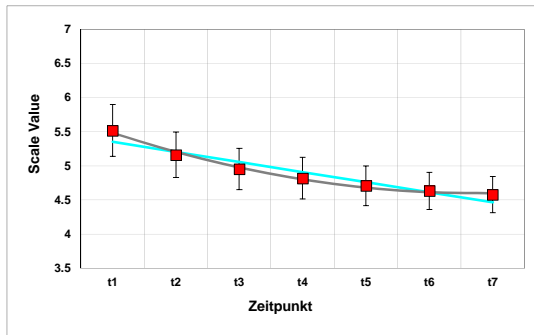


n	22						
k	7						
Stufe	1	2	3	4	5	6	7
	Zeitpunkt						
Fall	t1	t2	t3	t4	t5	t6	t7
Mittel	5.519023	5.163218	4.954175	4.819503	4.709228	4.634635	4.577991
Se	0.181812	0.159972	0.145279	0.146830	0.139592	0.130827	0.126935
tcrit	2.080	2.080	2.080	2.080	2.080	2.080	2.080
CI	0.378	0.333	0.302	0.305	0.290	0.272	0.264
ug	5.141	4.831	4.652	4.514	4.419	4.363	4.314
og	5.897	5.496	5.256	5.125	5.000	4.907	4.842
lin	5.353	5.206	5.058	4.911	4.764	4.616	4.469
quad	5.485	5.206	4.979	4.806	4.685	4.616	4.601



	QS	df	df(cor)	Var	F	P	P(cor)
Zw	69.592000	n-1	21	3.31			
ln	16.34	n(k-1)	132	0.12			
A	14.774000	k-1	6	2.2047223	197.87	0.0000	0.0000
Res	1.568000	(n-1)*(k-1)	126	46.299168			
Total	85.93	n*k-1	153	0.56			
epsilon			0.332574				
epsilon'			0.3674537				

$$\tilde{\varepsilon} = \frac{n(k-1)\varepsilon - 2}{(k-1)[n-1-(k-1)]}$$

	Total	Partial	df	df(cor)	Var	F	P	P(cor)
Linear	13.37	1.00	1.00	46.2992	13.37	1074.44	0.0000	0.0000
Quad	1.29	1.00	1.00	46.2992	1.29	103.43	0.0000	0.0000
Nolin	1.40	k-2	5.00	46.2992	0.28	22.55	0.0000	0.0000

Aufklärung	Total η^2	Partial η^2
A	0.172	0.90
Res	0.018	0.096
Linear	0.156	0.82
Quad	0.015	0.08

EinzelVGL apriori

Var(D) 0.0011

Mittelwertdifferenzen

D-Matrix	t1	t2	t3	t4	t5
t1		0.36	0.56	0.70	0.81

N(vergl) 6.00
 Alpha 0.0500
 Alpha' 0.0085
 Bonf-Alpha 0.0083
 Diff_crit 0.09

F-Matrix	t1	t2	t3	t4	t5
0 pm		111.90	282.02	432.53	579.65

P-Matrix	t1	t2	t3	t4	t5
0 pm		0.0000	0.0000	0.0000	0.0000

EinzelVGL Scheffe
 Fcrit 3.20
 Diff_crit 0.15

$$Diff_{crit} = \sqrt{\frac{2 \cdot (k-1) \cdot \hat{\sigma}_{res}^2 \cdot F_{(df_A, df_{res}, 1-\alpha)}}{n}}$$

X-Feldberechnung:

		-3.00	-2.00	-1.00	0.00	1.00	2.00	3.00	616.00	QS(X)
Y		5.52	5.16	4.95	4.82	4.71	4.63	4.58	34.38	Mittel-X
X		1	2	3	4	5	6	7	28.00	4.00
X^2		1	4	9	16	25	36	49	140.00	
X^3		1	8	27	64	125	216	343	784.00	
X^4		1	16	81	256	625	1296	2401	4676.00	
XY		5.519023	10.326436	14.862525	19.278012	23.54614	27.80781	32.045937	133.39	
X^2Y		5.519023	20.652872	44.587575	77.112048	117.7307	166.84686	224.321559	656.77	

Quadratisch				v		Quad
A	7	28	140			
	28	140	784	34.377773	Sy	
	140	784	4676	133.385883	Sxy	
				656.770637	Sx^2y	
inv(A)				a		Quad
	2.42857143	-1.28571429	0.14285714			
	-1.28571429	0.79761905	-0.0952381	5.81711871	a0	
	0.14285714	-0.0952381	0.01190476	-0.35845737	a1	
				0.02639106	a2	

LINEAR				v		Linear
A	7	28				
	28	140	34.377773	Sy		
			133.385883	Sxy		
inv(A)				a		Linear
	0.71428571	-0.14285714				
	-0.14285714	0.03571429	5.500426	a0		
			-0.14732889	a1		

