

ภาคผนวก ง

ตารางวิเคราะห์ข้อมูลในการทดลอง

GROUP = experiment

Paired Samples Statistics^a

		Std. Error			
		Mean	N	Std. Deviation	Mean
Pair 1	POSFLU	84.67	15	11.056	2.855
	PREFLU	79.20	15	12.974	3.350
Pair 2	POSORI	40.53	15	9.357	2.416
	PREORI	30.40	15	6.533	1.687
Pair 3	POSFLE	30.93	15	3.731	.963
	PREFLE	24.53	15	2.295	.593
Pair 4	POSCRE	156.13	15	19.387	5.006
	PRECRE	134.13	15	15.647	4.040

a. GROUP = experiment

Paired Samples Correlations^a

		N	Correlation	Sig.
Pair 1	POSFLU & PREFLU	15	.895	.000
Pair 2	POSORI & PREORI	15	.612	.015
Pair 3	POSFLE & PREFLE	15	.772	.001
Pair 4	POSCRE & PRECRE	15	.856	.000

a. GROUP = experiment

Paired Differences						
				95% Confidence Interval		
				of the Difference		
				Std. Error		
		Mean	Std. Deviation	Mean	Lower	Upper
Pair 1	POSFLU - PREFLU	5.47	5.817	1.502	2.25	8.69
Pair 2	POSORI - PREORI	10.13	7.444	1.922	6.01	14.26
Pair 3	POSFLE - PREFLE	6.40	2.444	.631	5.05	7.75
Pair 4	POSCRE - PRECRE	22.00	10.071	2.600	16.42	27.58

Paired Samples Test^a

		t	df	Sig. (2-tailed)
Pair 1	POSFLU - PREFLU	3.640	14	.003
Pair 2	POSORI - PREORI	5.272	14	.000
Pair 3	POSFLE - PREFLE	10.143	14	.000
Pair 4	POSCRE - PRECRE	8.460	14	.000

a. GROUP = experiment

GROUP = control

					Std. Error
		Mean	N	Std. Deviation	Mean
Pair 1	POSFLU	82.87	15	10.769	2.781
	PREFLU	77.93	15	6.923	1.787
Pair 2	POSORI	32.80	15	5.659	1.461
	PREORI	26.67	15	5.219	1.348
Pair 3	POSFLE	28.87	15	2.588	.668
	PREFLE	26.60	15	3.043	.786
Pair 4	POSCORE	144.53	15	11.987	3.095
	PRECRE	131.20	15	8.825	2.279

a. GROUP = control

Paired Samples Correlations^a

		N	Correlation	Sig.
Pair 1	POSFLU & PREFLU	15	-.156	.578
Pair 2	POSORI & PREORI	15	.798	.000
Pair 3	POSFLE & PREFLE	15	-.370	.174
Pair 4	POSCORE & PRECRE	15	-.101	.720

a. GROUP = control

Paired Samples Test^a

		Paired Differences				
		Mean	Std. Deviation	Std. Error	95% Confidence Interval	
					of the Difference	
					Lower	Upper
Pair 1	POSFLU - PREFLU	4.93	13.682	3.533	-2.64	12.51
Pair 2	POSORI - PREORI	6.13	3.482	.899	4.21	8.06
Pair 3	POSFLE - PREFLE	2.27	4.667	1.205	-.32	4.85
Pair 4	POSCORE - PRECRE	13.33	15.587	4.025	4.70	21.97

		t	df	Sig. (2-tailed)
Pair 1	POSFLU - PREFLU	1.396	14	.184
Pair 2	POSORI - PREORI	6.822	14	.000
Pair 3	POSFLE - PREFLE	1.881	14	.081
Pair 4	POSCRE - PRECRE	3.313	14	.005

a. GROUP = control

T-Test

Group Statistics

	GROUP	N	Mean	Std. Deviation	Std. Error Mean
PREFLU	experiment	15	79.20	12.974	3.350
	control	15	77.93	6.923	1.787
PREORI	experiment	15	30.40	6.533	1.687
	control	15	26.67	5.219	1.348
PREFLE	experiment	15	24.53	2.295	.593
	control	15	26.60	3.043	.786
PRECRE	experiment	15	134.13	15.647	4.040
	control	15	131.20	8.825	2.279
POSFLU	experiment	15	84.67	11.056	2.855
	control	15	82.87	10.769	2.781
POSORI	experiment	15	40.53	9.357	2.416
	control	15	32.80	5.659	1.461
POSFLE	experiment	15	30.93	3.731	.963
	control	15	28.87	2.588	.668
POSCRE	experiment	15	156.13	19.387	5.006
	control	15	144.53	11.987	3.095

