Bioequivalence Test and Individual Noncompartmental Analysis Result

Table of Contents

Bioequivalence Test Result

AUClast

$`Analysis of Variance (log scale)`

	SS	DF	MS	F	p
SUBJECT	3.1250288476	35	0.0892865385	3.259673678	0.0004158433
GROUP	0.1809601306	1	0.1809601306	2.089844032	0.1574364448
SUBJECT(GROUP)	2.9440687171	34	0.0865902564	3.161237788	0.0005851733
PERIOD	0.0002043986	1	0.0002043986	0.007462187	0.9316679341
DRUG	0.0431417975	1	0.0431417975	1.575021097	0.2180373541
ERROR	0.9313025197	34	0.0273912506	NA	NA
TOTAL	4.1001427318	71	NA	NA	NA

$`Between and Within Subject Variability`

	Between Subject	Within Subject
Variance Estimate	0.0295995	0.02739125
Coefficient of Variation, CV(%)	17.3326058	16.66428506

$`Least Square Means (geometric mean)`

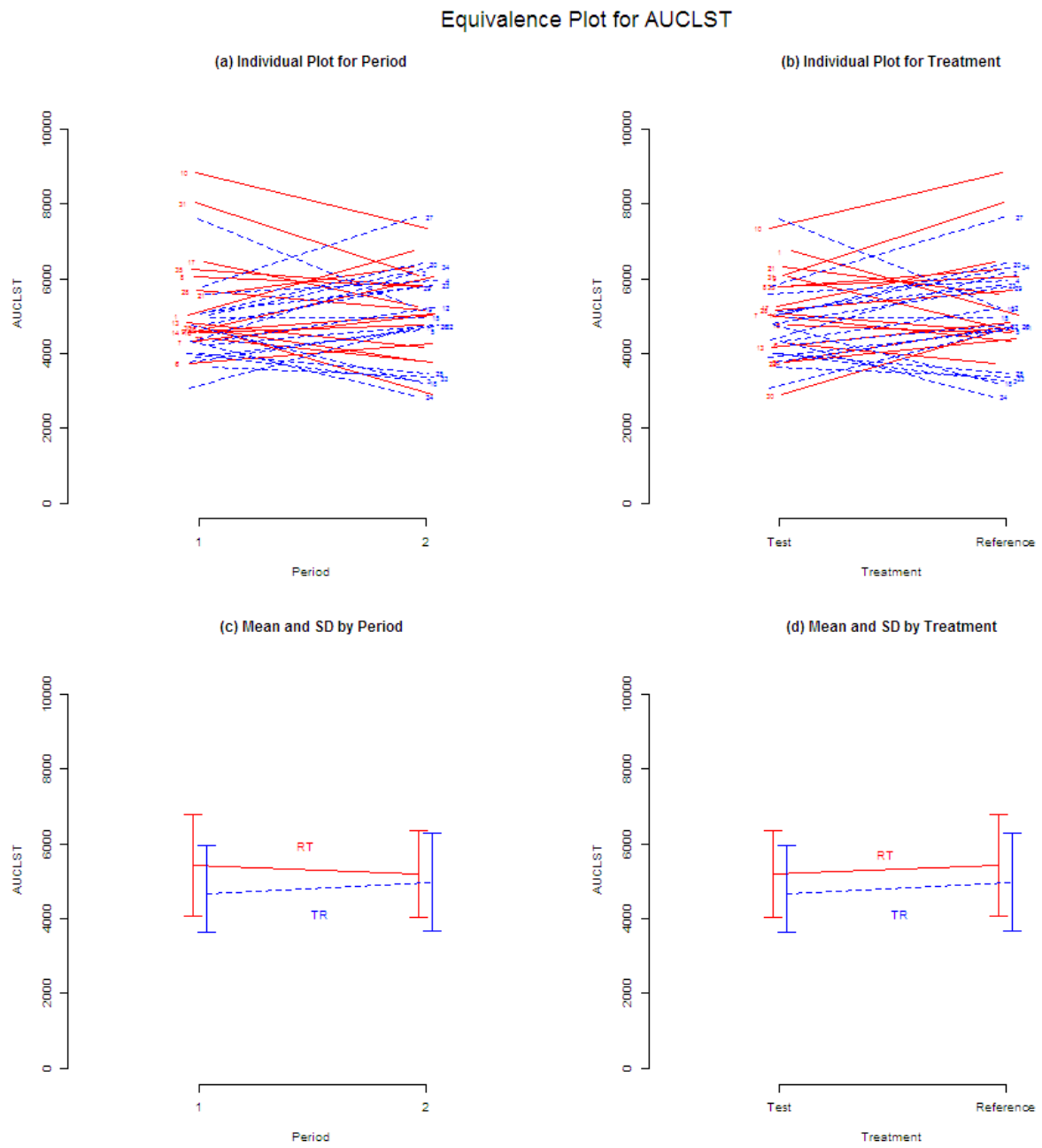
	Reference Drug	Test Drug
Geometric Means	5042.531	4801.247

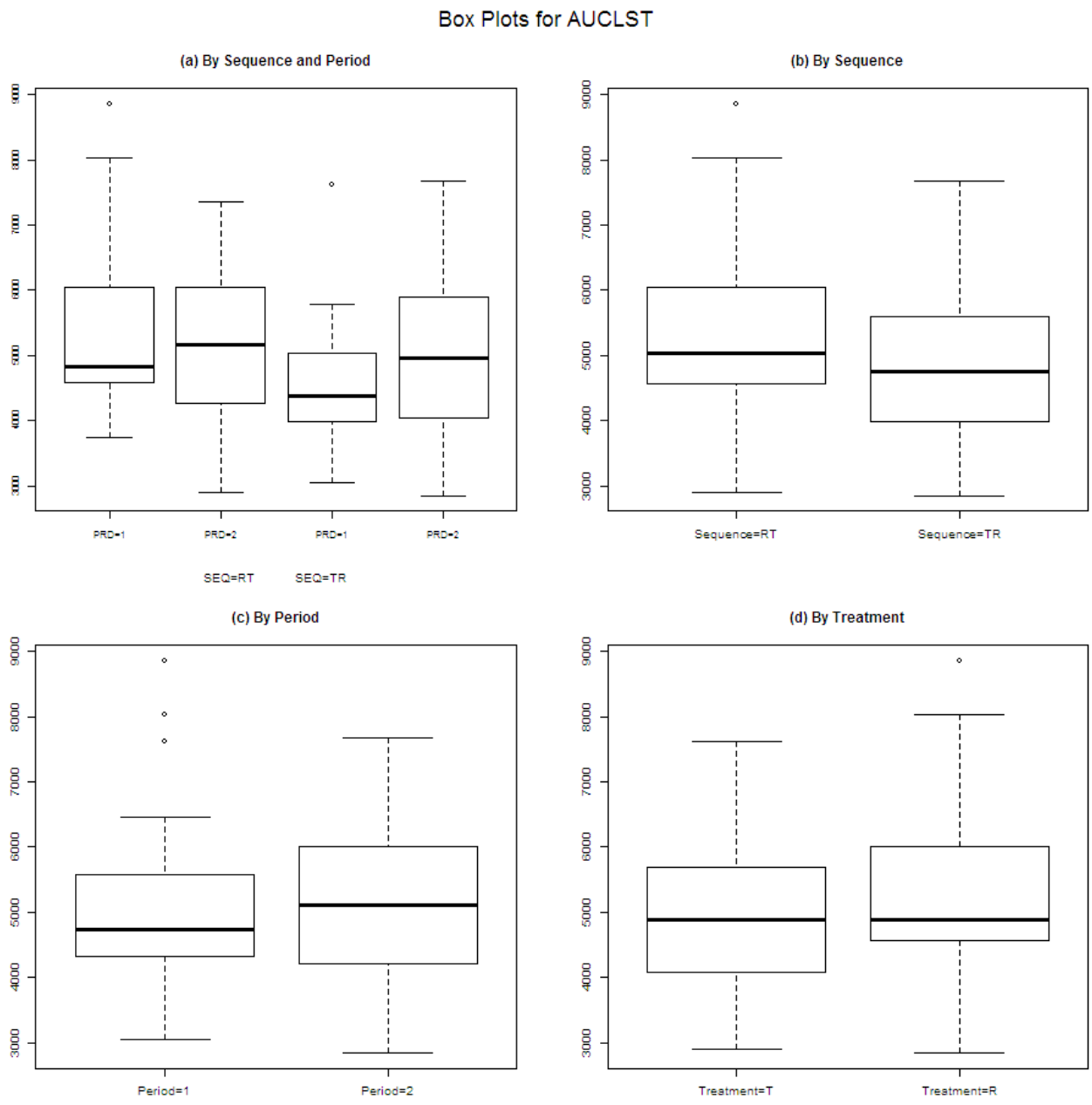
$`90% Confidence Interval of Geometric Mean Ratio (T/R)`

	Lower Limit	Point Estimate	Upper Limit
90% CI for Ratio	0.8912801	0.9521502	1.017177

$`Sample Size`

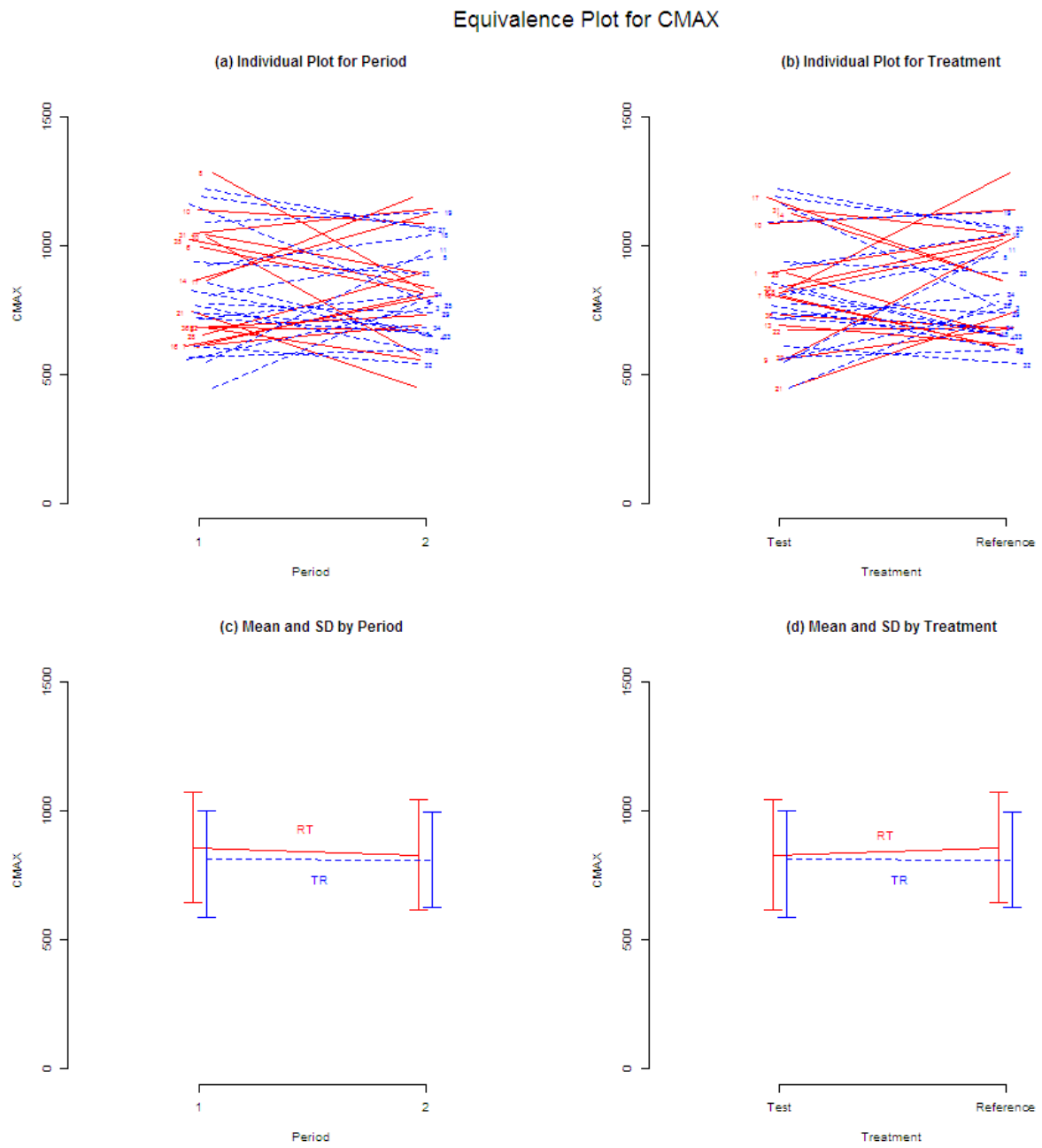
	True Ratio=1	True Ratio=Point Estimate
80% Power Sample Size	6	7


Equivalence Plot for AUCLST
(a) Individual Plot for Period
(b) Individual Plot for Treatment
(c) Mean and SD by Period
(d) Mean and SD by Treatment
AUCLST
0
2000
4000
6000
8000
10000
1
2
Period
Test
Reference
Treatment
RT
TR

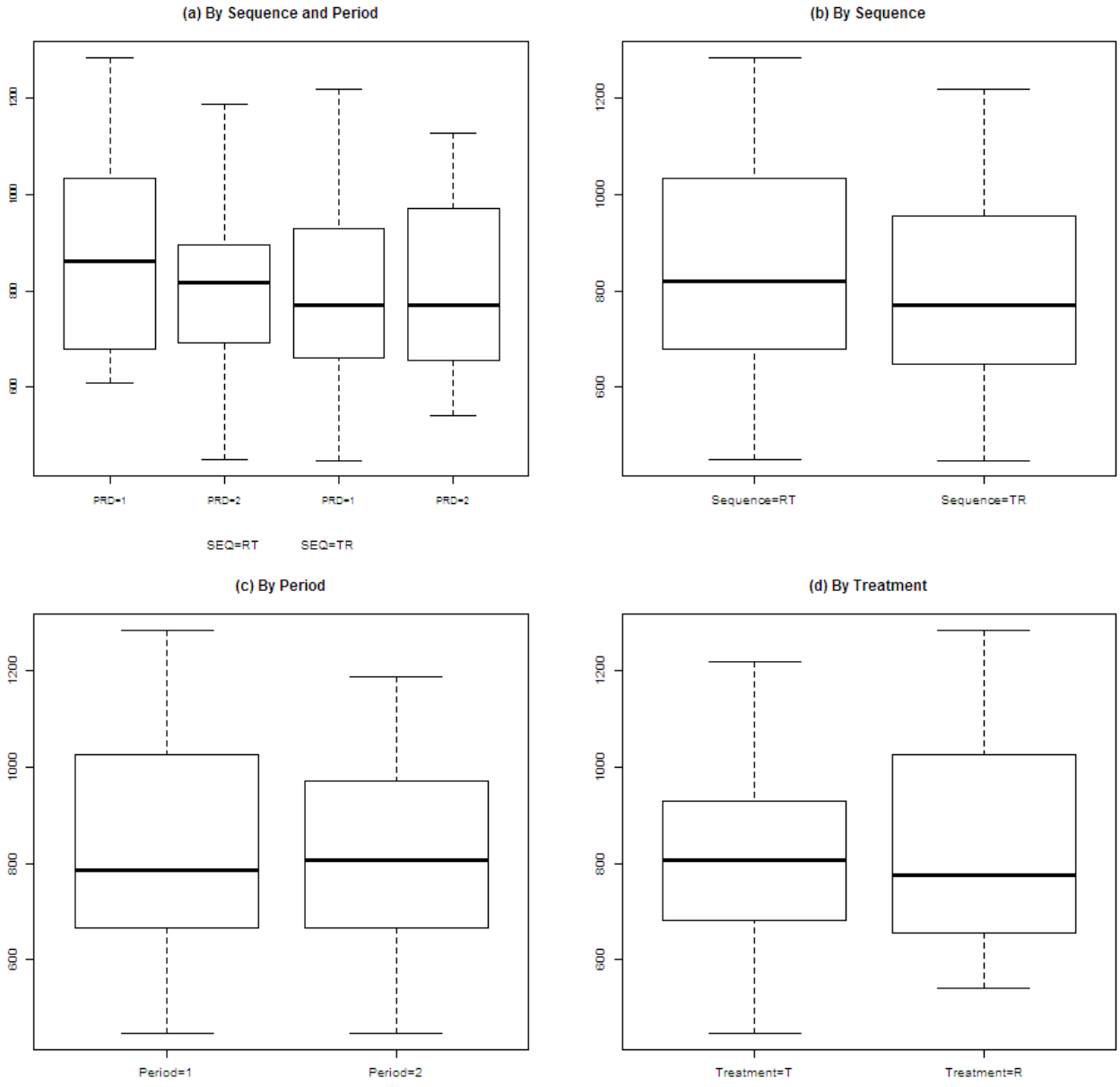

Box Plots for AUCLST
(a) By Sequence and Period
PRD=1
PRD=2
PRD=1
PRD=2
SEQ=RT
SEQ=TR
(b) By Sequence
Sequence=RT
Sequence=TR
(c) By Period
Period=1
Period=2
(d) By Treatment
Treatment=T
Treatment=R

Cmax

```
$`Analysis of Variance (log scale)`
                         SS DF          MS          F           p
SUBJECT        3.247065921 35 0.092773312 2.39062322 0.006281881
GROUP          0.026067303  1 0.026067303 0.27515948 0.603295134
SUBJECT(GROUP) 3.220998618 34 0.094735253 2.44117939 0.005507677
PERIOD         0.003661945  1 0.003661945 0.09436261 0.760576271
DRUG           0.009490680  1 0.009490680 0.24455998 0.624112311
ERROR          1.319443641 34 0.038807166         NA          NA
TOTAL          4.579045848 71          NA         NA          NA

$`Between and Within Subject Variability`
                                Between Subject Within Subject
Variance Estimate                    0.02796404     0.03880717
Coefficient of Variation, CV(%)     16.84004390    19.89220947

$`Least Square Means (geometric mean)`
               Reference Drug Test Drug
Geometric Means       810.0191  791.6031

$`90% Confidence Interval of Geometric Mean Ratio (T/R)`
                Lower Limit Point Estimate Upper Limit
90% CI for Ratio   0.9033615      0.9772648    1.057214

$`Sample Size`
                     True Ratio=1 True Ratio=Point Estimate
80% Power Sample Size            8                        8
```

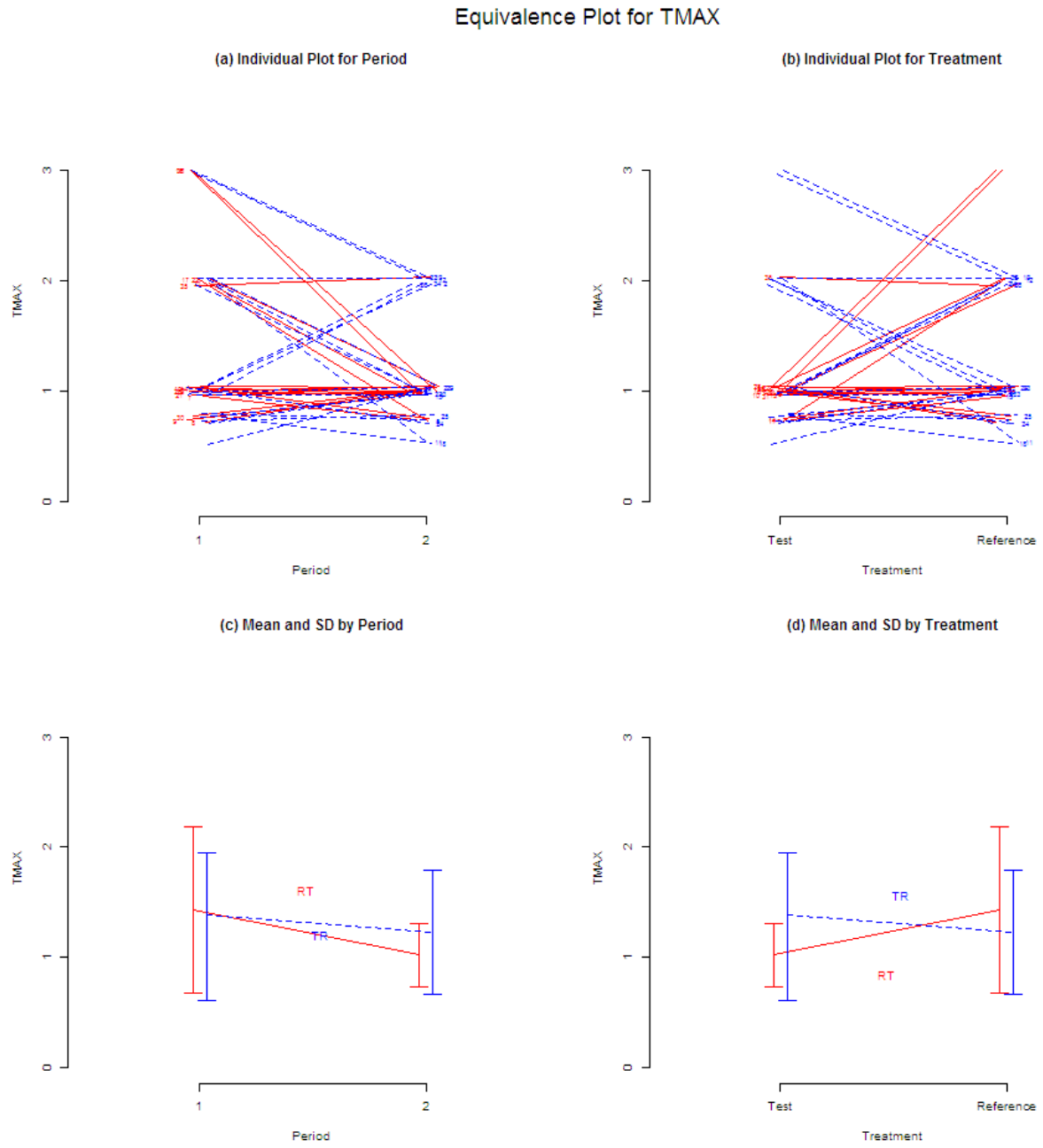

Equivalence Plot for CMAX
(a) Individual Plot for Period
(b) Individual Plot for Treatment
(c) Mean and SD by Period
(d) Mean and SD by Treatment
CMAX
0
500
1000
1500
1
2
Period
Test
Reference
Treatment
RT
TR

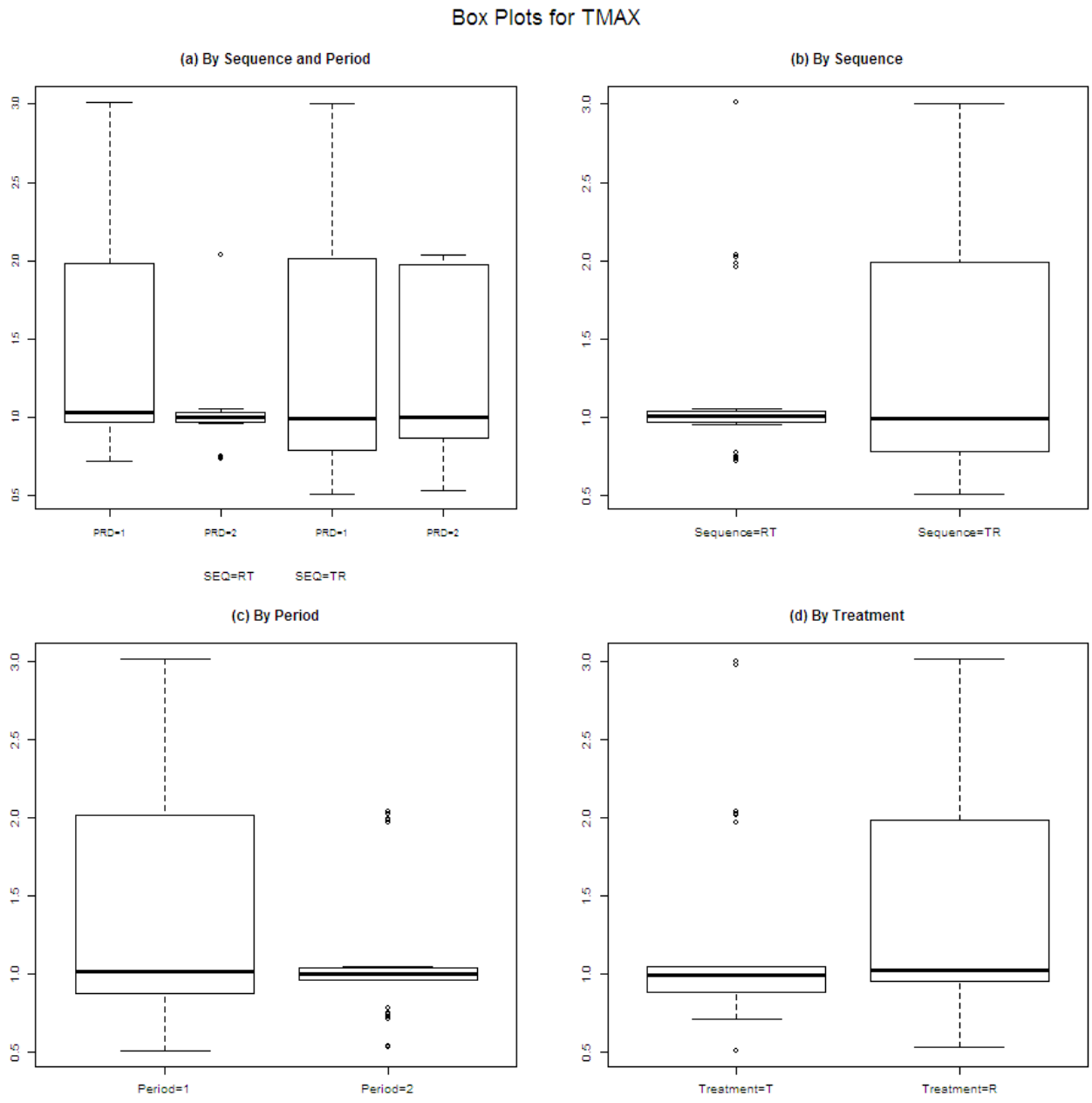
Box Plots for CMAX



Tmax

```
$`Wilcoxon Signed-Rank Test`
  p-value
0.2073376

$`Hodges-Lehmann Estimate`
                           Lower Limit Point Estimate Upper Limit
90% Confidence Interval       -0.35500       -0.04000      0.0700
90% Confidence Interval(%)    73.26876       96.98803    105.2709
```




Box Plots for TMAX
(a) By Sequence and Period
PRD=1
PRD=2
PRD=1
PRD=2
SEQ=RT
SEQ=TR
(b) By Sequence
Sequence=RT
Sequence=TR
(c) By Period
Period=1
Period=2
(d) By Treatment
Treatment=T
Treatment=R

Individual Noncompartmental Analysis Result

SUBJ 1, GRP RT, PRD 1, TRT R

NONCOMPARTMENTAL ANALYSIS REPORT
Package version 0.3.9 (2018-05-10 KST)
R version 3.5.0 (2018-04-23)

Date and Time: 2018-06-19 09:49:35 Asia/Seoul

Calculation Setting

Drug Administration: Extravascular
Observation count excluding trailing zero: 13
Dose at time 0: 0 mg
AUC Calculation Method: Linear-up Linear-down
Weighting for lambda z: Uniform (Ordinary Least Square, OLS)
Lambda z selection criterion: Heighest adjusted R-squared value with precision=1e-4

Fitting, AUC, AUMC Result

	Time		Conc.	Pred.	Residual	AUC	AUMC
	0.0000		0.0000			0.0000	0.0000
	0.2600		511.3000			66.4690	17.2819
	0.4600		678.7900			185.4780	61.8001
	0.7300		825.1200			388.5058	185.2685
	1.0400		1043.1300			678.0846	446.7834
	1.9900		753.4300			1531.4506	1674.2693
	3.0000		557.7400			2193.5915	3276.4049
	4.0100		411.1300			2682.8708	4953.9398
	6.0200		287.7100			3385.2050	8351.4885
	7.9900	*	220.1800	215.7847	+4.395e+00	3885.4767	11790.3722
	10.0100	*	126.4600	135.1744	-8.714e+00	4235.5831	14845.7260
	12.0300	*	89.1000	84.6776	+4.422e+00	4453.2987	17206.8410
	24.0200	*	5.2500	5.2733	-2.332e-02	5018.9269	24388.7191

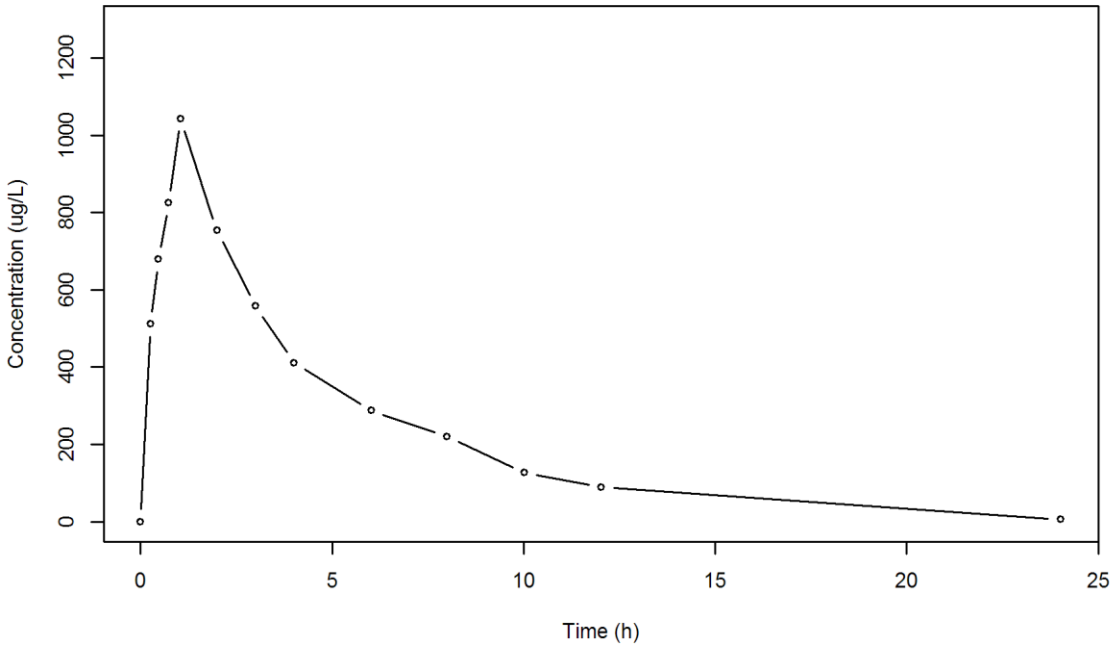
*: Used for the calculation of Lambda z.

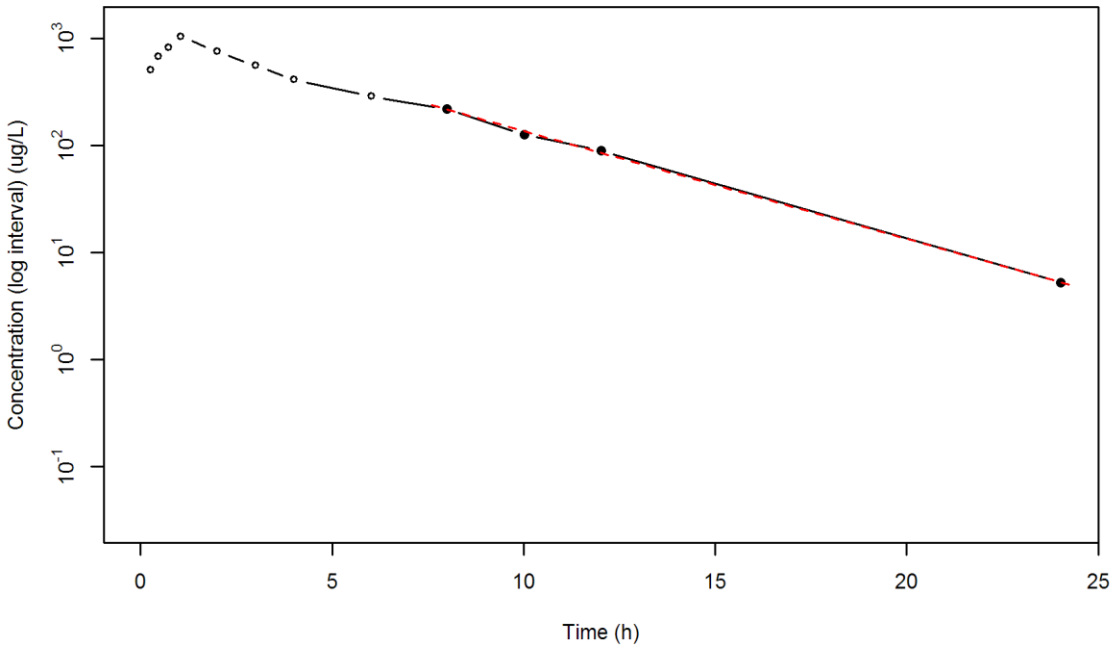
Calculated Values

CMAX	Max Conc	1043.1300	ug/L
TMAX	Time of CMAX	1.0400	h
TLAG	Time Until First Nonzero Conc	0.0000	h
CLST	Last Nonzero Conc	5.2500	ug/L
CLSTP	Last Nonzero Conc Pred	5.2733	ug/L
TLST	Time of Last Nonzero Conc	24.0200	h
LAMZHL	Half-Life Lambda z	2.9936	h
LAMZ	Lambda z	0.2315	/h
LAMZLL	Lambda z Lower Limit	7.9900	h
LAMZUL	Lambda z Upper Limit	24.0200	h
LAMZNPT	Number of Points for Lambda z	4	
CORRXY	Correlation Between TimeX and Log ConcY	-0.9996	
R2	R Squared	0.9991	
R2ADJ	R Squared Adjusted	0.9987	
AUCLST	AUC to Last Nonzero Conc	5018.9269	h*ug/L

AUCALL	AUC All	5018.9269	h*ug/L
AUCIFO	AUC Infinity Obs	5041.6010	h*ug/L
AUCIFP	AUC Infinity Pred	5041.7017	h*ug/L
AUCPEO	AUC %Extrapolation Obs	0.4497	%
AUCPEP	AUC %Extrapolation Pred	0.4517	%
AUMCLST	AUMC to Last Nonzero Conc	24388.7191	h2*ug/L
AUMCIFO	AUMC Infinity Obs	25031.2763	h2*ug/L
AUMCIFP	AUMC Infinity Pred	25034.1309	h2*ug/L
AUMCPEO	AUMC %Extrapolation Obs	2.5670	%
AUMCPEP	AUMC % Extrapolation Pred	2.5781	%
VZFO	Vz Obs by F	0.0000	L
VZFP	Vz Pred by F	0.0000	L
CLFO	Total CL Obs by F	0.0000	L/h
CLFP	Total CL Pred by F	0.0000	L/h
MRTEVLST	MRT Extravasc to Last Nonzero Conc	4.8593	h
MRTEVIFO	MRT Extravasc Infinity Obs	4.9649	h
MRTEVIFP	MRT Extravasc Infinity Pred	4.9654	h

SUBJ 1, GRP RT, PRD 1, TRT R





SUBJ 1, GRP RT, PRD 2, TRT T

NONCOMPARTMENTAL ANALYSIS REPORT
Package version 0.3.9 (2018-05-10 KST)
R version 3.5.0 (2018-04-23)

Date and Time: 2018-06-19 09:49:35 Asia/Seoul

Calculation Setting

Drug Administration: Extravascular
Observation count excluding trailing zero: 13
Dose at time 0: 0 mg
AUC Calculation Method: Linear-up Linear-down
Weighting for lambda z: Uniform (Ordinary Least Square, OLS)
Lambda z selection criterion: Heighest adjusted R-squared value with precision=1e-4

Fitting, AUC, AUMC Result

	Time	Conc.	Pred.	Residual	AUC	AUMC
	0.0000	0.0000			0.0000	0.0000
	0.2500	487.6200			60.9525	15.2381
	0.4800	769.6000			205.5328	71.7391
	0.7800	865.8100			450.8443	228.4501
	1.0300	894.2100			670.8468	427.9961
	2.0400	788.0300			1520.3780	1704.9479
	2.9800	664.5600			2203.0953	3391.2938
	3.9700	571.9500			2815.1678	5495.5538
	5.9700	405.8900			3793.0078	10189.3586
	7.9600	307.6300			4502.9602	15036.8972
	9.9700 *	238.8100	241.9423	-3.132e+00	5052.1324	19890.7161
	11.9500 *	181.6000	178.8671	+2.733e+00	5468.3383	24396.2612
	24.0500 *	28.1800	28.2402	-6.015e-02	6737.5073	41625.7477

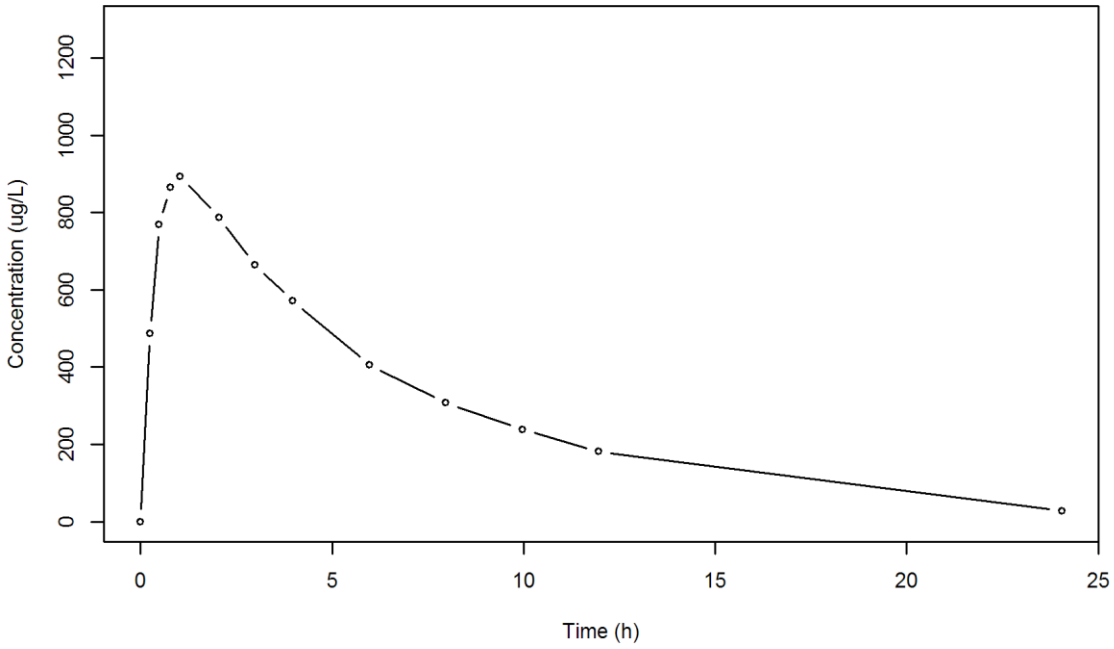
*: Used for the calculation of Lambda z.

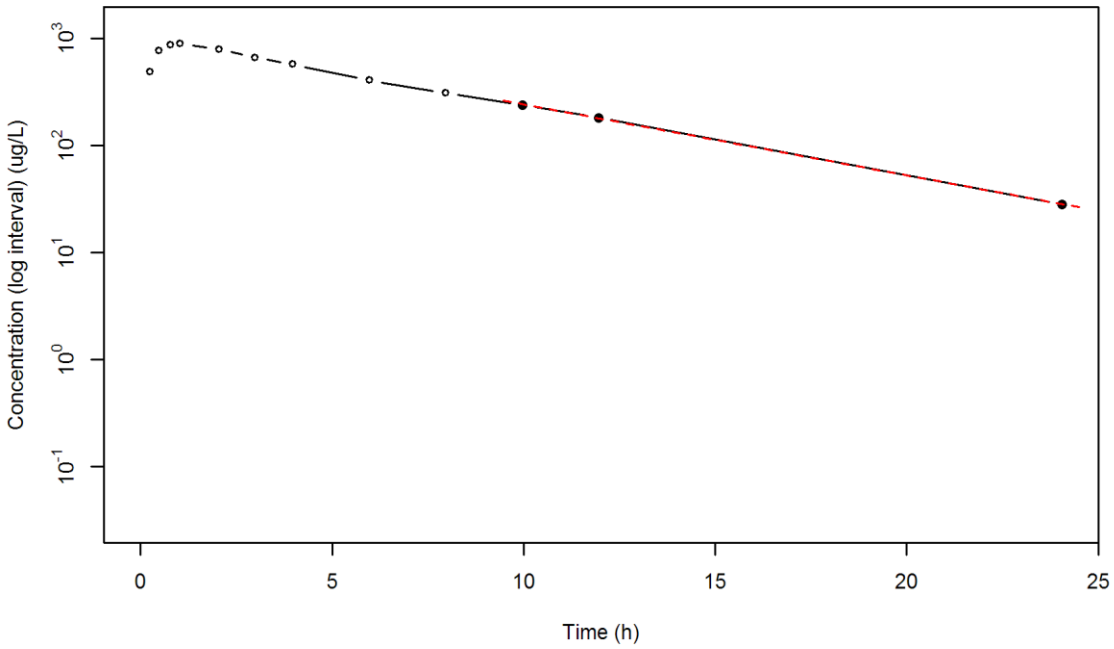
Calculated Values

CMAX	Max Conc	894.2100	ug/L
TMAX	Time of CMAX	1.0300	h
TLAG	Time Until First Nonzero Conc	0.0000	h
CLST	Last Nonzero Conc	28.1800	ug/L
CLSTP	Last Nonzero Conc Pred	28.2402	ug/L
TLST	Time of Last Nonzero Conc	24.0500	h
LAMZHL	Half-Life Lambda z	4.5436	h
LAMZ	Lambda z	0.1526	/h
LAMZLL	Lambda z Lower Limit	9.9700	h
LAMZUL	Lambda z Upper Limit	24.0500	h
LAMZNPT	Number of Points for Lambda z	3	
CORRXY	Correlation Between TimeX and Log ConcY	-0.9999	
R2	R Squared	0.9999	
R2ADJ	R Squared Adjusted	0.9997	
AUCLST	AUC to Last Nonzero Conc	6737.5073	h*ug/L

AUCALL	AUC All	6737.5073	h*ug/L
AUCIFO	AUC Infinity Obs	6922.2292	h*ug/L
AUCIFP	AUC Infinity Pred	6922.6235	h*ug/L
AUCPEO	AUC %Extrapolation Obs	2.6685	%
AUCPEP	AUC %Extrapolation Pred	2.6741	%
AUMCLST	AUMC to Last Nonzero Conc	41625.7477	h2*ug/L
AUMCIFO	AUMC Infinity Obs	47279.1778	h2*ug/L
AUMCIFP	AUMC Infinity Pred	47291.2457	h2*ug/L
AUMCPEO	AUMC %Extrapolation Obs	11.9575	%
AUMCPEP	AUMC % Extrapolation Pred	11.9800	%
VZFO	Vz Obs by F	0.0000	L
VZFP	Vz Pred by F	0.0000	L
CLFO	Total CL Obs by F	0.0000	L/h
CLFP	Total CL Pred by F	0.0000	L/h
MRTEVLST	MRT Extravasc to Last Nonzero Conc	6.1782	h
MRTEVIFO	MRT Extravasc Infinity Obs	6.8301	h
MRTEVIFP	MRT Extravasc Infinity Pred	6.8314	h

SUBJ 1, GRP RT, PRD 2, TRT T





SUBJ 2, GRP TR, PRD 1, TRT T

NONCOMPARTMENTAL ANALYSIS REPORT
Package version 0.3.9 (2018-05-10 KST)
R version 3.5.0 (2018-04-23)

Date and Time: 2018-06-19 09:49:35 Asia/Seoul

Calculation Setting

Drug Administration: Extravascular
Observation count excluding trailing zero: 13
Dose at time 0: 0 mg
AUC Calculation Method: Linear-up Linear-down
Weighting for lambda z: Uniform (Ordinary Least Square, OLS)
Lambda z selection criterion: Heighest adjusted R-squared value with precision=1e-4

Fitting, AUC, AUMC Result

	Time		Conc.	Pred.	Residual	AUC	AUMC
	0.0000		0.1200			0.0000	0.0000
	0.2900		221.0100			32.0638	9.2935
	0.4600		272.8200			74.0394	25.4086
	0.7200		408.3500			162.5915	79.9448
	1.0100		447.2600			286.6550	188.0778
	2.0200		349.3000			688.9178	772.5237
	2.9800		376.4100			1037.2586	1649.6218
	4.0100		370.3900			1421.8605	2992.2092
	6.0400		226.6800			2027.8866	5889.4364
	7.9900	*	239.4500	243.4327	-3.983e+00	2482.3634	9089.7303
	9.6000	*	182.7300	189.7085	-6.978e+00	2898.2107	12766.9287
	12.0400	*	155.7500	145.7968	+9.953e+00	3250.2298	16609.9583
	24.0400	*	31.5400	31.9228	-3.828e-01	4373.9698	32410.6679

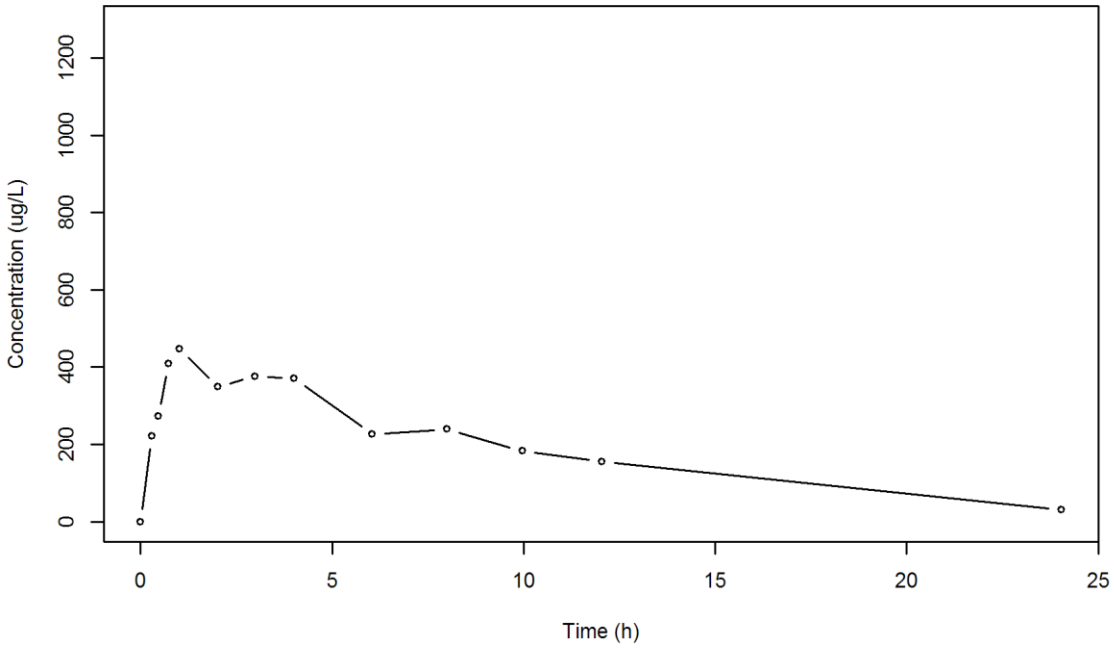
*: Used for the calculation of Lambda z.

