

Supplement

Supplemental table 1. Daily pump frequency of individual participant

Participants	Day postpartum						
	10	15	16	17	18	19	20
C01		8	8	8	8	8	8
C02	5	5	4	3	3	4	4
C04		6	5	6	5	5	5
C06	7	7	6	7	6	7	7
C07		4	5	4	5	4	5
C08		4	4	5	4	5	3
C10	6	6	6			6	6
C11	6	6	6	6	6	6	6
C13	7	8	7	7	7	6	6
C16	6	6	6	6	6	5	5
C17	7	7	7	6	6	6	6
C18	8	6	6	5	5	6	6
C19	7	7	6	7	5	6	6
C20	6	5	5	6	5	5	6
C22	6	7	7	7	6	7	7
C24	7	7	6	6	6	6	6
C26	6	6	3				
C29	7	6	7	7	6	7	6
C30		5	6	5	6	6	6
C31	7	8	9	7	7	7	7
C33	7	7	7	7	7	7	
C34	7	6	6	5	4	5	5
C35	8	8	7	7	7	7	7
C37	7	6	7	6	6	7	6
C38		7	7	6	6	7	7

23 participants are expressing simultaneously and 2 participants are expressing sequentially. A participant attempts to breastfeed for one session on day 17 postpartum.

Model fitting parameters and diagnostics

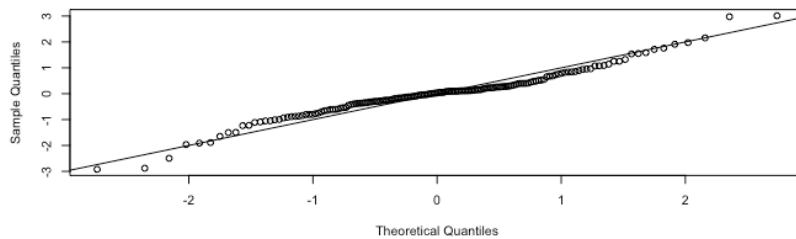
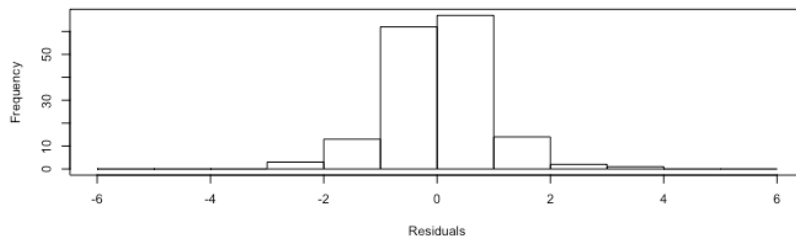
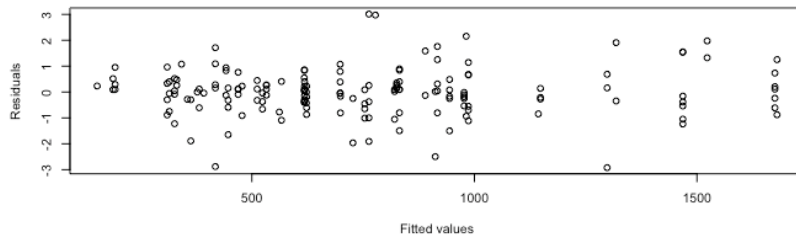
Model 1 – Daily milk volume ~ pumping frequency

		Estimate	Std.Error	DF	t-value	p-value
(Intercept)		554.10	98.08	131	5.65	0.000
Frequency	4	4.73	61.25	131	0.08	0.939
	5	174.75	60.51	131	2.89	0.005
	6	229.35	63.36	131	3.62	0.000
	7	224.57	67.03	131	3.35	0.001
	8	253.30	80.29	131	3.15	0.002
	9	184.02	123.99	131	1.48	0.140

Frequency- pumping frequency

Estimate- mean difference estimates of daily milk volume of different pumping frequency in relation to pumping frequency of 3.

Diagnostics plot of Model 1



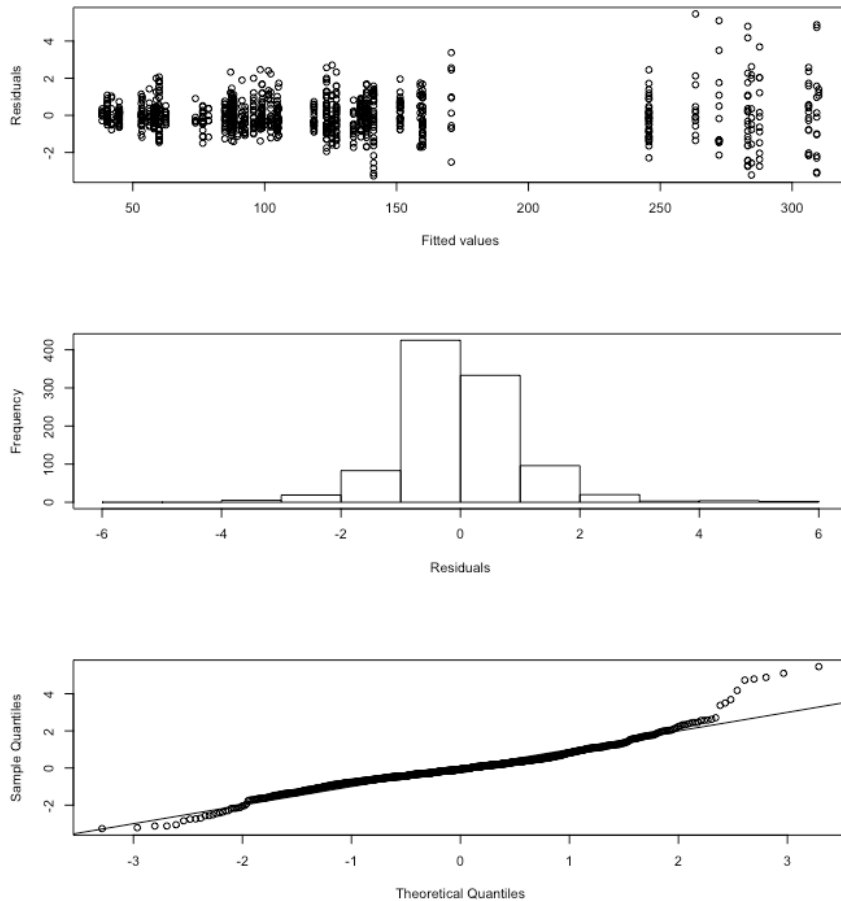
Model 2 – Milk volume per expressions ~ pumping frequency