		Levene's Test for Equality of Variances	
		F	Sig.
PREFLU	Equal variances assumed	2.834	.103
	Equal variances not assumed		
PREORI	Equal variances assumed	.590	.449
	Equal variances not assumed		
REFLE	Equal variances assumed	1.151	.292
	Equal variances not assumed		
PRECRE	Equal variances assumed	2.371	.135
	Equal variances not assumed		
POSFLU	Equal variances assumed	.168	.685
	Equal variances not assumed		
POSORI	Equal variances assumed	1.388	.249
	Equal variances not assumed		
POSFLE	Equal variances assumed	.147	.704
	Equal variances not assumed		
POSCRE	Equal variances assumed	3.186	.085
	Equal variances not assumed		

		t-test for Equality of Means			
		t	df	Sig. (2-tailed)	Mean Difference
PREFLU	Equal variances assumed	.334	28	.741	1.27
	Equal variances not assumed	.334	21.375	.742	1.27
PREORI	Equal variances assumed	1.729	28	.095	3.73
	Equal variances not assumed	1.729	26.697	.095	3.73
PREFLE	Equal variances assumed	-2.100	28	.045	-2.07
	Equal variances not assumed	-2.100	26.035	.046	-2.07
PRECRE	Equal variances assumed	.632	28	.532	2.93
	Equal variances not assumed	.632	22.089	.534	2.93
POSFLU	Equal variances assumed	.452	28	.655	1.80
	Equal variances not assumed	.452	27.981	.655	1.80
POSORI	Equal variances assumed	2.739	28	.011	7.73
	Equal variances not assumed	2.739	23.034	.012	7.73
POSFLE	Equal variances assumed	1.763	28	.089	2.07
	Equal variances not assumed	1.763	24.935	.090	2.07
POSCRE	Equal variances assumed	1.971	28	.059	11.60
	Equal variances not assumed	1.971	23.340	.061	11.60

		t-test for Equality of Means		
		Std. Error Difference	95% Confidence Interval of the Difference	
			Lower	Upper
PREFLU	Equal variances assumed	3.797	-6.511	9.044
	Equal variances not assumed	3.797	-6.621	9.154
PREORI	Equal variances assumed	2.159	-.689	8.156
	Equal variances not assumed	2.159	-.699	8.166
PREFLE	Equal variances assumed	.984	-4.082	-.051
	Equal variances not assumed	.984	-4.089	-.044
PRECRE	Equal variances assumed	4.638	-6.568	12.435
	Equal variances not assumed	4.638	-6.684	12.551
POSFLU	Equal variances assumed	3.985	-6.363	9.963
	Equal variances not assumed	3.985	-6.363	9.963
POSORI	Equal variances assumed	2.823	1.950	13.517
	Equal variances not assumed	2.823	1.893	13.574
POSFLE	Equal variances assumed	1.172	-.335	4.468
	Equal variances not assumed	1.172	-.348	4.482
POSCRE	Equal variances assumed	5.885	-.455	23.655
	Equal variances not assumed	5.885	-.565	23.765

Group Statistics

	GROUP	N	Mean	Std. Deviation	Std. Error Mean
TOTPRE14	control	15	3.0667	.9319	.2406
	experiment	15	3.0476	.8718	.2251
TOTPRE21	control	15	2.5619	.7393	.1909
	experiment	15	3.3524	.8397	.2168
TOTPRE	control	15	2.9524	.7005	.1809
	experiment	15	3.3079	.6952	.1795
TOTPOST	control	15	3.5746	.7263	.1875
	experiment	15	4.3810	.4909	.1268
TOTPOS7	control	15	4.0286	.5617	.1450
	experiment	15	4.2952	.5649	.1459
TOTPOS14	control	15	3.2952	.8630	.2228
	experiment	15	4.3048	.4513	.1165
TOTPOS21	control	15	3.4000	.8210	.2120
	experiment	15	4.5429	.5617	.1450
TOTPRE7	control	15	3.0095	.8945	.2310
	experiment	15	3.0286	.8031	.2073