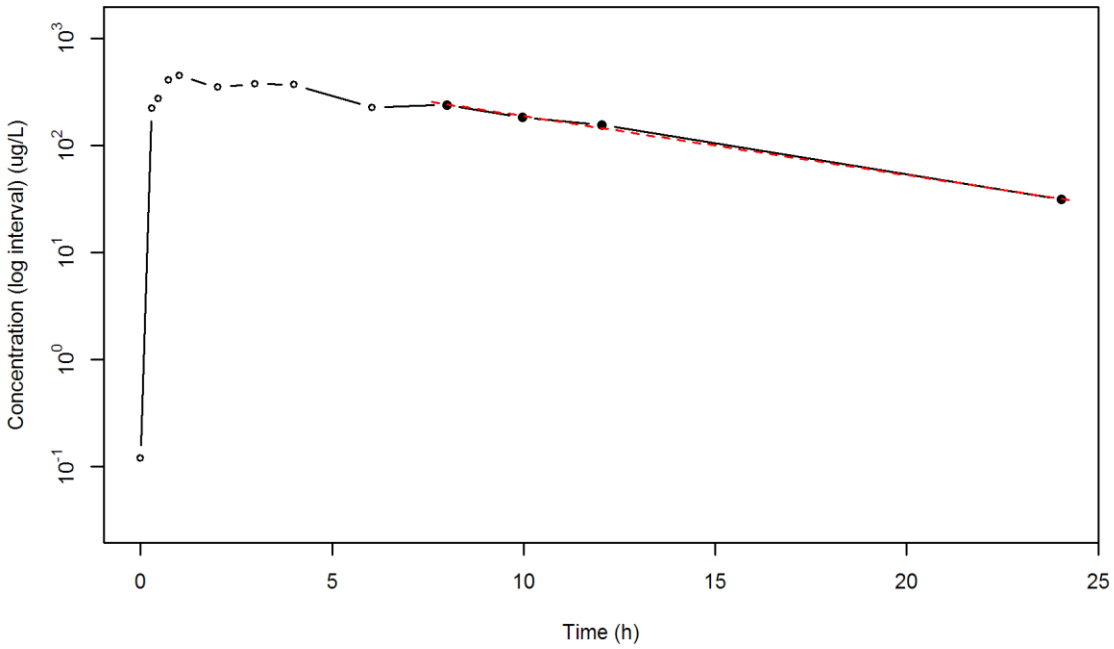
Calculated Values

CMAX	Max Conc	447.2600	ug/L
TMAX	Time of CMAX	1.0100	h
TLAG	Time Until First Nonzero Conc	0.0000	h
CLST	Last Nonzero Conc	31.5400	ug/L
CLSTP	Last Nonzero Conc Pred	31.9228	ug/L
TLST	Time of Last Nonzero Conc	24.0400	h
LAMZHL	Half-Life Lambda z	5.4762	h
LAMZ	Lambda z	0.1266	/h
LAMZLL	Lambda z Lower Limit	7.9900	h
LAMZUL	Lambda z Upper Limit	24.0400	h
LAMZNPT	Number of Points for Lambda z	4	
CORRXY	Correlation Between TimeX and Log ConcY	-0.9988	
R2	R Squared	0.9975	
R2ADJ	R Squared Adjusted	0.9963	
AUCLST	AUC to Last Nonzero Conc	4373.9698	h*ug/L

AUCALL	AUC All	4373.9698	h*ug/L
AUCIFO	AUC Infinity Obs	4623.1512	h*ug/L
AUCIFP	AUC Infinity Pred	4626.1755	h*ug/L
AUCPEO	AUC %Extrapolation Obs	5.3899	%
AUCPEP	AUC %Extrapolation Pred	5.4517	%
AUMCLST	AUMC to Last Nonzero Conc	32410.6679	h2*ug/L
AUMCIFO	AUMC Infinity Obs	40369.6431	h2*ug/L
AUMCIFP	AUMC Infinity Pred	40466.2389	h2*ug/L
AUMCPEO	AUMC %Extrapolation Obs	19.7152	%
AUMCPEP	AUMC % Extrapolation Pred	19.9069	%
VZFO	Vz Obs by F	0.0000	L
VZFP	Vz Pred by F	0.0000	L
CLFO	Total CL Obs by F	0.0000	L/h
CLFP	Total CL Pred by F	0.0000	L/h
MRTEVLST	MRT Extravasc to Last Nonzero Conc	7.4099	h
MRTEVIFO	MRT Extravasc Infinity Obs	8.7321	h
MRTEVIFP	MRT Extravasc Infinity Pred	8.7472	h

SUBJ 2, GRP TR, PRD 1, TRT T





SUBJ 2, GRP TR, PRD 2, TRT R

NONCOMPARTMENTAL ANALYSIS REPORT
Package version 0.3.9 (2018-05-10 KST)
R version 3.5.0 (2018-04-23)

Date and Time: 2018-06-19 09:49:35 Asia/Seoul

Calculation Setting

Drug Administration: Extravascular
Observation count excluding trailing zero: 13
Dose at time 0: 0 mg
AUC Calculation Method: Linear-up Linear-down
Weighting for lambda z: Uniform (Ordinary Least Square, OLS)
Lambda z selection criterion: Heighest adjusted R-squared value with precision=1e-4

Fitting, AUC, AUMC Result

	Time		Conc.	Pred.	Residual	AUC	AUMC
	0.0000		0.0000			0.0000	0.0000
	0.2500		331.4300			41.4288	10.3572
	0.5300		567.3200			167.2538	64.0524
	0.7200		524.7800			271.0033	128.5119
	0.9700		567.5200			407.5408	244.5539
	1.9800		783.9200			1090.0180	1306.3952
	2.9900		486.9800			1731.8225	2825.5522
	4.0400	*	509.0200	506.0084	+3.012e+00	2254.7225	4669.6205
	6.0200	*	397.4600	395.6395	+1.820e+00	3152.1376	9074.2790
	7.9900	*	287.1000	309.7286	-2.263e+01	3826.4293	13690.6176
	10.0200	*	271.0400	240.6716	+3.037e+01	4392.9414	18775.5137
	11.9800	*	178.7500	188.6454	-9.895e+00	4833.7356	23535.6146
	24.0200	*	42.2700	42.2536	+1.645e-02	6164.2760	42539.2520

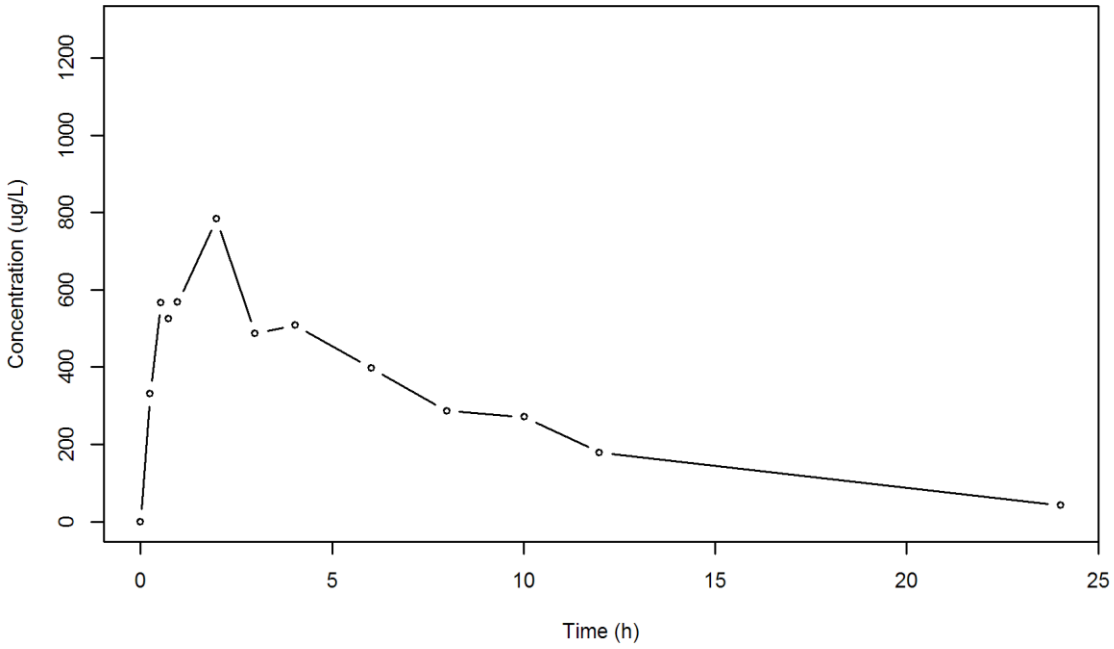
*: Used for the calculation of Lambda z.

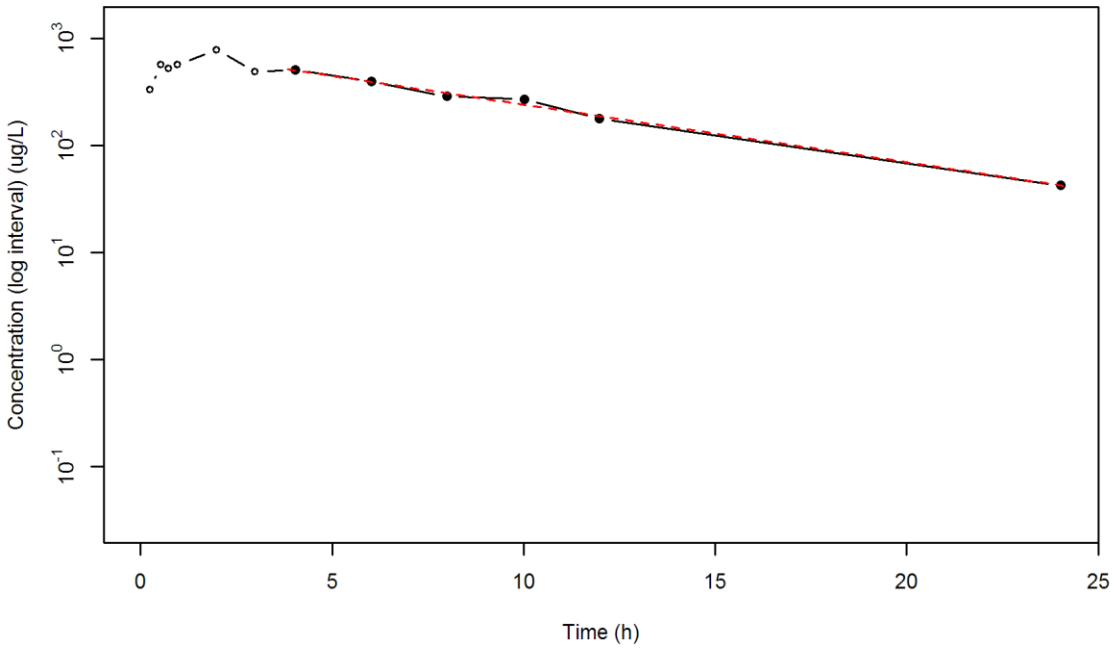
Calculated Values

CMAX	Max Conc	783.9200	ug/L
TMAX	Time of CMAX	1.9800	h
TLAG	Time Until First Nonzero Conc	0.0000	h
CLST	Last Nonzero Conc	42.2700	ug/L
CLSTP	Last Nonzero Conc Pred	42.2536	ug/L
TLST	Time of Last Nonzero Conc	24.0200	h
LAMZHL	Half-Life Lambda z	5.5779	h
LAMZ	Lambda z	0.1243	/h
LAMZLL	Lambda z Lower Limit	4.0400	h
LAMZUL	Lambda z Upper Limit	24.0200	h
LAMZNPT	Number of Points for Lambda z	6	
CORRXY	Correlation Between TimeX and Log ConcY	-0.9971	
R2	R Squared	0.9942	
R2ADJ	R Squared Adjusted	0.9927	
AUCLST	AUC to Last Nonzero Conc	6164.2760	h*ug/L

AUCALL	AUC All	6164.2760	h*ug/L
AUCIFO	AUC Infinity Obs	6504.4292	h*ug/L
AUCIFP	AUC Infinity Pred	6504.2969	h*ug/L
AUCPEO	AUC %Extrapolation Obs	5.2296	%
AUCPEP	AUC %Extrapolation Pred	5.2276	%
AUMCLST	AUMC to Last Nonzero Conc	42539.2520	h2*ug/L
AUMCIFO	AUMC Infinity Obs	53447.0006	h2*ug/L
AUMCIFP	AUMC Infinity Pred	53442.7567	h2*ug/L
AUMCPEO	AUMC %Extrapolation Obs	20.4085	%
AUMCPEP	AUMC % Extrapolation Pred	20.4022	%
VZFO	Vz Obs by F	0.0000	L
VZFP	Vz Pred by F	0.0000	L
CLFO	Total CL Obs by F	0.0000	L/h
CLFP	Total CL Pred by F	0.0000	L/h
MRTEVLST	MRT Extravasc to Last Nonzero Conc	6.9009	h
MRTEVIFO	MRT Extravasc Infinity Obs	8.2170	h
MRTEVIFP	MRT Extravasc Infinity Pred	8.2165	h

SUBJ 2, GRP TR, PRD 2, TRT R





SUBJ 3, GRP TR, PRD 1, TRT T

NONCOMPARTMENTAL ANALYSIS REPORT
Package version 0.3.9 (2018-05-10 KST)
R version 3.5.0 (2018-04-23)

Date and Time: 2018-06-19 09:49:35 Asia/Seoul

Calculation Setting

Drug Administration: Extravascular
Observation count excluding trailing zero: 13
Dose at time 0: 0 mg
AUC Calculation Method: Linear-up Linear-down
Weighting for lambda z: Uniform (Ordinary Least Square, OLS)
Lambda z selection criterion: Heighest adjusted R-squared value with precision=1e-4

Fitting, AUC, AUMC Result

	Time		Conc.	Pred.	Residual	AUC	AUMC
	0.0000		0.2300			0.0000	0.0000
	0.2500		288.3100			36.0675	9.0097
	0.5300		444.4700			138.6567	52.0802
	0.7300		507.6200			233.8657	112.6934
	0.9800		459.6800			354.7782	215.3245
	2.0100		555.9800			877.8431	1022.8477
	3.0000		444.8300			1373.2441	2236.5926
	3.9800		379.0300			1776.9355	3629.6770
	5.9600		306.2500			2455.3627	6930.1285
	8.0400	*	181.6900	177.3527	+4.337e+00	2962.8202	10347.6076
	9.9900	*	113.9300	119.6727	-5.743e+00	3251.0497	12881.5822
	11.9800	*	82.1500	80.1028	+2.047e+00	3446.1494	14993.2883
	24.0400	*	7.0300	7.0316	-1.553e-03	3983.9048	21946.8322

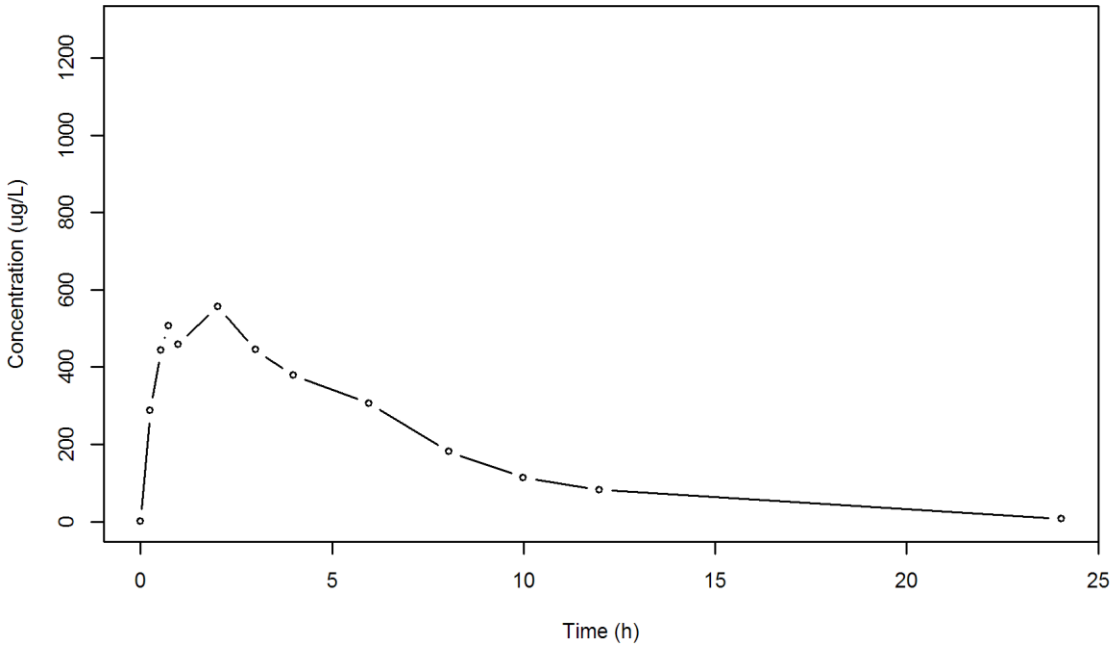
*: Used for the calculation of Lambda z.

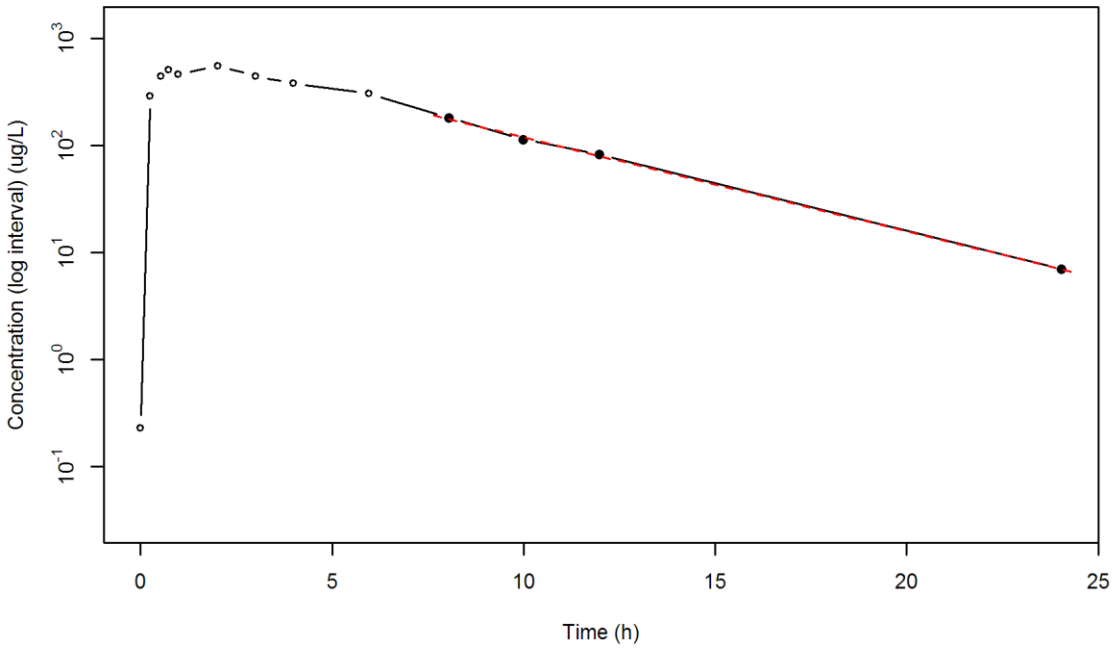
Calculated Values

CMAX	Max Conc	555.9800	ug/L
TMAX	Time of CMAX	2.0100	h
TLAG	Time Until First Nonzero Conc	0.0000	h
CLST	Last Nonzero Conc	7.0300	ug/L
CLSTP	Last Nonzero Conc Pred	7.0316	ug/L
TLST	Time of Last Nonzero Conc	24.0400	h
LAMZHL	Half-Life Lambda z	3.4360	h
LAMZ	Lambda z	0.2017	/h
LAMZLL	Lambda z Lower Limit	8.0400	h
LAMZUL	Lambda z Upper Limit	24.0400	h
LAMZNPT	Number of Points for Lambda z	4	
CORRXY	Correlation Between TimeX and Log ConcY	-0.9997	
R2	R Squared	0.9994	
R2ADJ	R Squared Adjusted	0.9991	
AUCLST	AUC to Last Nonzero Conc	3983.9048	h*ug/L

AUCALL	AUC All	3983.9048	h*ug/L
AUCIFO	AUC Infinity Obs	4018.7527	h*ug/L
AUCIFP	AUC Infinity Pred	4018.7604	h*ug/L
AUCPEO	AUC %Extrapolation Obs	0.8671	%
AUCPEP	AUC %Extrapolation Pred	0.8673	%
AUMCLST	AUMC to Last Nonzero Conc	21946.8322	h2*ug/L
AUMCIFO	AUMC Infinity Obs	22957.3208	h2*ug/L
AUMCIFP	AUMC Infinity Pred	22957.5440	h2*ug/L
AUMCPEO	AUMC %Extrapolation Obs	4.4016	%
AUMCPEP	AUMC % Extrapolation Pred	4.4025	%
VZFO	Vz Obs by F	0.0000	L
VZFP	Vz Pred by F	0.0000	L
CLFO	Total CL Obs by F	0.0000	L/h
CLFP	Total CL Pred by F	0.0000	L/h
MRTEVLST	MRT Extravasc to Last Nonzero Conc	5.5089	h
MRTEVIFO	MRT Extravasc Infinity Obs	5.7125	h
MRTEVIFP	MRT Extravasc Infinity Pred	5.7126	h

SUBJ 3, GRP TR, PRD 1, TRT T





SUBJ 3, GRP TR, PRD 2, TRT R

NONCOMPARTMENTAL ANALYSIS REPORT
Package version 0.3.9 (2018-05-10 KST)
R version 3.5.0 (2018-04-23)

Date and Time: 2018-06-19 09:49:35 Asia/Seoul

Calculation Setting

Drug Administration: Extravascular
Observation count excluding trailing zero: 13
Dose at time 0: 0 mg
AUC Calculation Method: Linear-up Linear-down
Weighting for lambda z: Uniform (Ordinary Least Square, OLS)
Lambda z selection criterion: Heighest adjusted R-squared value with precision=1e-4

Fitting, AUC, AUMC Result

	Time		Conc.	Pred.	Residual	AUC	AUMC
	0.0000		0.0000			0.0000	0.0000
	0.2300		503.6800			57.9232	13.3223
	0.4800		684.3100			206.4219	68.8617
	0.7700		659.1800			401.2280	190.0872
	0.9800		758.6400			550.0991	321.4459
	2.0000		552.4500			1218.7550	1264.1132
	3.0400		454.8200			1742.5354	2557.6406
	4.0100		363.6500			2139.4933	3935.4720
	5.9700	*	152.2700	139.1189	+1.315e+01	2645.0949	6255.4146
	7.9700	*	89.3800	84.8394	+4.541e+00	2886.7449	7876.8251
	9.9700	*	51.4300	51.7380	-3.080e-01	3027.5549	9101.9408
	11.9600	*	25.9500	31.6297	-5.680e+00	3104.5481	9920.9443
	23.9600	*	1.7300	1.6269	+1.031e-01	3270.6280	12031.8211

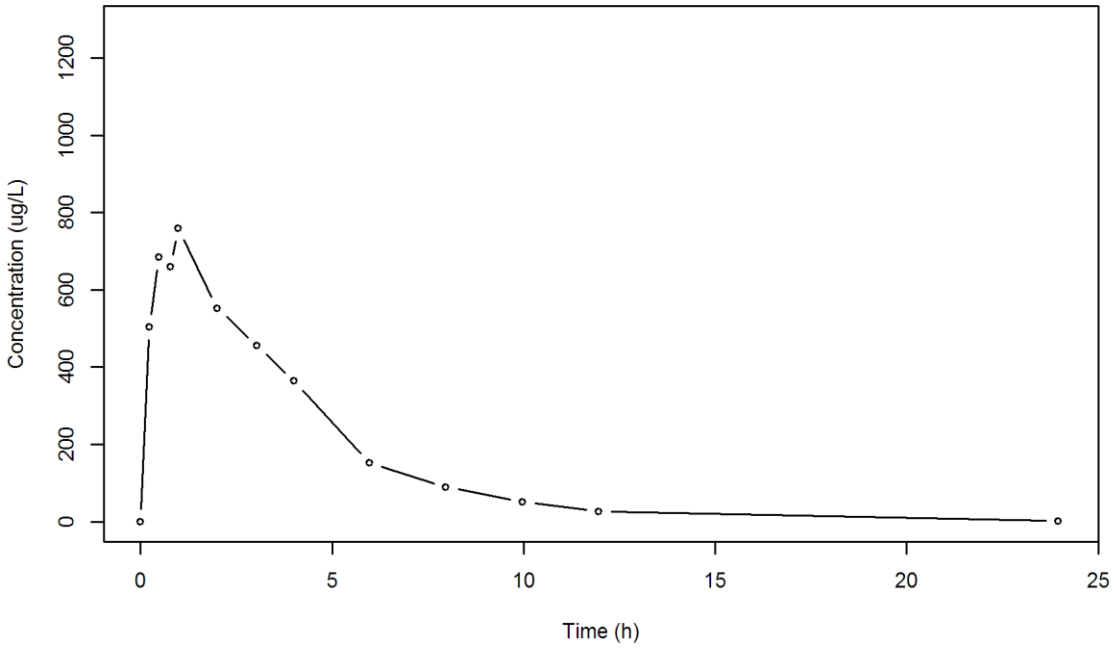
*: Used for the calculation of Lambda z.

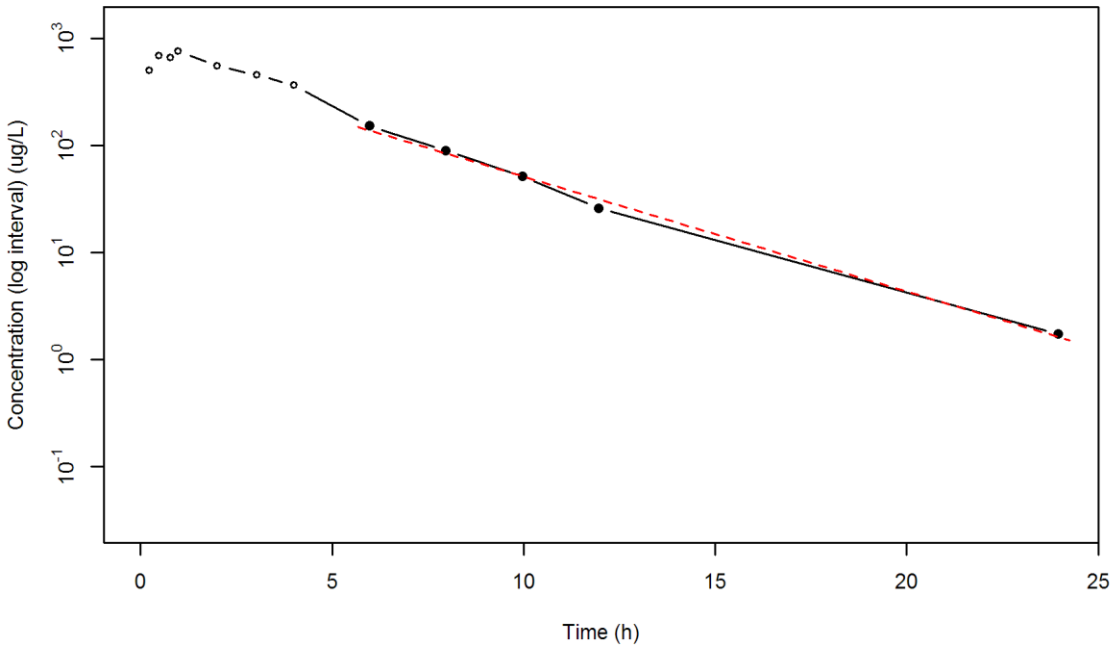
Calculated Values

CMAX	Max Conc	758.6400	ug/L
TMAX	Time of CMAX	0.9800	h
TLAG	Time Until First Nonzero Conc	0.0000	h
CLST	Last Nonzero Conc	1.7300	ug/L
CLSTP	Last Nonzero Conc Pred	1.6269	ug/L
TLST	Time of Last Nonzero Conc	23.9600	h
LAMZHL	Half-Life Lambda z	2.8030	h
LAMZ	Lambda z	0.2473	/h
LAMZLL	Lambda z Lower Limit	5.9700	h
LAMZUL	Lambda z Upper Limit	23.9600	h
LAMZNPT	Number of Points for Lambda z	5	
CORRXY	Correlation Between TimeX and Log ConcY	-0.9978	
R2	R Squared	0.9956	
R2ADJ	R Squared Adjusted	0.9941	
AUCLST	AUC to Last Nonzero Conc	3270.6280	h*ug/L

AUCALL	AUC All	3270.6280	h*ug/L
AUCIFO	AUC Infinity Obs	3277.6241	h*ug/L
AUCIFP	AUC Infinity Pred	3277.2072	h*ug/L
AUCPEO	AUC %Extrapolation Obs	0.2134	%
AUCPEP	AUC %Extrapolation Pred	0.2008	%
AUMCLST	AUMC to Last Nonzero Conc	12031.8211	h2*ug/L
AUMCIFO	AUMC Infinity Obs	12227.7367	h2*ug/L
AUMCIFP	AUMC Infinity Pred	12216.0632	h2*ug/L
AUMCPEO	AUMC %Extrapolation Obs	1.6022	%
AUMCPEP	AUMC % Extrapolation Pred	1.5082	%
VZFO	Vz Obs by F	0.0000	L
VZFP	Vz Pred by F	0.0000	L
CLFO	Total CL Obs by F	0.0000	L/h
CLFP	Total CL Pred by F	0.0000	L/h
MRTEVLST	MRT Extravasc to Last Nonzero Conc	3.6787	h
MRTEVIFO	MRT Extravasc Infinity Obs	3.7307	h
MRTEVIFP	MRT Extravasc Infinity Pred	3.7276	h

SUBJ 3, GRP TR, PRD 2, TRT R





SUBJ 4, GRP TR, PRD 1, TRT T

NONCOMPARTMENTAL ANALYSIS REPORT
Package version 0.3.9 (2018-05-10 KST)
R version 3.5.0 (2018-04-23)

Date and Time: 2018-06-19 09:49:35 Asia/Seoul

Calculation Setting

Drug Administration: Extravascular
Observation count excluding trailing zero: 13
Dose at time 0: 0 mg
AUC Calculation Method: Linear-up Linear-down
Weighting for lambda z: Uniform (Ordinary Least Square, OLS)
Lambda z selection criterion: Heighest adjusted R-squared value with precision=1e-4

Fitting, AUC, AUMC Result

	Time	Conc.	Pred.	Residual	AUC	AUMC
	0.0000	0.0000			0.0000	0.0000
	0.2400	475.0300			57.0036	13.6809
	0.5400	708.1800			234.4851	88.1445
	0.7800	706.0500			404.1927	200.1209
	0.9700	686.6500			536.4992	315.7140
	1.9700	824.4200			1292.0342	1460.7929
	2.9600 *	611.1000	598.8248	+1.228e+01	2002.6166	3160.1098
	3.9600 *	517.9000	502.6741	+1.523e+01	2567.1166	5089.9798
	6.0500 *	355.5800	348.6733	+6.907e+00	3479.9032	9481.2192
	7.9600 *	239.1300	249.5935	-1.046e+01	4047.8513	13353.4900
	10.0400 *	161.5200	173.4306	-1.191e+01	4464.5273	17019.6310
	12.0300 *	125.5600	122.4219	+3.138e+00	4750.1719	20136.1179
	23.9900 *	15.3800	15.0918	+2.882e-01	5592.9931	31375.2468

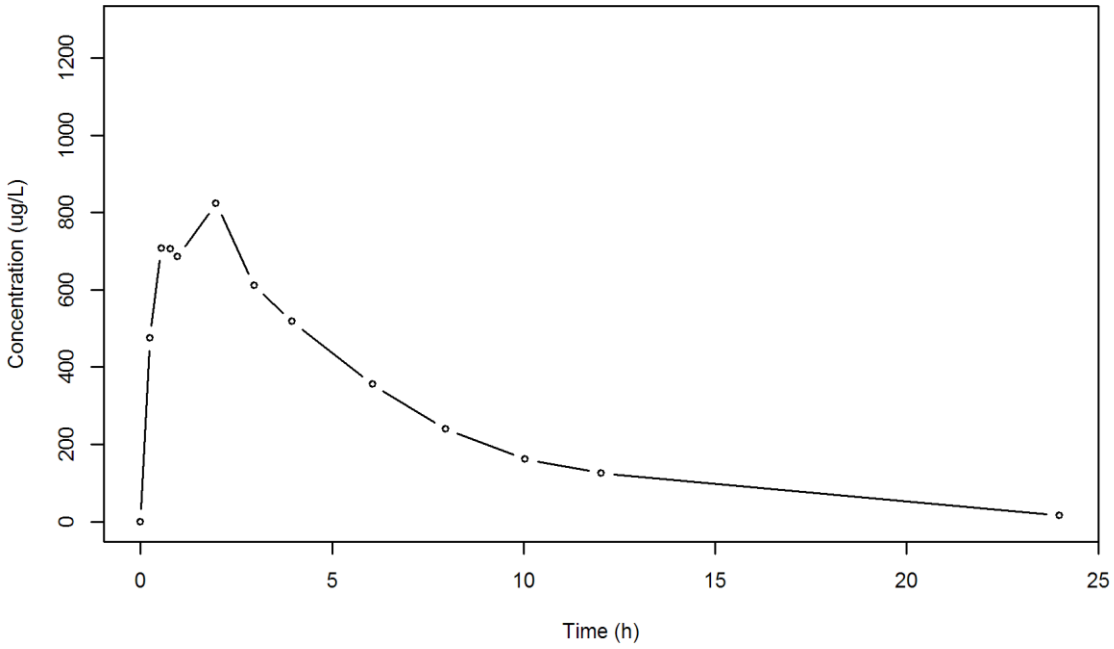
*: Used for the calculation of Lambda z.

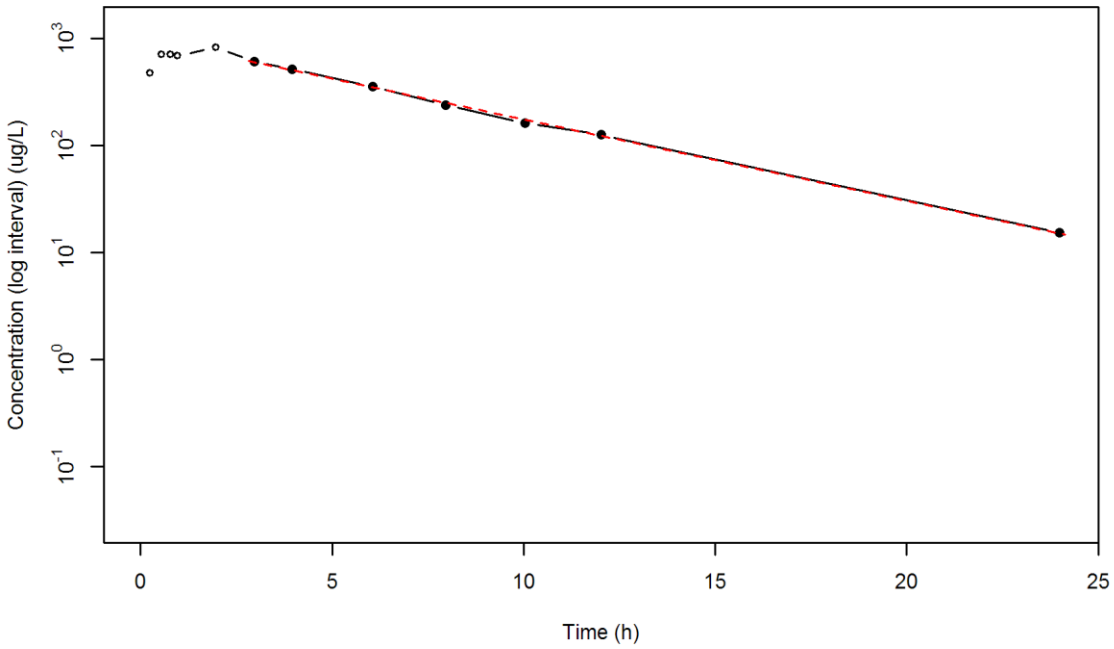
Calculated Values

CMAX	Max Conc	824.4200	ug/L
TMAX	Time of CMAX	1.9700	h
TLAG	Time Until First Nonzero Conc	0.0000	h
CLST	Last Nonzero Conc	15.3800	ug/L
CLSTP	Last Nonzero Conc Pred	15.0918	ug/L
TLST	Time of Last Nonzero Conc	23.9900	h
LAMZHL	Half-Life Lambda z	3.9602	h
LAMZ	Lambda z	0.1750	/h
LAMZLL	Lambda z Lower Limit	2.9600	h
LAMZUL	Lambda z Upper Limit	23.9900	h
LAMZNPT	Number of Points for Lambda z	7	
CORRXY	Correlation Between TimeX and Log ConcY	-0.9995	
R2	R Squared	0.9990	
R2ADJ	R Squared Adjusted	0.9988	
AUCLST	AUC to Last Nonzero Conc	5592.9931	h*ug/L

AUCALL	AUC All	5592.9931	h*ug/L
AUCIFO	AUC Infinity Obs	5680.8652	h*ug/L
AUCIFP	AUC Infinity Pred	5679.2184	h*ug/L
AUCPEO	AUC %Extrapolation Obs	1.5468	%
AUCPEP	AUC %Extrapolation Pred	1.5183	%
AUMCLST	AUMC to Last Nonzero Conc	31375.2468	h2*ug/L
AUMCIFO	AUMC Infinity Obs	33985.3477	h2*ug/L
AUMCIFP	AUMC Infinity Pred	33936.4335	h2*ug/L
AUMCPEO	AUMC %Extrapolation Obs	7.6801	%
AUMCPEP	AUMC % Extrapolation Pred	7.5470	%
VZFO	Vz Obs by F	0.0000	L
VZFP	Vz Pred by F	0.0000	L
CLFO	Total CL Obs by F	0.0000	L/h
CLFP	Total CL Pred by F	0.0000	L/h
MRTEVLST	MRT Extravasc to Last Nonzero Conc	5.6097	h
MRTEVIFO	MRT Extravasc Infinity Obs	5.9824	h
MRTEVIFP	MRT Extravasc Infinity Pred	5.9755	h

SUBJ 4, GRP TR, PRD 1, TRT T





SUBJ 4, GRP TR, PRD 2, TRT R

NONCOMPARTMENTAL ANALYSIS REPORT
Package version 0.3.9 (2018-05-10 KST)
R version 3.5.0 (2018-04-23)

Date and Time: 2018-06-19 09:49:35 Asia/Seoul

Calculation Setting

Drug Administration: Extravascular
Observation count excluding trailing zero: 13
Dose at time 0: 0 mg
AUC Calculation Method: Linear-up Linear-down
Weighting for lambda z: Uniform (Ordinary Least Square, OLS)
Lambda z selection criterion: Heighest adjusted R-squared value with precision=1e-4

Fitting, AUC, AUMC Result

	Time		Conc.	Pred.	Residual	AUC	AUMC
	0.0000		0.0000			0.0000	0.0000
	0.2500		451.0400			56.3800	14.0950
	0.4800		597.3300			176.9426	60.0350
	0.7200		642.1200			325.6766	149.9204
	0.9700		646.3100			486.7303	286.0763
	1.9800		588.1100			1110.1124	1190.7224
	3.0400		493.2300			1683.2226	2602.5772
	3.9600		505.0300			2142.4222	4212.2727
	6.0400		382.5700			3065.5262	8695.3400
	8.0200		298.1100			3739.3994	13349.8893
	10.0100	*	223.1000	222.7981	+3.019e-01	4258.0034	17950.8422
	12.0100	*	175.2500	175.5272	-2.772e-01	4656.3534	22288.8257
	23.9900	*	42.0800	42.0705	+9.513e-03	5958.1600	40943.1933

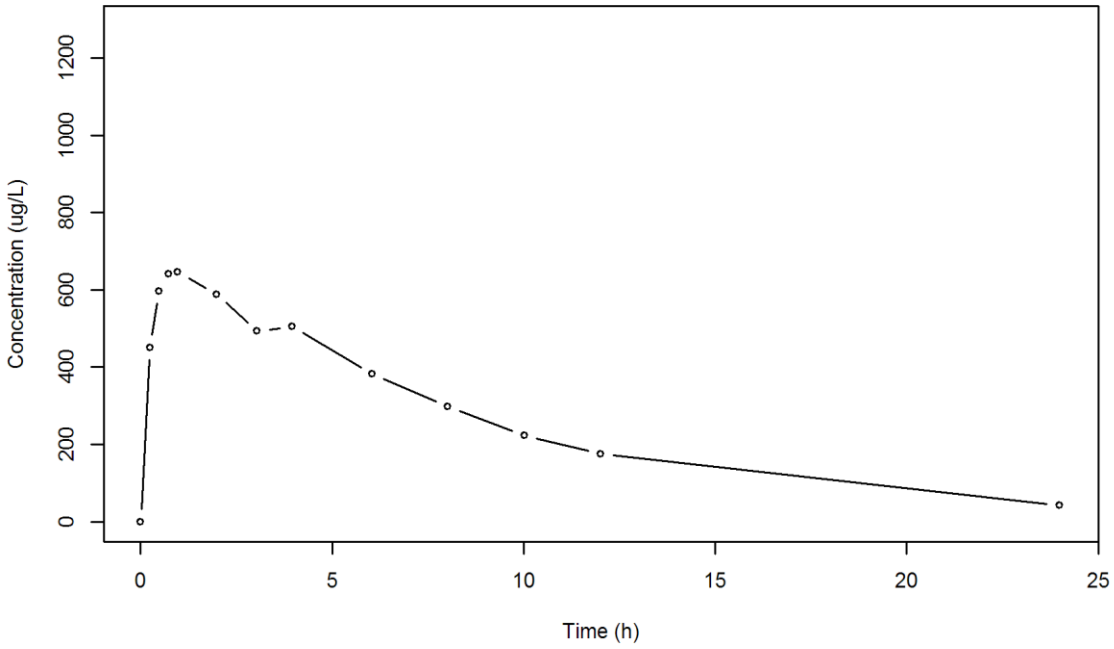
*: Used for the calculation of Lambda z.