		Estimate	Std.Error	DF	t-value	p-value
(Intercept)		169.09	18.67	959	9.06	0.000
Frequency	4	-22.46	12.28	959	-1.83	0.068
	5	-25.52	11.91	959	-2.14	0.032
	6	-36.42	12.27	959	-2.97	0.003
	7	-54.09	12.67	959	-4.27	0.000
	8	-60.58	13.94	959	-4.35	0.000
	9	-72.14	18.18	959	-3.97	0.000

Frequency- pumping frequency

Estimate- mean difference estimates of daily milk volume of different pumping frequency in relation to pumping frequency of 3.

Diagnostics plot of Model 2

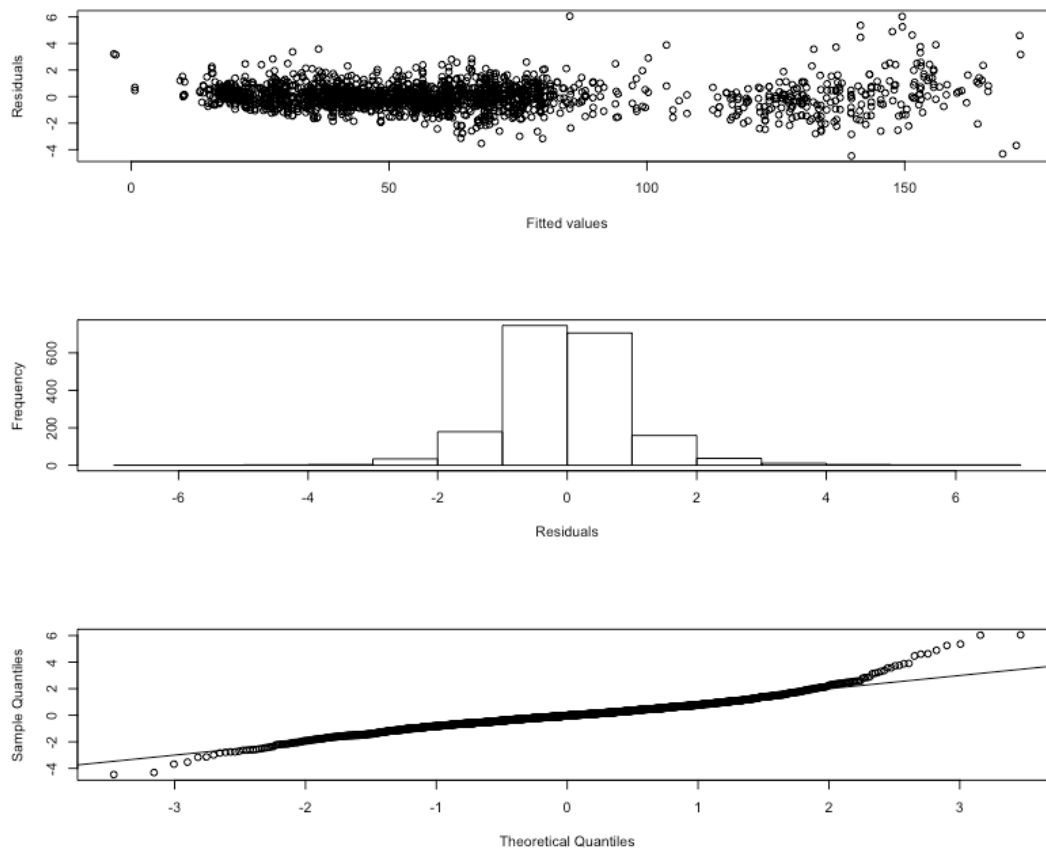


Model 3 – Milk volume per expressions ~ interval between expressions

	Estimate	Std.Error	DF	t-value	p-value
(Intercept)	21.20	7.38	1859	2.87	0.0041
inFS	14.80	1.06	1859	13.96	0.0000
inFS_sq	-0.73	0.09	1859	-7.40	0.0000

inFS- interval between expressions, inFS_sq – square of inFS

Diagnostics plot of Model 3



Model 4 – Short term rate of milk synthesis ~ interval between expressions

	Estimate	Std.Error	DF	t-value	p-value
(Intercept)	32.36	2.00	1859	16.18	0.00
inFS	-5.26	0.35	1859	-15.15	0.00
inFS_sq	0.32	0.03	1859	9.97	0.00

inFS- interval between expressions, inFS_sq – square of inFS

Diagnostics plot of Model 4