Independent Samples Test

		Levene's Test for Equality of Variances	
		F	Sig.
TOTPRE14	Equal variances assumed	.029	.867
	Equal variances not assumed		
TOTPRE21	Equal variances assumed	1.621	.213
	Equal variances not assumed		
TOTPRE	Equal variances assumed	.126	.725
	Equal variances not assumed		
TOTPOST	Equal variances assumed	1.981	.170
	Equal variances not assumed		
TOTPOS7	Equal variances assumed	.124	.728
	Equal variances not assumed		
TOTPOS14	Equal variances assumed	5.967	.021
	Equal variances not assumed		
TOTPOS21	Equal variances assumed	3.024	.093
	Equal variances not assumed		
TOTPRE7	Equal variances assumed	.167	.686
	Equal variances not assumed		

		t-test for Equality of Means			
		t	df	Sig. (2-tailed)	Mean Difference
TOTPRE14	Equal variances assumed	.058	28	.954	1.905E-02
	Equal variances not assumed	.058	27.876	.954	1.905E-02
TOTPRE21	Equal variances assumed	-2.736	28	.011	-.7905
	Equal variances not assumed	-2.736	27.558	.011	-.7905
TOTPRE	Equal variances assumed	-1.395	28	.174	-.3556
	Equal variances not assumed	-1.395	27.998	.174	-.3556
TOTPOST	Equal variances assumed	-3.562	28	.001	-.8063
	Equal variances not assumed	-3.562	24.583	.002	-.8063
TOTPOS7	Equal variances assumed	-1.296	28	.205	-.2667
	Equal variances not assumed	-1.296	27.999	.205	-.2667
TOTPOS14	Equal variances assumed	-4.015	28	.000	-1.0095
	Equal variances not assumed	-4.015	21.125	.001	-1.0095
TOTPOS21	Equal variances assumed	-4.450	28	.000	-1.1429
	Equal variances not assumed	-4.450	24.749	.000	-1.1429
TOTPRE7	Equal variances assumed	-.061	28	.952	-1.9048E-02
	Equal variances not assumed	-.061	27.680	.952	-1.9048E-02

Independent Samples Test

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		t-test for Equality of Means		
		Std. Error Difference	95% Confidence Interval of the Difference	
			Lower	Upper
TOTPRE14	Equal variances assumed	.3295	-.6559	.6940
	Equal variances not assumed	.3295	-.6560	.6941
TOTPRE21	Equal variances assumed	.2889	-1.3822	-.1987
	Equal variances not assumed	.2889	-1.3826	-.1983
TOTPRE	Equal variances assumed	.2548	-.8775	.1664
	Equal variances not assumed	.2548	-.8775	.1664
TOTPOST	Equal variances assumed	.2264	-1.2700	-.3427
	Equal variances not assumed	.2264	-1.2729	-.3398
TOTPOS7	Equal variances assumed	.2057	-.6880	.1547
	Equal variances not assumed	.2057	-.6880	.1547
TOTPOS14	Equal variances assumed	.2515	-1.5246	-.4944
	Equal variances not assumed	.2515	-1.5323	-.4868
TOTPOS21	Equal variances assumed	.2568	-1.6690	-.6167
	Equal variances not assumed	.2568	-1.6721	-.6136
TOTPRE7	Equal variances assumed	.3104	-.6548	.6167
	Equal variances not assumed	.3104	-.6552	.6171

Tests of Between-Subjects Effects

Dependent Variable: POSFLE

Source	Type III Sum of Squares	df	Mean Square	F	Sig.
Corrected Model	45.196 ^a	2	22.598	2.215	.129
Intercept	168.513	1	168.513	16.515	.000
PREFLE	13.162	1	13.162	1.290	.266
GROUP	43.547	1	43.547	4.268	.049
Error	275.504	27	10.204		
Total	27141.000	30			
Corrected Total	320.700	29			

a. R Squared = .141 (Adjusted R Squared = .077)

Tests of Between-Subjects Effects

Dependent Variable: TOTPOS7

Source	Type III Sum of Squares	df	Mean Square	F	Sig.
Corrected Model	2.113 ^a	2	1.056	3.904	.032
Intercept	8.391	1	8.391	31.015	.000
TOTPRE7	1.579	1	1.579	5.838	.023
GROUP	1.873E-02	1	1.873E-02	.069	.794
Error	7.305	27	.271		
Total	529.061	30			
Corrected Total	9.418	29			

a. R Squared = .224 (Adjusted R Squared = .167)

Tests of Between-Subjects Effects

Dependent Variable: TOTPOS21

Source	Type III Sum of Squares	df	Mean Square	F	Sig.
Corrected Model	17.659 ^a	2	8.829	39.798	.000
Intercept	8.268	1	8.268	37.266	.000
TOTPRE21	7.863	1	7.863	35.442	.000
GROUP	4.439	1	4.439	20.009	.000
Error	5.990	27	.222		
Total	496.816	30			
Corrected Total	23.649	29			

a. R Squared = .747 (Adjusted R Squared = .728)