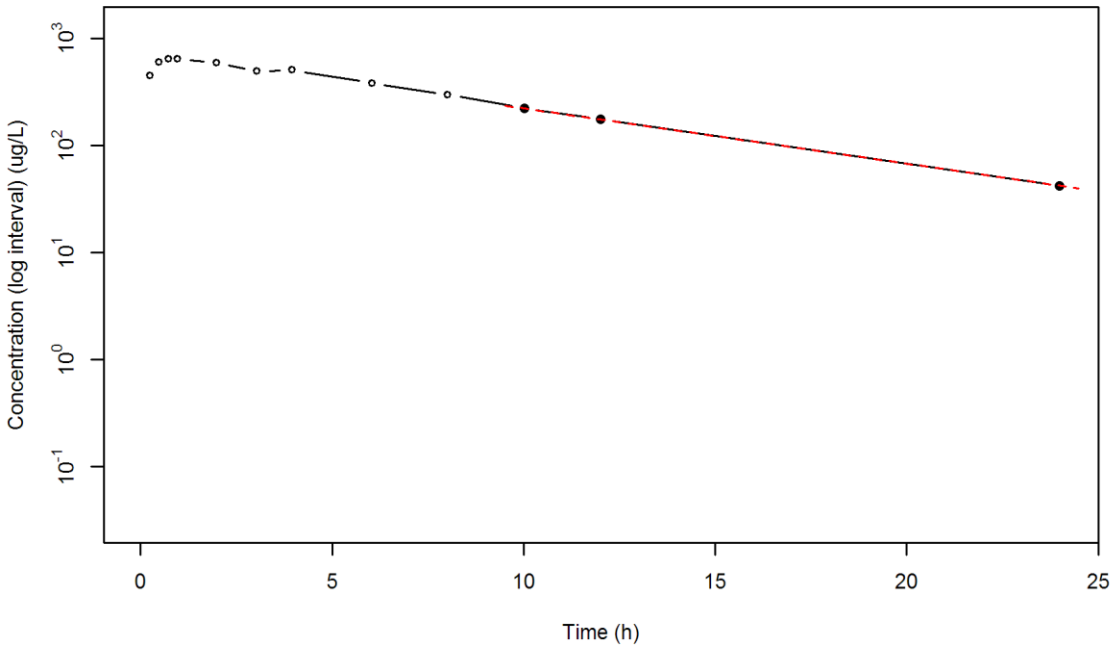
Calculated Values

CMAX	Max Conc	646.3100	ug/L
TMAX	Time of CMAX	0.9700	h
TLAG	Time Until First Nonzero Conc	0.0000	h
CLST	Last Nonzero Conc	42.0800	ug/L
CLSTP	Last Nonzero Conc Pred	42.0705	ug/L
TLST	Time of Last Nonzero Conc	23.9900	h
LAMZHL	Half-Life Lambda z	5.8132	h
LAMZ	Lambda z	0.1192	/h
LAMZLL	Lambda z Lower Limit	10.0100	h
LAMZUL	Lambda z Upper Limit	23.9900	h
LAMZNPT	Number of Points for Lambda z	3	
CORRXY	Correlation Between TimeX and Log ConcY	-1.0000	
R2	R Squared	1.0000	
R2ADJ	R Squared Adjusted	1.0000	
AUCLST	AUC to Last Nonzero Conc	5958.1600	h*ug/L

AUCALL	AUC All	5958.1600	h*ug/L
AUCIFO	AUC Infinity Obs	6311.0736	h*ug/L
AUCIFP	AUC Infinity Pred	6310.9938	h*ug/L
AUCPEO	AUC %Extrapolation Obs	5.5920	%
AUCPEP	AUC %Extrapolation Pred	5.5908	%
AUMCLST	AUMC to Last Nonzero Conc	40943.1933	h2*ug/L
AUMCIFO	AUMC Infinity Obs	52369.3788	h2*ug/L
AUMCIFP	AUMC Infinity Pred	52366.7958	h2*ug/L
AUMCPEO	AUMC %Extrapolation Obs	21.8184	%
AUMCPEP	AUMC % Extrapolation Pred	21.8146	%
VZFO	Vz Obs by F	0.0000	L
VZFP	Vz Pred by F	0.0000	L
CLFO	Total CL Obs by F	0.0000	L/h
CLFP	Total CL Pred by F	0.0000	L/h
MRTEVLST	MRT Extravasc to Last Nonzero Conc	6.8718	h
MRTEVIFO	MRT Extravasc Infinity Obs	8.2980	h
MRTEVIFP	MRT Extravasc Infinity Pred	8.2977	h

SUBJ 4, GRP TR, PRD 2, TRT R





SUBJ 5, GRP TR, PRD 1, TRT T

NONCOMPARTMENTAL ANALYSIS REPORT
Package version 0.3.9 (2018-05-10 KST)
R version 3.5.0 (2018-04-23)

Date and Time: 2018-06-19 09:49:35 Asia/Seoul

Calculation Setting

Drug Administration: Extravascular
Observation count excluding trailing zero: 13
Dose at time 0: 0 mg
AUC Calculation Method: Linear-up Linear-down
Weighting for lambda z: Uniform (Ordinary Least Square, OLS)
Lambda z selection criterion: Heighest adjusted R-squared value with precision=1e-4

Fitting, AUC, AUMC Result

	Time		Conc.	Pred.	Residual	AUC	AUMC
	0.0000		0.0000			0.0000	0.0000
	0.2300		382.7900			44.0209	10.1248
	0.4500		477.0300			138.6010	43.4224
	0.8000		803.7000			362.7288	193.5065
	1.0200		692.0300			527.2591	341.8778
	2.0400		516.7500			1143.7369	1239.4986
	3.0000		474.4800			1619.5273	2428.7514
	3.9800		496.7200			2095.4153	4094.9403
	5.9800		220.4800			2812.6153	7390.3563
	8.0200		121.2300			3161.1595	9726.9060
	9.9700	*	99.9600	94.6625	+5.297e+00	3376.8198	11646.5502
	12.0000	*	56.7300	60.4581	-3.728e+00	3535.8601	13349.0718
	24.0200	*	4.2900	4.2507	+3.927e-02	3902.5903	18059.7446

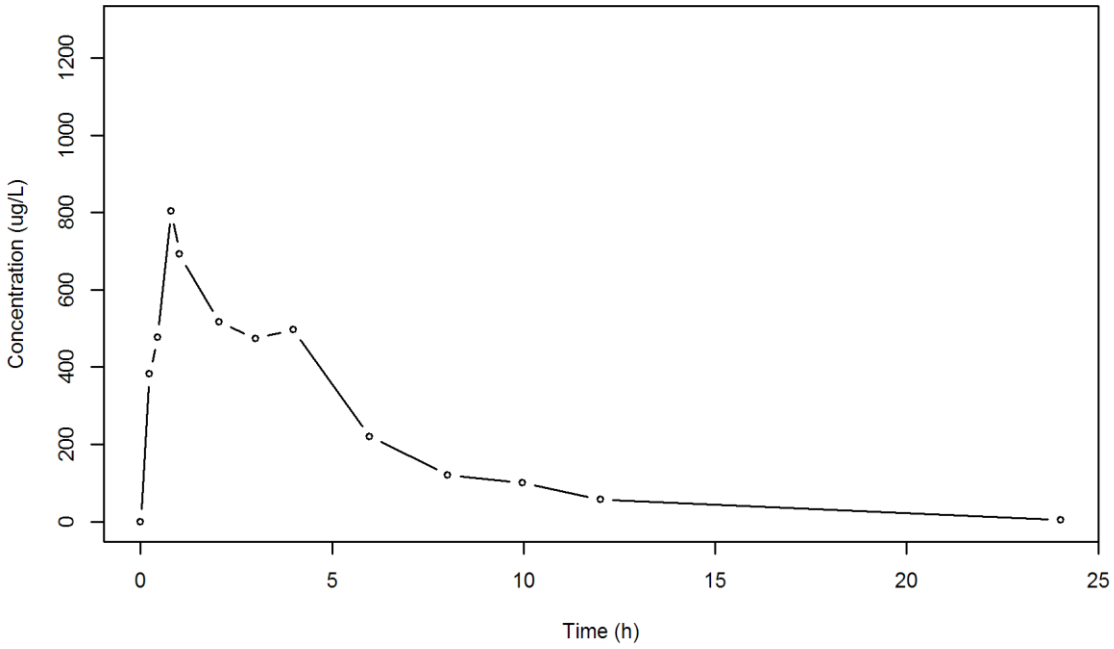
*: Used for the calculation of Lambda z.

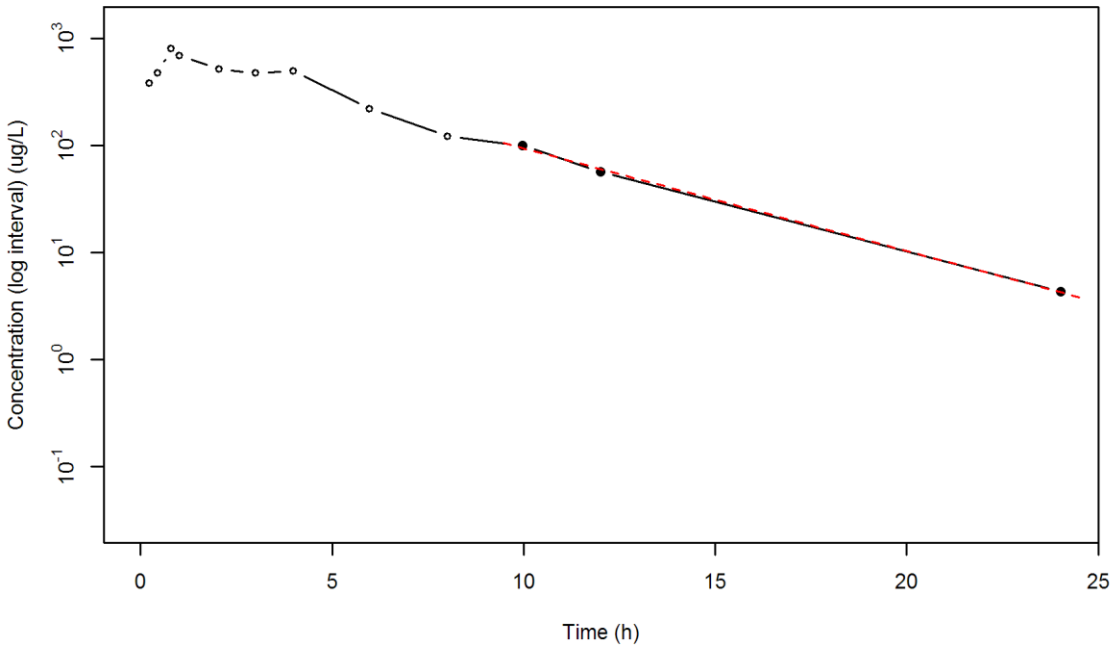
Calculated Values

CMAX	Max Conc	803.7000	ug/L
TMAX	Time of CMAX	0.8000	h
TLAG	Time Until First Nonzero Conc	0.0000	h
CLST	Last Nonzero Conc	4.2900	ug/L
CLSTP	Last Nonzero Conc Pred	4.2507	ug/L
TLST	Time of Last Nonzero Conc	24.0200	h
LAMZHL	Half-Life Lambda z	3.1383	h
LAMZ	Lambda z	0.2209	/h
LAMZLL	Lambda z Lower Limit	9.9700	h
LAMZUL	Lambda z Upper Limit	24.0200	h
LAMZNPT	Number of Points for Lambda z	3	
CORRXY	Correlation Between TimeX and Log ConcY	-0.9994	
R2	R Squared	0.9987	
R2ADJ	R Squared Adjusted	0.9975	
AUCLST	AUC to Last Nonzero Conc	3902.5903	h*ug/L

AUCALL	AUC All	3902.5903	h*ug/L
AUCIFO	AUC Infinity Obs	3922.0135	h*ug/L
AUCIFP	AUC Infinity Pred	3921.8357	h*ug/L
AUCPEO	AUC %Extrapolation Obs	0.4952	%
AUCPEP	AUC %Extrapolation Pred	0.4907	%
AUMCLST	AUMC to Last Nonzero Conc	18059.7446	h2*ug/L
AUMCIFO	AUMC Infinity Obs	18614.2283	h2*ug/L
AUMCIFP	AUMC Infinity Pred	18609.1526	h2*ug/L
AUMCPEO	AUMC %Extrapolation Obs	2.9788	%
AUMCPEP	AUMC % Extrapolation Pred	2.9524	%
VZFO	Vz Obs by F	0.0000	L
VZFP	Vz Pred by F	0.0000	L
CLFO	Total CL Obs by F	0.0000	L/h
CLFP	Total CL Pred by F	0.0000	L/h
MRTEVLST	MRT Extravasc to Last Nonzero Conc	4.6276	h
MRTEVIFO	MRT Extravasc Infinity Obs	4.7461	h
MRTEVIFP	MRT Extravasc Infinity Pred	4.7450	h

SUBJ 5, GRP TR, PRD 1, TRT T





SUBJ 5, GRP TR, PRD 2, TRT R

NONCOMPARTMENTAL ANALYSIS REPORT
Package version 0.3.9 (2018-05-10 KST)
R version 3.5.0 (2018-04-23)

Date and Time: 2018-06-19 09:49:35 Asia/Seoul

Calculation Setting

Drug Administration: Extravascular
Observation count excluding trailing zero: 13
Dose at time 0: 0 mg
AUC Calculation Method: Linear-up Linear-down
Weighting for lambda z: Uniform (Ordinary Least Square, OLS)
Lambda z selection criterion: Heighest adjusted R-squared value with precision=1e-4

Fitting, AUC, AUMC Result

	Time		Conc.	Pred.	Residual	AUC	AUMC
	0.0000		0.0000			0.0000	0.0000
	0.2800		596.9800			83.5772	23.4016
	0.4700		832.7600			219.4025	76.4640
	0.7400		955.3000			460.7906	224.7371
	1.0000	*	798.7000	799.6722	-9.722e-01	688.8106	420.4680
	1.9900	*	669.5400	648.9864	+2.055e+01	1415.5894	1475.3548
	3.0300	*	581.2800	521.1702	+6.011e+01	2066.0158	3084.0596
	4.0000	*	428.1600	424.7516	+3.408e+00	2555.5942	4768.9100
	5.9600	*	252.9600	280.9404	-2.798e+01	3223.0918	7924.7860
	7.9500	*	173.5800	184.6484	-1.107e+01	3647.4991	10797.9506
	9.9600	*	131.0500	120.8495	+1.020e+01	3953.6523	13496.5957
	12.0200	*	69.8800	78.2645	-8.384e+00	4160.6102	15706.1677
	24.0500	*	6.5200	6.1903	+3.297e-01	4620.1562	21701.7008

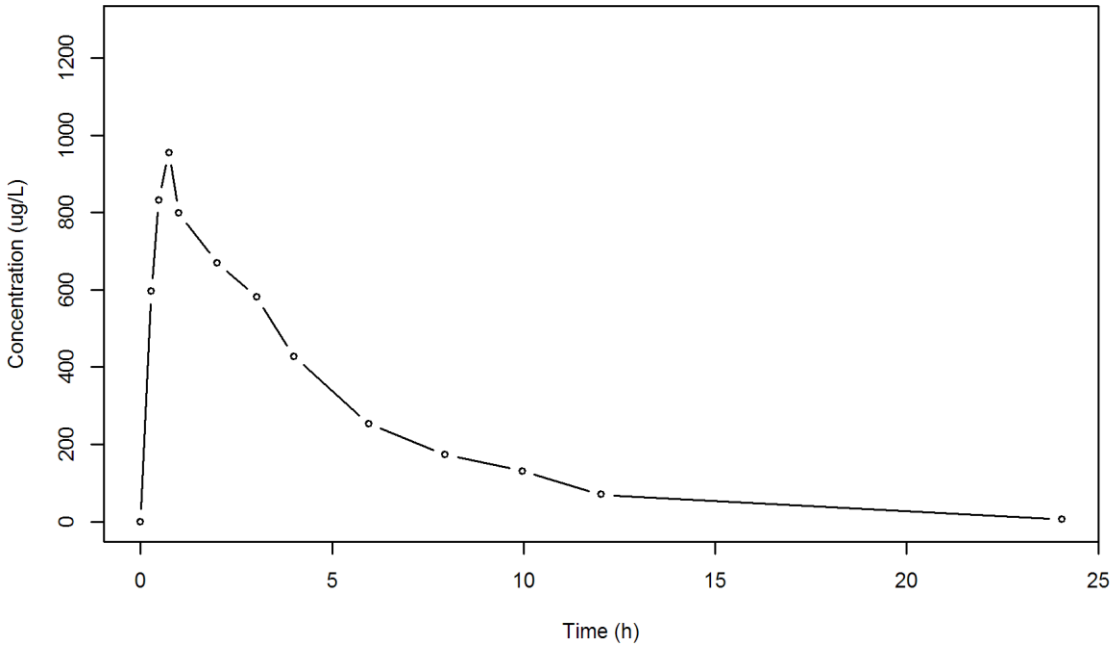
*: Used for the calculation of Lambda z.

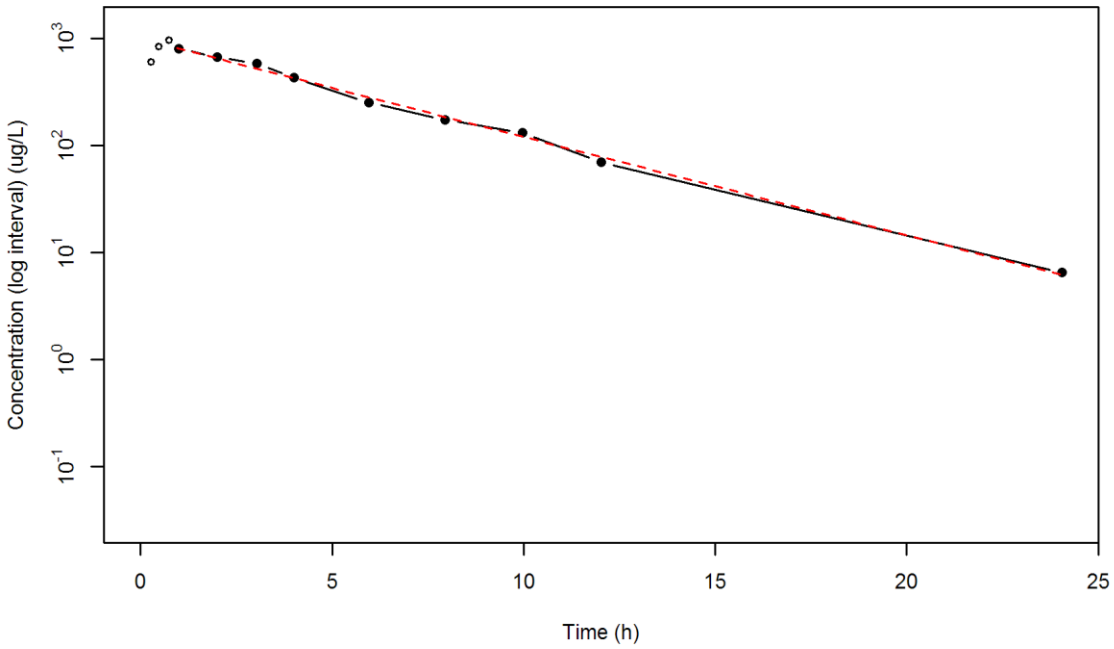
Calculated Values

CMAX	Max Conc	955.3000	ug/L
TMAX	Time of CMAX	0.7400	h
TLAG	Time Until First Nonzero Conc	0.0000	h
CLST	Last Nonzero Conc	6.5200	ug/L
CLSTP	Last Nonzero Conc Pred	6.1903	ug/L
TLST	Time of Last Nonzero Conc	24.0500	h
LAMZHL	Half-Life Lambda z	3.2866	h
LAMZ	Lambda z	0.2109	/h
LAMZLL	Lambda z Lower Limit	1.0000	h
LAMZUL	Lambda z Upper Limit	24.0500	h
LAMZNPT	Number of Points for Lambda z	9	
CORRXY	Correlation Between TimeX and Log ConcY	-0.9986	
R2	R Squared	0.9973	
R2ADJ	R Squared Adjusted	0.9969	
AUCLST	AUC to Last Nonzero Conc	4620.1562	h*ug/L

AUCALL	AUC All	4620.1562	h*ug/L
AUCIFO	AUC Infinity Obs	4651.0714	h*ug/L
AUCIFP	AUC Infinity Pred	4649.5079	h*ug/L
AUCPEO	AUC %Extrapolation Obs	0.6647	%
AUCPEP	AUC %Extrapolation Pred	0.6313	%
AUMCLST	AUMC to Last Nonzero Conc	21701.7008	h2*ug/L
AUMCIFO	AUMC Infinity Obs	22591.8007	h2*ug/L
AUMCIFP	AUMC Infinity Pred	22546.7860	h2*ug/L
AUMCPEO	AUMC %Extrapolation Obs	3.9399	%
AUMCPEP	AUMC % Extrapolation Pred	3.7481	%
VZFO	Vz Obs by F	0.0000	L
VZFP	Vz Pred by F	0.0000	L
CLFO	Total CL Obs by F	0.0000	L/h
CLFP	Total CL Pred by F	0.0000	L/h
MRTEVLST	MRT Extravasc to Last Nonzero Conc	4.6972	h
MRTEVIFO	MRT Extravasc Infinity Obs	4.8573	h
MRTEVIFP	MRT Extravasc Infinity Pred	4.8493	h

SUBJ 5, GRP TR, PRD 2, TRT R





SUBJ 6, GRP RT, PRD 1, TRT R

NONCOMPARTMENTAL ANALYSIS REPORT
Package version 0.3.9 (2018-05-10 KST)
R version 3.5.0 (2018-04-23)

Date and Time: 2018-06-19 09:49:35 Asia/Seoul

Calculation Setting

Drug Administration: Extravascular
Observation count excluding trailing zero: 12
Dose at time 0: 0 mg
AUC Calculation Method: Linear-up Linear-down
Weighting for lambda z: Uniform (Ordinary Least Square, OLS)
Lambda z selection criterion: Heighest adjusted R-squared value with precision=1e-4

Fitting, AUC, AUMC Result

	Time		Conc.	Pred.	Residual	AUC	AUMC
	0.0000		1.3800			0.0000	0.0000
	0.2800		801.9500			112.4662	31.4364
	0.4800		915.3800			284.1992	97.8293
	0.7600		861.2800			532.9316	250.9830
	1.0200		995.3400			774.2922	468.0596
	1.9900	*	782.7900	771.2530	+1.154e+01	1636.6853	1715.9640
	2.9700	*	584.9000	538.0006	+4.690e+01	2306.8534	3330.4675
	4.0100	*	314.0700	367.1067	-5.304e+01	2774.3178	4888.6858
	6.0400	*	191.3500	174.0971	+1.725e+01	3287.3191	7340.0882
	7.9900	*	79.1100	85.0275	-5.918e+00	3551.0176	9083.2350
	10.0100	*	41.9100	40.4720	+1.438e+00	3673.2478	10145.3591
	12.0400	*	19.2000	19.1935	+6.499e-03	3735.2744	10805.8065

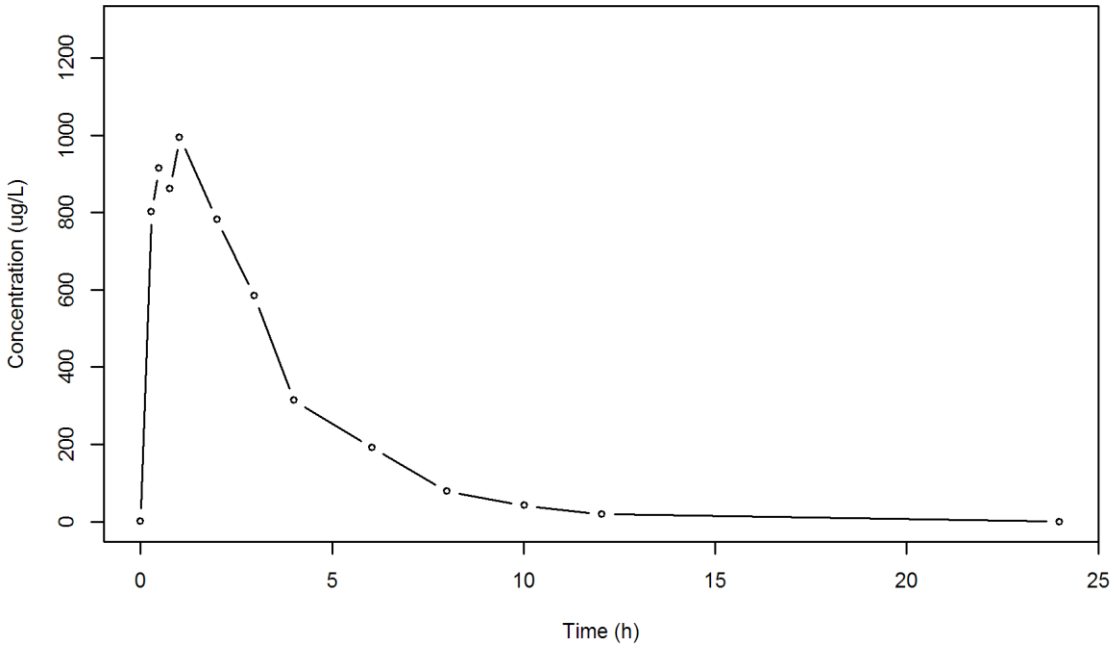
*: Used for the calculation of Lambda z.

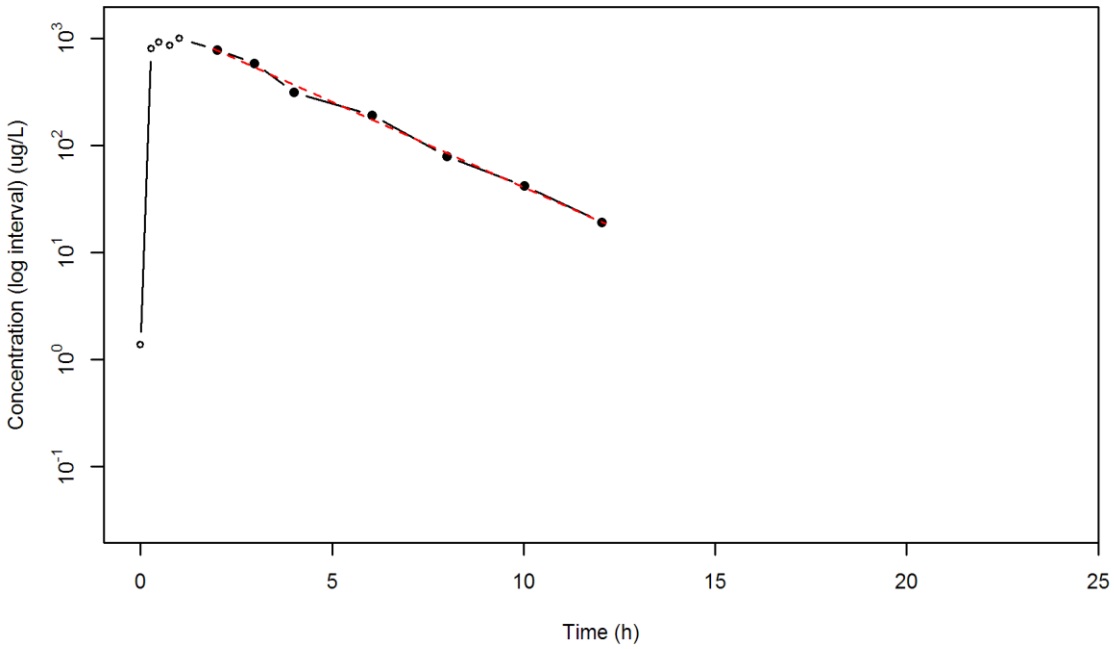
Calculated Values

CMAX	Max Conc	995.3400	ug/L
TMAX	Time of CMAX	1.0200	h
TLAG	Time Until First Nonzero Conc	0.0000	h
CLST	Last Nonzero Conc	19.2000	ug/L
CLSTP	Last Nonzero Conc Pred	19.1935	ug/L
TLST	Time of Last Nonzero Conc	12.0400	h
LAMZHL	Half-Life Lambda z	1.8861	h
LAMZ	Lambda z	0.3675	/h
LAMZLL	Lambda z Lower Limit	1.9900	h
LAMZUL	Lambda z Upper Limit	12.0400	h
LAMZNPT	Number of Points for Lambda z	7	
CORRXY	Correlation Between TimeX and Log ConcY	-0.9979	
R2	R Squared	0.9959	
R2ADJ	R Squared Adjusted	0.9951	
AUCLST	AUC to Last Nonzero Conc	3735.2744	h*ug/L
AUCALL	AUC All	3849.9944	h*ug/L

AUCIFO	AUC Infinity Obs	3787.5183	h*ug/L
AUCIFP	AUC Infinity Pred	3787.5006	h*ug/L
AUCPEO	AUC %Extrapolation Obs	1.3794	%
AUCPEP	AUC %Extrapolation Pred	1.3789	%
AUMCLST	AUMC to Last Nonzero Conc	10805.8065	h2*ug/L
AUMCIFO	AUMC Infinity Obs	11576.9808	h2*ug/L
AUMCIFP	AUMC Infinity Pred	11576.7197	h2*ug/L
AUMCPEO	AUMC %Extrapolation Obs	6.6613	%
AUMCPEP	AUMC % Extrapolation Pred	6.6592	%
VZFO	Vz Obs by F	0.0000	L
VZFP	Vz Pred by F	0.0000	L
CLFO	Total CL Obs by F	0.0000	L/h
CLFP	Total CL Pred by F	0.0000	L/h
MRTEVLST	MRT Extravasc to Last Nonzero Conc	2.8929	h
MRTEVIFO	MRT Extravasc Infinity Obs	3.0566	h
MRTEVIFP	MRT Extravasc Infinity Pred	3.0566	h

SUBJ 6, GRP RT, PRD 1, TRT R





SUBJ 6, GRP RT, PRD 2, TRT T

NONCOMPARTMENTAL ANALYSIS REPORT
Package version 0.3.9 (2018-05-10 KST)
R version 3.5.0 (2018-04-23)

Date and Time: 2018-06-19 09:49:35 Asia/Seoul

Calculation Setting

Drug Administration: Extravascular
Observation count excluding trailing zero: 13
Dose at time 0: 0 mg
AUC Calculation Method: Linear-up Linear-down
Weighting for lambda z: Uniform (Ordinary Least Square, OLS)
Lambda z selection criterion: Heighest adjusted R-squared value with precision=1e-4

Fitting, AUC, AUMC Result

Time		Conc.	Pred.	Residual	AUC	AUMC
0.0000		1.6300			0.0000	0.0000
0.2000		448.4500			45.0080	8.9690
0.4600		686.8500			192.5970	61.7023
0.7600		808.0800			416.8365	201.2161
1.0000		816.3300			611.7657	372.8726
1.9600	*	589.5500	630.9887	-4.144e+01	1286.5881	1319.3596
2.9900	*	444.7200	496.4368	-5.172e+01	1819.2372	2599.2535
3.9600	*	442.3800	396.0716	+4.631e+01	2249.4807	4093.7992
6.0000	*	268.0100	246.3094	+2.170e+01	2974.0785	7520.8817
8.0400	*	160.5000	153.1751	+7.325e+00	3411.1587	10477.3313
9.9800	*	78.8600	97.5007	-1.864e+01	3643.3379	12492.4508
12.0400	*	73.1700	60.3521	+1.282e+01	3799.9288	14210.4801
23.9700	*	3.5900	3.7522	-1.622e-01	4257.8021	19978.7491

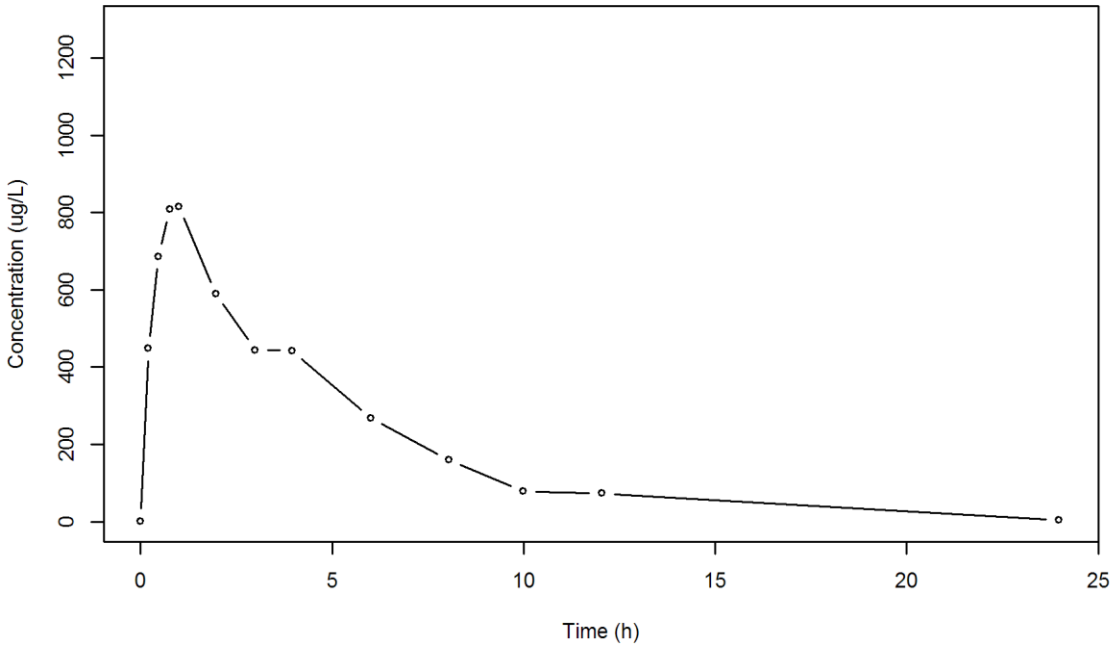
*: Used for the calculation of Lambda z.

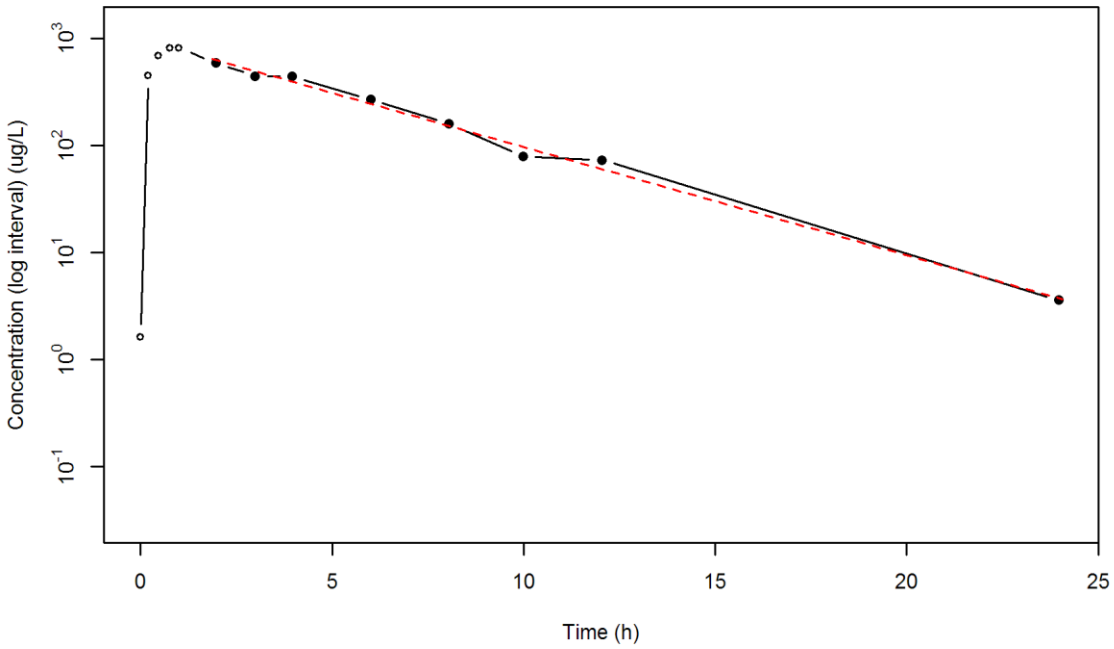
Calculated Values

CMAX	Max Conc	816.3300	ug/L
TMAX	Time of CMAX	1.0000	h
TLAG	Time Until First Nonzero Conc	0.0000	h
CLST	Last Nonzero Conc	3.5900	ug/L
CLSTP	Last Nonzero Conc Pred	3.7522	ug/L
TLST	Time of Last Nonzero Conc	23.9700	h
LAMZHL	Half-Life Lambda z	2.9768	h
LAMZ	Lambda z	0.2328	/h
LAMZLL	Lambda z Lower Limit	1.9600	h
LAMZUL	Lambda z Upper Limit	23.9700	h
LAMZNPT	Number of Points for Lambda z	8	
CORRXY	Correlation Between TimeX and Log ConcY	-0.9968	
R2	R Squared	0.9937	
R2ADJ	R Squared Adjusted	0.9926	
AUCLST	AUC to Last Nonzero Conc	4257.8021	h*ug/L

AUCALL	AUC All	4257.8021	h*ug/L
AUCIFO	AUC Infinity Obs	4273.2200	h*ug/L
AUCIFP	AUC Infinity Pred	4273.9166	h*ug/L
AUCPEO	AUC %Extrapolation Obs	0.3608	%
AUCPEP	AUC %Extrapolation Pred	0.3770	%
AUMCLST	AUMC to Last Nonzero Conc	19978.7491	h2*ug/L
AUMCIFO	AUMC Infinity Obs	20414.5307	h2*ug/L
AUMCIFP	AUMC Infinity Pred	20434.2180	h2*ug/L
AUMCPEO	AUMC %Extrapolation Obs	2.1347	%
AUMCPEP	AUMC % Extrapolation Pred	2.2290	%
VZFO	Vz Obs by F	0.0000	L
VZFP	Vz Pred by F	0.0000	L
CLFO	Total CL Obs by F	0.0000	L/h
CLFP	Total CL Pred by F	0.0000	L/h
MRTEVLST	MRT Extravasc to Last Nonzero Conc	4.6923	h
MRTEVIFO	MRT Extravasc Infinity Obs	4.7773	h
MRTEVIFP	MRT Extravasc Infinity Pred	4.7811	h

SUBJ 6, GRP RT, PRD 2, TRT T





SUBJ 7, GRP RT, PRD 1, TRT R

NONCOMPARTMENTAL ANALYSIS REPORT
Package version 0.3.9 (2018-05-10 KST)
R version 3.5.0 (2018-04-23)

Date and Time: 2018-06-19 09:49:35 Asia/Seoul

Calculation Setting

Drug Administration: Extravascular
Observation count excluding trailing zero: 13
Dose at time 0: 0 mg
AUC Calculation Method: Linear-up Linear-down
Weighting for lambda z: Uniform (Ordinary Least Square, OLS)
Lambda z selection criterion: Heighest adjusted R-squared value with precision=1e-4

Fitting, AUC, AUMC Result

	Time		Conc.	Pred.	Residual	AUC	AUMC
	0.0000		0.0000			0.0000	0.0000
	0.2100		283.5000			29.7675	6.2512
	0.4600		503.7300			128.1712	42.6575
	0.7100		550.1200			259.9025	120.4452
	0.9500		608.9900			398.9957	236.7402
	1.9700		546.4500			988.2701	1080.8142
	2.9800		467.0700			1500.0977	2327.3436
	4.0500		375.5000			1950.8726	3885.6080
	5.9500		259.8800			2554.4837	6799.3159
	8.0300		198.6300			3031.3341	10066.2522
	10.0300	*	135.1500	135.8184	-6.684e-01	3365.1141	13016.8056
	11.9700	*	102.4100	101.8251	+5.849e-01	3595.5473	15520.7657
	24.0200	*	17.0000	17.0135	-1.351e-02	4314.9925	25366.7466

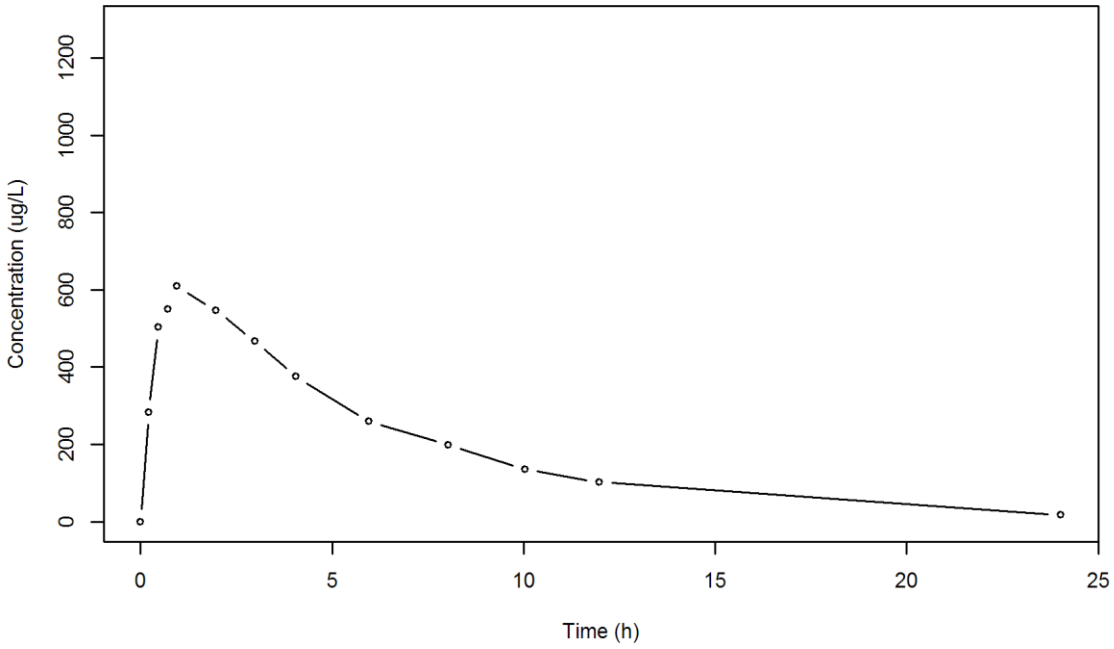
*: Used for the calculation of Lambda z.

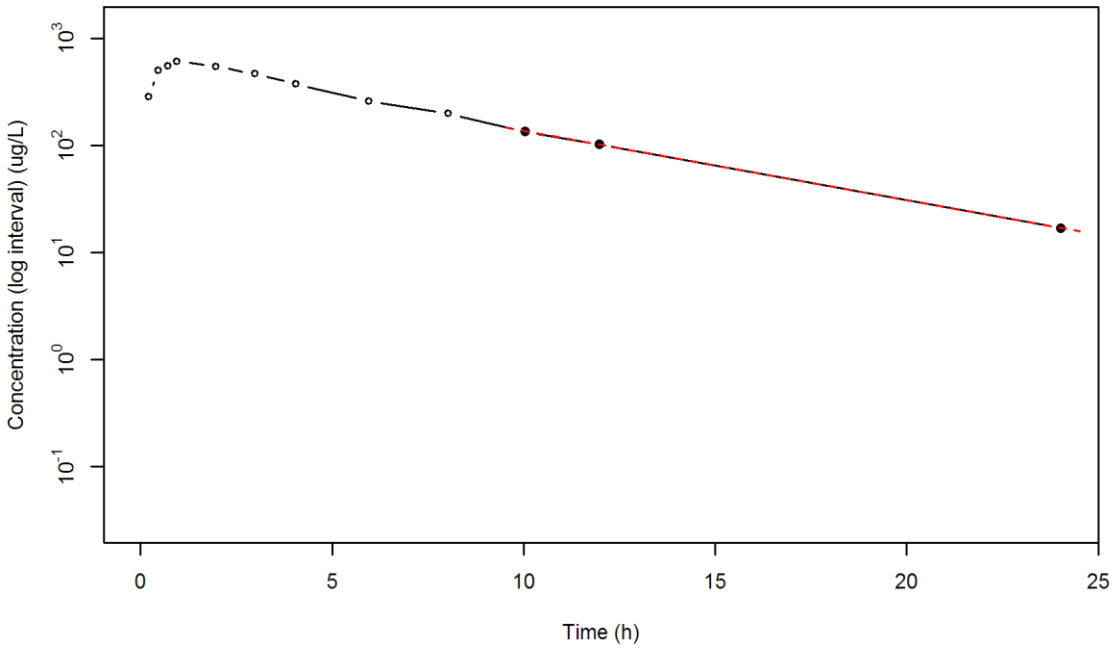
Calculated Values

CMAX	Max Conc	608.9900	ug/L
TMAX	Time of CMAX	0.9500	h
TLAG	Time Until First Nonzero Conc	0.0000	h
CLST	Last Nonzero Conc	17.0000	ug/L
CLSTP	Last Nonzero Conc Pred	17.0135	ug/L
TLST	Time of Last Nonzero Conc	24.0200	h
LAMZHL	Half-Life Lambda z	4.6681	h
LAMZ	Lambda z	0.1485	/h
LAMZLL	Lambda z Lower Limit	10.0300	h
LAMZUL	Lambda z Upper Limit	24.0200	h
LAMZNPT	Number of Points for Lambda z	3	
CORRXY	Correlation Between TimeX and Log ConcY	-1.0000	
R2	R Squared	1.0000	
R2ADJ	R Squared Adjusted	1.0000	
AUCLST	AUC to Last Nonzero Conc	4314.9925	h*ug/L

AUCALL	AUC All	4314.9925	h*ug/L
AUCIFO	AUC Infinity Obs	4429.4819	h*ug/L
AUCIFP	AUC Infinity Pred	4429.5728	h*ug/L
AUCPEO	AUC %Extrapolation Obs	2.5847	%
AUCPEP	AUC %Extrapolation Pred	2.5867	%
AUMCLST	AUMC to Last Nonzero Conc	25366.7466	h2*ug/L
AUMCIFO	AUMC Infinity Obs	28887.8288	h2*ug/L
AUMCIFP	AUMC Infinity Pred	28890.6265	h2*ug/L
AUMCPEO	AUMC %Extrapolation Obs	12.1888	%
AUMCPEP	AUMC % Extrapolation Pred	12.1973	%
VZFO	Vz Obs by F	0.0000	L
VZFP	Vz Pred by F	0.0000	L
CLFO	Total CL Obs by F	0.0000	L/h
CLFP	Total CL Pred by F	0.0000	L/h
MRTEVLST	MRT Extravasc to Last Nonzero Conc	5.8787	h
MRTEVIFO	MRT Extravasc Infinity Obs	6.5217	h
MRTEVIFP	MRT Extravasc Infinity Pred	6.5222	h

SUBJ 7, GRP RT, PRD 1, TRT R





SUBJ 7, GRP RT, PRD 2, TRT T

NONCOMPARTMENTAL ANALYSIS REPORT
Package version 0.3.9 (2018-05-10 KST)
R version 3.5.0 (2018-04-23)

Date and Time: 2018-06-19 09:49:35 Asia/Seoul

Calculation Setting

Drug Administration: Extravascular
Observation count excluding trailing zero: 13
Dose at time 0: 0 mg
AUC Calculation Method: Linear-up Linear-down
Weighting for lambda z: Uniform (Ordinary Least Square, OLS)
Lambda z selection criterion: Heighest adjusted R-squared value with precision=1e-4

Fitting, AUC, AUMC Result

	Time		Conc.	Pred.	Residual	AUC	AUMC
	0.0000		0.4400			0.0000	0.0000
	0.2100		400.2400			42.0714	8.8253
	0.4600		488.4700			153.1601	47.4186
	0.7400		806.5700			334.4657	162.4367
	0.9800	*	724.6300	760.7265	-3.610e+01	518.2098	319.2766
	2.0400	*	650.1200	633.0475	+1.707e+01	1246.8273	1398.5592
	3.0200	*	509.1900	534.1536	-2.496e+01	1814.8892	2801.9185
	3.9800	*	465.1600	452.2738	+1.289e+01	2282.5772	4428.6820
	6.0200	*	343.1200	317.5697	+2.555e+01	3107.0227	8423.9396
	7.9600	*	242.1800	226.8842	+1.530e+01	3674.7637	12297.4747
	9.9900	*	159.3400	159.5859	-2.459e-01	4082.3066	15869.8275
	11.9500	*	100.8200	113.6198	-1.280e+01	4337.2634	18610.5010
	23.9800	*	14.4100	14.1217	+2.883e-01	5030.3718	27935.8611

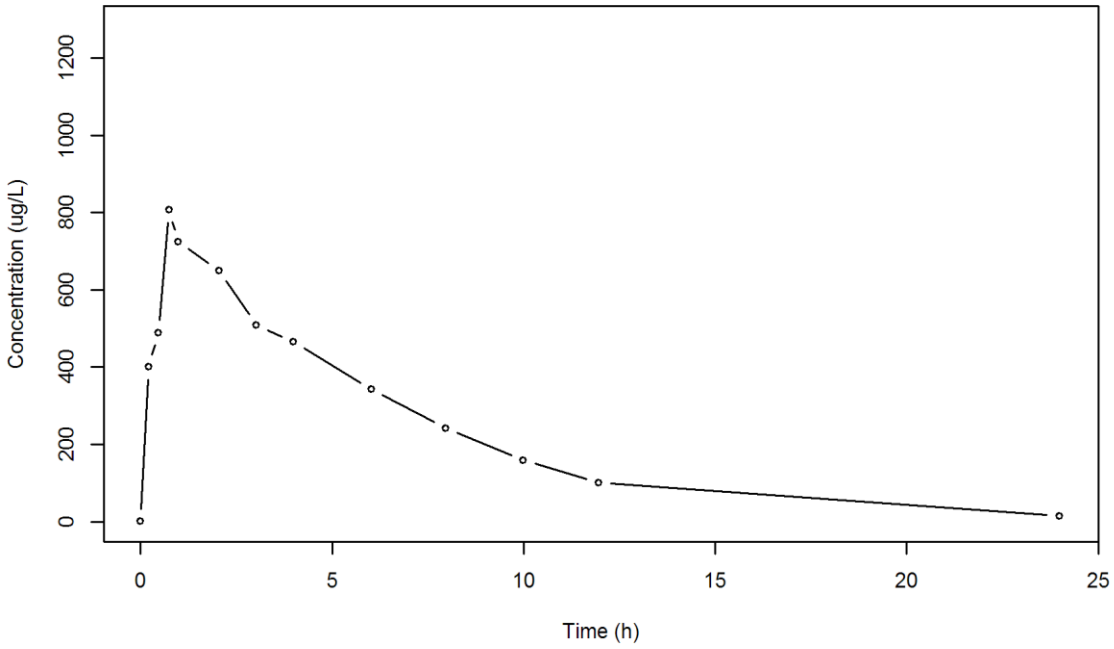
*: Used for the calculation of Lambda z.

