

## APPENDIX 12

## Study 5: Time-dependent pharmacokinetics of ARS in healthy volunteers

No.	Initials	Age yrs	Weight kg	Height cm	BMI	d1_0.5h ng/ml	d1_1h ng/ml	d1_2h ng/ml	d1_3h ng/ml	d2_1h ng/ml	d2_2h ng/ml	d3_1h ng/ml	d3_2h ng/ml	d4_1h ng/ml
1	LNH	52	57	168	20.2	67	27	7	2	27	4	42	9	39
2	NAD	30	54	163	20.3	150	66	14	2	97	22	70	19	78
3	NQK	22	55	163	20.7	44	31	5	2	28	5	27	6	27
4	NDB	27	60	169	21	31	67	13	2	46	2	81	16	74
5	MHH	21	53	170	18.3	13	72	21	4	46	8	58	20	51
6	TLQT	21	49	161	18.9	85	31	5	0	28	7	23	6	24
7	LQK	28	68	165	25	14	30	3	0	33	4	32	8	43
8	LMM	23	57	174	18.8	77	30	9	2	23	9	24	4	27
9	LHH	28	90	158	36.1	12	44	11	2	33	8	56	12	48
10	NMT	22	57	175	18.6	17	41	9	1	38	5	44	13	40
	<b>Mean</b>	27.4	60.0	166.6	21.8	50.9	44.0	9.7	1.7	40.0	7.4	45.6	11.5	44.9
	<b>SD</b>	9.3	11.7	5.6	5.4	44.6	17.7	5.3	1.1	21.4	5.5	20.0	5.6	18.6
	<b>CV</b>	33.8	19.4	3.3	24.7	87.6	40.1	54.7	67.9	53.5	74.7	43.8	48.6	41.4
	<b>Min</b>	21	49	158	18	12	27	3	0	23	2	23	4	24
	<b>Max</b>	52	90	175	36	150	72	21	4	97	22	81	20	78
	<b>Median</b>	25	57	167	20	38	36	9	2	33	6	43	11	41

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No.	Initials	d4_2h	d5_0.5h	d5_1h	d5_2h	d5_3h	t <sub>max</sub> -d1	t <sub>max</sub> -d5	C <sub>max</sub> -d1	C <sub>max</sub> -d5	t <sub>1/2z</sub> -d1	t <sub>1/2z</sub> -d5	AUC <sub>last</sub> -d1
		ng/ml	ng/ml	ng/ml	ng/ml	ng/ml	h	h	ng/ml	ng/ml	h	h	ng.h/ml
1	LNH	6	78	23	6	2	0.50	0.50	67	78	0.50	0.49	61.8
2	NAD	15	140	54	14	3	0.50	0.50	150	140	0.40	0.46	139.5
3	NQK	3	47	24	4	0	0.50	0.50	44	47	0.44	0.42	51
4	NDB	14	42	60	10	2	1.00	1.00	67	60	0.39	0.41	79.8
5	MHH	13	8	68	25	5	1.00	1.00	72	68	0.48	0.53	83.5
6	TLQT	5	66	27	8	1	0.50	0.50	85	66	0.37	0.43	68.3
7	LQK	8	6	34	7	1	1.00	1.00	30	34	0.57	0.39	31
8	LMM	4	56	23	9	2	0.50	0.50	77	56	0.41	0.54	71
9	LHH	14	18	41	10	2	1.00	1.00	44	41	0.45	0.46	51
10	NMT	6	12	50	11	2	1.00	1.00	41	50.0	0.37	0.43	48.8
	Mean	8.8	47.3	40.3	10.4	2.0	0.75	0.75	67.70	64.00	0.44	0.46	68.50
	SD	4.9	41.4	16.7	5.8	1.2	0.26	0.26	34.05	29.79	0.06	0.05	29.55
	CV	55.3	87.4	41.6	56.1	60.7	35.14	35.14	50.30	46.54	14.63	11.05	43.13
	Min	3	6	23	4	0	0.50	0.50	30.00	34.00	0.37	0.39	31.00
	Max	15	140	68	25	5	1.00	1.00	150.00	140.00	0.57	0.54	139.50
	Median	7	45	38	10	2	0.75	0.75	67.00	58.00	0.43	0.45	65.05

