ: 68 NorCLZ: 26 M3-1: CLZ: 113 NorCLZ: 42 M3-2: CLZ: 67 NorCLZ: 32	#	Concentrations derived from Figure 1³⁰: M1 0 hours post-delivery: CLZ: 78 NorCLZ: 52 M1 ± 12 hours post-delivery: CLZ: 40 NorCLZ: 38 M1 ± 80 hours post-delivery: CLZ: 12 NorCLZ: 18 M1 ± 280 hours post-delivery: CLZ: 10 NorCLZ: 15 M1 T _{1/2} : CLZ: 99 hours NorCLZ: 161 hours M2: CLZ: # NorCLZ: # M2 T _{1/2} : CLZ: # NorCLZ: # M3-1 0 hours post-delivery: CLZ: 115 NorCLZ: 42 M3-1 ± 50 hours post-delivery: CLZ: 110 NorCLZ: 38 M3-1 ± 245 hours post-delivery: CLZ: 20 NorCLZ: 20 M3-1 T _{1/2} : CLZ: 71 hours NorCLZ: 187 hours M3-2 0 hours post-delivery: CLZ: 68 NorCLZ: 32 M3-2 ± 75 hours post-delivery: CLZ: 30 NorCLZ: 22 M3-2 ± 245 hours post-delivery: CLZ: 18 NorCLZ: 10 M3-2 T _{1/2} : CLZ: 107 hours NorCLZ: 131 hours M2 Day 2 (33 hours postpartum) CLZ infant/maternal plasma concentration ratio: 6.5%, under mixed breastfeeding.	
Coston 2012 ³⁸	N = 1 (1)	#	#	#	#	#	#	#	#	Day 4: CLZ: 54	
Moreno-Bruna 2012 ³⁹	N = 1 (1)	#	At 2 months pregnancy: CLZ: 370 NorCLZ: 215	#	#	#	#	#	#	Day 5: CLZ: 103 NorCLZ: 47 Day 8: CLZ: 45 NorCLZ: 26	
Klys 2007 ⁴²	N = 1 (1)	#	#	#	#	#	#	#	#	1 day after admission: Postmortem blood: CLZ: 7,300 NorCLZ: 2,600 CLZ- <i>N</i> -oxide: 500 Liver: CLZ: 28,000 NorCLZ: 17,100 CLZ- <i>N</i> -oxide 31,100 Kidney: CLZ: 10,100 NorCLZ 6,100 CLZ- <i>N</i> -oxide 5,800	
Barnas 1994 ⁵⁷	N = 1 (1)	#	38–55 ^a		15.4	Day 0: 14.1 Day 1: 14.7 Day 7: 41.4	11.6	#	Day 1: 63.5 Day 7: 115.6	Day 0: 27	

^aArticle does not distinguish between first and second trimester and only mentions this plasma concentration range as measured when the mother used 100 mg/d. This dose regimen was used during the first 2 trimesters.
#No information.

Abbreviations: CLZ = clozapine, M1 = mother 1 (and so on), M2-1 = mother 2, pregnancy 1 (and so on), NorCLZ = norclozapine.