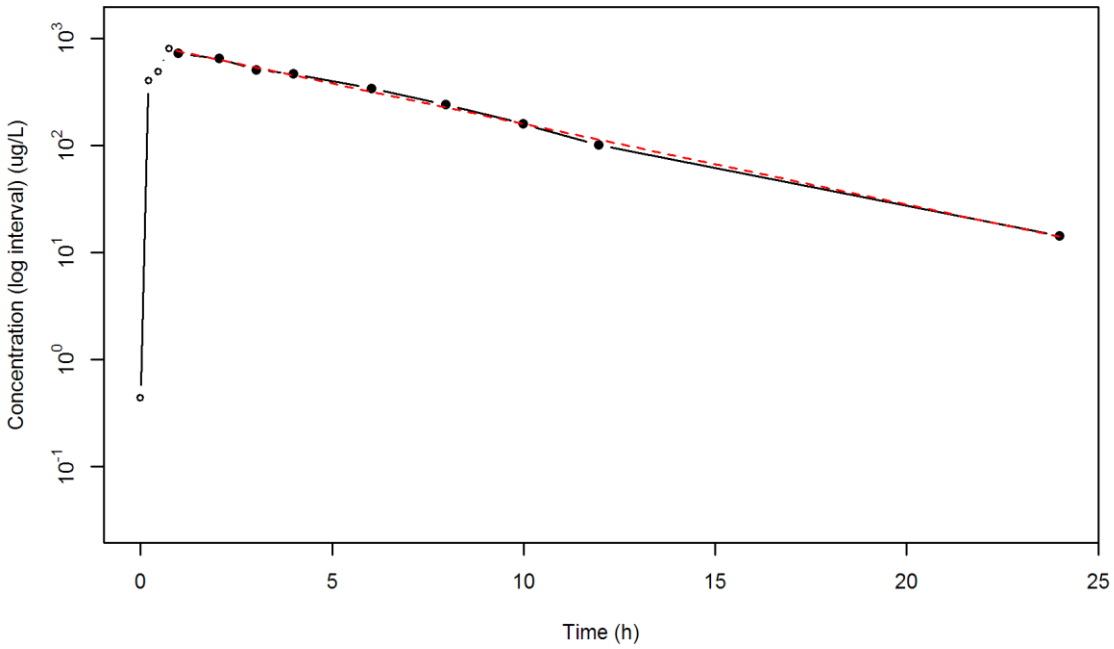
Calculated Values

CMAX	Max Conc	806.5700	ug/L
TMAX	Time of CMAX	0.7400	h
TLAG	Time Until First Nonzero Conc	0.0000	h
CLST	Last Nonzero Conc	14.4100	ug/L
CLSTP	Last Nonzero Conc Pred	14.1217	ug/L
TLST	Time of Last Nonzero Conc	23.9800	h
LAMZHL	Half-Life Lambda z	3.9990	h
LAMZ	Lambda z	0.1733	/h
LAMZLL	Lambda z Lower Limit	0.9800	h
LAMZUL	Lambda z Upper Limit	23.9800	h
LAMZNPT	Number of Points for Lambda z	9	
CORRXY	Correlation Between TimeX and Log ConcY	-0.9987	
R2	R Squared	0.9974	
R2ADJ	R Squared Adjusted	0.9971	
AUCLST	AUC to Last Nonzero Conc	5030.3718	h*ug/L

AUCALL	AUC All	5030.3718	h*ug/L
AUCIFO	AUC Infinity Obs	5113.5086	h*ug/L
AUCIFP	AUC Infinity Pred	5111.8454	h*ug/L
AUCPEO	AUC %Extrapolation Obs	1.6258	%
AUCPEP	AUC %Extrapolation Pred	1.5938	%
AUMCLST	AUMC to Last Nonzero Conc	27935.8611	h2*ug/L
AUMCIFO	AUMC Infinity Obs	30409.1309	h2*ug/L
AUMCIFP	AUMC Infinity Pred	30359.6515	h2*ug/L
AUMCPEO	AUMC %Extrapolation Obs	8.1333	%
AUMCPEP	AUMC % Extrapolation Pred	7.9836	%
VZFO	Vz Obs by F	0.0000	L
VZFP	Vz Pred by F	0.0000	L
CLFO	Total CL Obs by F	0.0000	L/h
CLFP	Total CL Pred by F	0.0000	L/h
MRTEVLST	MRT Extravasc to Last Nonzero Conc	5.5534	h
MRTEVIFO	MRT Extravasc Infinity Obs	5.9468	h
MRTEVIFP	MRT Extravasc Infinity Pred	5.9391	h

SUBJ 7, GRP RT, PRD 2, TRT T





SUBJ 8, GRP RT, PRD 1, TRT R

NONCOMPARTMENTAL ANALYSIS REPORT
Package version 0.3.9 (2018-05-10 KST)
R version 3.5.0 (2018-04-23)

Date and Time: 2018-06-19 09:49:35 Asia/Seoul

Calculation Setting

Drug Administration: Extravascular
Observation count excluding trailing zero: 13
Dose at time 0: 0 mg
AUC Calculation Method: Linear-up Linear-down
Weighting for lambda z: Uniform (Ordinary Least Square, OLS)
Lambda z selection criterion: Heighest adjusted R-squared value with precision=1e-4

Fitting, AUC, AUMC Result

	Time		Conc.	Pred.	Residual	AUC	AUMC
	0.0000		1.0200			0.0000	0.0000
	0.2800		672.5800			94.3040	26.3651
	0.4700		773.2600			231.6588	78.7818
	0.7200		1283.6700			488.7751	239.7411
	0.9900		1201.9200			824.3297	525.1505
	1.9600		1235.0200			2006.2456	2276.2624
	2.9700		923.4200			3096.2578	4883.6767
	3.9600		654.0200			3877.0906	7523.2526
	6.0500		293.5000			4867.2490	12085.2985
	8.0100	*	176.9000	173.6758	+3.224e+00	5328.2410	15214.0896
	9.9500	*	97.6000	96.5316	+1.068e+00	5594.5060	17530.5360
	12.0000	*	49.9900	51.8963	-1.906e+00	5745.7858	19140.8110
	23.9600	*	1.4000	1.3888	+1.119e-02	6053.0980	22928.6865

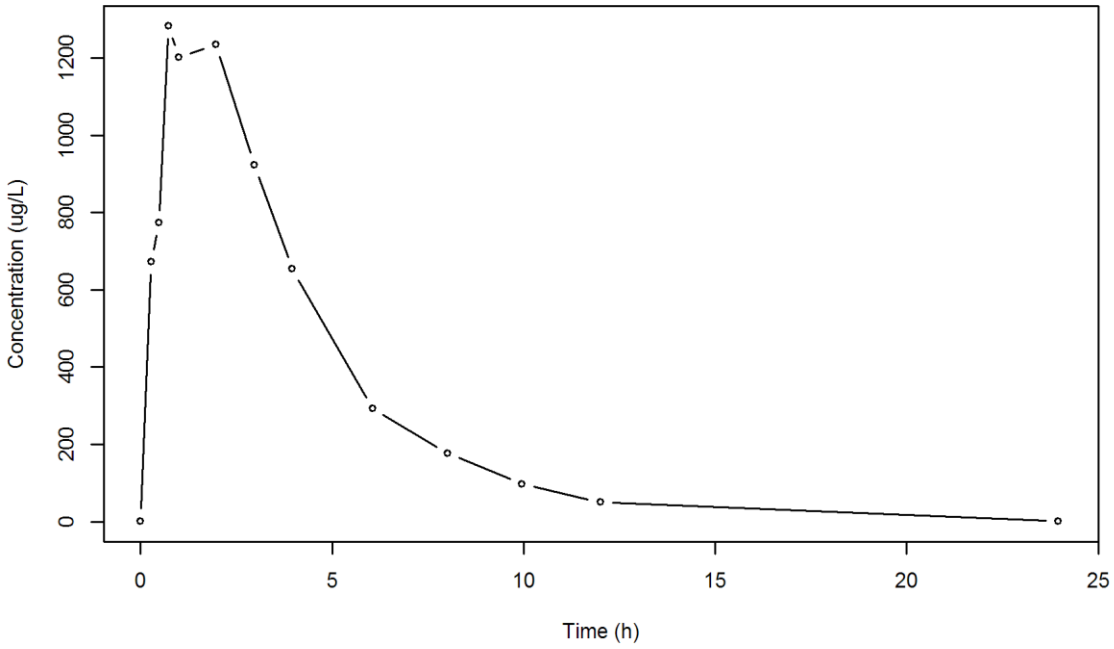
*: Used for the calculation of Lambda z.

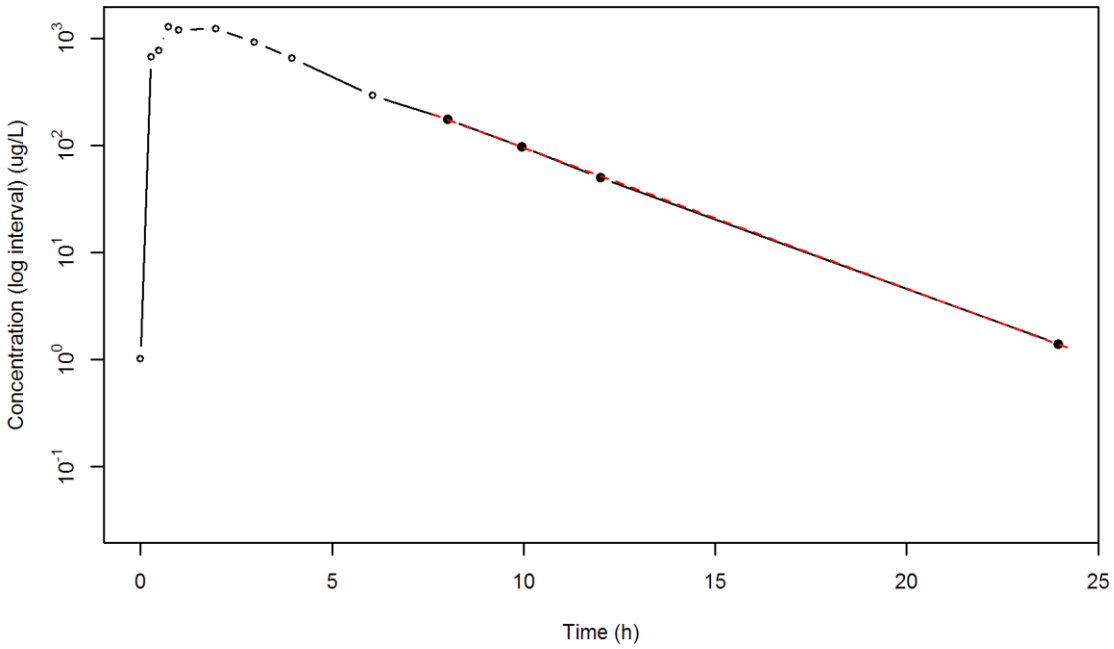
Calculated Values

CMAX	Max Conc	1283.6700	ug/L
TMAX	Time of CMAX	0.7200	h
TLAG	Time Until First Nonzero Conc	0.0000	h
CLST	Last Nonzero Conc	1.4000	ug/L
CLSTP	Last Nonzero Conc Pred	1.3888	ug/L
TLST	Time of Last Nonzero Conc	23.9600	h
LAMZHL	Half-Life Lambda z	2.2896	h
LAMZ	Lambda z	0.3027	/h
LAMZLL	Lambda z Lower Limit	8.0100	h
LAMZUL	Lambda z Upper Limit	23.9600	h
LAMZNPT	Number of Points for Lambda z	4	
CORRXY	Correlation Between TimeX and Log ConcY	-0.9999	
R2	R Squared	0.9999	
R2ADJ	R Squared Adjusted	0.9998	
AUCLST	AUC to Last Nonzero Conc	6053.0980	h*ug/L

AUCALL	AUC All	6053.0980	h*ug/L
AUCIFO	AUC Infinity Obs	6057.7223	h*ug/L
AUCIFP	AUC Infinity Pred	6057.6854	h*ug/L
AUCPEO	AUC %Extrapolation Obs	0.0763	%
AUCPEP	AUC %Extrapolation Pred	0.0757	%
AUMCLST	AUMC to Last Nonzero Conc	22928.6865	h2*ug/L
AUMCIFO	AUMC Infinity Obs	23054.7620	h2*ug/L
AUMCIFP	AUMC Infinity Pred	23053.7545	h2*ug/L
AUMCPEO	AUMC %Extrapolation Obs	0.5469	%
AUMCPEP	AUMC % Extrapolation Pred	0.5425	%
VZFO	Vz Obs by F	0.0000	L
VZFP	Vz Pred by F	0.0000	L
CLFO	Total CL Obs by F	0.0000	L/h
CLFP	Total CL Pred by F	0.0000	L/h
MRTEVLST	MRT Extravasc to Last Nonzero Conc	3.7879	h
MRTEVIFO	MRT Extravasc Infinity Obs	3.8058	h
MRTEVIFP	MRT Extravasc Infinity Pred	3.8057	h

SUBJ 8, GRP RT, PRD 1, TRT R





SUBJ 8, GRP RT, PRD 2, TRT T

NONCOMPARTMENTAL ANALYSIS REPORT
Package version 0.3.9 (2018-05-10 KST)
R version 3.5.0 (2018-04-23)

Date and Time: 2018-06-19 09:49:35 Asia/Seoul

Calculation Setting

Drug Administration: Extravascular
Observation count excluding trailing zero: 13
Dose at time 0: 0 mg
AUC Calculation Method: Linear-up Linear-down
Weighting for lambda z: Uniform (Ordinary Least Square, OLS)
Lambda z selection criterion: Heighest adjusted R-squared value with precision=1e-4

Fitting, AUC, AUMC Result

	Time		Conc.	Pred.	Residual	AUC	AUMC
	0.0000		0.0000			0.0000	0.0000
	0.2500		390.9200			48.8650	12.2163
	0.4800		600.7700			162.9094	56.6177
	0.7500		719.2800			341.1161	168.3747
	1.0300		822.9500			557.0283	362.5685
	2.0200		812.6400			1366.6454	1594.7083
	2.9800		594.5500			2042.0966	3233.0883
	4.0400	*	590.6900	616.2040	-2.551e+01	2670.2738	5436.9060
	6.0300	*	414.9800	404.9326	+1.005e+01	3670.9154	10301.1795
	8.0100	*	274.1000	266.6596	+7.440e+00	4353.1046	14952.0712
	10.0400	*	187.5100	173.7602	+1.375e+01	4821.6388	19091.3847
	12.0200	*	104.3900	114.4260	-1.004e+01	5110.6198	22197.3792
	23.9800	*	9.2300	9.1757	+5.425e-02	5790.0674	31024.4763

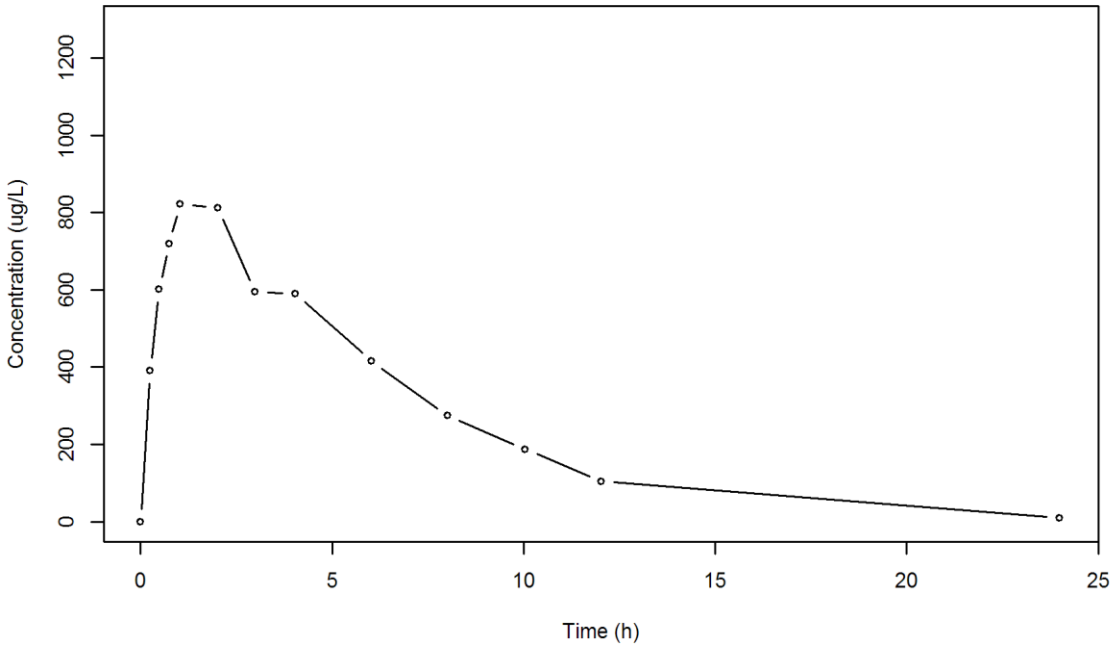
*: Used for the calculation of Lambda z.

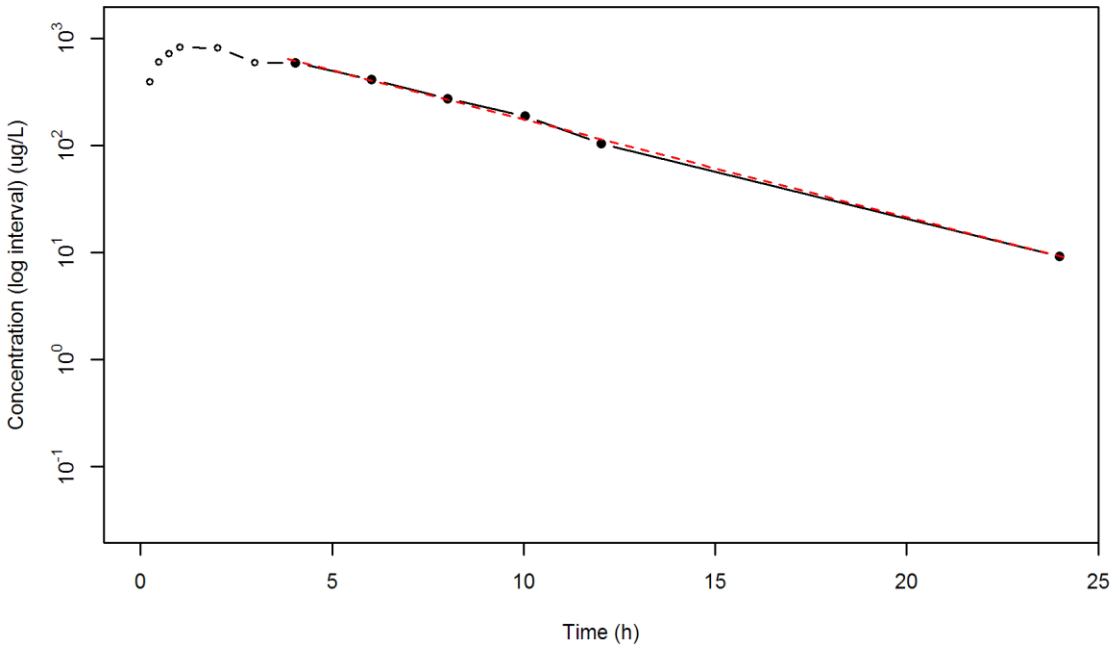
Calculated Values

CMAX	Max Conc	822.9500	ug/L
TMAX	Time of CMAX	1.0300	h
TLAG	Time Until First Nonzero Conc	0.0000	h
CLST	Last Nonzero Conc	9.2300	ug/L
CLSTP	Last Nonzero Conc Pred	9.1757	ug/L
TLST	Time of Last Nonzero Conc	23.9800	h
LAMZHL	Half-Life Lambda z	3.2853	h
LAMZ	Lambda z	0.2110	/h
LAMZLL	Lambda z Lower Limit	4.0400	h
LAMZUL	Lambda z Upper Limit	23.9800	h
LAMZNPT	Number of Points for Lambda z	6	
CORRXY	Correlation Between TimeX and Log ConcY	-0.9992	
R2	R Squared	0.9985	
R2ADJ	R Squared Adjusted	0.9981	
AUCLST	AUC to Last Nonzero Conc	5790.0674	h*ug/L

AUCALL	AUC All	5790.0674	h*ug/L
AUCIFO	AUC Infinity Obs	5833.8148	h*ug/L
AUCIFP	AUC Infinity Pred	5833.5577	h*ug/L
AUCPEO	AUC %Extrapolation Obs	0.7499	%
AUCPEP	AUC %Extrapolation Pred	0.7455	%
AUMCLST	AUMC to Last Nonzero Conc	31024.4763	h2*ug/L
AUMCIFO	AUMC Infinity Obs	32280.8904	h2*ug/L
AUMCIFP	AUMC Infinity Pred	32273.5051	h2*ug/L
AUMCPEO	AUMC %Extrapolation Obs	3.8921	%
AUMCPEP	AUMC % Extrapolation Pred	3.8701	%
VZFO	Vz Obs by F	0.0000	L
VZFP	Vz Pred by F	0.0000	L
CLFO	Total CL Obs by F	0.0000	L/h
CLFP	Total CL Pred by F	0.0000	L/h
MRTEVLST	MRT Extravasc to Last Nonzero Conc	5.3582	h
MRTEVIFO	MRT Extravasc Infinity Obs	5.5334	h
MRTEVIFP	MRT Extravasc Infinity Pred	5.5324	h

SUBJ 8, GRP RT, PRD 2, TRT T





SUBJ 9, GRP RT, PRD 1, TRT R

NONCOMPARTMENTAL ANALYSIS REPORT
Package version 0.3.9 (2018-05-10 KST)
R version 3.5.0 (2018-04-23)

Date and Time: 2018-06-19 09:49:35 Asia/Seoul

Calculation Setting

Drug Administration: Extravascular
Observation count excluding trailing zero: 13
Dose at time 0: 0 mg
AUC Calculation Method: Linear-up Linear-down
Weighting for lambda z: Uniform (Ordinary Least Square, OLS)
Lambda z selection criterion: Heighest adjusted R-squared value with precision=1e-4

Fitting, AUC, AUMC Result

	Time	Conc.	Pred.	Residual	AUC	AUMC
	0.0000	0.0000			0.0000	0.0000
	0.2400	399.6600			47.9592	11.5102
	0.5300	608.2600			194.1076	72.1632
	0.7400	679.3900			329.3109	158.8014
	1.0300	573.7900			511.0220	317.3955
	2.0300	631.5300			1113.6820	1253.9003
	3.0400	533.9200			1702.2342	2720.9873
	3.9600 *	381.5000	374.9116	+6.588e+00	2123.3274	4162.5614
	5.9600 *	279.2800	276.7017	+2.578e+00	2784.1074	7337.8102
	7.9800 *	205.0100	203.5989	+1.411e+00	3273.2403	10671.3037
	10.0000 *	157.1900	149.8094	+7.381e+00	3639.0623	13911.2623
	12.0000 *	99.2200	110.5661	-1.135e+01	3895.4723	16673.8023
	24.0400 *	18.2400	17.7616	+4.784e-01	4602.5815	26481.1625

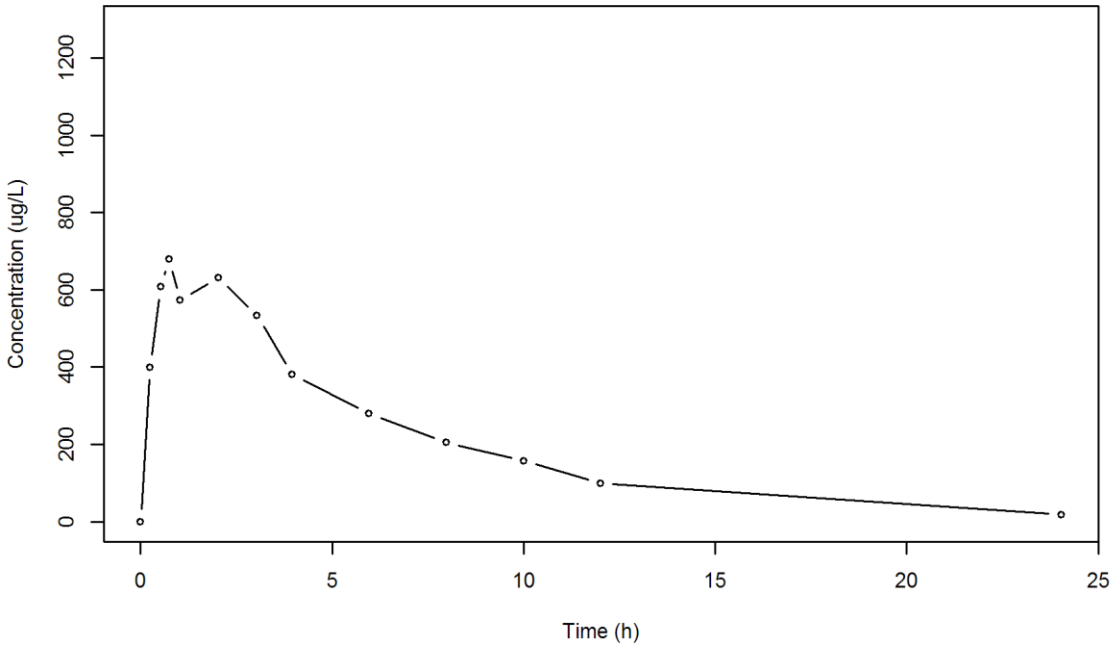
*: Used for the calculation of Lambda z.

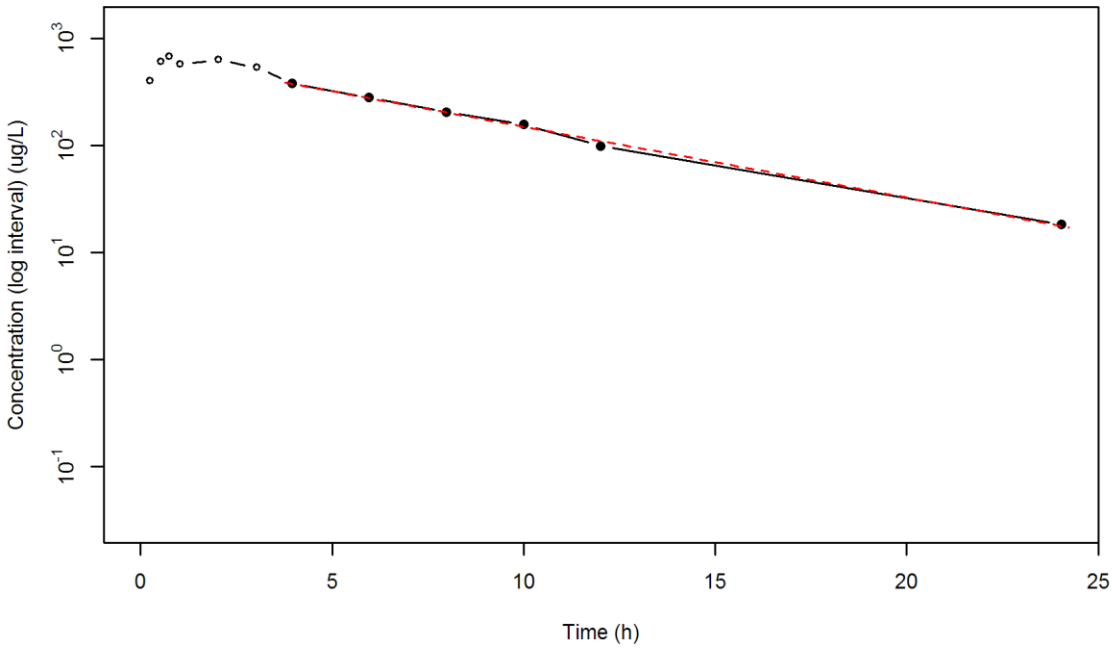
Calculated Values

CMAX	Max Conc	679.3900	ug/L
TMAX	Time of CMAX	0.7400	h
TLAG	Time Until First Nonzero Conc	0.0000	h
CLST	Last Nonzero Conc	18.2400	ug/L
CLSTP	Last Nonzero Conc Pred	17.7616	ug/L
TLST	Time of Last Nonzero Conc	24.0400	h
LAMZHL	Half-Life Lambda z	4.5639	h
LAMZ	Lambda z	0.1519	/h
LAMZLL	Lambda z Lower Limit	3.9600	h
LAMZUL	Lambda z Upper Limit	24.0400	h
LAMZNPT	Number of Points for Lambda z	6	
CORRXY	Correlation Between TimeX and Log ConcY	-0.9987	
R2	R Squared	0.9974	
R2ADJ	R Squared Adjusted	0.9968	
AUCLST	AUC to Last Nonzero Conc	4602.5815	h*ug/L

AUCALL	AUC All	4602.5815	h*ug/L
AUCIFO	AUC Infinity Obs	4722.6801	h*ug/L
AUCIFP	AUC Infinity Pred	4719.5299	h*ug/L
AUCPEO	AUC %Extrapolation Obs	2.5430	%
AUCPEP	AUC %Extrapolation Pred	2.4780	%
AUMCLST	AUMC to Last Nonzero Conc	26481.1625	h2*ug/L
AUMCIFO	AUMC Infinity Obs	30159.1049	h2*ug/L
AUMCIFP	AUMC Infinity Pred	30062.6310	h2*ug/L
AUMCPEO	AUMC %Extrapolation Obs	12.1951	%
AUMCPEP	AUMC % Extrapolation Pred	11.9134	%
VZFO	Vz Obs by F	0.0000	L
VZFP	Vz Pred by F	0.0000	L
CLFO	Total CL Obs by F	0.0000	L/h
CLFP	Total CL Pred by F	0.0000	L/h
MRTEVLST	MRT Extravasc to Last Nonzero Conc	5.7535	h
MRTEVIFO	MRT Extravasc Infinity Obs	6.3860	h
MRTEVIFP	MRT Extravasc Infinity Pred	6.3698	h

SUBJ 9, GRP RT, PRD 1, TRT R





SUBJ 9, GRP RT, PRD 2, TRT T

NONCOMPARTMENTAL ANALYSIS REPORT
Package version 0.3.9 (2018-05-10 KST)
R version 3.5.0 (2018-04-23)

Date and Time: 2018-06-19 09:49:35 Asia/Seoul

Calculation Setting

Drug Administration: Extravascular
Observation count excluding trailing zero: 13
Dose at time 0: 0 mg
AUC Calculation Method: Linear-up Linear-down
Weighting for lambda z: Uniform (Ordinary Least Square, OLS)
Lambda z selection criterion: Heighest adjusted R-squared value with precision=1e-4

Fitting, AUC, AUMC Result

	Time		Conc.	Pred.	Residual	AUC	AUMC
	0.0000		0.0000			0.0000	0.0000
	0.2500		274.9500			34.3688	8.5922
	0.4800		412.2200			113.3933	39.2515
	0.7200		456.1300			217.5953	102.4050
	0.9800		556.5500			349.2437	216.0033
	2.0300		521.8000			915.3774	1058.4566
	2.9600		371.2900			1330.6643	2062.0533
	4.0200	*	398.6700	415.3928	-1.672e+01	1738.7431	3493.9393
	5.9600	*	393.4500	358.5254	+3.492e+01	2507.0995	7323.1263
	7.9600	*	318.4600	308.0374	+1.042e+01	3219.0095	12203.0299
	9.9900	*	267.7200	264.0573	+3.663e+00	3813.9822	17490.6362
	12.0000	*	198.7000	226.7003	-2.800e+01	4282.7343	22574.8536
	24.0200	*	94.1000	91.0529	+3.047e+00	6042.4623	50489.3925

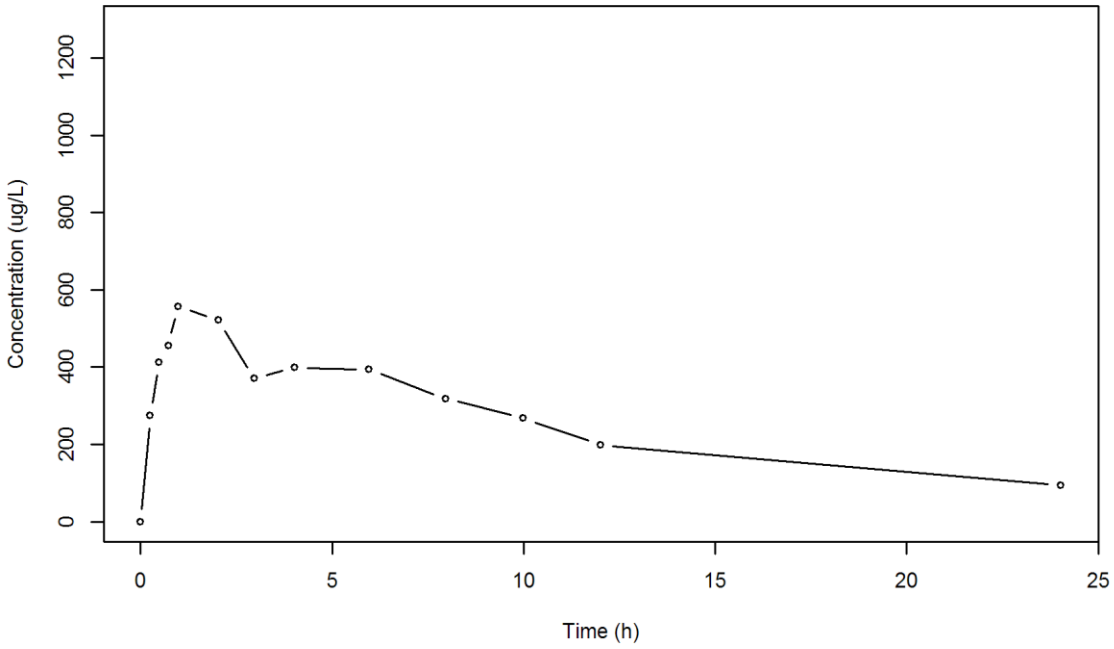
*: Used for the calculation of Lambda z.

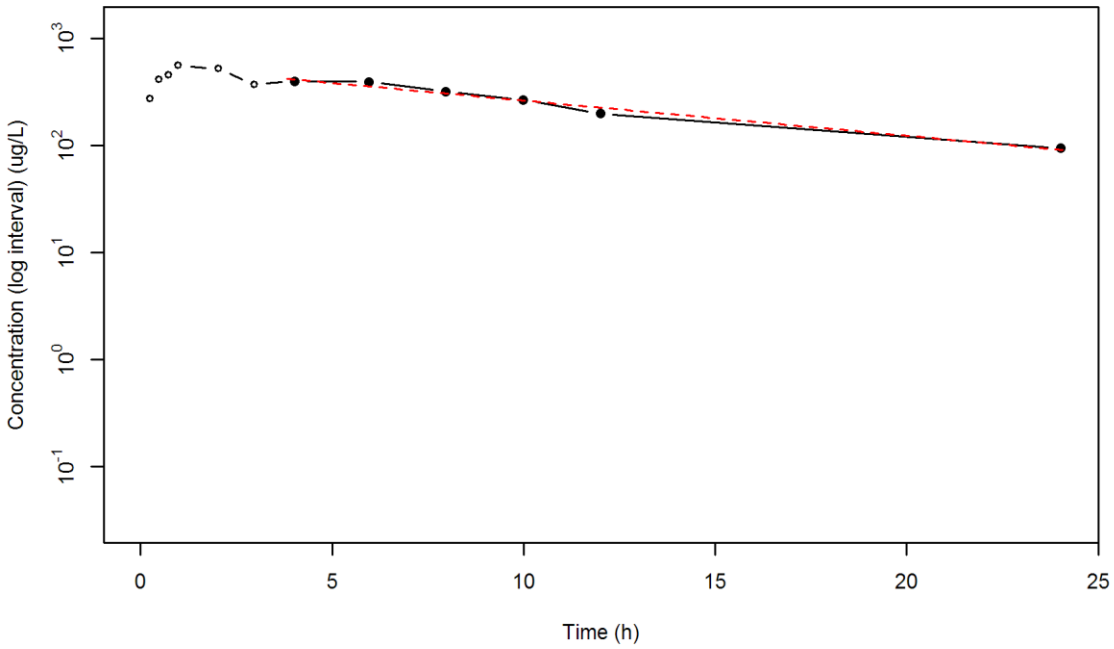
Calculated Values

CMAX	Max Conc	556.5500	ug/L
TMAX	Time of CMAX	0.9800	h
TLAG	Time Until First Nonzero Conc	0.0000	h
CLST	Last Nonzero Conc	94.1000	ug/L
CLSTP	Last Nonzero Conc Pred	91.0529	ug/L
TLST	Time of Last Nonzero Conc	24.0200	h
LAMZHL	Half-Life Lambda z	9.1337	h
LAMZ	Lambda z	0.0759	/h
LAMZLL	Lambda z Lower Limit	4.0200	h
LAMZUL	Lambda z Upper Limit	24.0200	h
LAMZNPT	Number of Points for Lambda z	6	
CORRXY	Correlation Between TimeX and Log ConcY	-0.9899	
R2	R Squared	0.9799	
R2ADJ	R Squared Adjusted	0.9748	
AUCLST	AUC to Last Nonzero Conc	6042.4623	h*ug/L

AUCALL	AUC All	6042.4623	h*ug/L
AUCIFO	AUC Infinity Obs	7282.4281	h*ug/L
AUCIFP	AUC Infinity Pred	7242.2763	h*ug/L
AUCPEO	AUC %Extrapolation Obs	17.0268	%
AUCPEP	AUC %Extrapolation Pred	16.5668	%
AUMCLST	AUMC to Last Nonzero Conc	50489.3925	h2*ug/L
AUMCIFO	AUMC Infinity Obs	96612.5345	h2*ug/L
AUMCIFP	AUMC Infinity Pred	95119.0016	h2*ug/L
AUMCPEO	AUMC %Extrapolation Obs	47.7403	%
AUMCPEP	AUMC % Extrapolation Pred	46.9198	%
VZFO	Vz Obs by F	0.0000	L
VZFP	Vz Pred by F	0.0000	L
CLFO	Total CL Obs by F	0.0000	L/h
CLFP	Total CL Pred by F	0.0000	L/h
MRTEVLST	MRT Extravasc to Last Nonzero Conc	8.3558	h
MRTEVIFO	MRT Extravasc Infinity Obs	13.2665	h
MRTEVIFP	MRT Extravasc Infinity Pred	13.1339	h

SUBJ 9, GRP RT, PRD 2, TRT T





SUBJ 10, GRP RT, PRD 1, TRT R

NONCOMPARTMENTAL ANALYSIS REPORT
Package version 0.3.9 (2018-05-10 KST)
R version 3.5.0 (2018-04-23)

Date and Time: 2018-06-19 09:49:35 Asia/Seoul

Calculation Setting

Drug Administration: Extravascular
Observation count excluding trailing zero: 13
Dose at time 0: 0 mg
AUC Calculation Method: Linear-up Linear-down
Weighting for lambda z: Uniform (Ordinary Least Square, OLS)
Lambda z selection criterion: Heighest adjusted R-squared value with precision=1e-4

Fitting, AUC, AUMC Result

	Time		Conc.	Pred.	Residual	AUC	AUMC
	0.0000		0.0000			0.0000	0.0000
	0.2700		466.0300			62.9141	16.9868
	0.5200		686.1600			206.9378	77.3157
	0.7600		906.4100			398.0462	202.7967
	1.0300		1136.9100			673.8944	453.8817
	2.0200		889.9500			1677.1901	1923.3963
	3.0300		1045.7500			2654.7186	4431.3886
	4.0300		866.8600			3611.0236	7762.4228
	5.9900		585.1700			5034.0130	14621.0646
	7.9600	*	451.8900	467.0282	-1.514e+01	6055.5171	21616.7441
	10.0300	*	289.3700	308.1932	-1.882e+01	6822.7212	28343.6495
	11.9900	*	233.8000	207.9199	+2.588e+01	7335.4278	33935.1797
	24.0000	*	18.2500	18.6437	-3.937e-01	8848.9881	53398.9580

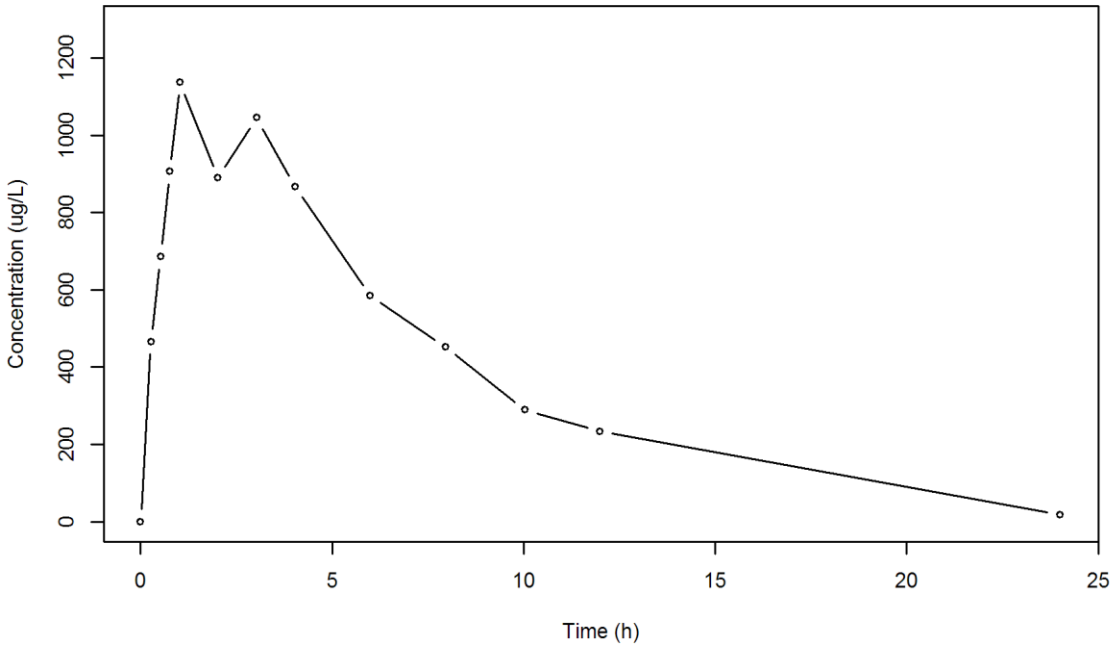
*: Used for the calculation of Lambda z.