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No.	Initials	AUC <sub>last</sub> -d5 ng.h/ml	AUC <sub>∞</sub> -d1 ng.h/ml	AUC <sub>∞</sub> -d5 ng.h/ml	Vd <sub>if</sub> _d1 ml	Vd <sub>if</sub> _d1/kg l/kg	Vd <sub>if</sub> _d5 ml	Vd <sub>if</sub> _d5/kg l/kg	C <sub>if</sub> -d1 ml/h	C <sub>if</sub> -d1/kg l/h/kg	C <sub>if</sub> -d5 ml/h	C <sub>if</sub> -d5/kg l/h/kg
1	LNH	63.3	63.3	64.7	2288186	40.14	2178397	38.22	3169259	55.60	3093173	54.27
2	NAD	126	140.8	128	830511	15.38	1037793	19.22	1420724	26.31	1562592	28.94
3	NQK	44	51	46	2474556	44.99	2618526	47.61	3892127	70.77	4356917	79.22
4	NDB	77	80.9	78.2	1408224	23.47	1504369	25.07	2472521	41.21	2558328	42.64
5	MHH	82.5	86.3	86.3	1604196	30.27	1775168	33.49	2318362	43.74	2316656	43.71
6	TLQT	61.4	70.9	62.4	1500548	30.62	1973064	40.27	2820473	57.56	3206914	65.45
7	LQK	36	33.5	37	4940096	72.65	3102002	45.62	5973539	87.85	5469338	80.43
8	LMM	55.3	72	56.8	1676206	29.41	2755289	48.34	2813103	49.35	3520171	61.76
9	LHH	51	52	52	2474587	27.50	2543129	28.26	3824526	42.49	3840665	42.67
10	NMT	55.5	49.3	56.7	2185355	38.34	2190009	38.42	4057736	71.19	3524684	61.84
	<b>Mean</b>	65.13	70.02	66.81	2138247	35.28	2167775	36.45	3276237	54.61	3344944	56.09
	<b>SD</b>	25.55	29.56	25.87	1118021	15.64	621078	9.85	1247495	18.02	1094494	16.78
	<b>CV</b>	39.23	42.22	38.72	52	44.33	29	27.03	38	33.00	33	29.92
	<b>Min</b>	36.00	33.50	37.00	830511	15.38	1037793	19.22	1420724	26.31	1562592	28.94
	<b>Max</b>	126.00	140.80	128.00	4940096	72.65	3102002	48.34	5973539	87.85	5469338	80.43
	<b>Median</b>	58.45	67.10	59.60	1930781	30.45	2184203	38.32	2994866	52.48	3363543	58.01

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No.	Initials	Glucose mg/dl	BUN mg/dl	Creatinine mg/dl	AST U/l	ALT U/l	Total bilirubin mg/dl	Protein g/dl	RBC $10^6/\mu\text{l}$	WBC $10^3/\mu\text{l}$	PLT $10^5/\mu\text{l}$
1	LNH	81	13	1	32	43	0.6	7.2	5.3	6.78	241
2	NAD	81	19	1	30	24	0.4	7.7	4.7	6.46	267
3	NQK	76	9	1.1	35	27	0.5	7	5.69	7.27	295
4	NDB	99	13	1.1	22	21	0.7	6.9	5.14	7.46	267
5	MHH	68	12	1.1	27	17	0.9	6.9	4.84	4.22	271
6	TLQT	81	15	1.1	17	10	0.6	7.3	5.27	7.8	206
7	LQK	94	8	1.1	24	23	0.6	6.8	4.76	8.23	351
8	LMM	104	11	0.9	36	43	1.4	6.7	4.69	6.68	199
9	LHH	104	12	1	41	34	0.7	7.3	5.1	9.7	463
10	NMT	81	11	1.1	19	11	1	7.3	4.8	7.6	276
	Mean	86.90	12.30	1.05	28.30	25.30	0.74	7.11	5.03	7.22	283.60
	SD	12.46	3.09	0.07	7.86	11.73	0.29	0.30	0.33	1.41	76.46
	CV	14.34	25.15	6.73	27.78	46.36	39.37	4.27	6.53	19.46	26.96
	Min	68.00	8.00	0.90	17.00	10.00	0.40	6.70	4.69	4.22	199.00
	Max	104.00	19.00	1.10	41.00	43.00	1.40	7.70	5.69	9.70	463.00
	Median	81.00	12.00	1.10	28.50	23.50	0.65	7.10	4.97	7.37	269.00