TIME: Ungewichtete Mittel (thdata.sta)						
Include condition: v2="Therapy"						
	TIME	AV_1 Mittel	AV_1 Std.Fe.	AV_1	AV_1	N
1	V1t1	5.519023	0.181812	-0.950000	0.950000	22
2	V1t2	5.163218	0.159972	5.140925	5.897121	22
3	V1t3	4.954175	0.145279	4.830537	5.495899	22
4	V1t4	4.819503	0.146830	4.652051	5.256299	22
5	V1t5	4.709228	0.139592	4.514152	5.124853	22
6	V1t6	4.634635	0.130827	4.41893	4.999525	22
7	V1t7	4.577991	0.126935	4.362566	4.906704	22
				4.314017	4.841966	22

Varianzanalyse mit Messwiederholungen (thdata.sta)					
Include condition: v2="Therapy"					
	SQ	FG	MQ	F	p
Konstante	3714.327	1	3714.327	1120.835	0
Fehler	69.592000	21	3.314		
TIME	14.774000	6	2.462	197.843	0
Fehler	1.568000	126	0.012		

Korrigierte univariate Tests für Messwiederholungen: AV_1 (thdata.sta)						
Include condition: v2="Therapy"						
	FG	F	p	G-G Epsilon	G-G Korrr.FG1	G-G Korrr.FG2
TIME	6	197.8426	0	0.332574	1.995446	41.90436
Fehler	126					

orrected

Trend-Koeffizienten								C-Trend	
Linear	-3	-2	-1	0	1	2	3		-4.13
Quad	5	0	-3	-4	-3	0	5		2.22
	a0	a1	a2						
Linear	5.500426	-0.147329							
Quad	5.8171187	-0.358457	0.0263911						616.00

$$C_{Trend} = \sum C_j \bar{X}_j$$

Coefficients of orthogonal polynomials

k	Polynomial	X=1	2	3	4	5	6
3	Linear	-1	0	1			
	Quadratic	1	-2	1			
4	Linear	-3	-1	1	3		
	Quadratic	1	-1	-1	1		
	Cubic	-1	3	-3	1		
5	Linear	-2	-1	0	1	2	
	Quadratic	2	-1	-2	-1	2	
	Cubic	-1	2	0	-2	1	
	Quartic	1	-4	6	-4	1	
6	Linear	-5	-3	-1	1	3	
	Quadratic	5	-1	-4	-4	-1	
	Cubic	-5	7	4	-4	-7	
	Quartic	1	-3	2	2	-3	
7	Linear	-3	-2	-1	0	1	
	Quadratic	5	0	-3	-4	-3	
	Cubic	-1	1	1	0	-1	
	Quartic	3	-7	1	6	1	
8	Linear	-7	-5	-3	-1	1	
	Quadratic	7	1	-3	-5	-5	
	Cubic	-7	5	7	3	-3	
	Quartic	7	-13	-3	9	9	
9	Quartic	-7	23	-17	-15	15	1
	Linear	-4	-3	-2	-1	0	
	Quadratic	28	7	-8	-17	-20	-1
	Cubic	-14	7	13	9	0	
	Quartic	14	-21	-11	9	18	
10	Quartic	-4	11	-4	-9	0	
	Linear	-9	-7	-5	-3	-1	
	Quadratic	6	2	-1	-3	-4	
	Cubic	-42	14	35	31	12	-1
	Quartic	18	-22	-17	3	18	1
Quintic	-6	14	-1	-11	-6		

1) ε]

$$QS_{Trend} = n \frac{C_{Trend}^2}{\sum C_j^2}$$

$$F = \frac{QS_{Trend}}{\hat{\sigma}_{res}^2}$$

t6	t7
0.88	0.94

t6	t7
691.36	782.76

t6	t7
0.0000	0.0000

G-G	H-F	H-F	H-F	H-F	Unt.Grz.	Unt.Grz.	Unt.Grz.	Unt.Grz.
Korr. p	Epsilon	Korr.FG1	Korr.FG2	Korr. p	Epsilon	Korr.FG1	Korr.FG2	Korr. p
	0	0.367454	2.204725	46.29922	0	0.166667	1	21

i	7	8	9	10	$\sum_{i=1}^n$	λ
					2	1
					6	3
					20	2
					4	1
					20	$\frac{19}{5}$
					10	1
					14	1
					10	$\frac{5}{4}$
					70	$\frac{33}{12}$
5					70	2
5					84	$\frac{3}{2}$
5					180	$\frac{3}{2}$
1					28	$\frac{3}{12}$
2	3				28	1
0	5				84	1
-1	1				6	$\frac{3}{4}$
-7	3				154	$\frac{3}{12}$
3	5	7			168	2
-3	1	7			168	1
-7	-5	7			264	$\frac{3}{2}$
-3	-13	7			616	$\frac{3}{12}$
17	-23	7			2184	$\frac{3}{10}$
1	2	3	4		60	1
17	-8	7	28		2772	3
9	-13	-7	14		990	$\frac{3}{4}$
9	-11	-21	14		2002	$\frac{3}{12}$
9	4	-11	4		468	$\frac{3}{10}$
1	3	5	7	9	330	2
4	-3	-1	2	6	132	$\frac{3}{2}$
12	-31	-35	-14	42	8580	$\frac{3}{2}$
18	3	-17	-22	18	2860	$\frac{3}{12}$
6	11	1	-14	6	780	$\frac{3}{10}$