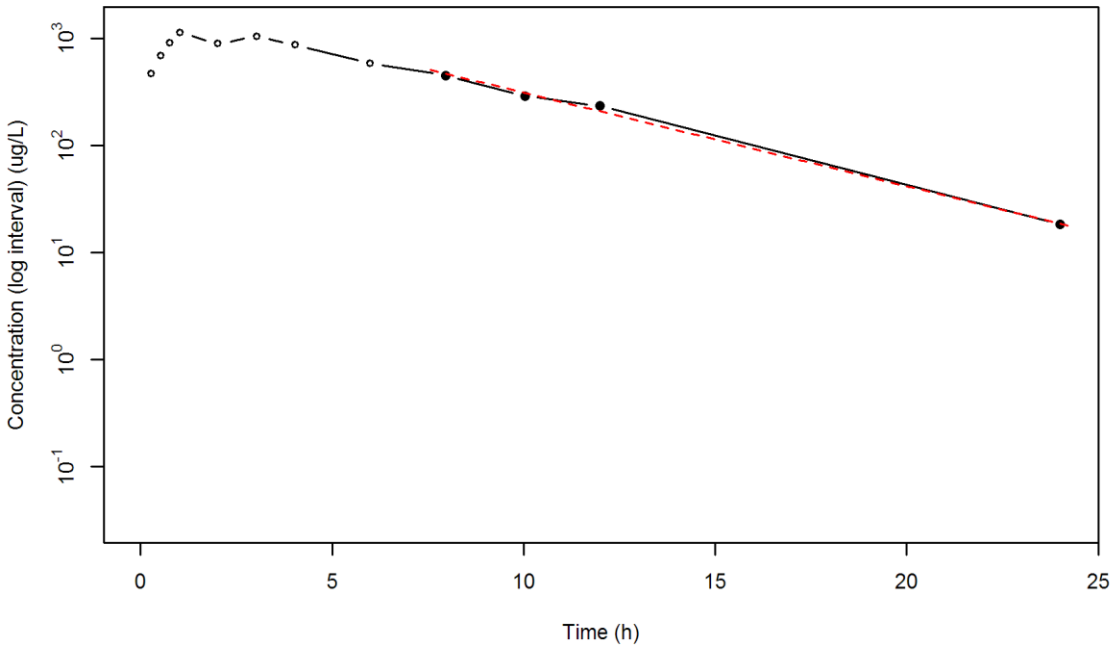
Calculated Values

CMAX	Max Conc	1136.9100	ug/L
TMAX	Time of CMAX	1.0300	h
TLAG	Time Until First Nonzero Conc	0.0000	h
CLST	Last Nonzero Conc	18.2500	ug/L
CLSTP	Last Nonzero Conc Pred	18.6437	ug/L
TLST	Time of Last Nonzero Conc	24.0000	h
LAMZHL	Half-Life Lambda z	3.4519	h
LAMZ	Lambda z	0.2008	/h
LAMZLL	Lambda z Lower Limit	7.9600	h
LAMZUL	Lambda z Upper Limit	24.0000	h
LAMZNPT	Number of Points for Lambda z	4	
CORRXY	Correlation Between TimeX and Log ConcY	-0.9985	
R2	R Squared	0.9969	
R2ADJ	R Squared Adjusted	0.9954	
AUCLST	AUC to Last Nonzero Conc	8848.9881	h*ug/L

AUCALL	AUC All	8848.9881	h*ug/L
AUCIFO	AUC Infinity Obs	8939.8731	h*ug/L
AUCIFP	AUC Infinity Pred	8941.8335	h*ug/L
AUCPEO	AUC %Extrapolation Obs	1.0166	%
AUCPEP	AUC %Extrapolation Pred	1.0383	%
AUMCLST	AUMC to Last Nonzero Conc	53398.9580	h2*ug/L
AUMCIFO	AUMC Infinity Obs	56032.8059	h2*ug/L
AUMCIFP	AUMC Infinity Pred	56089.6206	h2*ug/L
AUMCPEO	AUMC %Extrapolation Obs	4.7005	%
AUMCPEP	AUMC % Extrapolation Pred	4.7971	%
VZFO	Vz Obs by F	0.0000	L
VZFP	Vz Pred by F	0.0000	L
CLFO	Total CL Obs by F	0.0000	L/h
CLFP	Total CL Pred by F	0.0000	L/h
MRTEVLST	MRT Extravasc to Last Nonzero Conc	6.0345	h
MRTEVIFO	MRT Extravasc Infinity Obs	6.2677	h
MRTEVIFP	MRT Extravasc Infinity Pred	6.2727	h

SUBJ 10, GRP RT, PRD 1, TRT R





SUBJ 10, GRP RT, PRD 2, TRT T

NONCOMPARTMENTAL ANALYSIS REPORT
Package version 0.3.9 (2018-05-10 KST)
R version 3.5.0 (2018-04-23)

Date and Time: 2018-06-19 09:49:35 Asia/Seoul

Calculation Setting

Drug Administration: Extravascular
Observation count excluding trailing zero: 13
Dose at time 0: 0 mg
AUC Calculation Method: Linear-up Linear-down
Weighting for lambda z: Uniform (Ordinary Least Square, OLS)
Lambda z selection criterion: Heighest adjusted R-squared value with precision=1e-4

Fitting, AUC, AUMC Result

	Time		Conc.	Pred.	Residual	AUC	AUMC
	0.0000		0.0000			0.0000	0.0000
	0.2800		489.8000			68.5720	19.2002
	0.4700		611.8900			173.2325	59.5497
	0.7600		965.8800			402.0092	207.6900
	0.9700		1082.7900			617.1196	395.0494
	2.0500		1071.6800			1780.5334	2148.5646
	2.9900	*	1008.4600	1018.3229	-9.863e+00	2758.1992	4598.3171
	4.0000	*	724.2200	798.0039	-7.378e+01	3633.2026	7583.9657
	6.0300	*	540.1900	488.8726	+5.132e+01	4916.5787	13830.5047
	8.0400	*	288.6000	300.9421	-1.234e+01	5749.5127	19436.0829
	9.9900	*	179.3600	187.9577	-8.598e+00	6205.7737	23445.4295
	12.0200	*	132.4500	115.1465	+1.730e+01	6522.2608	26880.0428
	23.9600	*	6.1700	6.4499	-2.799e-01	7349.8222	37267.1395

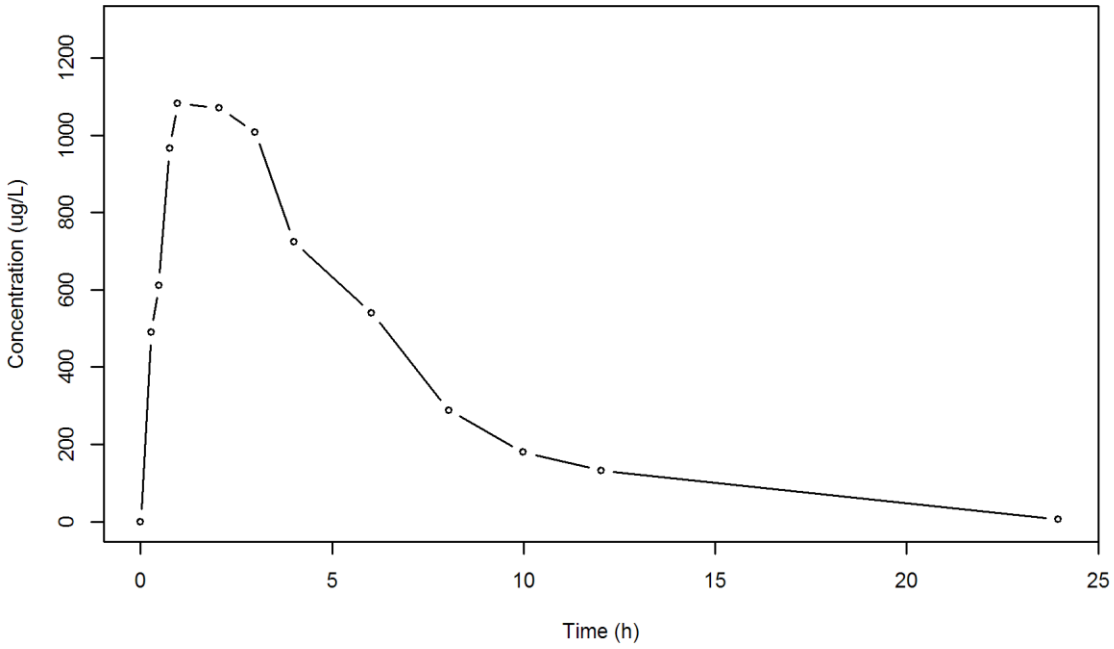
*: Used for the calculation of Lambda z.

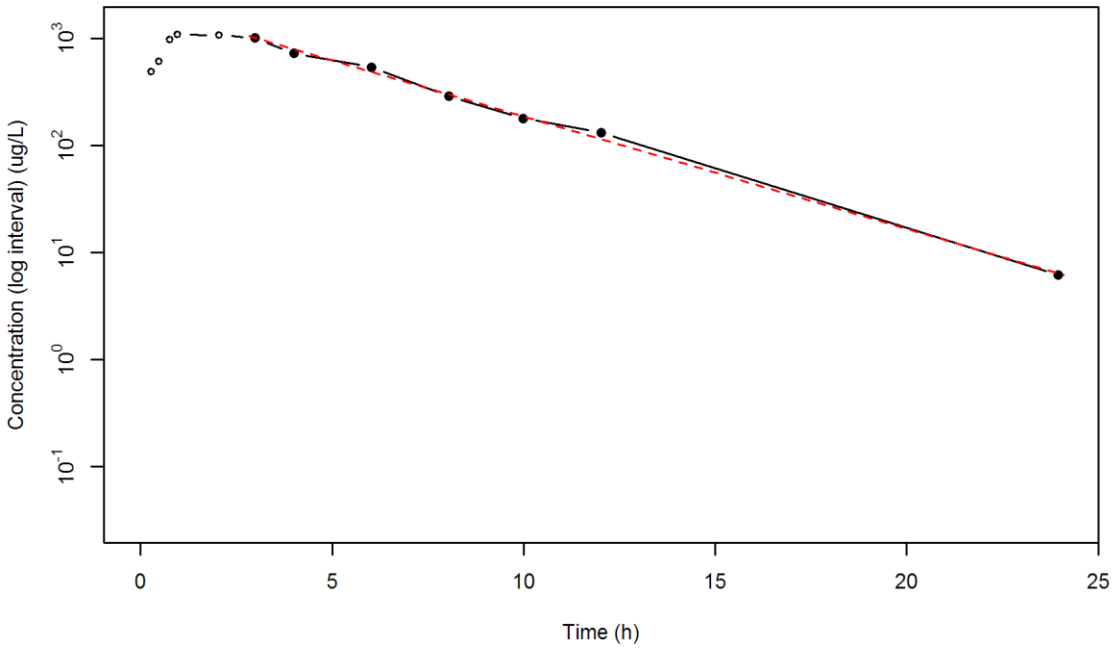
Calculated Values

CMAX	Max Conc	1082.7900	ug/L
TMAX	Time of CMAX	0.9700	h
TLAG	Time Until First Nonzero Conc	0.0000	h
CLST	Last Nonzero Conc	6.1700	ug/L
CLSTP	Last Nonzero Conc Pred	6.4499	ug/L
TLST	Time of Last Nonzero Conc	23.9600	h
LAMZHL	Half-Life Lambda z	2.8715	h
LAMZ	Lambda z	0.2414	/h
LAMZLL	Lambda z Lower Limit	2.9900	h
LAMZUL	Lambda z Upper Limit	23.9600	h
LAMZNPT	Number of Points for Lambda z	7	
CORRXY	Correlation Between TimeX and Log ConcY	-0.9987	
R2	R Squared	0.9975	
R2ADJ	R Squared Adjusted	0.9969	
AUCLST	AUC to Last Nonzero Conc	7349.8222	h*ug/L

AUCALL	AUC All	7349.8222	h*ug/L
AUCIFO	AUC Infinity Obs	7375.3830	h*ug/L
AUCIFP	AUC Infinity Pred	7376.5427	h*ug/L
AUCPEO	AUC %Extrapolation Obs	0.3466	%
AUCPEP	AUC %Extrapolation Pred	0.3622	%
AUMCLST	AUMC to Last Nonzero Conc	37267.1395	h2*ug/L
AUMCIFO	AUMC Infinity Obs	37985.4692	h2*ug/L
AUMCIFP	AUMC Infinity Pred	38018.0587	h2*ug/L
AUMCPEO	AUMC %Extrapolation Obs	1.8911	%
AUMCPEP	AUMC % Extrapolation Pred	1.9752	%
VZFO	Vz Obs by F	0.0000	L
VZFP	Vz Pred by F	0.0000	L
CLFO	Total CL Obs by F	0.0000	L/h
CLFP	Total CL Pred by F	0.0000	L/h
MRTEVLST	MRT Extravasc to Last Nonzero Conc	5.0705	h
MRTEVIFO	MRT Extravasc Infinity Obs	5.1503	h
MRTEVIFP	MRT Extravasc Infinity Pred	5.1539	h

SUBJ 10, GRP RT, PRD 2, TRT T





SUBJ 11, GRP TR, PRD 1, TRT T

NONCOMPARTMENTAL ANALYSIS REPORT
Package version 0.3.9 (2018-05-10 KST)
R version 3.5.0 (2018-04-23)

Date and Time: 2018-06-19 09:49:35 Asia/Seoul

Calculation Setting

Drug Administration: Extravascular
Observation count excluding trailing zero: 13
Dose at time 0: 0 mg
AUC Calculation Method: Linear-up Linear-down
Weighting for lambda z: Uniform (Ordinary Least Square, OLS)
Lambda z selection criterion: Heighest adjusted R-squared value with precision=1e-4

Fitting, AUC, AUMC Result

	Time		Conc.	Pred.	Residual	AUC	AUMC
	0.0000		0.0000			0.0000	0.0000
	0.2300		210.2600			24.1799	5.5614
	0.4900		332.6800			94.7621	33.0399
	0.7400		378.4500			183.6534	88.4231
	0.9900		533.7400			297.6771	189.4801
	2.0200		547.7300			854.6342	1031.4110
	2.9600		301.8100			1253.9180	1971.3039
	3.9700		290.4200			1552.9941	3004.6980
	6.0000		234.7700			2086.0620	5604.7092
	7.9600		140.7200			2454.0422	8082.8854
	10.0100	*	76.3800	72.6299	+3.750e+00	2676.5697	10014.6978
	12.0000	*	41.3500	43.8502	-2.500e+00	2793.7110	11269.1578
	23.9800	*	2.1200	2.1023	+1.765e-02	3054.0963	14545.9130

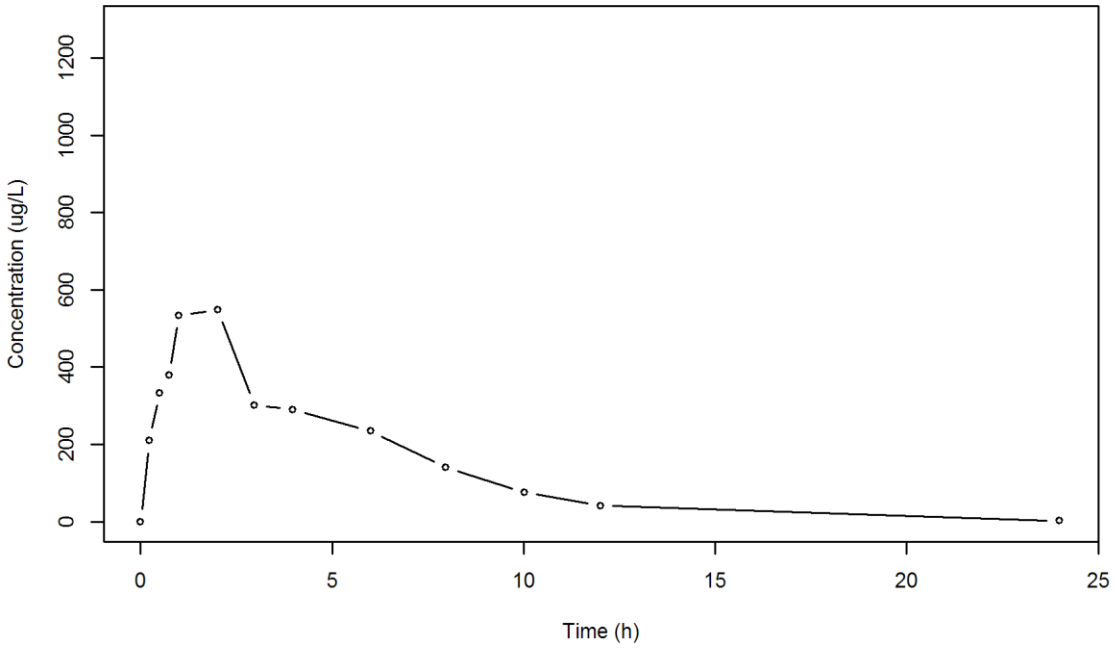
*: Used for the calculation of Lambda z.

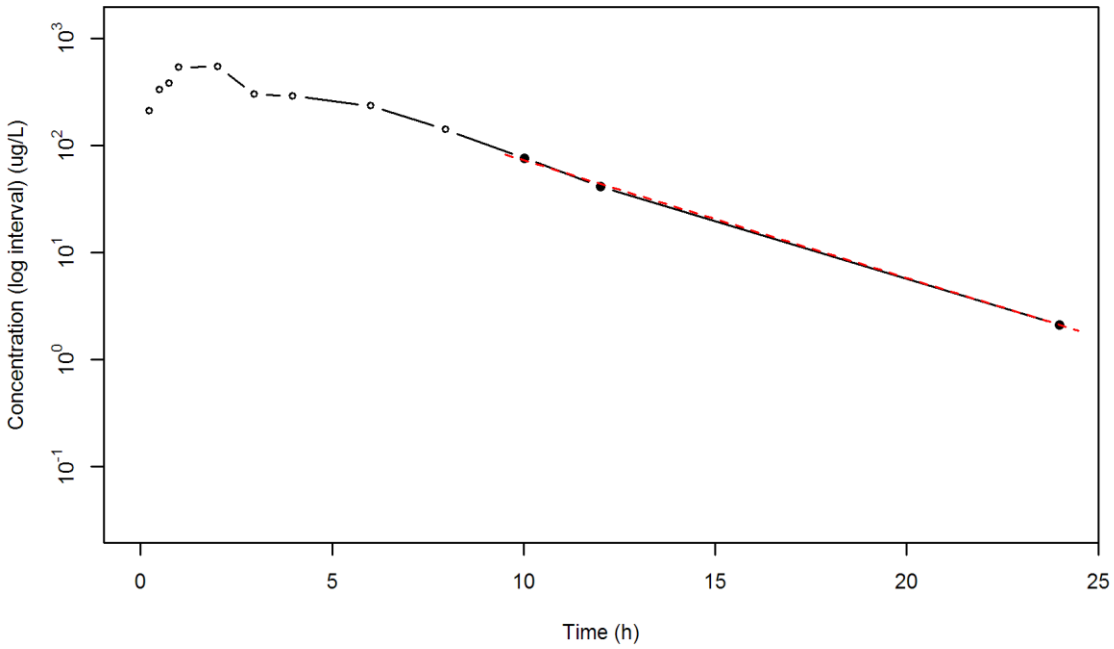
Calculated Values

CMAX	Max Conc	547.7300	ug/L
TMAX	Time of CMAX	2.0200	h
TLAG	Time Until First Nonzero Conc	0.0000	h
CLST	Last Nonzero Conc	2.1200	ug/L
CLSTP	Last Nonzero Conc Pred	2.1023	ug/L
TLST	Time of Last Nonzero Conc	23.9800	h
LAMZHL	Half-Life Lambda z	2.7336	h
LAMZ	Lambda z	0.2536	/h
LAMZLL	Lambda z Lower Limit	10.0100	h
LAMZUL	Lambda z Upper Limit	23.9800	h
LAMZNPT	Number of Points for Lambda z	3	
CORRXY	Correlation Between TimeX and Log ConcY	-0.9996	
R2	R Squared	0.9992	
R2ADJ	R Squared Adjusted	0.9984	
AUCLST	AUC to Last Nonzero Conc	3054.0963	h*ug/L

AUCALL	AUC All	3054.0963	h*ug/L
AUCIFO	AUC Infinity Obs	3062.4570	h*ug/L
AUCIFP	AUC Infinity Pred	3062.3874	h*ug/L
AUCPEO	AUC %Extrapolation Obs	0.2730	%
AUCPEP	AUC %Extrapolation Pred	0.2707	%
AUMCLST	AUMC to Last Nonzero Conc	14545.9130	h2*ug/L
AUMCIFO	AUMC Infinity Obs	14779.3758	h2*ug/L
AUMCIFP	AUMC Infinity Pred	14777.4315	h2*ug/L
AUMCPEO	AUMC %Extrapolation Obs	1.5797	%
AUMCPEP	AUMC % Extrapolation Pred	1.5667	%
VZFO	Vz Obs by F	0.0000	L
VZFP	Vz Pred by F	0.0000	L
CLFO	Total CL Obs by F	0.0000	L/h
CLFP	Total CL Pred by F	0.0000	L/h
MRTEVLST	MRT Extravasc to Last Nonzero Conc	4.7628	h
MRTEVIFO	MRT Extravasc Infinity Obs	4.8260	h
MRTEVIFP	MRT Extravasc Infinity Pred	4.8255	h

SUBJ 11, GRP TR, PRD 1, TRT T





SUBJ 11, GRP TR, PRD 2, TRT R

NONCOMPARTMENTAL ANALYSIS REPORT
Package version 0.3.9 (2018-05-10 KST)
R version 3.5.0 (2018-04-23)

Date and Time: 2018-06-19 09:49:35 Asia/Seoul

Calculation Setting

Drug Administration: Extravascular
Observation count excluding trailing zero: 13
Dose at time 0: 0 mg
AUC Calculation Method: Linear-up Linear-down
Weighting for lambda z: Uniform (Ordinary Least Square, OLS)
Lambda z selection criterion: Heighest adjusted R-squared value with precision=1e-4

Fitting, AUC, AUMC Result

	Time		Conc.	Pred.	Residual	AUC	AUMC
	0.0000		0.5300			0.0000	0.0000
	0.2200		669.3800			73.6901	16.1990
	0.5400		984.6900			338.3413	124.8384
	0.7000		970.5100			494.7573	221.7256
	0.9500		960.1700			736.0923	420.6654
	1.9700		870.4400			1669.7034	1760.3988
	3.0000		623.9300			2439.3040	3607.4756
	4.0100		417.1600			2965.0544	5397.4994
	5.9700	*	268.2500	270.7705	-2.520e+00	3636.7562	8606.2782
	7.9800	*	159.4900	150.1251	+9.365e+00	4066.6349	11494.8318
	9.9600	*	77.8200	83.9708	-6.151e+00	4301.5718	13522.1710
	12.0100	*	47.0500	46.0132	+1.037e+00	4429.5636	14895.8327
	23.9700	*	1.3800	1.3764	+3.622e-03	4719.1750	18472.7643

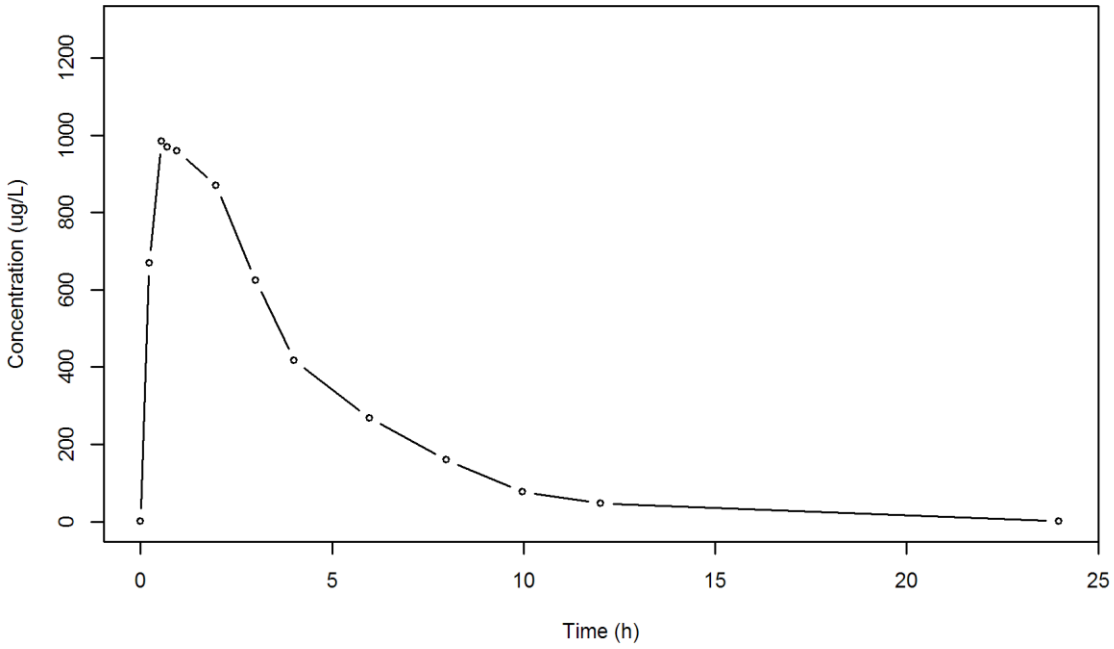
*: Used for the calculation of Lambda z.

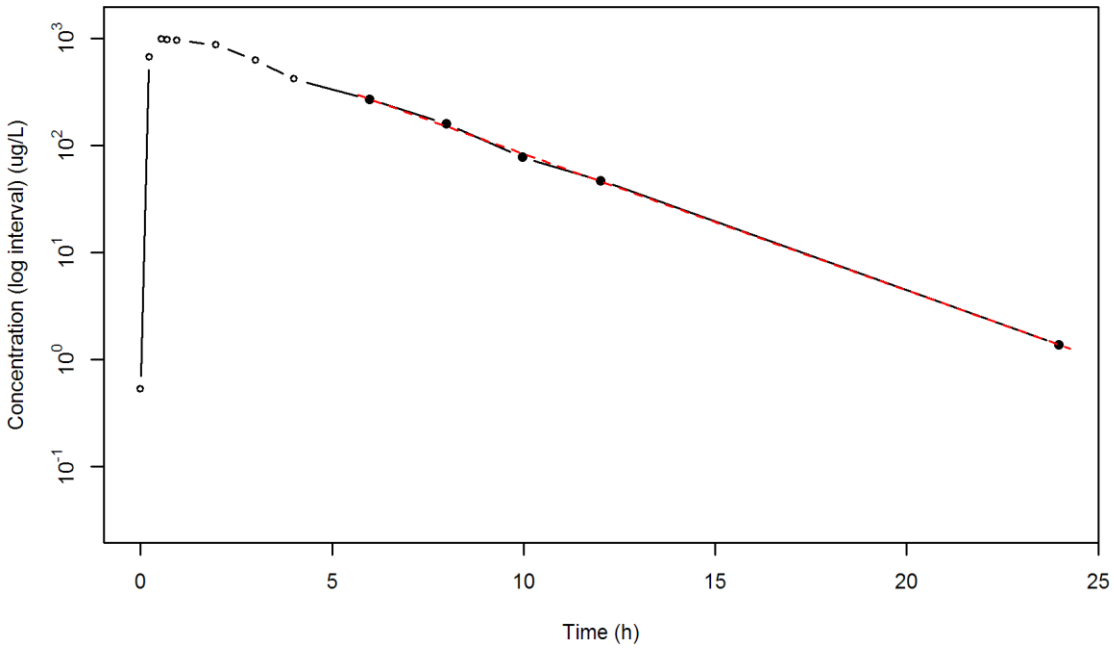
Calculated Values

CMAX	Max Conc	984.6900	ug/L
TMAX	Time of CMAX	0.5400	h
TLAG	Time Until First Nonzero Conc	0.0000	h
CLST	Last Nonzero Conc	1.3800	ug/L
CLSTP	Last Nonzero Conc Pred	1.3764	ug/L
TLST	Time of Last Nonzero Conc	23.9700	h
LAMZHL	Half-Life Lambda z	2.3622	h
LAMZ	Lambda z	0.2934	/h
LAMZLL	Lambda z Lower Limit	5.9700	h
LAMZUL	Lambda z Upper Limit	23.9700	h
LAMZNPT	Number of Points for Lambda z	5	
CORRXY	Correlation Between TimeX and Log ConcY	-0.9997	
R2	R Squared	0.9994	
R2ADJ	R Squared Adjusted	0.9992	
AUCLST	AUC to Last Nonzero Conc	4719.1750	h*ug/L

AUCALL	AUC All	4719.1750	h*ug/L
AUCIFO	AUC Infinity Obs	4723.8779	h*ug/L
AUCIFP	AUC Infinity Pred	4723.8655	h*ug/L
AUCPEO	AUC %Extrapolation Obs	0.0996	%
AUCPEP	AUC %Extrapolation Pred	0.0993	%
AUMCLST	AUMC to Last Nonzero Conc	18472.7643	h2*ug/L
AUMCIFO	AUMC Infinity Obs	18601.5207	h2*ug/L
AUMCIFP	AUMC Infinity Pred	18601.1827	h2*ug/L
AUMCPEO	AUMC %Extrapolation Obs	0.6922	%
AUMCPEP	AUMC % Extrapolation Pred	0.6904	%
VZFO	Vz Obs by F	0.0000	L
VZFP	Vz Pred by F	0.0000	L
CLFO	Total CL Obs by F	0.0000	L/h
CLFP	Total CL Pred by F	0.0000	L/h
MRTEVLST	MRT Extravasc to Last Nonzero Conc	3.9144	h
MRTEVIFO	MRT Extravasc Infinity Obs	3.9378	h
MRTEVIFP	MRT Extravasc Infinity Pred	3.9377	h

SUBJ 11, GRP TR, PRD 2, TRT R





SUBJ 12, GRP TR, PRD 1, TRT T

NONCOMPARTMENTAL ANALYSIS REPORT
Package version 0.3.9 (2018-05-10 KST)
R version 3.5.0 (2018-04-23)

Date and Time: 2018-06-19 09:49:35 Asia/Seoul

Calculation Setting

Drug Administration: Extravascular
Observation count excluding trailing zero: 13
Dose at time 0: 0 mg
AUC Calculation Method: Linear-up Linear-down
Weighting for lambda z: Uniform (Ordinary Least Square, OLS)
Lambda z selection criterion: Heighest adjusted R-squared value with precision=1e-4

Fitting, AUC, AUMC Result

	Time		Conc.	Pred.	Residual	AUC	AUMC
	0.0000		0.0000			0.0000	0.0000
	0.2200		265.5000			29.2050	6.4251
	0.4600		430.2100			112.6902	37.1819
	0.7400		542.1800			248.8248	121.0573
	1.0000		531.3200			388.3798	242.2866
	2.0200		563.2100			946.5901	1093.4787
	3.0100		556.1800			1500.6882	2485.3128
	4.0300	*	397.4200	415.0829	-1.766e+01	1987.0242	4155.9220
	6.0400	*	282.4600	285.1377	-2.678e+00	2670.3036	7480.1213
	8.0400	*	213.8400	196.2392	+1.760e+01	3166.6036	10905.4533
	9.9700	*	142.1600	136.8347	+5.325e+00	3510.1436	13932.2808
	12.0100	*	86.9400	93.4721	-6.532e+00	3743.8256	16442.9951
	24.0400	*	9.8900	9.8772	+1.277e-02	4326.2580	24153.6537

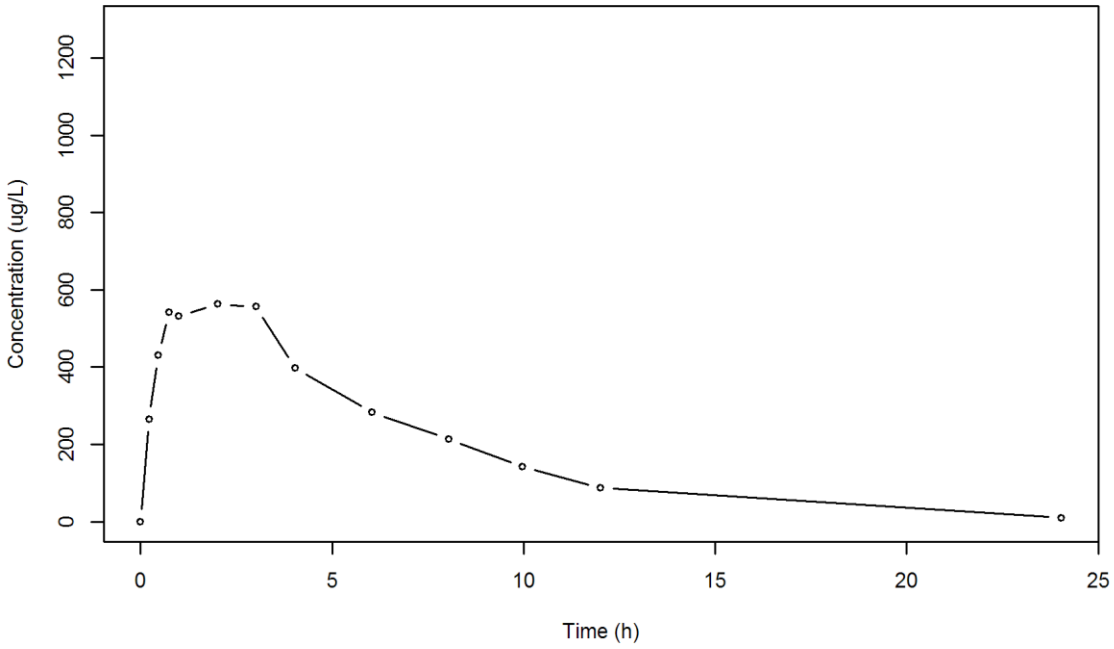
*: Used for the calculation of Lambda z.

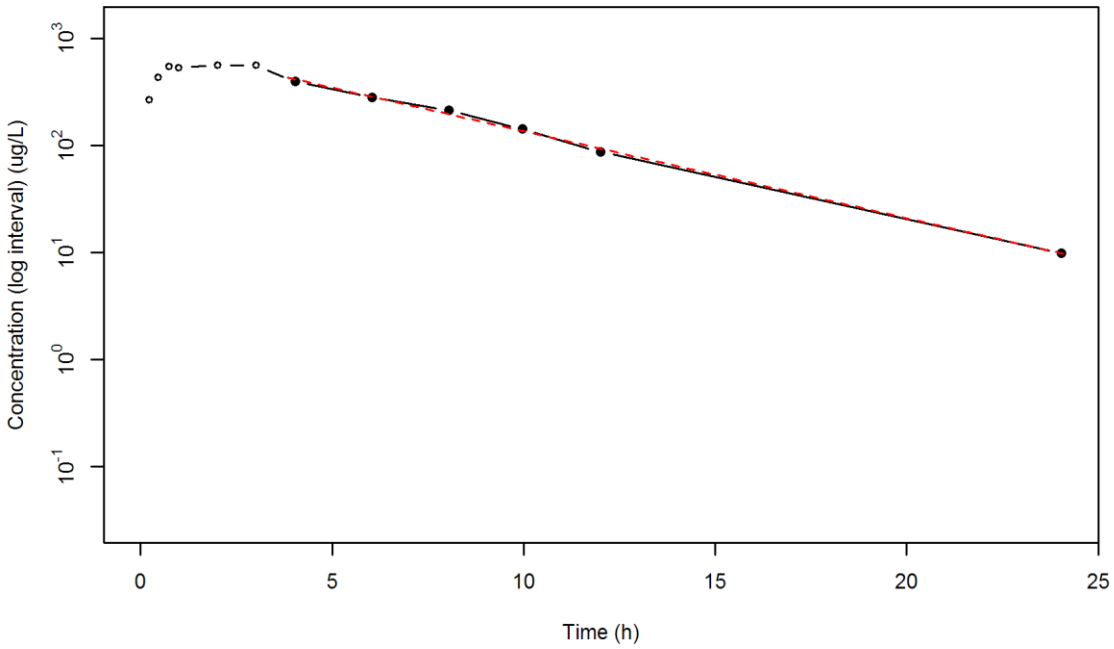
Calculated Values

CMAX	Max Conc	563.2100	ug/L
TMAX	Time of CMAX	2.0200	h
TLAG	Time Until First Nonzero Conc	0.0000	h
CLST	Last Nonzero Conc	9.8900	ug/L
CLSTP	Last Nonzero Conc Pred	9.8772	ug/L
TLST	Time of Last Nonzero Conc	24.0400	h
LAMZHL	Half-Life Lambda z	3.7103	h
LAMZ	Lambda z	0.1868	/h
LAMZLL	Lambda z Lower Limit	4.0300	h
LAMZUL	Lambda z Upper Limit	24.0400	h
LAMZNPT	Number of Points for Lambda z	6	
CORRXY	Correlation Between TimeX and Log ConcY	-0.9991	
R2	R Squared	0.9982	
R2ADJ	R Squared Adjusted	0.9977	
AUCLST	AUC to Last Nonzero Conc	4326.2580	h*ug/L

AUCALL	AUC All	4326.2580	h*ug/L
AUCIFO	AUC Infinity Obs	4379.1970	h*ug/L
AUCIFP	AUC Infinity Pred	4379.1286	h*ug/L
AUCPEO	AUC %Extrapolation Obs	1.2089	%
AUCPEP	AUC %Extrapolation Pred	1.2073	%
AUMCLST	AUMC to Last Nonzero Conc	24153.6537	h2*ug/L
AUMCIFO	AUMC Infinity Obs	25709.6769	h2*ug/L
AUMCIFP	AUMC Infinity Pred	25707.6673	h2*ug/L
AUMCPEO	AUMC %Extrapolation Obs	6.0523	%
AUMCPEP	AUMC % Extrapolation Pred	6.0449	%
VZFO	Vz Obs by F	0.0000	L
VZFP	Vz Pred by F	0.0000	L
CLFO	Total CL Obs by F	0.0000	L/h
CLFP	Total CL Pred by F	0.0000	L/h
MRTEVLST	MRT Extravasc to Last Nonzero Conc	5.5830	h
MRTEVIFO	MRT Extravasc Infinity Obs	5.8709	h
MRTEVIFP	MRT Extravasc Infinity Pred	5.8705	h

SUBJ 12, GRP TR, PRD 1, TRT T





SUBJ 12, GRP TR, PRD 2, TRT R

NONCOMPARTMENTAL ANALYSIS REPORT
Package version 0.3.9 (2018-05-10 KST)
R version 3.5.0 (2018-04-23)

Date and Time: 2018-06-19 09:49:35 Asia/Seoul

Calculation Setting

Drug Administration: Extravascular
Observation count excluding trailing zero: 13
Dose at time 0: 0 mg
AUC Calculation Method: Linear-up Linear-down
Weighting for lambda z: Uniform (Ordinary Least Square, OLS)
Lambda z selection criterion: Heighest adjusted R-squared value with precision=1e-4

Fitting, AUC, AUMC Result

	Time		Conc.	Pred.	Residual	AUC	AUMC
	0.0000		0.0000			0.0000	0.0000
	0.2900		197.2400			28.5998	8.2939
	0.5100		308.2400			84.2026	31.8782
	0.7800		434.2700			184.4415	98.8291
	0.9800		426.5400			270.5225	174.5031
	2.0200		592.6800			800.5169	1014.4190
	3.0000		498.2500			1335.0725	2333.4811
	3.9600		516.6200			1822.2102	4032.9524
	6.0100		334.7400			2694.8541	8191.9951
	8.0400		249.9800			3288.3449	12273.9461
	9.9600	*	222.1100	218.0794	+4.031e+00	3741.5514	16327.1187
	12.0100	*	156.8200	160.2189	-3.399e+00	4129.9546	20525.1331
	24.0100	*	26.4400	26.3574	+8.259e-02	5229.5146	35634.5287

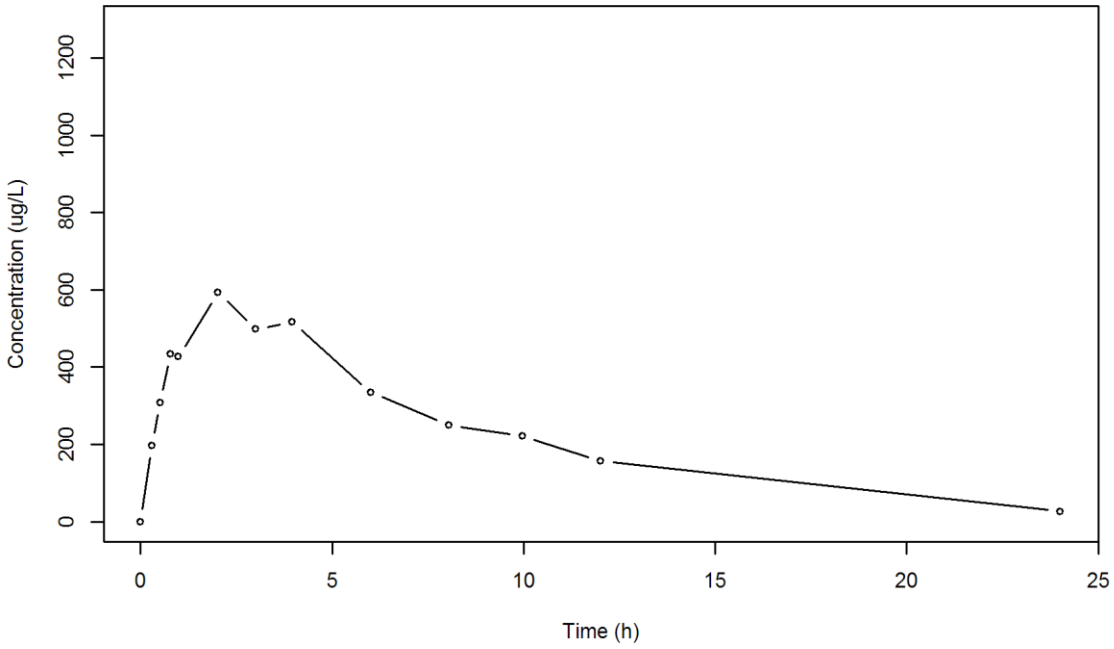
*: Used for the calculation of Lambda z.

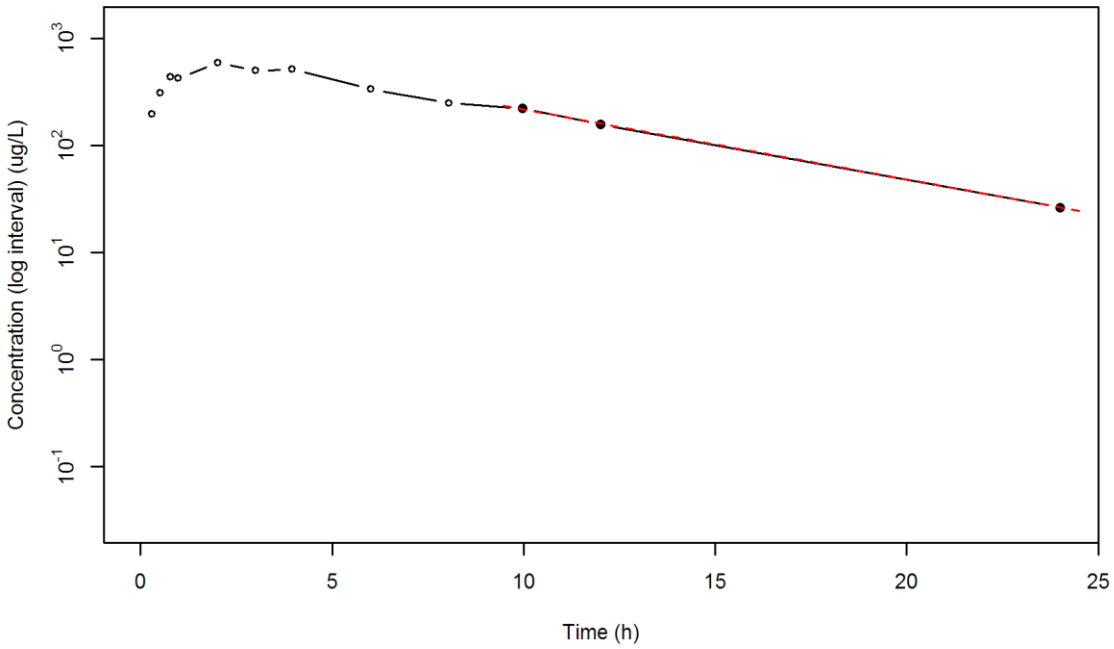
Calculated Values

CMAX	Max Conc	592.6800	ug/L
TMAX	Time of CMAX	2.0200	h
TLAG	Time Until First Nonzero Conc	0.0000	h
CLST	Last Nonzero Conc	26.4400	ug/L
CLSTP	Last Nonzero Conc Pred	26.3574	ug/L
TLST	Time of Last Nonzero Conc	24.0100	h
LAMZHL	Half-Life Lambda z	4.6087	h
LAMZ	Lambda z	0.1504	/h
LAMZLL	Lambda z Lower Limit	9.9600	h
LAMZUL	Lambda z Upper Limit	24.0100	h
LAMZNPT	Number of Points for Lambda z	3	
CORRXY	Correlation Between TimeX and Log ConcY	-0.9998	
R2	R Squared	0.9997	
R2ADJ	R Squared Adjusted	0.9994	
AUCLST	AUC to Last Nonzero Conc	5229.5146	h*ug/L

AUCALL	AUC All	5229.5146	h*ug/L
AUCIFO	AUC Infinity Obs	5405.3133	h*ug/L
AUCIFP	AUC Infinity Pred	5404.7642	h*ug/L
AUCPEO	AUC %Extrapolation Obs	3.2523	%
AUCPEP	AUC %Extrapolation Pred	3.2425	%
AUMCLST	AUMC to Last Nonzero Conc	35634.5287	h2*ug/L
AUMCIFO	AUMC Infinity Obs	41024.3361	h2*ug/L
AUMCIFP	AUMC Infinity Pred	41007.5002	h2*ug/L
AUMCPEO	AUMC %Extrapolation Obs	13.1381	%
AUMCPEP	AUMC % Extrapolation Pred	13.1024	%
VZFO	Vz Obs by F	0.0000	L
VZFP	Vz Pred by F	0.0000	L
CLFO	Total CL Obs by F	0.0000	L/h
CLFP	Total CL Pred by F	0.0000	L/h
MRTEVLST	MRT Extravasc to Last Nonzero Conc	6.8141	h
MRTEVIFO	MRT Extravasc Infinity Obs	7.5896	h
MRTEVIFP	MRT Extravasc Infinity Pred	7.5873	h

SUBJ 12, GRP TR, PRD 2, TRT R





SUBJ 13, GRP RT, PRD 1, TRT R

NONCOMPARTMENTAL ANALYSIS REPORT
Package version 0.3.9 (2018-05-10 KST)
R version 3.5.0 (2018-04-23)

Date and Time: 2018-06-19 09:49:35 Asia/Seoul

Calculation Setting

Drug Administration: Extravascular
Observation count excluding trailing zero: 13
Dose at time 0: 0 mg
AUC Calculation Method: Linear-up Linear-down
Weighting for lambda z: Uniform (Ordinary Least Square, OLS)
Lambda z selection criterion: Heighest adjusted R-squared value with precision=1e-4

Fitting, AUC, AUMC Result

	Time	Conc.	Pred.	Residual	AUC	AUMC
	0.0000	0.0000			0.0000	0.0000
	0.2400	319.6400			38.3568	9.2056
	0.5500	529.8400			170.0262	66.2651
	0.7200	599.4900			266.0193	127.7239
	1.0000	615.1700			436.0717	274.2763
	1.9800	516.3800			990.5312	1076.7015
	2.9600	505.0700			1491.0416	2310.2469
	3.9900	364.4000			1938.8187	3828.9629
	5.9900	290.3100			2593.5287	7021.8758
*	7.9900	237.0800	240.8662	-3.786e+00	3120.9187	10655.1019
*	9.9500	180.4900	181.2352	-7.452e-01	3530.1373	14271.4437
*	11.9600	138.9300	135.3811	+3.549e+00	3851.1544	17746.2094
*	24.0000	23.4500	23.5891	-1.391e-01	4828.6820	31137.1143

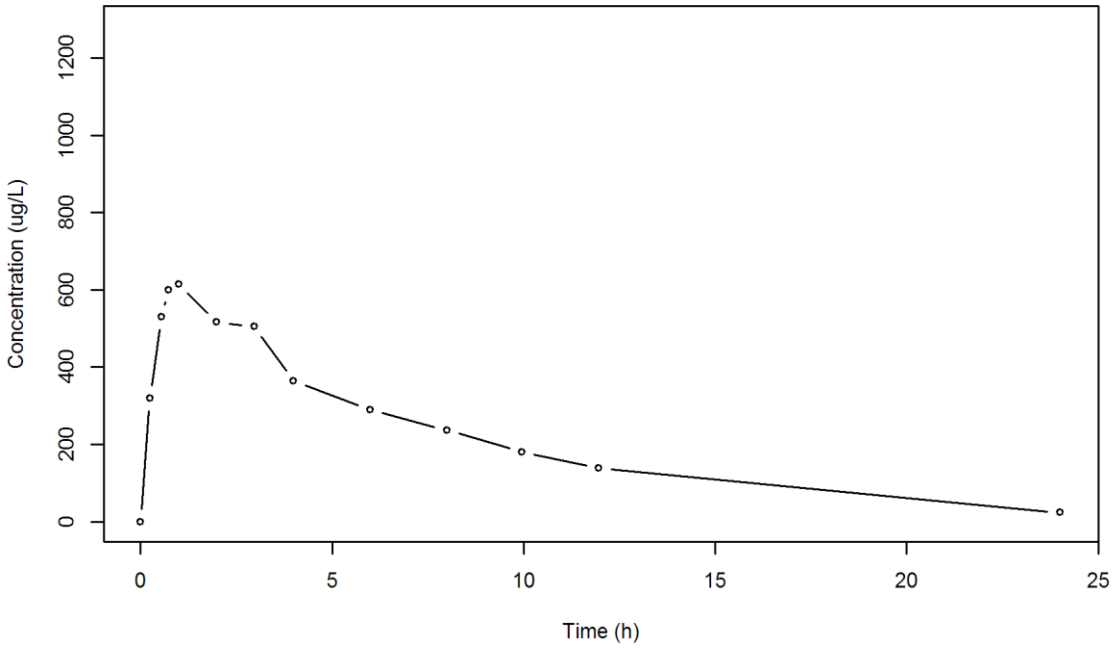
*: Used for the calculation of Lambda z.

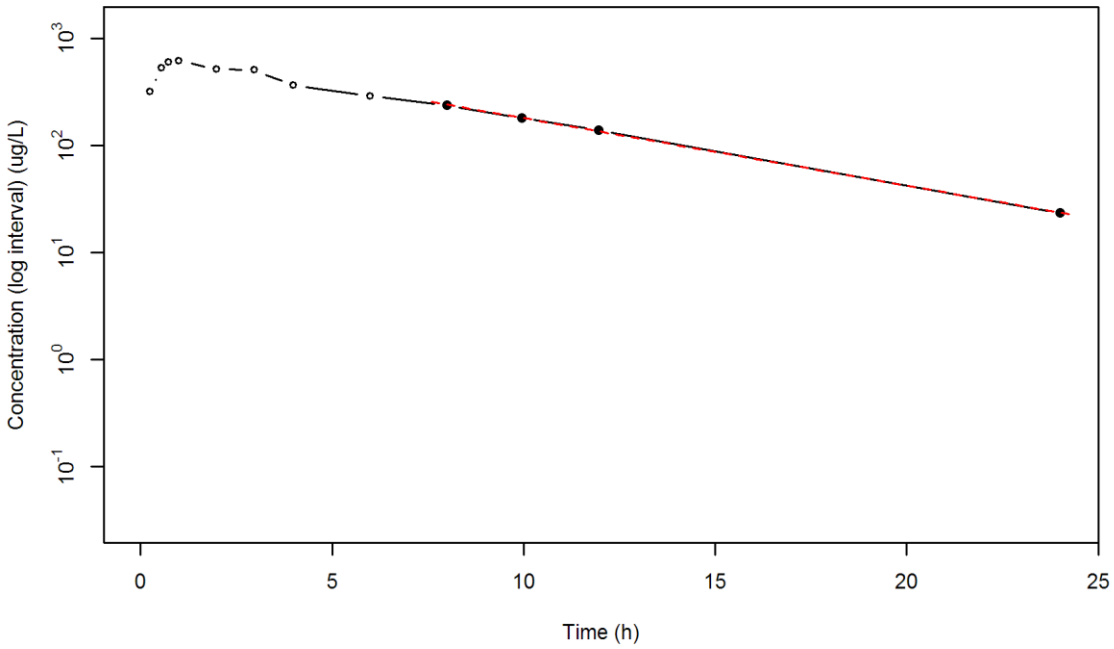
Calculated Values

CMAX	Max Conc	615.1700	ug/L
TMAX	Time of CMAX	1.0000	h
TLAG	Time Until First Nonzero Conc	0.0000	h
CLST	Last Nonzero Conc	23.4500	ug/L
CLSTP	Last Nonzero Conc Pred	23.5891	ug/L
TLST	Time of Last Nonzero Conc	24.0000	h
LAMZHL	Half-Life Lambda z	4.7762	h
LAMZ	Lambda z	0.1451	/h
LAMZLL	Lambda z Lower Limit	7.9900	h
LAMZUL	Lambda z Upper Limit	24.0000	h
LAMZNPT	Number of Points for Lambda z	4	
CORRXY	Correlation Between TimeX and Log ConcY	-0.9999	
R2	R Squared	0.9997	
R2ADJ	R Squared Adjusted	0.9996	
AUCLST	AUC to Last Nonzero Conc	4828.6820	h*ug/L

AUCALL	AUC All	4828.6820	h*ug/L
AUCIFO	AUC Infinity Obs	4990.2663	h*ug/L
AUCIFP	AUC Infinity Pred	4991.2245	h*ug/L
AUCPEO	AUC %Extrapolation Obs	3.2380	%
AUCPEP	AUC %Extrapolation Pred	3.2566	%
AUMCLST	AUMC to Last Nonzero Conc	31137.1143	h2*ug/L
AUMCIFO	AUMC Infinity Obs	36128.5484	h2*ug/L
AUMCIFP	AUMC Infinity Pred	36158.1462	h2*ug/L
AUMCPEO	AUMC %Extrapolation Obs	13.8158	%
AUMCPEP	AUMC % Extrapolation Pred	13.8863	%
VZFO	Vz Obs by F	0.0000	L
VZFP	Vz Pred by F	0.0000	L
CLFO	Total CL Obs by F	0.0000	L/h
CLFP	Total CL Pred by F	0.0000	L/h
MRTEVLST	MRT Extravasc to Last Nonzero Conc	6.4484	h
MRTEVIFO	MRT Extravasc Infinity Obs	7.2398	h
MRTEVIFP	MRT Extravasc Infinity Pred	7.2443	h

SUBJ 13, GRP RT, PRD 1, TRT R





SUBJ 13, GRP RT, PRD 2, TRT T

NONCOMPARTMENTAL ANALYSIS REPORT
Package version 0.3.9 (2018-05-10 KST)
R version 3.5.0 (2018-04-23)

Date and Time: 2018-06-19 09:49:35 Asia/Seoul

Calculation Setting

Drug Administration: Extravascular
Observation count excluding trailing zero: 13
Dose at time 0: 0 mg
AUC Calculation Method: Linear-up Linear-down
Weighting for lambda z: Uniform (Ordinary Least Square, OLS)
Lambda z selection criterion: Heighest adjusted R-squared value with precision=1e-4

Fitting, AUC, AUMC Result

	Time		Conc.	Pred.	Residual	AUC	AUMC
	0.0000		0.0000			0.0000	0.0000
	0.2900		331.9100			48.1270	13.9568
	0.5200		431.7000			135.9421	50.8417
	0.7000		457.3400			215.9557	99.8577
	0.9700		692.2600			371.1517	233.7277
	2.0400		460.3500			987.7981	1095.4020
	2.9800		395.2400			1389.9254	2090.3588
	4.0000		375.0500			1782.7733	3456.1465
	5.9700		280.1400			2428.1354	6581.1928
	7.9900		220.6800			2933.9636	10051.2185
	9.9900	*	131.1600	132.1652	-1.005e+00	3285.8036	13124.7401
	11.9900	*	96.5500	95.6939	+8.561e-01	3513.5136	15592.6630
	23.9900	*	13.7700	13.7875	-1.753e-02	4175.4336	24520.5238

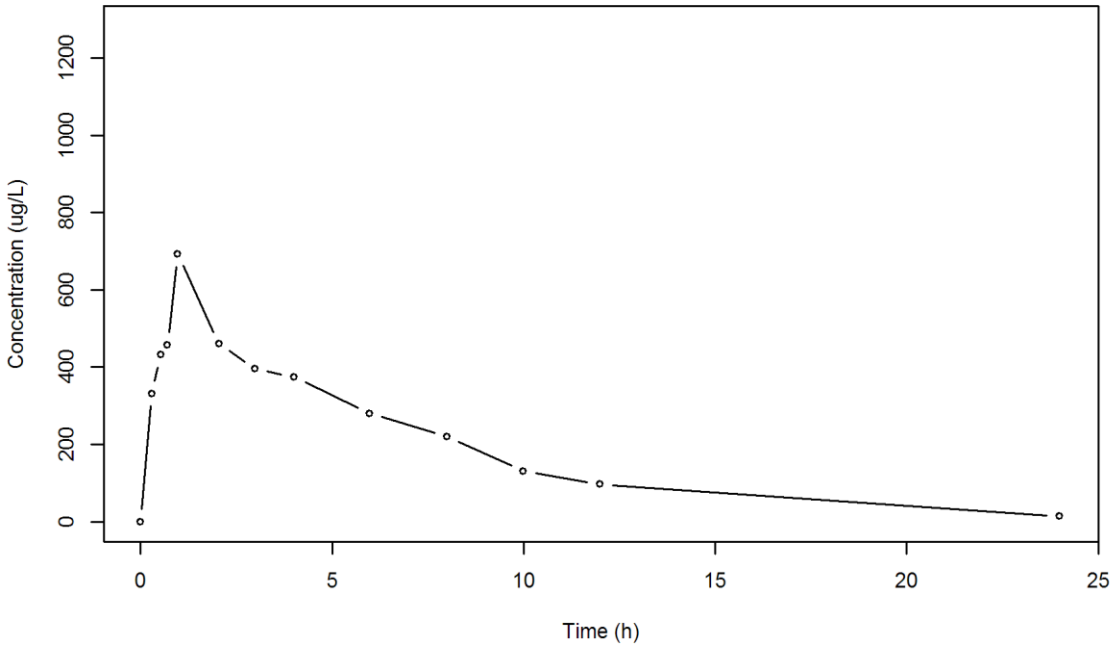
*: Used for the calculation of Lambda z.

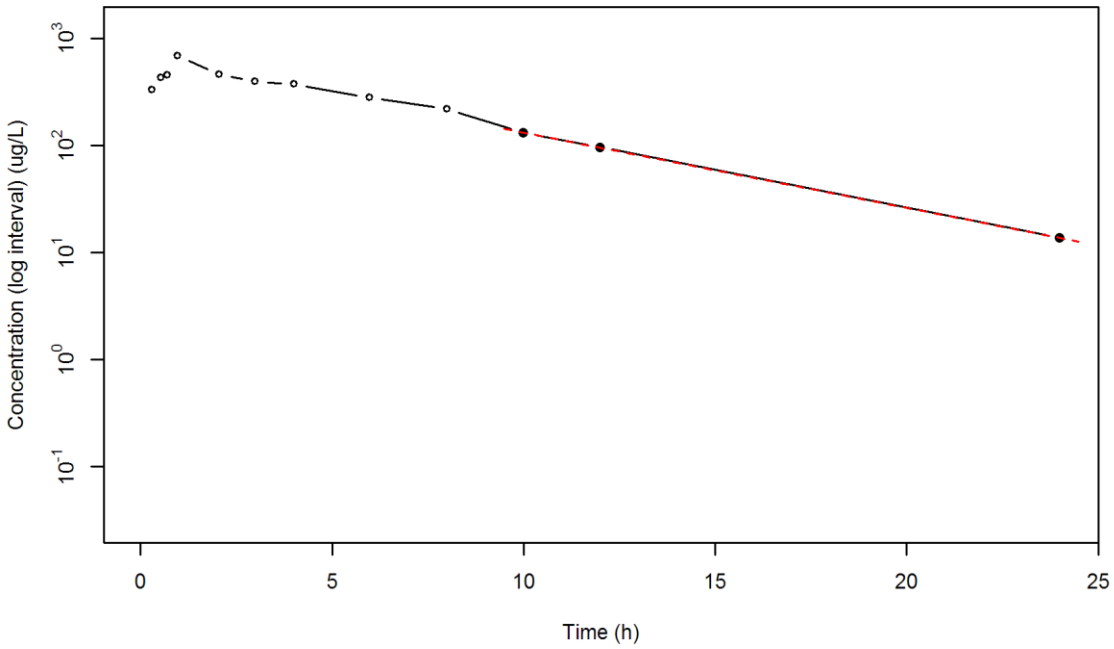
Calculated Values

CMAX	Max Conc	692.2600	ug/L
TMAX	Time of CMAX	0.9700	h
TLAG	Time Until First Nonzero Conc	0.0000	h
CLST	Last Nonzero Conc	13.7700	ug/L
CLSTP	Last Nonzero Conc Pred	13.7875	ug/L
TLST	Time of Last Nonzero Conc	23.9900	h
LAMZHL	Half-Life Lambda z	4.2933	h
LAMZ	Lambda z	0.1614	/h
LAMZLL	Lambda z Lower Limit	9.9900	h
LAMZUL	Lambda z Upper Limit	23.9900	h
LAMZNPT	Number of Points for Lambda z	3	
CORRXY	Correlation Between TimeX and Log ConcY	-1.0000	
R2	R Squared	1.0000	
R2ADJ	R Squared Adjusted	0.9999	
AUCLST	AUC to Last Nonzero Conc	4175.4336	h*ug/L

AUCALL	AUC All	4175.4336	h*ug/L
AUCIFO	AUC Infinity Obs	4260.7236	h*ug/L
AUCIFP	AUC Infinity Pred	4260.8322	h*ug/L
AUCPEO	AUC %Extrapolation Obs	2.0018	%
AUCPEP	AUC %Extrapolation Pred	2.0043	%
AUMCLST	AUMC to Last Nonzero Conc	24520.5238	h2*ug/L
AUMCIFO	AUMC Infinity Obs	27094.9096	h2*ug/L
AUMCIFP	AUMC Infinity Pred	27098.1874	h2*ug/L
AUMCPEO	AUMC %Extrapolation Obs	9.5014	%
AUMCPEP	AUMC % Extrapolation Pred	9.5123	%
VZFO	Vz Obs by F	0.0000	L
VZFP	Vz Pred by F	0.0000	L
CLFO	Total CL Obs by F	0.0000	L/h
CLFP	Total CL Pred by F	0.0000	L/h
MRTEVLST	MRT Extravasc to Last Nonzero Conc	5.8726	h
MRTEVIFO	MRT Extravasc Infinity Obs	6.3592	h
MRTEVIFP	MRT Extravasc Infinity Pred	6.3598	h

SUBJ 13, GRP RT, PRD 2, TRT T





SUBJ 14, GRP RT, PRD 1, TRT R

NONCOMPARTMENTAL ANALYSIS REPORT
Package version 0.3.9 (2018-05-10 KST)
R version 3.5.0 (2018-04-23)

Date and Time: 2018-06-19 09:49:35 Asia/Seoul

Calculation Setting

Drug Administration: Extravascular
Observation count excluding trailing zero: 13
Dose at time 0: 0 mg
AUC Calculation Method: Linear-up Linear-down
Weighting for lambda z: Uniform (Ordinary Least Square, OLS)
Lambda z selection criterion: Heighest adjusted R-squared value with precision=1e-4

Fitting, AUC, AUMC Result

	Time		Conc.	Pred.	Residual	AUC	AUMC
	0.0000		0.1800			0.0000	0.0000
	0.2300		269.7500			31.0420	7.1349
	0.4600		682.6800			140.5714	50.3835
	0.7400		792.7200			347.1274	176.4739
	1.0300		864.5600			587.4330	390.6548
	2.0300		707.6700			1373.5480	1554.1883
	3.0000		562.8200			1989.7357	3069.8279
	3.9900	*	497.0400	525.7790	-2.874e+01	2514.3664	4887.2944
	5.9800	*	312.7100	301.0650	+1.164e+01	3320.0676	8721.2238
	8.0200	*	178.2400	169.9939	+8.246e+00	3820.8366	12086.7043
	10.0000	*	104.8400	97.6129	+7.227e+00	4101.0858	14539.8102
	12.0200	*	49.6600	55.4260	-5.766e+00	4257.1308	16201.5765
	24.0000	*	1.9500	1.9319	+1.808e-02	4566.2747	20057.4186

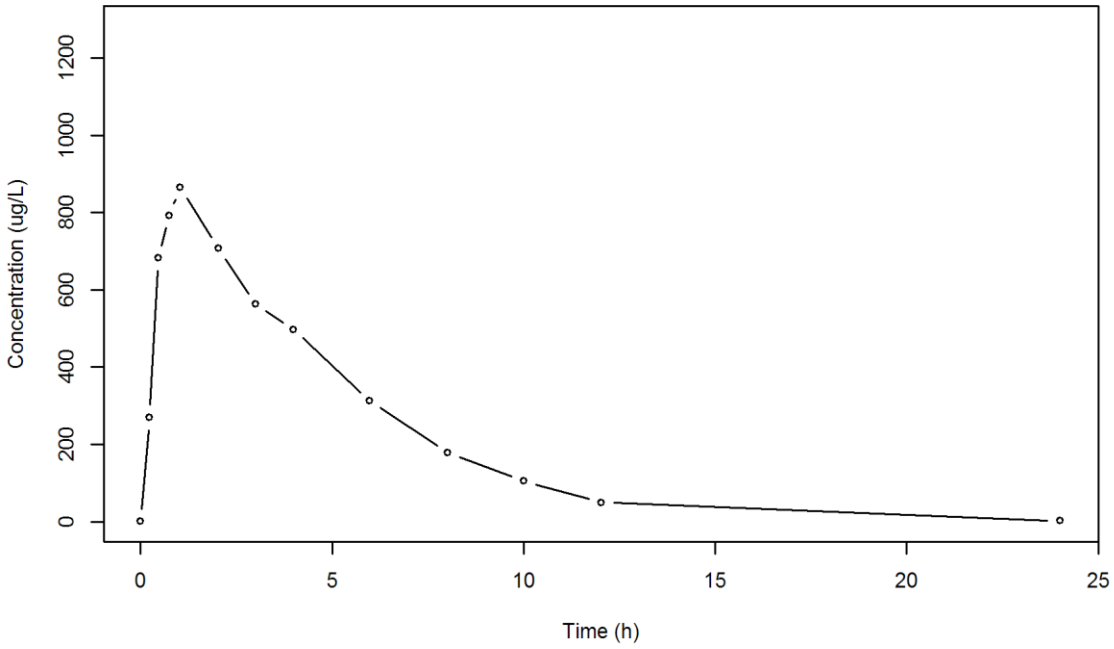
*: Used for the calculation of Lambda z.

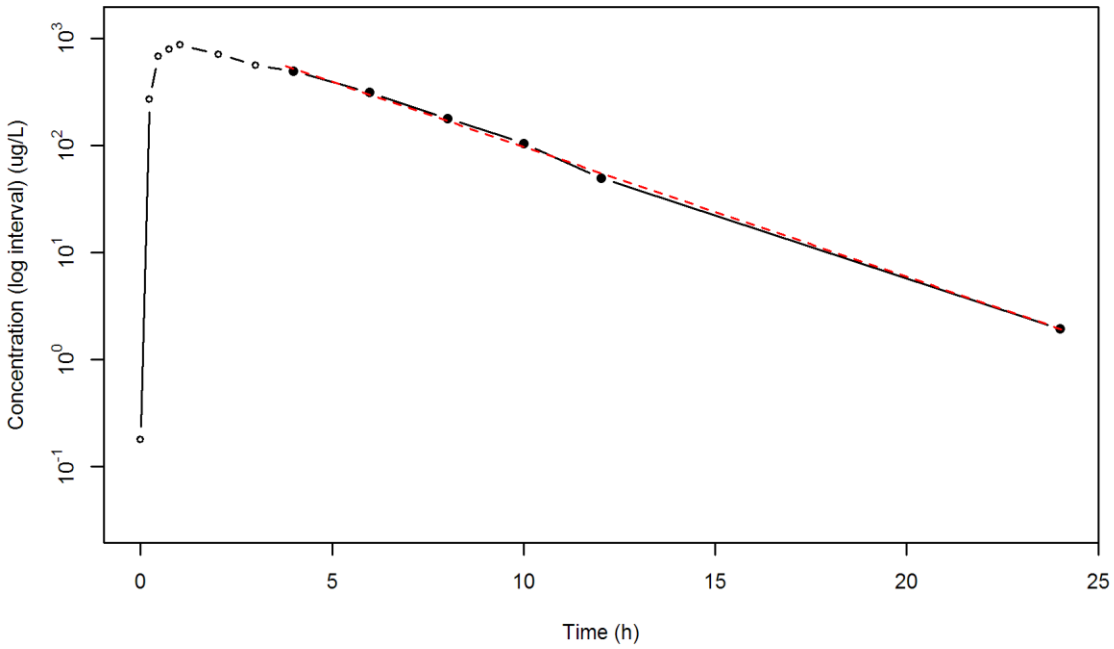
Calculated Values

CMAX	Max Conc	864.5600	ug/L
TMAX	Time of CMAX	1.0300	h
TLAG	Time Until First Nonzero Conc	0.0000	h
CLST	Last Nonzero Conc	1.9500	ug/L
CLSTP	Last Nonzero Conc Pred	1.9319	ug/L
TLST	Time of Last Nonzero Conc	24.0000	h
LAMZHL	Half-Life Lambda z	2.4740	h
LAMZ	Lambda z	0.2802	/h
LAMZLL	Lambda z Lower Limit	3.9900	h
LAMZUL	Lambda z Upper Limit	24.0000	h
LAMZNPT	Number of Points for Lambda z	6	
CORRXY	Correlation Between TimeX and Log ConcY	-0.9994	
R2	R Squared	0.9988	
R2ADJ	R Squared Adjusted	0.9985	
AUCLST	AUC to Last Nonzero Conc	4566.2747	h*ug/L

AUCALL	AUC All	4566.2747	h*ug/L
AUCIFO	AUC Infinity Obs	4573.2346	h*ug/L
AUCIFP	AUC Infinity Pred	4573.1700	h*ug/L
AUCPEO	AUC %Extrapolation Obs	0.1522	%
AUCPEP	AUC %Extrapolation Pred	0.1508	%
AUMCLST	AUMC to Last Nonzero Conc	20057.4186	h2*ug/L
AUMCIFO	AUMC Infinity Obs	20249.2959	h2*ug/L
AUMCIFP	AUMC Infinity Pred	20247.5167	h2*ug/L
AUMCPEO	AUMC %Extrapolation Obs	0.9476	%
AUMCPEP	AUMC % Extrapolation Pred	0.9389	%
VZFO	Vz Obs by F	0.0000	L
VZFP	Vz Pred by F	0.0000	L
CLFO	Total CL Obs by F	0.0000	L/h
CLFP	Total CL Pred by F	0.0000	L/h
MRTEVLST	MRT Extravasc to Last Nonzero Conc	4.3925	h
MRTEVIFO	MRT Extravasc Infinity Obs	4.4278	h
MRTEVIFP	MRT Extravasc Infinity Pred	4.4275	h

SUBJ 14, GRP RT, PRD 1, TRT R





SUBJ 14, GRP RT, PRD 2, TRT T

NONCOMPARTMENTAL ANALYSIS REPORT
Package version 0.3.9 (2018-05-10 KST)
R version 3.5.0 (2018-04-23)

Date and Time: 2018-06-19 09:49:35 Asia/Seoul

Calculation Setting

Drug Administration: Extravascular
Observation count excluding trailing zero: 13
Dose at time 0: 0 mg
AUC Calculation Method: Linear-up Linear-down
Weighting for lambda z: Uniform (Ordinary Least Square, OLS)
Lambda z selection criterion: Heighest adjusted R-squared value with precision=1e-4

Fitting, AUC, AUMC Result

	Time		Conc.	Pred.	Residual	AUC	AUMC
	0.0000		1.0200			0.0000	0.0000
	0.2200		417.2000			46.0042	10.0962
	0.5200		729.8900			218.0677	80.7953
	0.7500		1122.7500			431.1213	221.2799
	0.9800		934.3700			667.6901	423.4206
	2.0200		741.9200			1539.3609	1678.8883
	3.0400		730.4500			2290.2696	3575.7039
	4.0100		476.3300			2875.5579	5579.0698
	6.0100		290.8500			3642.7379	9237.1616
	8.0300		190.7400			4129.1438	12549.6088
	10.0400	*	110.6700	109.1065	+1.563e+00	4432.0609	15205.5917
	12.0300	*	67.7900	68.9237	-1.134e+00	4609.6285	17122.5990
	24.0400	*	4.3200	4.3098	+1.017e-02	5042.6491	22643.3948

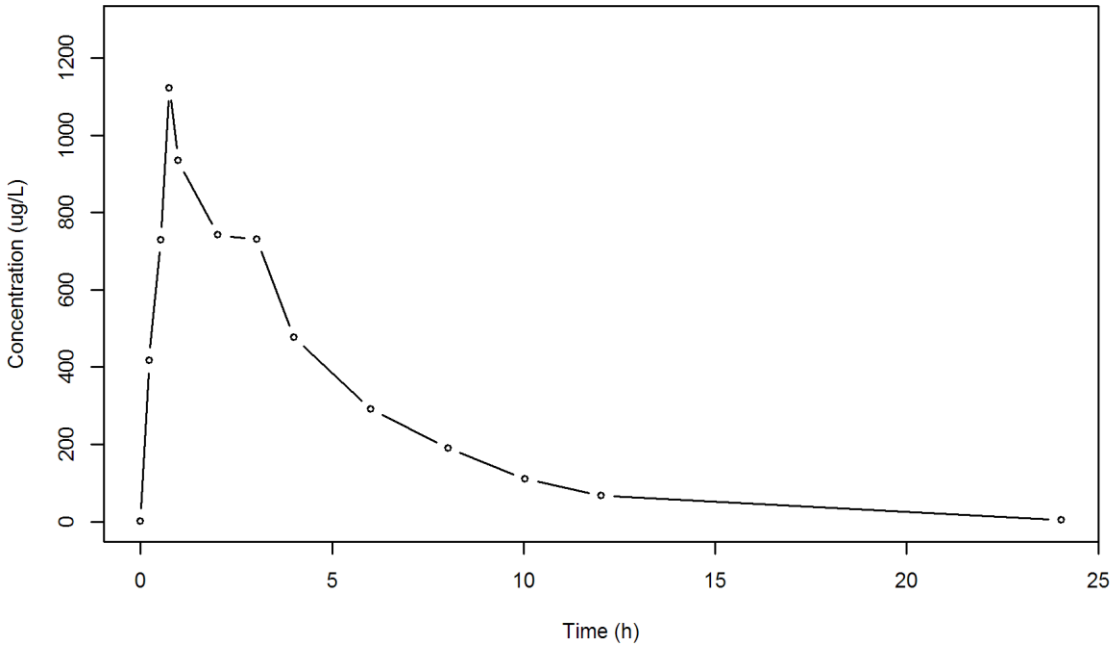
*: Used for the calculation of Lambda z.

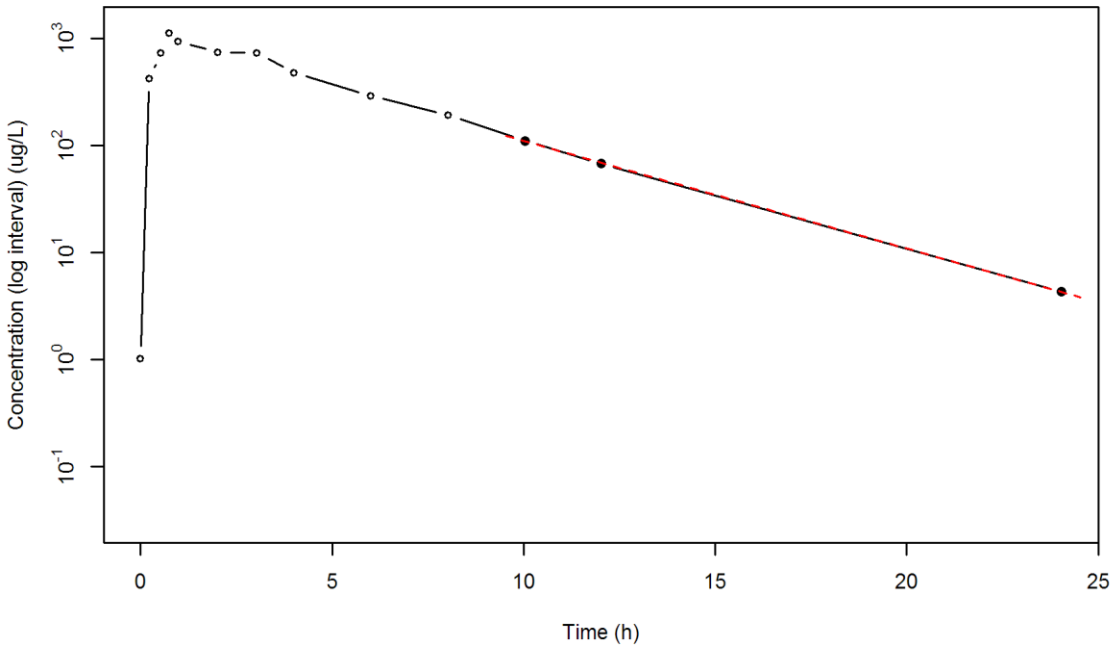
Calculated Values

CMAX	Max Conc	1122.7500	ug/L
TMAX	Time of CMAX	0.7500	h
TLAG	Time Until First Nonzero Conc	0.0000	h
CLST	Last Nonzero Conc	4.3200	ug/L
CLSTP	Last Nonzero Conc Pred	4.3098	ug/L
TLST	Time of Last Nonzero Conc	24.0400	h
LAMZHL	Half-Life Lambda z	3.0030	h
LAMZ	Lambda z	0.2308	/h
LAMZLL	Lambda z Lower Limit	10.0400	h
LAMZUL	Lambda z Upper Limit	24.0400	h
LAMZNPT	Number of Points for Lambda z	3	
CORRXY	Correlation Between TimeX and Log ConcY	-1.0000	
R2	R Squared	0.9999	
R2ADJ	R Squared Adjusted	0.9998	
AUCLST	AUC to Last Nonzero Conc	5042.6491	h*ug/L

AUCALL	AUC All	5042.6491	h*ug/L
AUCIFO	AUC Infinity Obs	5061.3653	h*ug/L
AUCIFP	AUC Infinity Pred	5061.3212	h*ug/L
AUCPEO	AUC %Extrapolation Obs	0.3698	%
AUCPEP	AUC %Extrapolation Pred	0.3689	%
AUMCLST	AUMC to Last Nonzero Conc	22643.3948	h2*ug/L
AUMCIFO	AUMC Infinity Obs	23174.4190	h2*ug/L
AUMCIFP	AUMC Infinity Pred	23173.1686	h2*ug/L
AUMCPEO	AUMC %Extrapolation Obs	2.2914	%
AUMCPEP	AUMC % Extrapolation Pred	2.2862	%
VZFO	Vz Obs by F	0.0000	L
VZFP	Vz Pred by F	0.0000	L
CLFO	Total CL Obs by F	0.0000	L/h
CLFP	Total CL Pred by F	0.0000	L/h
MRTEVLST	MRT Extravasc to Last Nonzero Conc	4.4904	h
MRTEVIFO	MRT Extravasc Infinity Obs	4.5787	h
MRTEVIFP	MRT Extravasc Infinity Pred	4.5785	h

SUBJ 14, GRP RT, PRD 2, TRT T





SUBJ 15, GRP TR, PRD 1, TRT T

NONCOMPARTMENTAL ANALYSIS REPORT
Package version 0.3.9 (2018-05-10 KST)
R version 3.5.0 (2018-04-23)

Date and Time: 2018-06-19 09:49:35 Asia/Seoul

Calculation Setting

Drug Administration: Extravascular
Observation count excluding trailing zero: 13
Dose at time 0: 0 mg
AUC Calculation Method: Linear-up Linear-down
Weighting for lambda z: Uniform (Ordinary Least Square, OLS)
Lambda z selection criterion: Heighest adjusted R-squared value with precision=1e-4

Fitting, AUC, AUMC Result

	Time		Conc.	Pred.	Residual	AUC	AUMC
	0.0000		0.0000			0.0000	0.0000
	0.2400		351.2900			42.1548	10.1172
	0.5400		715.5500			202.1808	80.7231
	0.7800		711.5300			373.4304	193.6900
	0.9700		719.4000			509.3688	312.7071
	1.9700		634.9800			1186.5588	1287.0714
	2.9700		532.8300			1770.4638	2703.7792
	4.0200		505.1600			2315.4085	4600.7346
	5.9600		321.6800			3117.4433	8430.2519
	8.0100		253.6700			3707.1771	12478.0891
	9.9900	*	126.6100	130.9085	-4.299e+00	4083.6543	15741.8524
	11.9500	*	96.4700	92.7974	+3.673e+00	4302.2727	18111.1498
	24.0100	*	11.1100	11.1704	-6.045e-02	4950.9801	26671.1425

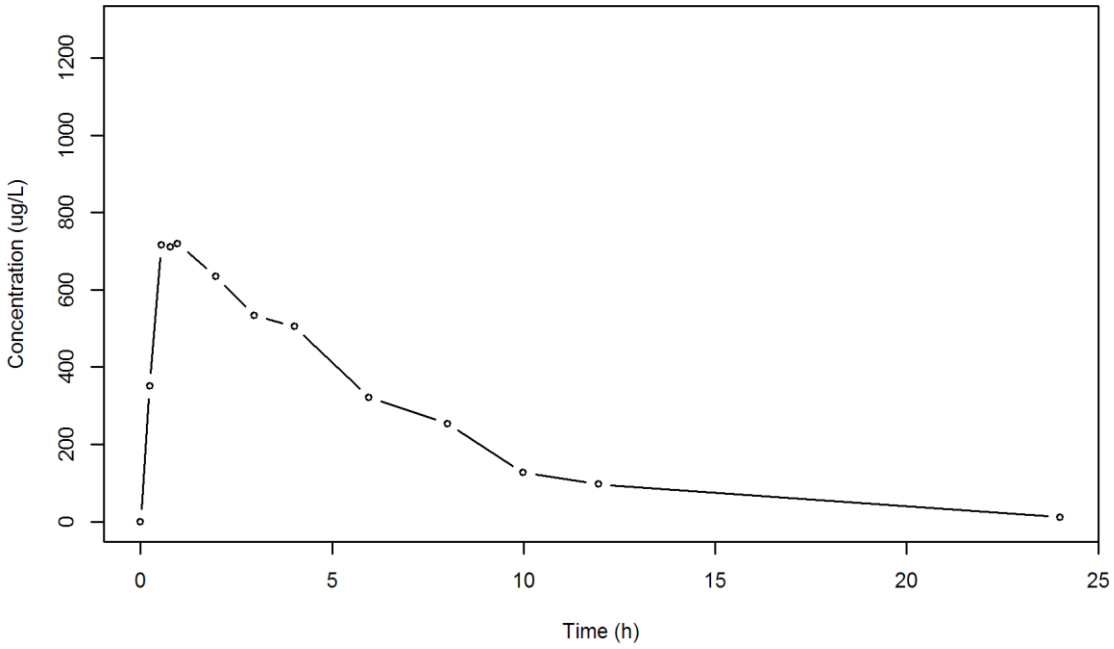
*: Used for the calculation of Lambda z.

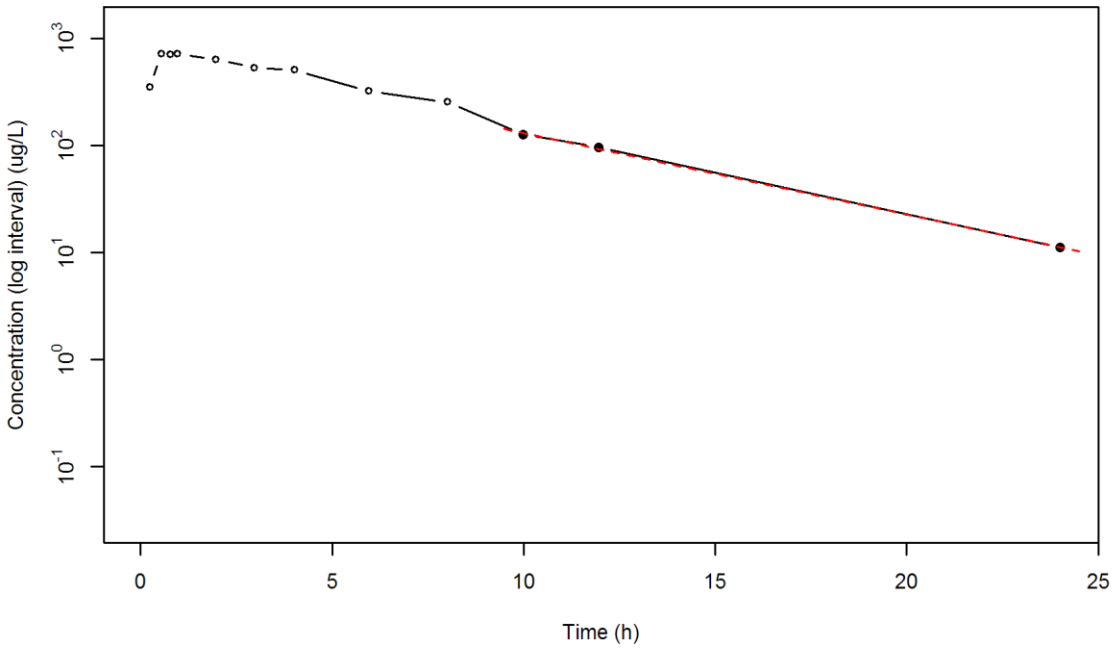
Calculated Values

CMAX	Max Conc	719.4000	ug/L
TMAX	Time of CMAX	0.9700	h
TLAG	Time Until First Nonzero Conc	0.0000	h
CLST	Last Nonzero Conc	11.1100	ug/L
CLSTP	Last Nonzero Conc Pred	11.1704	ug/L
TLST	Time of Last Nonzero Conc	24.0100	h
LAMZHL	Half-Life Lambda z	3.9484	h
LAMZ	Lambda z	0.1756	/h
LAMZLL	Lambda z Lower Limit	9.9900	h
LAMZUL	Lambda z Upper Limit	24.0100	h
LAMZNPT	Number of Points for Lambda z	3	
CORRXY	Correlation Between TimeX and Log ConcY	-0.9996	
R2	R Squared	0.9993	
R2ADJ	R Squared Adjusted	0.9985	
AUCLST	AUC to Last Nonzero Conc	4950.9801	h*ug/L

AUCALL	AUC All	4950.9801	h*ug/L
AUCIFO	AUC Infinity Obs	5014.2664	h*ug/L
AUCIFP	AUC Infinity Pred	5014.6108	h*ug/L
AUCPEO	AUC %Extrapolation Obs	1.2621	%
AUCPEP	AUC %Extrapolation Pred	1.2689	%
AUMCLST	AUMC to Last Nonzero Conc	26671.1425	h2*ug/L
AUMCIFO	AUMC Infinity Obs	28551.1501	h2*ug/L
AUMCIFP	AUMC Infinity Pred	28561.3790	h2*ug/L
AUMCPEO	AUMC %Extrapolation Obs	6.5847	%
AUMCPEP	AUMC % Extrapolation Pred	6.6182	%
VZFO	Vz Obs by F	0.0000	L
VZFP	Vz Pred by F	0.0000	L
CLFO	Total CL Obs by F	0.0000	L/h
CLFP	Total CL Pred by F	0.0000	L/h
MRTEVLST	MRT Extravasc to Last Nonzero Conc	5.3870	h
MRTEVIFO	MRT Extravasc Infinity Obs	5.6940	h
MRTEVIFP	MRT Extravasc Infinity Pred	5.6956	h

SUBJ 15, GRP TR, PRD 1, TRT T





SUBJ 15, GRP TR, PRD 2, TRT R

NONCOMPARTMENTAL ANALYSIS REPORT
Package version 0.3.9 (2018-05-10 KST)
R version 3.5.0 (2018-04-23)

Date and Time: 2018-06-19 09:49:35 Asia/Seoul

Calculation Setting

Drug Administration: Extravascular
Observation count excluding trailing zero: 13
Dose at time 0: 0 mg
AUC Calculation Method: Linear-up Linear-down
Weighting for lambda z: Uniform (Ordinary Least Square, OLS)
Lambda z selection criterion: Heighest adjusted R-squared value with precision=1e-4

Fitting, AUC, AUMC Result

	Time	Conc.	Pred.	Residual	AUC	AUMC
	0.0000	0.4300			0.0000	0.0000
	0.2100	220.0400			23.1493	4.8519
	0.4700	359.5900			98.5013	32.8299
	0.7600	564.1300			232.4407	119.5031
	0.9600	660.1700			354.8706	225.7533
	2.0300	633.1800			1046.8129	1252.4818
	3.0300	557.3900			1642.0979	2739.6053
	3.9600 *	542.8000	540.1650	+2.635e+00	2153.6862	4524.4519
	5.9700 *	389.1200	359.0686	+3.005e+01	3090.2658	9019.3489
	7.9700 *	244.1500	239.1722	+4.978e+00	3723.5359	13288.2708
	9.9600 *	167.2800	159.6344	+7.646e+00	4132.9087	16882.1952
	12.0100 *	85.1900	105.2563	-2.007e+01	4391.6905	19638.6669
	23.9600 *	9.8500	9.2867	+5.633e-01	4959.5545	27162.0159

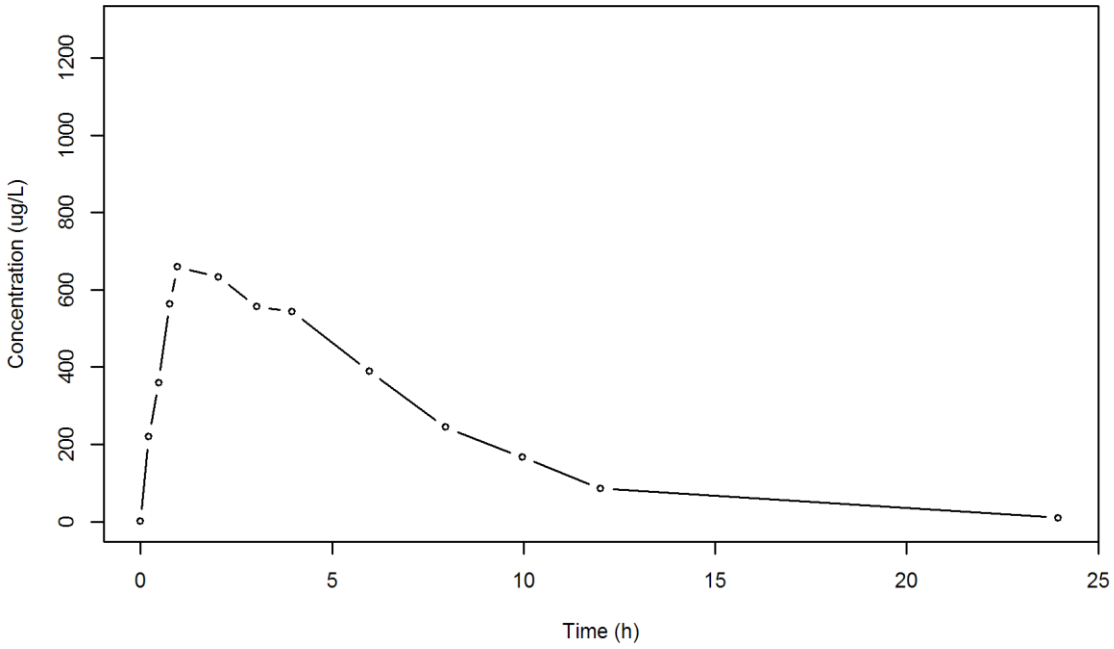
*: Used for the calculation of Lambda z.

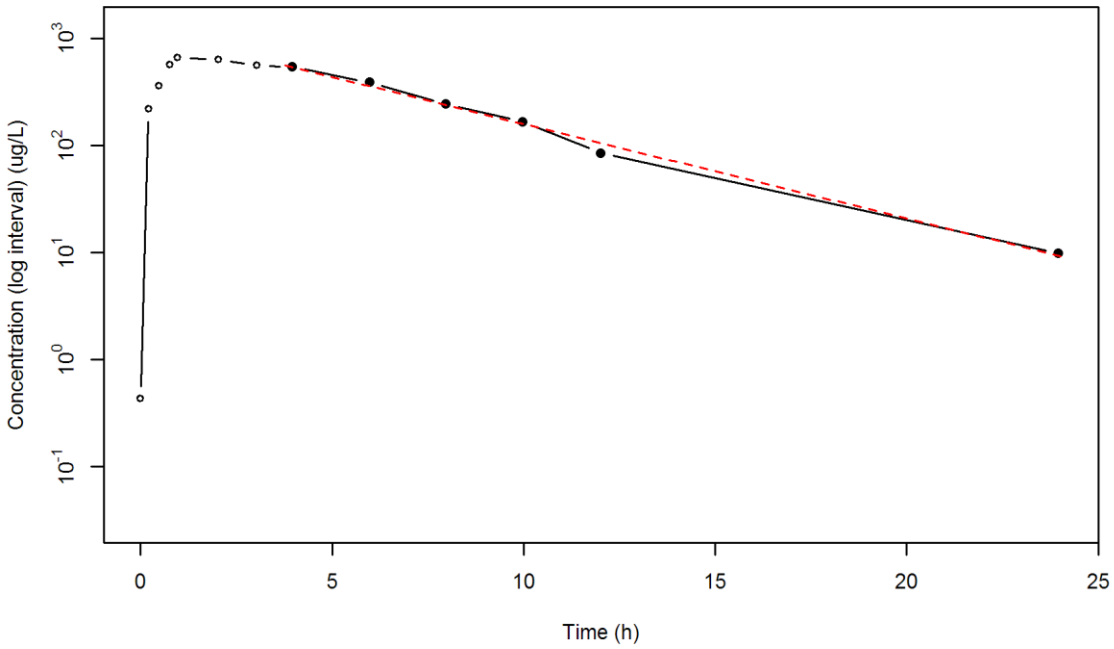
Calculated Values

CMAX	Max Conc	660.1700	ug/L
TMAX	Time of CMAX	0.9600	h
TLAG	Time Until First Nonzero Conc	0.0000	h
CLST	Last Nonzero Conc	9.8500	ug/L
CLSTP	Last Nonzero Conc Pred	9.2867	ug/L
TLST	Time of Last Nonzero Conc	23.9600	h
LAMZHL	Half-Life Lambda z	3.4117	h
LAMZ	Lambda z	0.2032	/h
LAMZLL	Lambda z Lower Limit	3.9600	h
LAMZUL	Lambda z Upper Limit	23.9600	h
LAMZNPT	Number of Points for Lambda z	6	
CORRXY	Correlation Between TimeX and Log ConcY	-0.9973	
R2	R Squared	0.9945	
R2ADJ	R Squared Adjusted	0.9932	
AUCLST	AUC to Last Nonzero Conc	4959.5545	h*ug/L

AUCALL	AUC All	4959.5545	h*ug/L
AUCIFO	AUC Infinity Obs	5008.0373	h*ug/L
AUCIFP	AUC Infinity Pred	5005.2645	h*ug/L
AUCPEO	AUC %Extrapolation Obs	0.9681	%
AUCPEP	AUC %Extrapolation Pred	0.9132	%
AUMCLST	AUMC to Last Nonzero Conc	27162.0159	h2*ug/L
AUMCIFO	AUMC Infinity Obs	28562.3022	h2*ug/L
AUMCIFP	AUMC Infinity Pred	28482.2179	h2*ug/L
AUMCPEO	AUMC %Extrapolation Obs	4.9026	%
AUMCPEP	AUMC % Extrapolation Pred	4.6352	%
VZFO	Vz Obs by F	0.0000	L
VZFP	Vz Pred by F	0.0000	L
CLFO	Total CL Obs by F	0.0000	L/h
CLFP	Total CL Pred by F	0.0000	L/h
MRTEVLST	MRT Extravasc to Last Nonzero Conc	5.4767	h
MRTEVIFO	MRT Extravasc Infinity Obs	5.7033	h
MRTEVIFP	MRT Extravasc Infinity Pred	5.6905	h

SUBJ 15, GRP TR, PRD 2, TRT R





SUBJ 16, GRP RT, PRD 1, TRT R

NONCOMPARTMENTAL ANALYSIS REPORT
Package version 0.3.9 (2018-05-10 KST)
R version 3.5.0 (2018-04-23)

Date and Time: 2018-06-19 09:49:35 Asia/Seoul

Calculation Setting

Drug Administration: Extravascular
Observation count excluding trailing zero: 13
Dose at time 0: 0 mg
AUC Calculation Method: Linear-up Linear-down
Weighting for lambda z: Uniform (Ordinary Least Square, OLS)
Lambda z selection criterion: Heighest adjusted R-squared value with precision=1e-4

Fitting, AUC, AUMC Result

	Time		Conc.	Pred.	Residual	AUC	AUMC
	0.0000		0.1300			0.0000	0.0000
	0.2700		163.4900			22.0887	5.9592
	0.5100		322.2100			80.3727	30.9755
	0.7900		410.3500			182.9311	99.3660
	0.9600		390.5500			251.0076	158.7899
	1.9700		589.7800			746.0743	934.8712
	3.0100		609.6400			1369.7726	2493.2504
	4.0200		530.5500			1945.5686	4497.0032
	6.0000		334.4700			2801.9384	8595.2379
	8.0400		252.4300			3400.5764	12712.3222
	10.0400	*	144.0600	135.9291	+8.131e+00	3797.0664	16188.2218
	11.9700	*	85.2100	91.1513	-5.941e+00	4018.3120	18568.2265
	24.0200	*	7.5900	7.5197	+7.030e-02	4577.4320	25811.9364

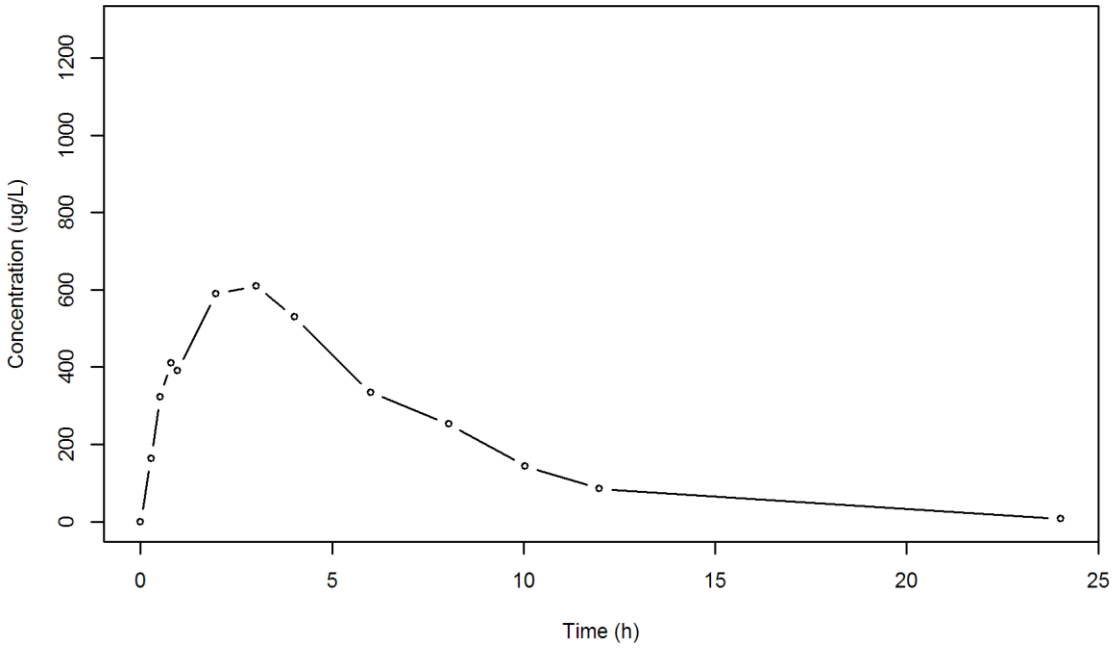
*: Used for the calculation of Lambda z.

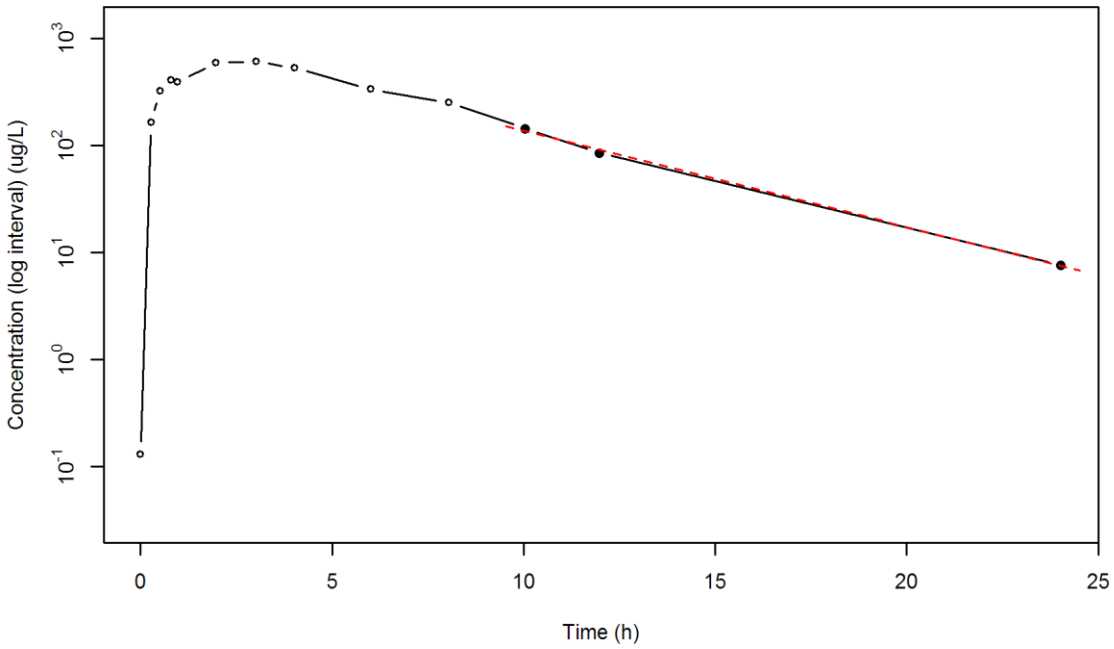
Calculated Values

CMAX	Max Conc	609.6400	ug/L
TMAX	Time of CMAX	3.0100	h
TLAG	Time Until First Nonzero Conc	0.0000	h
CLST	Last Nonzero Conc	7.5900	ug/L
CLSTP	Last Nonzero Conc Pred	7.5197	ug/L
TLST	Time of Last Nonzero Conc	24.0200	h
LAMZHL	Half-Life Lambda z	3.3477	h
LAMZ	Lambda z	0.2071	/h
LAMZLL	Lambda z Lower Limit	10.0400	h
LAMZUL	Lambda z Upper Limit	24.0200	h
LAMZNPT	Number of Points for Lambda z	3	
CORRXY	Correlation Between TimeX and Log ConcY	-0.9992	
R2	R Squared	0.9984	
R2ADJ	R Squared Adjusted	0.9968	
AUCLST	AUC to Last Nonzero Conc	4577.4320	h*ug/L

AUCALL	AUC All	4577.4320	h*ug/L
AUCIFO	AUC Infinity Obs	4614.0892	h*ug/L
AUCIFP	AUC Infinity Pred	4613.7496	h*ug/L
AUCPEO	AUC %Extrapolation Obs	0.7945	%
AUCPEP	AUC %Extrapolation Pred	0.7872	%
AUMCLST	AUMC to Last Nonzero Conc	25811.9364	h2*ug/L
AUMCIFO	AUMC Infinity Obs	26869.4847	h2*ug/L
AUMCIFP	AUMC Infinity Pred	26859.6898	h2*ug/L
AUMCPEO	AUMC %Extrapolation Obs	3.9359	%
AUMCPEP	AUMC % Extrapolation Pred	3.9008	%
VZFO	Vz Obs by F	0.0000	L
VZFP	Vz Pred by F	0.0000	L
CLFO	Total CL Obs by F	0.0000	L/h
CLFP	Total CL Pred by F	0.0000	L/h
MRTEVLST	MRT Extravasc to Last Nonzero Conc	5.6390	h
MRTEVIFO	MRT Extravasc Infinity Obs	5.8234	h
MRTEVIFP	MRT Extravasc Infinity Pred	5.8217	h

SUBJ 16, GRP RT, PRD 1, TRT R





SUBJ 16, GRP RT, PRD 2, TRT T

NONCOMPARTMENTAL ANALYSIS REPORT
Package version 0.3.9 (2018-05-10 KST)
R version 3.5.0 (2018-04-23)

Date and Time: 2018-06-19 09:49:35 Asia/Seoul

Calculation Setting

Drug Administration: Extravascular
Observation count excluding trailing zero: 13
Dose at time 0: 0 mg
AUC Calculation Method: Linear-up Linear-down
Weighting for lambda z: Uniform (Ordinary Least Square, OLS)
Lambda z selection criterion: Heighest adjusted R-squared value with precision=1e-4

Fitting, AUC, AUMC Result

	Time		Conc.	Pred.	Residual	AUC	AUMC
	0.0000		0.2400			0.0000	0.0000
	0.2100		429.5600			45.1290	9.4718
	0.4800		600.2800			184.1574	60.5480
	0.7400		597.0100			339.8051	155.4378
	1.0100		807.6500			529.4342	325.2022
	1.9800		633.0500			1228.1737	1328.7474
	2.9900		539.9400			1820.5337	2777.0165
	3.9600		419.5600			2285.8912	4365.8175
	6.0300		283.6400			3013.7032	7855.6375
	7.9800		166.3300			3452.4239	10817.3585
	9.9800	*	161.1300	156.0053	+5.125e+00	3779.8839	13752.7493
	11.9700	*	106.5900	110.6792	-4.089e+00	4046.2653	16622.2892
	24.0500	*	13.8500	13.7765	+7.355e-02	4773.7229	26340.4970

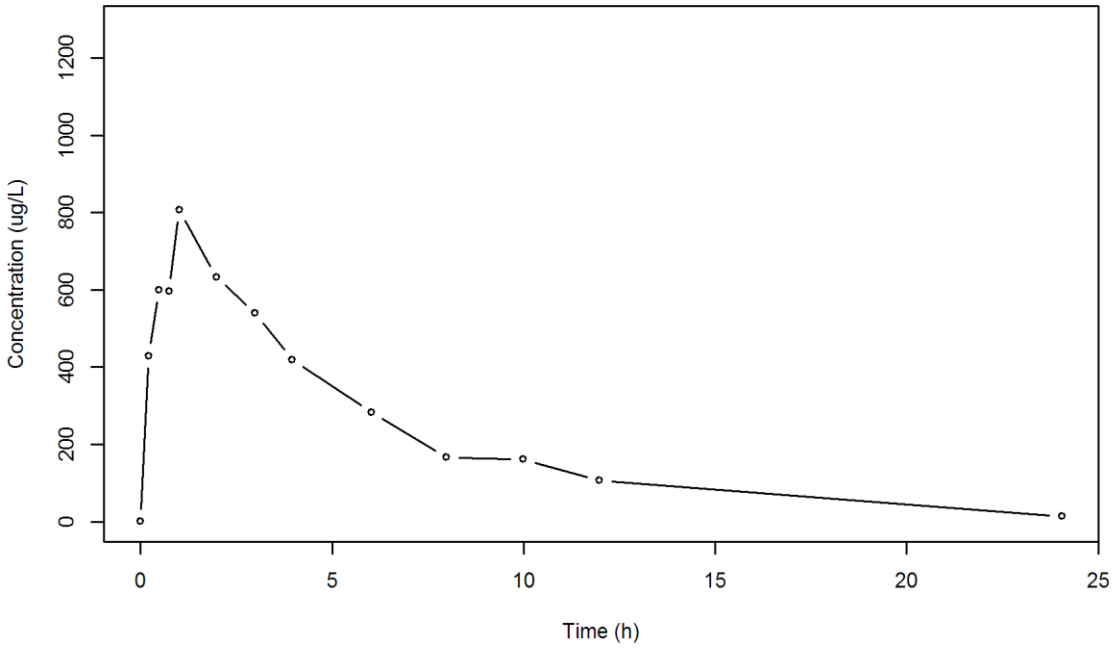
*: Used for the calculation of Lambda z.

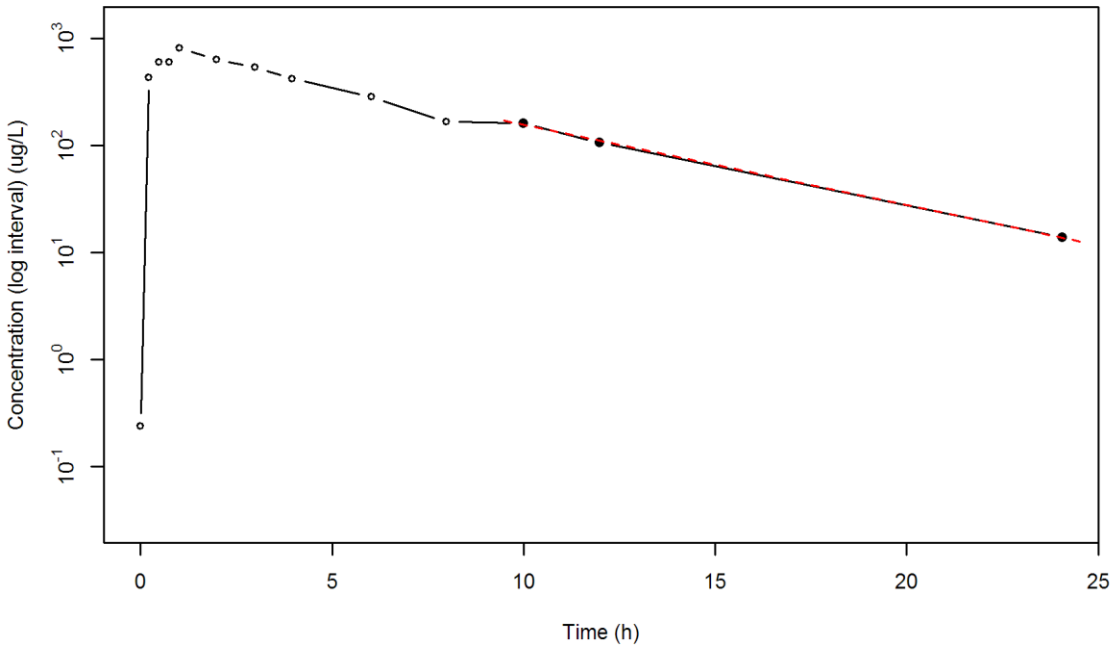
Calculated Values

CMAX	Max Conc	807.6500	ug/L
TMAX	Time of CMAX	1.0100	h
TLAG	Time Until First Nonzero Conc	0.0000	h
CLST	Last Nonzero Conc	13.8500	ug/L
CLSTP	Last Nonzero Conc Pred	13.7765	ug/L
TLST	Time of Last Nonzero Conc	24.0500	h
LAMZHL	Half-Life Lambda z	4.0185	h
LAMZ	Lambda z	0.1725	/h
LAMZLL	Lambda z Lower Limit	9.9800	h
LAMZUL	Lambda z Upper Limit	24.0500	h
LAMZNPT	Number of Points for Lambda z	3	
CORRXY	Correlation Between TimeX and Log ConcY	-0.9996	
R2	R Squared	0.9993	
R2ADJ	R Squared Adjusted	0.9986	
AUCLST	AUC to Last Nonzero Conc	4773.7229	h*ug/L

AUCALL	AUC All	4773.7229	h*ug/L
AUCIFO	AUC Infinity Obs	4854.0176	h*ug/L
AUCIFP	AUC Infinity Pred	4853.5912	h*ug/L
AUCPEO	AUC %Extrapolation Obs	1.6542	%
AUCPEP	AUC %Extrapolation Pred	1.6456	%
AUMCLST	AUMC to Last Nonzero Conc	26340.4970	h2*ug/L
AUMCIFO	AUMC Infinity Obs	28737.0883	h2*ug/L
AUMCIFP	AUMC Infinity Pred	28724.3616	h2*ug/L
AUMCPEO	AUMC %Extrapolation Obs	8.3397	%
AUMCPEP	AUMC % Extrapolation Pred	8.2991	%
VZFO	Vz Obs by F	0.0000	L
VZFP	Vz Pred by F	0.0000	L
CLFO	Total CL Obs by F	0.0000	L/h
CLFP	Total CL Pred by F	0.0000	L/h
MRTEVLST	MRT Extravasc to Last Nonzero Conc	5.5178	h
MRTEVIFO	MRT Extravasc Infinity Obs	5.9203	h
MRTEVIFP	MRT Extravasc Infinity Pred	5.9182	h

SUBJ 16, GRP RT, PRD 2, TRT T





SUBJ 17, GRP RT, PRD 1, TRT R

NONCOMPARTMENTAL ANALYSIS REPORT
Package version 0.3.9 (2018-05-10 KST)
R version 3.5.0 (2018-04-23)

Date and Time: 2018-06-19 09:49:35 Asia/Seoul

Calculation Setting

Drug Administration: Extravascular
Observation count excluding trailing zero: 13
Dose at time 0: 0 mg
AUC Calculation Method: Linear-up Linear-down
Weighting for lambda z: Uniform (Ordinary Least Square, OLS)
Lambda z selection criterion: Heighest adjusted R-squared value with precision=1e-4

Fitting, AUC, AUMC Result

	Time		Conc.	Pred.	Residual	AUC	AUMC
	0.0000		1.7200			0.0000	0.0000
	0.2500		299.6500			37.6713	9.3641
	0.5100		519.0100			144.0971	53.5131
	0.7400		617.2500			274.7669	136.4810
	0.9700		655.9400			421.1838	262.1790
	2.0200		861.5600			1217.8713	1509.9009
	2.9600	*	803.3000	787.4006	+1.590e+01	2000.3555	3445.4169
	4.0300	*	709.6300	642.8060	+6.682e+01	2809.7730	6247.5205
	6.0000	*	482.6400	442.4334	+4.021e+01	3984.1590	11916.8347
	7.9700	*	323.1500	304.5201	+1.863e+01	4777.8622	17306.1100
	10.0300	*	150.0600	206.0499	-5.599e+01	5265.2684	21509.1355
	11.9700	*	136.9900	142.6300	-5.640e+00	5543.7070	24559.6615
	23.9800	*	16.0400	14.6276	+1.412e+00	6462.6521	36716.2405

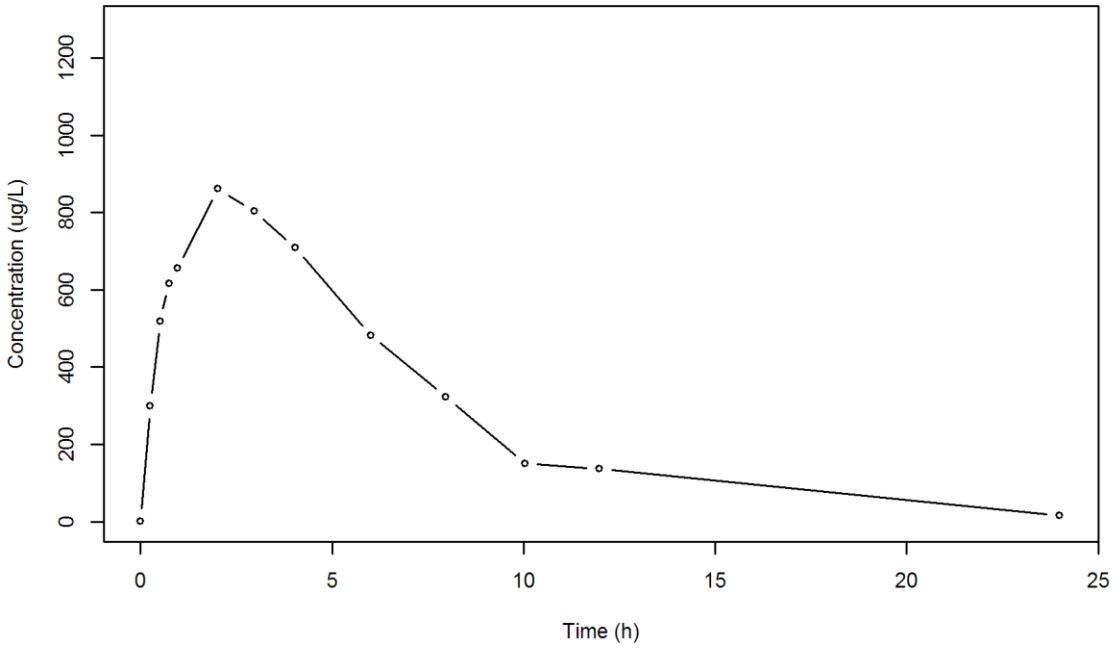
*: Used for the calculation of Lambda z.

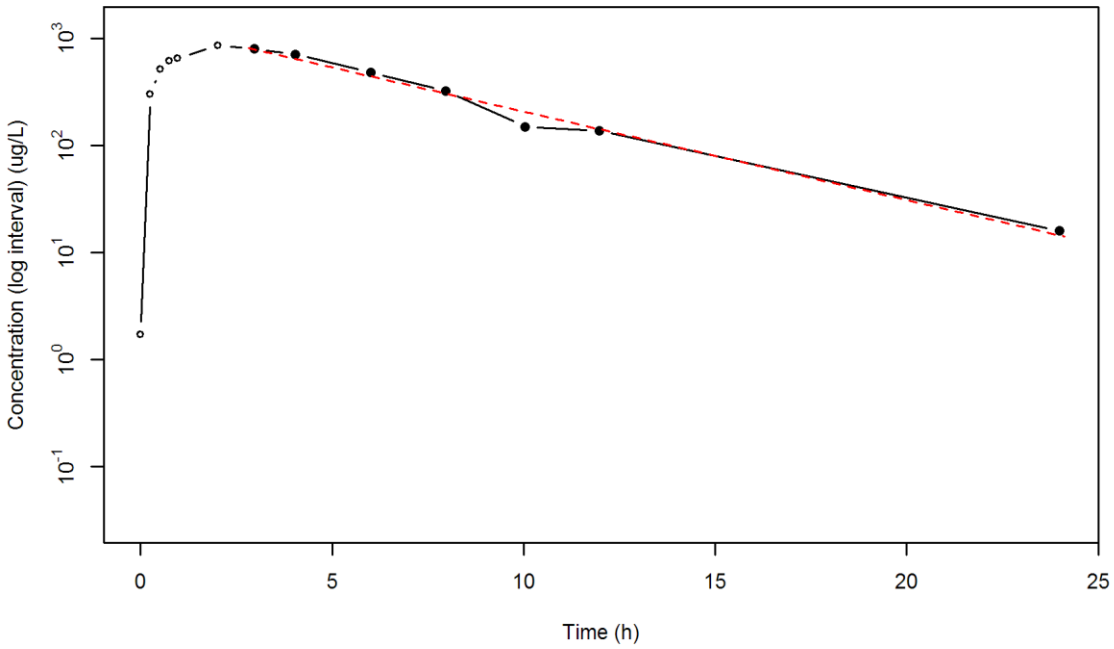
Calculated Values

CMAX	Max Conc	861.5600	ug/L
TMAX	Time of CMAX	2.0200	h
TLAG	Time Until First Nonzero Conc	0.0000	h
CLST	Last Nonzero Conc	16.0400	ug/L
CLSTP	Last Nonzero Conc Pred	14.6276	ug/L
TLST	Time of Last Nonzero Conc	23.9800	h
LAMZHL	Half-Life Lambda z	3.6554	h
LAMZ	Lambda z	0.1896	/h
LAMZLL	Lambda z Lower Limit	2.9600	h
LAMZUL	Lambda z Upper Limit	23.9800	h
LAMZNPT	Number of Points for Lambda z	7	
CORRXY	Correlation Between TimeX and Log ConcY	-0.9940	
R2	R Squared	0.9880	
R2ADJ	R Squared Adjusted	0.9857	
AUCLST	AUC to Last Nonzero Conc	6462.6521	h*ug/L

AUCALL	AUC All	6462.6521	h*ug/L
AUCIFO	AUC Infinity Obs	6547.2420	h*ug/L
AUCIFP	AUC Infinity Pred	6539.7933	h*ug/L
AUCPEO	AUC %Extrapolation Obs	1.2920	%
AUCPEP	AUC %Extrapolation Pred	1.1796	%
AUMCLST	AUMC to Last Nonzero Conc	36716.2405	h2*ug/L
AUMCIFO	AUMC Infinity Obs	39190.8065	h2*ug/L
AUMCIFP	AUMC Infinity Pred	38972.9056	h2*ug/L
AUMCPEO	AUMC %Extrapolation Obs	6.3141	%
AUMCPEP	AUMC % Extrapolation Pred	5.7903	%
VZFO	Vz Obs by F	0.0000	L
VZFP	Vz Pred by F	0.0000	L
CLFO	Total CL Obs by F	0.0000	L/h
CLFP	Total CL Pred by F	0.0000	L/h
MRTEVLST	MRT Extravasc to Last Nonzero Conc	5.6813	h
MRTEVIFO	MRT Extravasc Infinity Obs	5.9858	h
MRTEVIFP	MRT Extravasc Infinity Pred	5.9593	h

SUBJ 17, GRP RT, PRD 1, TRT R





SUBJ 17, GRP RT, PRD 2, TRT T

NONCOMPARTMENTAL ANALYSIS REPORT
Package version 0.3.9 (2018-05-10 KST)
R version 3.5.0 (2018-04-23)

Date and Time: 2018-06-19 09:49:35 Asia/Seoul

Calculation Setting

Drug Administration: Extravascular
Observation count excluding trailing zero: 13
Dose at time 0: 0 mg
AUC Calculation Method: Linear-up Linear-down
Weighting for lambda z: Uniform (Ordinary Least Square, OLS)
Lambda z selection criterion: Heighest adjusted R-squared value with precision=1e-4

Fitting, AUC, AUMC Result

	Time		Conc.	Pred.	Residual	AUC	AUMC
	0.0000		0.0000			0.0000	0.0000
	0.2500		710.2000			88.7750	22.1938
	0.5200		922.4200			309.1787	110.9169
	0.7300		1187.7500			530.7466	252.3221
	1.0200		924.9200			837.0837	514.8411
	1.9600		865.2100			1678.4448	1755.2792
	2.9900		641.6700			2454.4880	3616.6977
	4.0400		406.8500			3004.9610	5486.8880
	5.9800		309.5000			3699.8205	8876.5375
	7.9900		204.3800			4216.2699	12377.7627
	9.9900	*	123.4600	122.3877	+1.072e+00	4544.1099	15244.1243
	12.0300	*	77.5000	78.2956	-7.956e-01	4749.0891	17453.1285
	23.9700	*	5.7400	5.7315	+8.549e-03	5246.0319	23840.5080

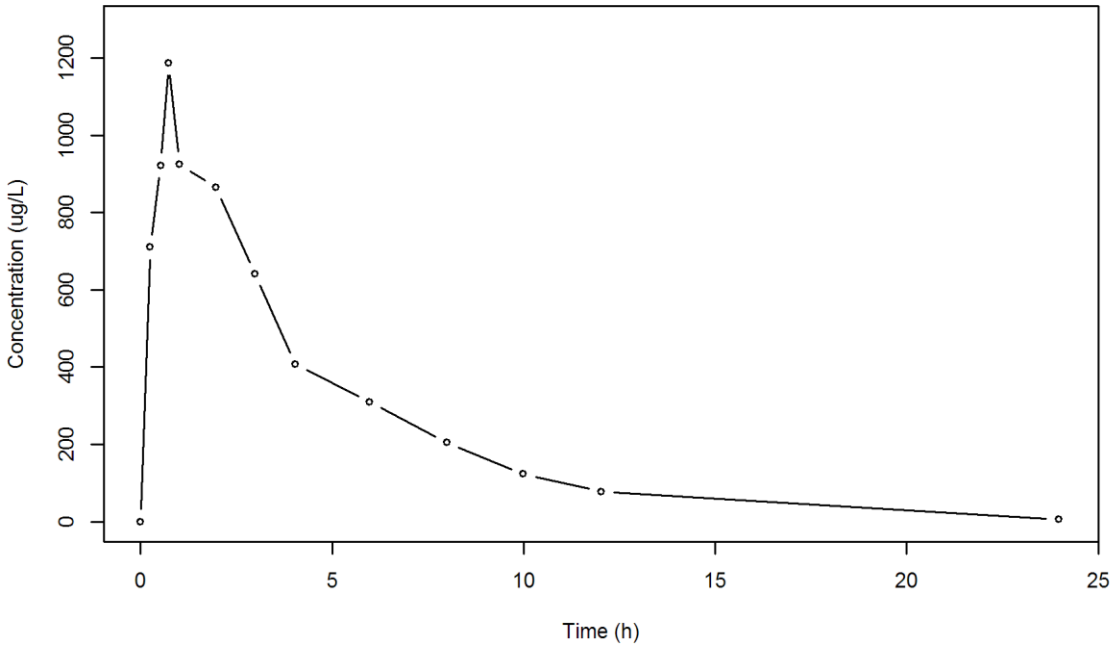
*: Used for the calculation of Lambda z.

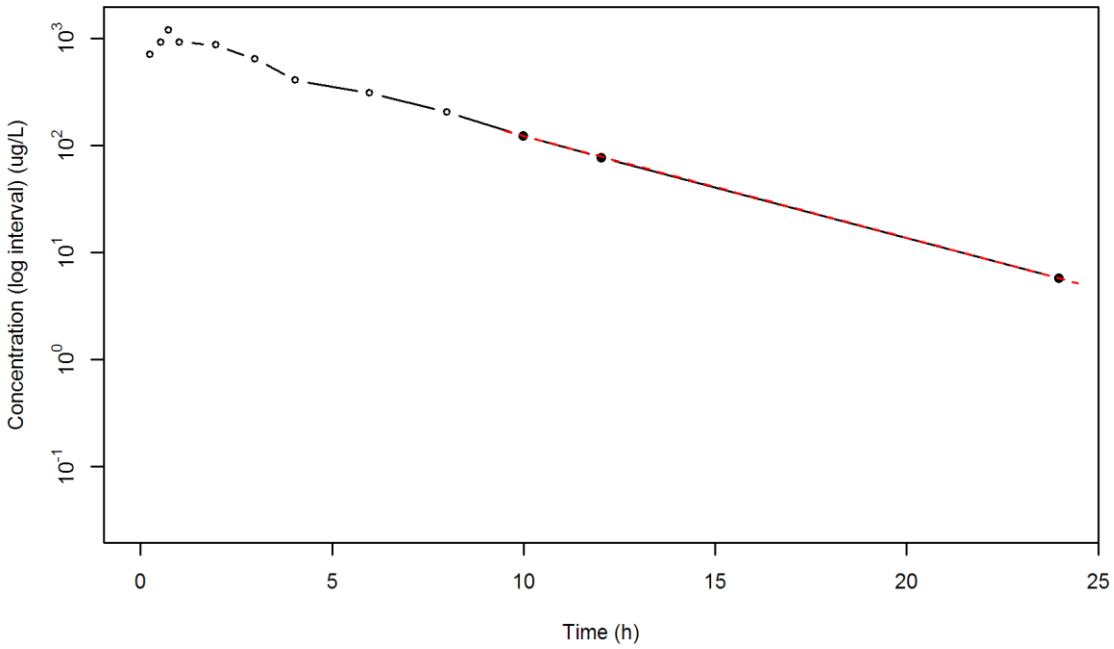
Calculated Values

CMAX	Max Conc	1187.7500	ug/L
TMAX	Time of CMAX	0.7300	h
TLAG	Time Until First Nonzero Conc	0.0000	h
CLST	Last Nonzero Conc	5.7400	ug/L
CLSTP	Last Nonzero Conc Pred	5.7315	ug/L
TLST	Time of Last Nonzero Conc	23.9700	h
LAMZHL	Half-Life Lambda z	3.1655	h
LAMZ	Lambda z	0.2190	/h
LAMZLL	Lambda z Lower Limit	9.9900	h
LAMZUL	Lambda z Upper Limit	23.9700	h
LAMZNPT	Number of Points for Lambda z	3	
CORRXY	Correlation Between TimeX and Log ConcY	-1.0000	
R2	R Squared	1.0000	
R2ADJ	R Squared Adjusted	0.9999	
AUCLST	AUC to Last Nonzero Conc	5246.0319	h*ug/L

AUCALL	AUC All	5246.0319	h*ug/L
AUCIFO	AUC Infinity Obs	5272.2453	h*ug/L
AUCIFP	AUC Infinity Pred	5272.2063	h*ug/L
AUCPEO	AUC %Extrapolation Obs	0.4972	%
AUCPEP	AUC %Extrapolation Pred	0.4965	%
AUMCLST	AUMC to Last Nonzero Conc	23840.5080	h2*ug/L
AUMCIFO	AUMC Infinity Obs	24588.5552	h2*ug/L
AUMCIFP	AUMC Infinity Pred	24587.4412	h2*ug/L
AUMCPEO	AUMC %Extrapolation Obs	3.0423	%
AUMCPEP	AUMC % Extrapolation Pred	3.0379	%
VZFO	Vz Obs by F	0.0000	L
VZFP	Vz Pred by F	0.0000	L
CLFO	Total CL Obs by F	0.0000	L/h
CLFP	Total CL Pred by F	0.0000	L/h
MRTEVLST	MRT Extravasc to Last Nonzero Conc	4.5445	h
MRTEVIFO	MRT Extravasc Infinity Obs	4.6638	h
MRTEVIFP	MRT Extravasc Infinity Pred	4.6636	h

SUBJ 17, GRP RT, PRD 2, TRT T





SUBJ 18, GRP TR, PRD 1, TRT T

NONCOMPARTMENTAL ANALYSIS REPORT
Package version 0.3.9 (2018-05-10 KST)
R version 3.5.0 (2018-04-23)

Date and Time: 2018-06-19 09:49:35 Asia/Seoul

Calculation Setting

Drug Administration: Extravascular
Observation count excluding trailing zero: 13
Dose at time 0: 0 mg
AUC Calculation Method: Linear-up Linear-down
Weighting for lambda z: Uniform (Ordinary Least Square, OLS)
Lambda z selection criterion: Heighest adjusted R-squared value with precision=1e-4

Fitting, AUC, AUMC Result

	Time	Conc.	Pred.	Residual	AUC	AUMC
	0.0000	1.8200			0.0000	0.0000
	0.2300	404.3300			46.7073	10.6945
	0.5000	712.2000			197.4388	71.3225
	0.7700	919.8700			417.7683	215.0165
	0.9600	762.8500			577.6267	351.8769
	1.9700	900.7500			1417.7446	1617.8177
*	3.0000	612.4200	587.6293	+2.479e+01	2197.0272	3477.8625
*	4.0000	509.7600	460.0907	+4.967e+01	2758.1172	5416.0125
*	5.9700	257.5500	284.1262	-2.658e+01	3513.9176	8938.9768
*	8.0200	168.9600	172.0593	-3.099e+00	3951.0903	11903.9253
*	9.9600	115.1400	107.0370	+8.103e+00	4226.6673	14330.7233
*	12.0300	55.1200	64.5024	-9.382e+00	4402.8864	16203.9574
*	24.0000	3.6500	3.4486	+2.014e-01	4754.6249	20696.8586

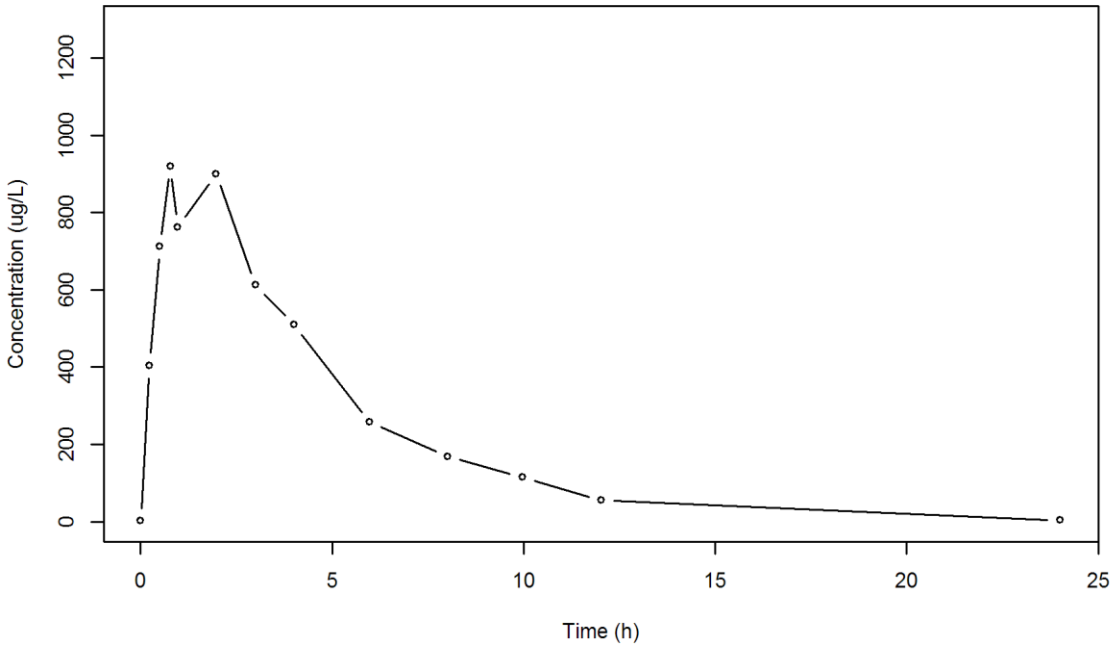
*: Used for the calculation of Lambda z.

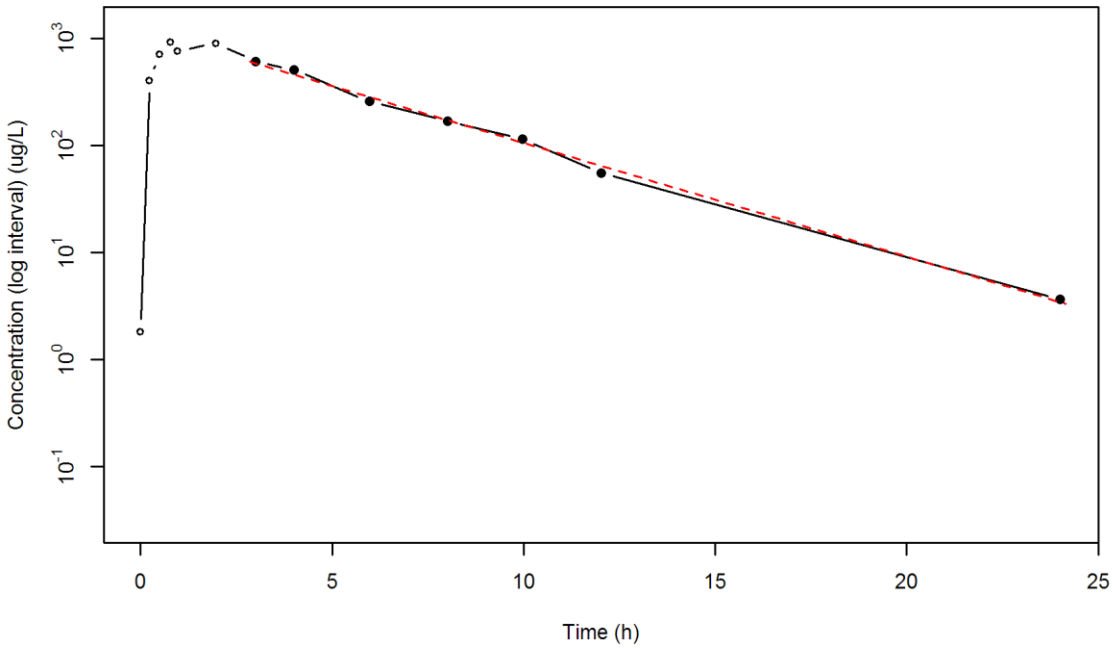
Calculated Values

CMAX	Max Conc	919.8700	ug/L
TMAX	Time of CMAX	0.7700	h
TLAG	Time Until First Nonzero Conc	0.0000	h
CLST	Last Nonzero Conc	3.6500	ug/L
CLSTP	Last Nonzero Conc Pred	3.4486	ug/L
TLST	Time of Last Nonzero Conc	24.0000	h
LAMZHL	Half-Life Lambda z	2.8330	h
LAMZ	Lambda z	0.2447	/h
LAMZLL	Lambda z Lower Limit	3.0000	h
LAMZUL	Lambda z Upper Limit	24.0000	h
LAMZNPT	Number of Points for Lambda z	7	
CORRXY	Correlation Between TimeX and Log ConcY	-0.9985	
R2	R Squared	0.9970	
R2ADJ	R Squared Adjusted	0.9964	
AUCLST	AUC to Last Nonzero Conc	4754.6249	h*ug/L

AUCALL	AUC All	4754.6249	h*ug/L
AUCIFO	AUC Infinity Obs	4769.5427	h*ug/L
AUCIFP	AUC Infinity Pred	4768.7196	h*ug/L
AUCPEO	AUC %Extrapolation Obs	0.3128	%
AUCPEP	AUC %Extrapolation Pred	0.2956	%
AUMCLST	AUMC to Last Nonzero Conc	20696.8586	h2*ug/L
AUMCIFO	AUMC Infinity Obs	21115.8587	h2*ug/L
AUMCIFP	AUMC Infinity Pred	21092.7394	h2*ug/L
AUMCPEO	AUMC %Extrapolation Obs	1.9843	%
AUMCPEP	AUMC % Extrapolation Pred	1.8769	%
VZFO	Vz Obs by F	0.0000	L
VZFP	Vz Pred by F	0.0000	L
CLFO	Total CL Obs by F	0.0000	L/h
CLFP	Total CL Pred by F	0.0000	L/h
MRTEVLST	MRT Extravasc to Last Nonzero Conc	4.3530	h
MRTEVIFO	MRT Extravasc Infinity Obs	4.4272	h
MRTEVIFP	MRT Extravasc Infinity Pred	4.4231	h

SUBJ 18, GRP TR, PRD 1, TRT T





SUBJ 18, GRP TR, PRD 2, TRT R

NONCOMPARTMENTAL ANALYSIS REPORT
Package version 0.3.9 (2018-05-10 KST)
R version 3.5.0 (2018-04-23)

Date and Time: 2018-06-19 09:49:35 Asia/Seoul

Calculation Setting

Drug Administration: Extravascular
Observation count excluding trailing zero: 13
Dose at time 0: 0 mg
AUC Calculation Method: Linear-up Linear-down
Weighting for lambda z: Uniform (Ordinary Least Square, OLS)
Lambda z selection criterion: Heighest adjusted R-squared value with precision=1e-4

Fitting, AUC, AUMC Result

	Time		Conc.	Pred.	Residual	AUC	AUMC
	0.0000		0.0300			0.0000	0.0000
	0.2300		588.7600			67.7108	15.5727
	0.5300		1042.8400			312.4509	118.7907
	0.7000		880.2000			475.9092	218.1425
	0.9900		932.5400			738.7565	441.3490
	2.0300		665.4600			1569.7165	1623.8801
	3.0200		478.7800			2136.1154	3008.2958
	3.9800		252.9000			2487.3218	4185.4755
	5.9700		122.8000			2861.1433	5916.4352
	7.9800	*	48.5900	39.5796	+9.010e+00	3033.3902	7042.9037
	9.9900	*	26.8600	24.5557	+2.304e+00	3109.2175	7702.2637
	12.0000	*	10.4300	15.2346	-4.805e+00	3146.6939	8097.7226
	23.9500	*	0.9700	0.8918	+7.823e-02	3214.8089	8984.3618

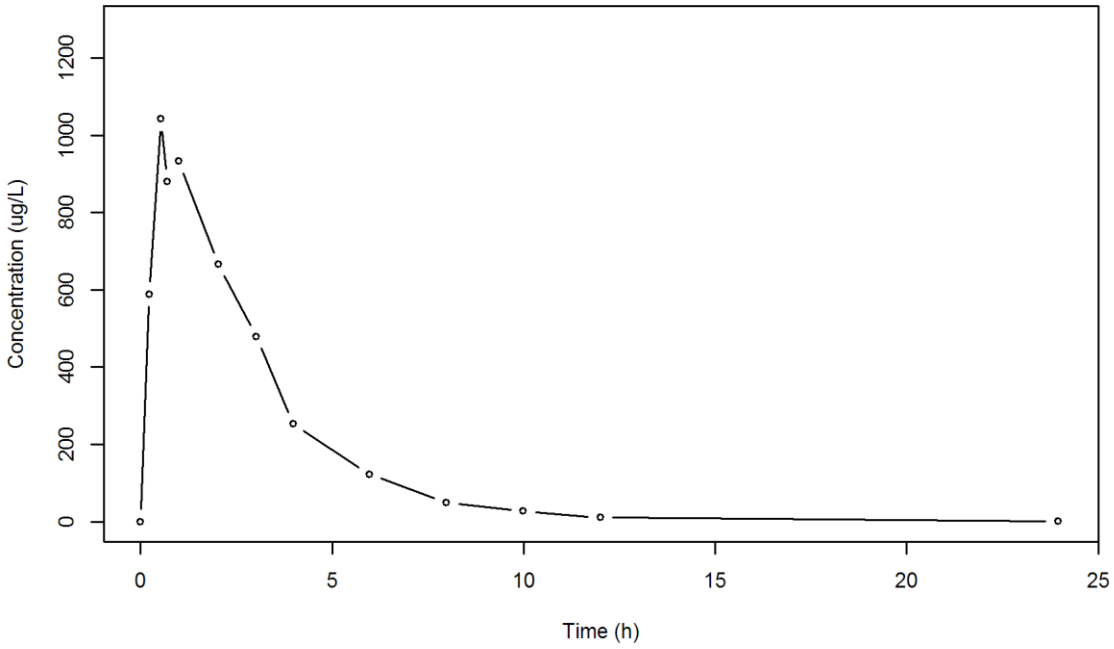
*: Used for the calculation of Lambda z.

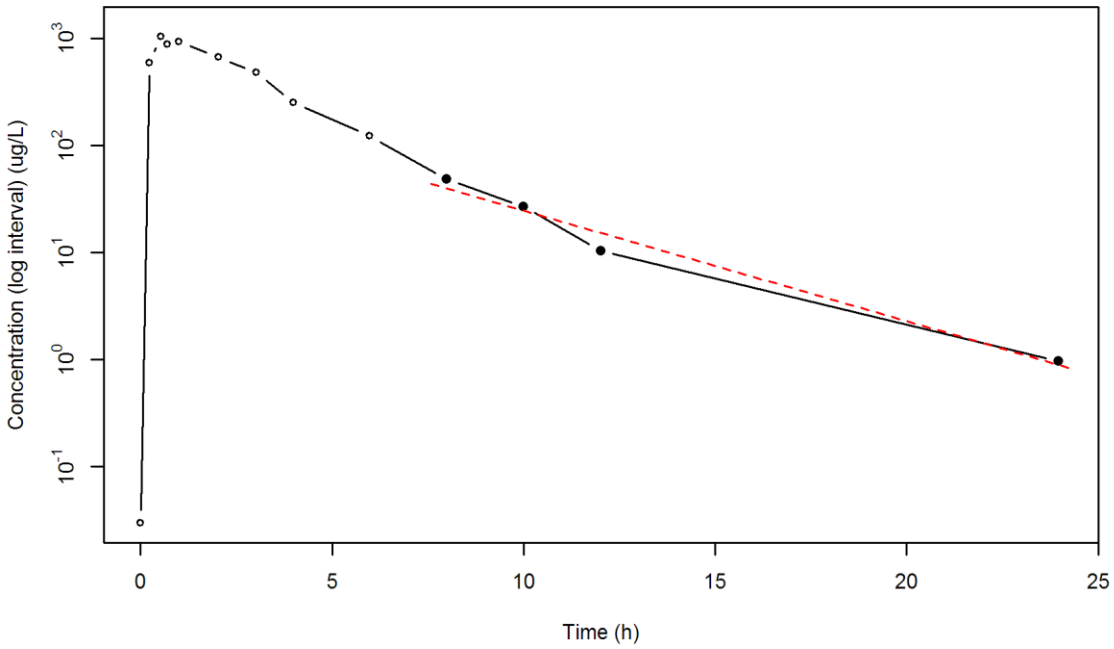
Calculated Values

CMAX	Max Conc	1042.8400	ug/L
TMAX	Time of CMAX	0.5300	h
TLAG	Time Until First Nonzero Conc	0.0000	h
CLST	Last Nonzero Conc	0.9700	ug/L
CLSTP	Last Nonzero Conc Pred	0.8918	ug/L
TLST	Time of Last Nonzero Conc	23.9500	h
LAMZHL	Half-Life Lambda z	2.9185	h
LAMZ	Lambda z	0.2375	/h
LAMZLL	Lambda z Lower Limit	7.9800	h
LAMZUL	Lambda z Upper Limit	23.9500	h
LAMZNPT	Number of Points for Lambda z	4	
CORRXY	Correlation Between TimeX and Log ConcY	-0.9887	
R2	R Squared	0.9774	
R2ADJ	R Squared Adjusted	0.9662	
AUCLST	AUC to Last Nonzero Conc	3214.8089	h*ug/L

AUCALL	AUC All	3214.8089	h*ug/L
AUCIFO	AUC Infinity Obs	3218.8931	h*ug/L
AUCIFP	AUC Infinity Pred	3218.5638	h*ug/L
AUCPEO	AUC %Extrapolation Obs	0.1269	%
AUCPEP	AUC %Extrapolation Pred	0.1167	%
AUMCLST	AUMC to Last Nonzero Conc	8984.3618	h2*ug/L
AUMCIFO	AUMC Infinity Obs	9099.3759	h2*ug/L
AUMCIFP	AUMC Infinity Pred	9090.1005	h2*ug/L
AUMCPEO	AUMC %Extrapolation Obs	1.2640	%
AUMCPEP	AUMC % Extrapolation Pred	1.1632	%
VZFO	Vz Obs by F	0.0000	L
VZFP	Vz Pred by F	0.0000	L
CLFO	Total CL Obs by F	0.0000	L/h
CLFP	Total CL Pred by F	0.0000	L/h
MRTEVLST	MRT Extravasc to Last Nonzero Conc	2.7947	h
MRTEVIFO	MRT Extravasc Infinity Obs	2.8269	h
MRTEVIFP	MRT Extravasc Infinity Pred	2.8243	h

SUBJ 18, GRP TR, PRD 2, TRT R





SUBJ 19, GRP TR, PRD 1, TRT T

NONCOMPARTMENTAL ANALYSIS REPORT
Package version 0.3.9 (2018-05-10 KST)
R version 3.5.0 (2018-04-23)

Date and Time: 2018-06-19 09:49:35 Asia/Seoul

Calculation Setting

Drug Administration: Extravascular
Observation count excluding trailing zero: 13
Dose at time 0: 0 mg
AUC Calculation Method: Linear-up Linear-down
Weighting for lambda z: Uniform (Ordinary Least Square, OLS)
Lambda z selection criterion: Heighest adjusted R-squared value with precision=1e-4

Fitting, AUC, AUMC Result

	Time		Conc.	Pred.	Residual	AUC	AUMC
	0.0000		0.0000			0.0000	0.0000
	0.2300		405.6500			46.6498	10.7294
	0.5100		614.7500			189.5058	67.6845
	0.7200		770.2400			334.9297	158.8345
	1.0400		944.6500			609.3121	404.7559
	1.9700		937.7400			1484.6234	1720.6054
	3.0000		1089.8400			2528.8272	4355.7923
	3.9800	*	802.6400	849.4204	-4.678e+01	3456.1424	7523.1656
	6.0400	*	602.0400	542.3115	+5.973e+01	4902.9628	14558.9193
	7.9600	*	354.2500	356.9594	-2.709e+00	5821.0012	20756.8248
	9.9600	*	263.4000	230.8984	+3.250e+01	6438.6512	26200.1188
	12.0500	*	119.1300	146.4567	-2.733e+01	6838.3950	30441.7535
	24.0400	*	11.1300	10.7515	+3.785e-01	7619.3037	40651.7283

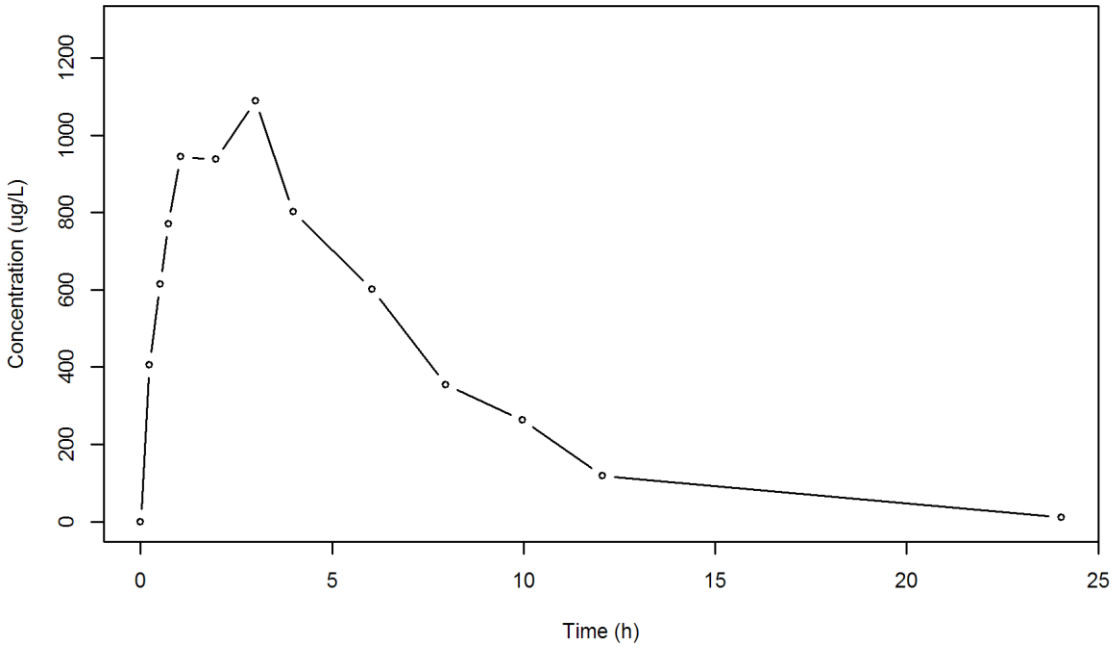
*: Used for the calculation of Lambda z.

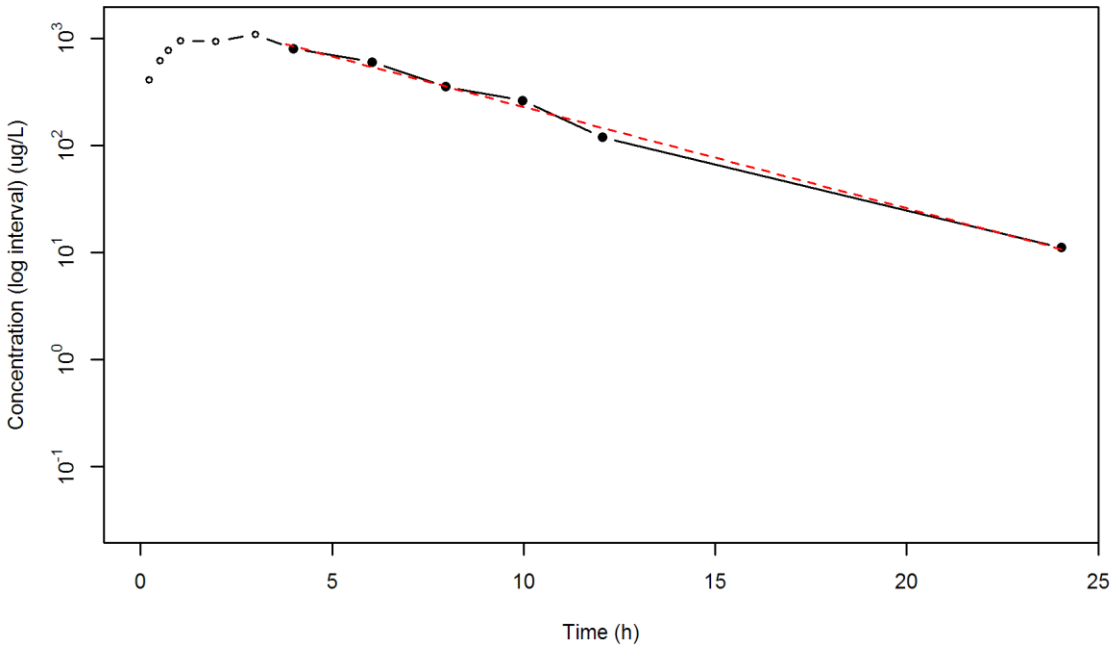
Calculated Values

CMAX	Max Conc	1089.8400	ug/L
TMAX	Time of CMAX	3.0000	h
TLAG	Time Until First Nonzero Conc	0.0000	h
CLST	Last Nonzero Conc	11.1300	ug/L
CLSTP	Last Nonzero Conc Pred	10.7515	ug/L
TLST	Time of Last Nonzero Conc	24.0400	h
LAMZHL	Half-Life Lambda z	3.1822	h
LAMZ	Lambda z	0.2178	/h
LAMZLL	Lambda z Lower Limit	3.9800	h
LAMZUL	Lambda z Upper Limit	24.0400	h
LAMZNPT	Number of Points for Lambda z	6	
CORRXY	Correlation Between TimeX and Log ConcY	-0.9969	
R2	R Squared	0.9938	
R2ADJ	R Squared Adjusted	0.9923	
AUCLST	AUC to Last Nonzero Conc	7619.3037	h*ug/L

AUCALL	AUC All	7619.3037	h*ug/L
AUCIFO	AUC Infinity Obs	7670.4004	h*ug/L
AUCIFP	AUC Infinity Pred	7668.6626	h*ug/L
AUCPEO	AUC %Extrapolation Obs	0.6662	%
AUCPEP	AUC %Extrapolation Pred	0.6436	%
AUMCLST	AUMC to Last Nonzero Conc	40651.7283	h2*ug/L
AUMCIFO	AUMC Infinity Obs	42114.6739	h2*ug/L
AUMCIFP	AUMC Infinity Pred	42064.9188	h2*ug/L
AUMCPEO	AUMC %Extrapolation Obs	3.4737	%
AUMCPEP	AUMC % Extrapolation Pred	3.3595	%
VZFO	Vz Obs by F	0.0000	L
VZFP	Vz Pred by F	0.0000	L
CLFO	Total CL Obs by F	0.0000	L/h
CLFP	Total CL Pred by F	0.0000	L/h
MRTEVLST	MRT Extravasc to Last Nonzero Conc	5.3354	h
MRTEVIFO	MRT Extravasc Infinity Obs	5.4905	h
MRTEVIFP	MRT Extravasc Infinity Pred	5.4853	h

SUBJ 19, GRP TR, PRD 1, TRT T





SUBJ 19, GRP TR, PRD 2, TRT R

NONCOMPARTMENTAL ANALYSIS REPORT
Package version 0.3.9 (2018-05-10 KST)
R version 3.5.0 (2018-04-23)

Date and Time: 2018-06-19 09:49:35 Asia/Seoul

Calculation Setting

Drug Administration: Extravascular
Observation count excluding trailing zero: 13
Dose at time 0: 0 mg
AUC Calculation Method: Linear-up Linear-down
Weighting for lambda z: Uniform (Ordinary Least Square, OLS)
Lambda z selection criterion: Heighest adjusted R-squared value with precision=1e-4

Fitting, AUC, AUMC Result

	Time		Conc.	Pred.	Residual	AUC	AUMC
	0.0000		0.3600			0.0000	0.0000
	0.2700		612.8000			82.7766	22.3366
	0.5000		908.1500			257.6858	93.5826
	0.7900		1089.7200			547.3770	284.2509
	1.0100		981.9000			775.2552	488.0367
	2.0400		1127.9400			1861.8228	2183.7857
	2.9900		702.3100			2731.1916	4274.2154
	3.9700		595.9300			3367.3292	6462.4324
	6.0400		252.9100			4245.8786	10492.1205
	7.9700		152.9000			4637.4852	13142.1933
	10.0100	*	75.7400	78.1705	-2.430e+00	4870.6980	15158.4991
	12.0100	*	37.4600	36.1046	+1.355e+00	4983.8980	16366.5511
	24.0000	*	0.3500	0.3518	-1.849e-03	5210.5690	19114.0272

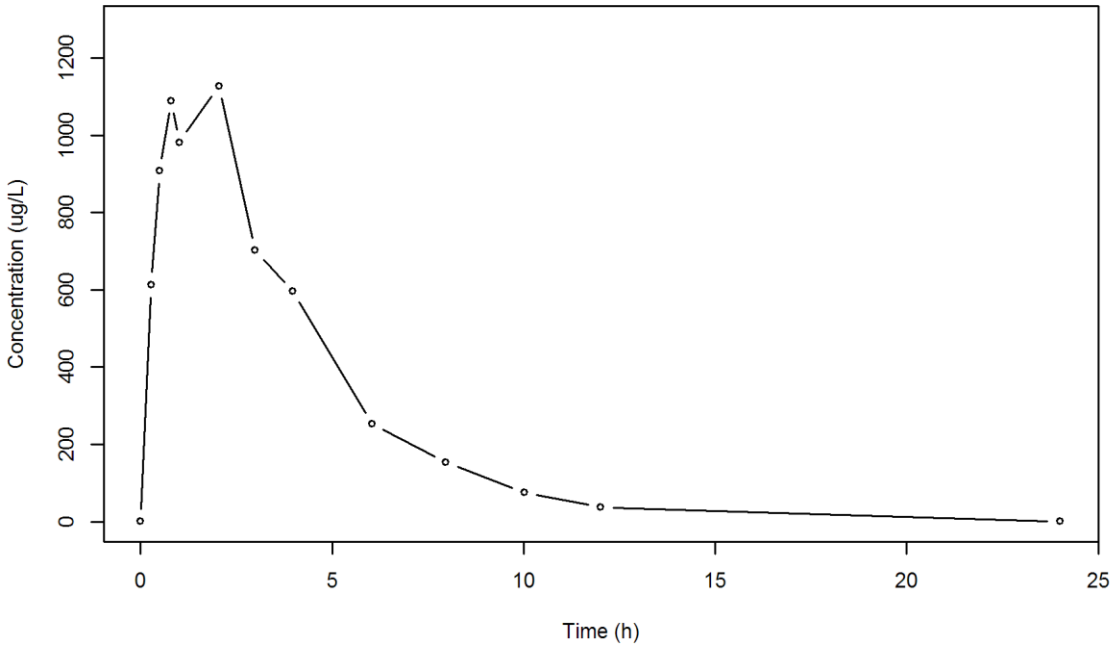
*: Used for the calculation of Lambda z.

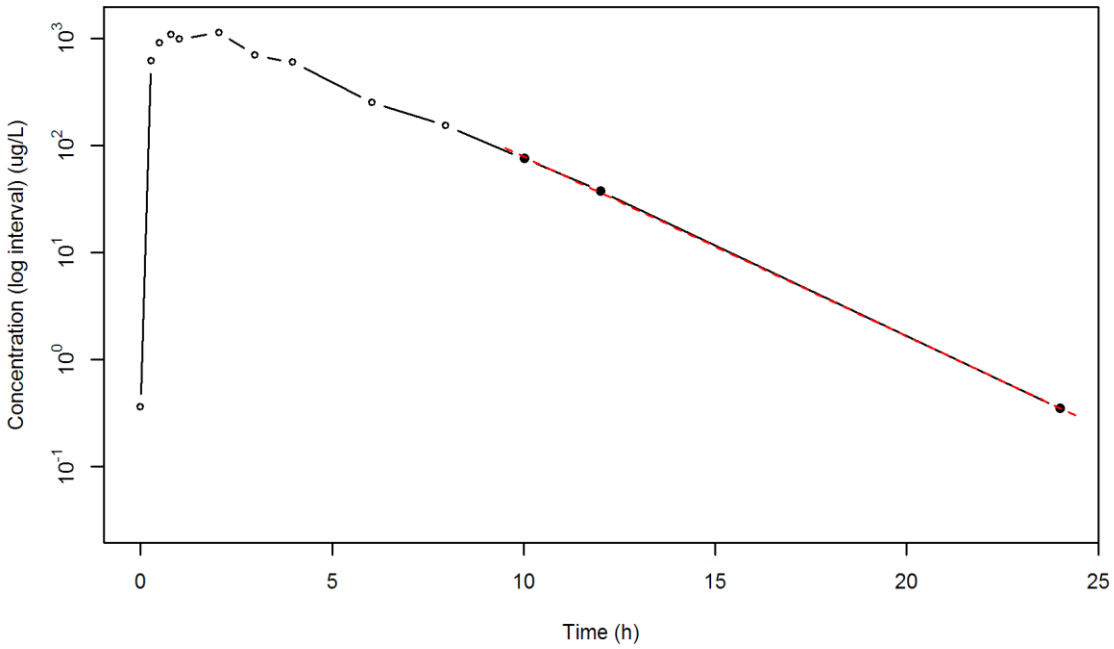
Calculated Values

CMAX	Max Conc	1127.9400	ug/L
TMAX	Time of CMAX	2.0400	h
TLAG	Time Until First Nonzero Conc	0.0000	h
CLST	Last Nonzero Conc	0.3500	ug/L
CLSTP	Last Nonzero Conc Pred	0.3518	ug/L
TLST	Time of Last Nonzero Conc	24.0000	h
LAMZHL	Half-Life Lambda z	1.7946	h
LAMZ	Lambda z	0.3862	/h
LAMZLL	Lambda z Lower Limit	10.0100	h
LAMZUL	Lambda z Upper Limit	24.0000	h
LAMZNPT	Number of Points for Lambda z	3	
CORRXY	Correlation Between TimeX and Log ConcY	-0.9999	
R2	R Squared	0.9999	
R2ADJ	R Squared Adjusted	0.9997	
AUCLST	AUC to Last Nonzero Conc	5210.5690	h*ug/L

AUCALL	AUC All	5210.5690	h*ug/L
AUCIFO	AUC Infinity Obs	5211.4751	h*ug/L
AUCIFP	AUC Infinity Pred	5211.4799	h*ug/L
AUCPEO	AUC %Extrapolation Obs	0.0174	%
AUCPEP	AUC %Extrapolation Pred	0.0175	%
AUMCLST	AUMC to Last Nonzero Conc	19114.0272	h2*ug/L
AUMCIFO	AUMC Infinity Obs	19138.1218	h2*ug/L
AUMCIFP	AUMC Infinity Pred	19138.2490	h2*ug/L
AUMCPEO	AUMC %Extrapolation Obs	0.1259	%
AUMCPEP	AUMC % Extrapolation Pred	0.1266	%
VZFO	Vz Obs by F	0.0000	L
VZFP	Vz Pred by F	0.0000	L
CLFO	Total CL Obs by F	0.0000	L/h
CLFP	Total CL Pred by F	0.0000	L/h
MRTEVLST	MRT Extravasc to Last Nonzero Conc	3.6683	h
MRTEVIFO	MRT Extravasc Infinity Obs	3.6723	h
MRTEVIFP	MRT Extravasc Infinity Pred	3.6723	h

SUBJ 19, GRP TR, PRD 2, TRT R





SUBJ 20, GRP TR, PRD 1, TRT T

NONCOMPARTMENTAL ANALYSIS REPORT
Package version 0.3.9 (2018-05-10 KST)
R version 3.5.0 (2018-04-23)

Date and Time: 2018-06-19 09:49:35 Asia/Seoul

Calculation Setting

Drug Administration: Extravascular
Observation count excluding trailing zero: 13
Dose at time 0: 0 mg
AUC Calculation Method: Linear-up Linear-down
Weighting for lambda z: Uniform (Ordinary Least Square, OLS)
Lambda z selection criterion: Heighest adjusted R-squared value with precision=1e-4

Fitting, AUC, AUMC Result

	Time		Conc.	Pred.	Residual	AUC	AUMC
	0.0000		0.0000			0.0000	0.0000
	0.2700		686.9300			92.7356	25.0386
	0.4900		889.3900			266.1308	93.3785
	0.7100		1191.4600			495.0242	234.3697
	1.0100		913.6000			810.7832	499.6706
	1.9600	*	818.2100	887.6061	-6.940e+01	1633.3930	1699.7237
	3.0500	*	559.4300	653.3531	-9.392e+01	2384.2068	3503.6481
	3.9700	*	550.7500	504.4638	+4.629e+01	2894.8896	5294.3081
	5.9700	*	297.7400	287.5150	+1.022e+01	3743.3796	9258.2934
	8.0300	*	192.3000	161.1261	+3.117e+01	4248.1208	12679.6205
	9.9600	*	74.7400	93.6575	-1.892e+01	4505.8144	14888.0996
	12.0400	*	67.0900	52.1923	+1.490e+01	4653.3176	16502.3606
	23.9700	*	1.6700	1.8245	-1.545e-01	5063.4710	21559.4488

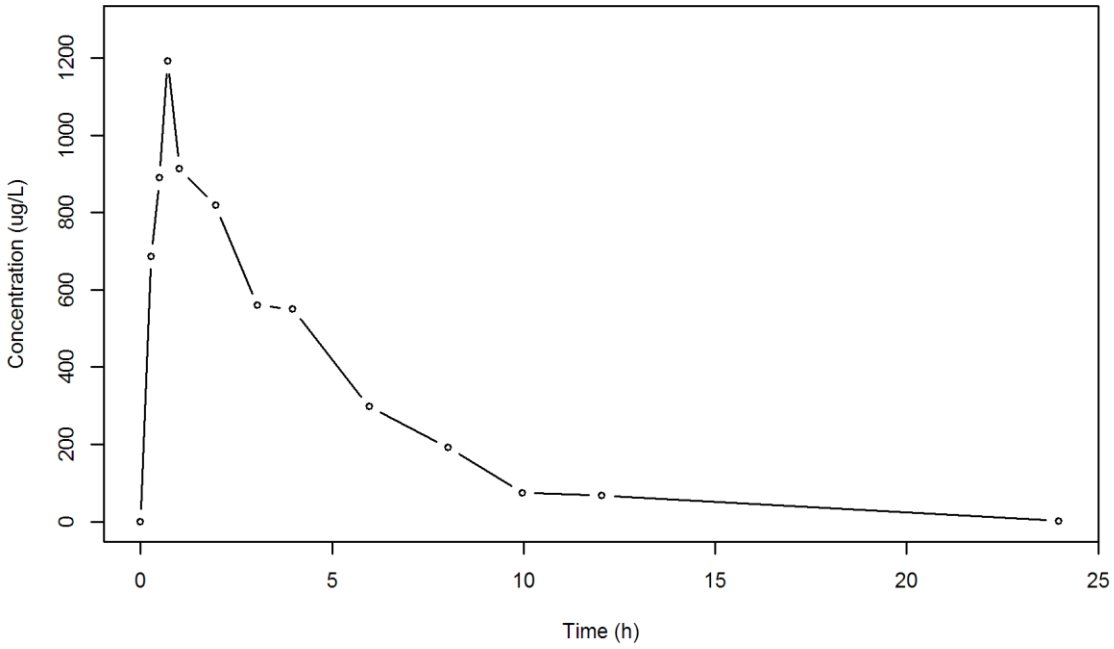
*: Used for the calculation of Lambda z.

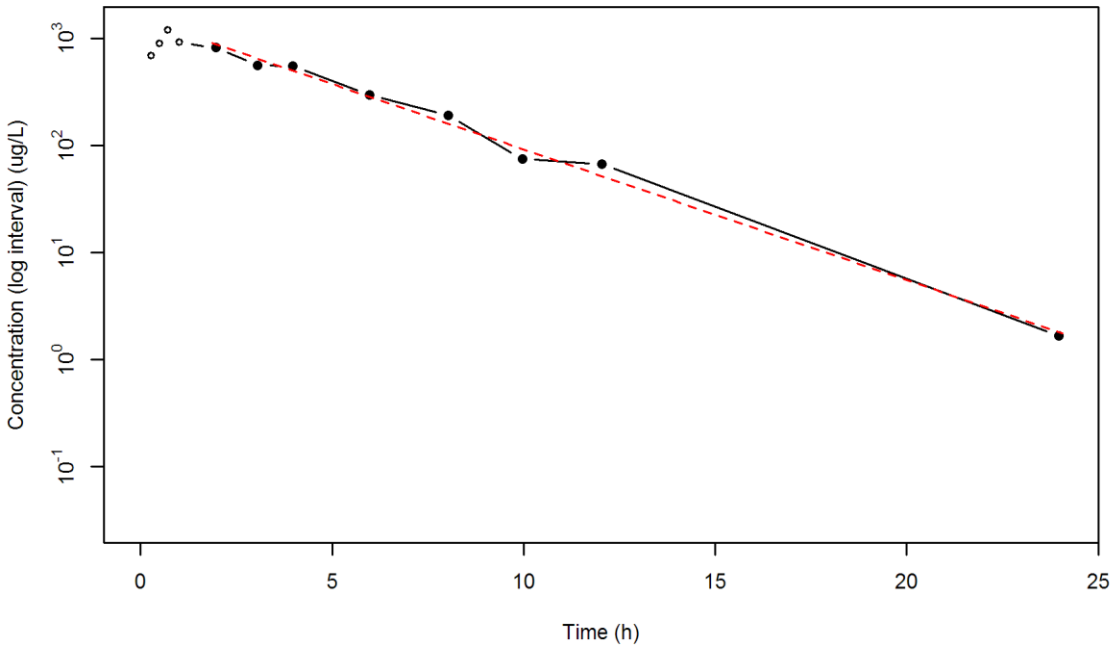
Calculated Values

CMAX	Max Conc	1191.4600	ug/L
TMAX	Time of CMAX	0.7100	h
TLAG	Time Until First Nonzero Conc	0.0000	h
CLST	Last Nonzero Conc	1.6700	ug/L
CLSTP	Last Nonzero Conc Pred	1.8245	ug/L
TLST	Time of Last Nonzero Conc	23.9700	h
LAMZHL	Half-Life Lambda z	2.4657	h
LAMZ	Lambda z	0.2811	/h
LAMZLL	Lambda z Lower Limit	1.9600	h
LAMZUL	Lambda z Upper Limit	23.9700	h
LAMZNPT	Number of Points for Lambda z	8	
CORRXY	Correlation Between TimeX and Log ConcY	-0.9966	
R2	R Squared	0.9931	
R2ADJ	R Squared Adjusted	0.9920	
AUCLST	AUC to Last Nonzero Conc	5063.4710	h*ug/L

AUCALL	AUC All	5063.4710	h*ug/L
AUCIFO	AUC Infinity Obs	5069.4117	h*ug/L
AUCIFP	AUC Infinity Pred	5069.9612	h*ug/L
AUCPEO	AUC %Extrapolation Obs	0.1172	%
AUCPEP	AUC %Extrapolation Pred	0.1280	%
AUMCLST	AUMC to Last Nonzero Conc	21559.4488	h2*ug/L
AUMCIFO	AUMC Infinity Obs	21722.9810	h2*ug/L
AUMCIFP	AUMC Infinity Pred	21738.1067	h2*ug/L
AUMCPEO	AUMC %Extrapolation Obs	0.7528	%
AUMCPEP	AUMC % Extrapolation Pred	0.8219	%
VZFO	Vz Obs by F	0.0000	L
VZFP	Vz Pred by F	0.0000	L
CLFO	Total CL Obs by F	0.0000	L/h
CLFP	Total CL Pred by F	0.0000	L/h
MRTEVLST	MRT Extravasc to Last Nonzero Conc	4.2578	h
MRTEVIFO	MRT Extravasc Infinity Obs	4.2851	h
MRTEVIFP	MRT Extravasc Infinity Pred	4.2876	h

SUBJ 20, GRP TR, PRD 1, TRT T





SUBJ 20, GRP TR, PRD 2, TRT R

NONCOMPARTMENTAL ANALYSIS REPORT
Package version 0.3.9 (2018-05-10 KST)
R version 3.5.0 (2018-04-23)

Date and Time: 2018-06-19 09:49:35 Asia/Seoul

Calculation Setting

Drug Administration: Extravascular
Observation count excluding trailing zero: 13
Dose at time 0: 0 mg
AUC Calculation Method: Linear-up Linear-down
Weighting for lambda z: Uniform (Ordinary Least Square, OLS)
Lambda z selection criterion: Heighest adjusted R-squared value with precision=1e-4

Fitting, AUC, AUMC Result

	Time	Conc.	Pred.	Residual	AUC	AUMC
	0.0000	0.6200			0.0000	0.0000
	0.2500	494.4500			61.8838	15.4516
	0.5300	725.0500			232.6138	86.5560
	0.7400	917.5500			405.0868	198.1987
	1.0000	1069.1900			663.3630	425.4617
	2.0400	877.5200			1675.6522	1912.3137
	3.0300 *	799.6300	799.1149	+5.151e-01	2505.8414	3997.7585
	3.9500 *	624.7100	654.6438	-2.993e+01	3161.0378	6247.3808
	6.0000 *	418.0600	419.7865	-1.726e+00	4229.8771	11347.7444
	7.9800 *	254.2900	273.3010	-1.901e+01	4895.5036	15839.9627
	10.0400 *	208.3200	174.8732	+3.345e+01	5371.9919	20084.3527
	11.9600 *	112.6100	115.3411	-2.731e+00	5680.0847	23385.1672
	23.9800 *	8.2800	8.5208	-2.408e-01	6406.6336	32672.8409

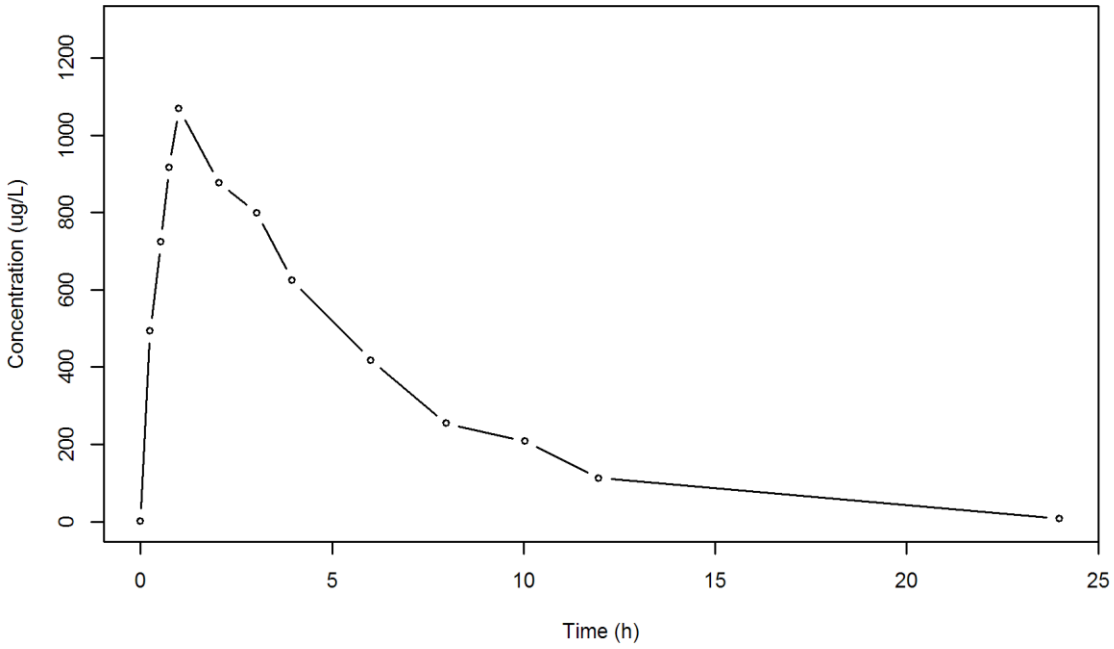
*: Used for the calculation of Lambda z.

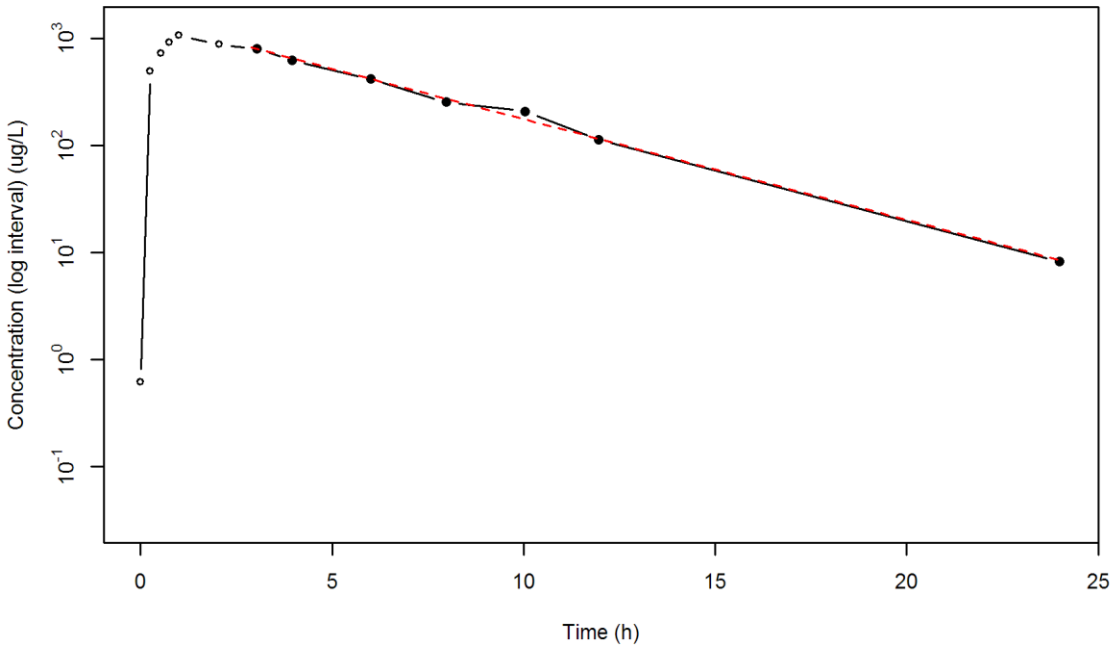
Calculated Values

CMAX	Max Conc	1069.1900	ug/L
TMAX	Time of CMAX	1.0000	h
TLAG	Time Until First Nonzero Conc	0.0000	h
CLST	Last Nonzero Conc	8.2800	ug/L
CLSTP	Last Nonzero Conc Pred	8.5208	ug/L
TLST	Time of Last Nonzero Conc	23.9800	h
LAMZHL	Half-Life Lambda z	3.1979	h
LAMZ	Lambda z	0.2168	/h
LAMZLL	Lambda z Lower Limit	3.0300	h
LAMZUL	Lambda z Upper Limit	23.9800	h
LAMZNPT	Number of Points for Lambda z	7	
CORRXY	Correlation Between TimeX and Log ConcY	-0.9986	
R2	R Squared	0.9972	
R2ADJ	R Squared Adjusted	0.9967	
AUCLST	AUC to Last Nonzero Conc	6406.6336	h*ug/L

AUCALL	AUC All	6406.6336	h*ug/L
AUCIFO	AUC Infinity Obs	6444.8336	h*ug/L
AUCIFP	AUC Infinity Pred	6445.9447	h*ug/L
AUCPEO	AUC %Extrapolation Obs	0.5927	%
AUCPEP	AUC %Extrapolation Pred	0.6099	%
AUMCLST	AUMC to Last Nonzero Conc	32672.8409	h2*ug/L
AUMCIFO	AUMC Infinity Obs	33765.1148	h2*ug/L
AUMCIFP	AUMC Infinity Pred	33796.8852	h2*ug/L
AUMCPEO	AUMC %Extrapolation Obs	3.2349	%
AUMCPEP	AUMC % Extrapolation Pred	3.3259	%
VZFO	Vz Obs by F	0.0000	L
VZFP	Vz Pred by F	0.0000	L
CLFO	Total CL Obs by F	0.0000	L/h
CLFP	Total CL Pred by F	0.0000	L/h
MRTEVLST	MRT Extravasc to Last Nonzero Conc	5.0998	h
MRTEVIFO	MRT Extravasc Infinity Obs	5.2391	h
MRTEVIFP	MRT Extravasc Infinity Pred	5.2431	h

SUBJ 20, GRP TR, PRD 2, TRT R





SUBJ 21, GRP RT, PRD 1, TRT R

NONCOMPARTMENTAL ANALYSIS REPORT
Package version 0.3.9 (2018-05-10 KST)
R version 3.5.0 (2018-04-23)

Date and Time: 2018-06-19 09:49:35 Asia/Seoul

Calculation Setting

Drug Administration: Extravascular
Observation count excluding trailing zero: 13
Dose at time 0: 0 mg
AUC Calculation Method: Linear-up Linear-down
Weighting for lambda z: Uniform (Ordinary Least Square, OLS)
Lambda z selection criterion: Heighest adjusted R-squared value with precision=1e-4

Fitting, AUC, AUMC Result

	Time	Conc.	Pred.	Residual	AUC	AUMC
	0.0000	0.0000			0.0000	0.0000
	0.2600	640.3600			83.2468	21.6442
	0.5300	597.2600			250.3255	86.8548
	0.7500	665.2600			389.2027	176.5590
	0.9700	742.6700			544.0750	310.6858
	2.0400	712.3200			1322.4947	1473.5204
	2.9800	467.4100			1876.9678	2811.1473
	4.0200 *	504.3100	478.4633	+2.585e+01	2382.2621	4589.6555
	6.0200 *	310.4600	347.3735	-3.691e+01	3197.0321	8485.9509
	7.9700 *	270.8500	254.2266	+1.662e+01	3763.8094	12412.9035
	9.9700 *	159.1600	184.5734	-2.541e+01	4193.8194	16158.4032
	12.0100 *	157.7200	133.1484	+2.457e+01	4517.0370	19709.0664
	24.0500 *	18.9000	19.3751	-4.751e-01	5580.2894	33848.6149

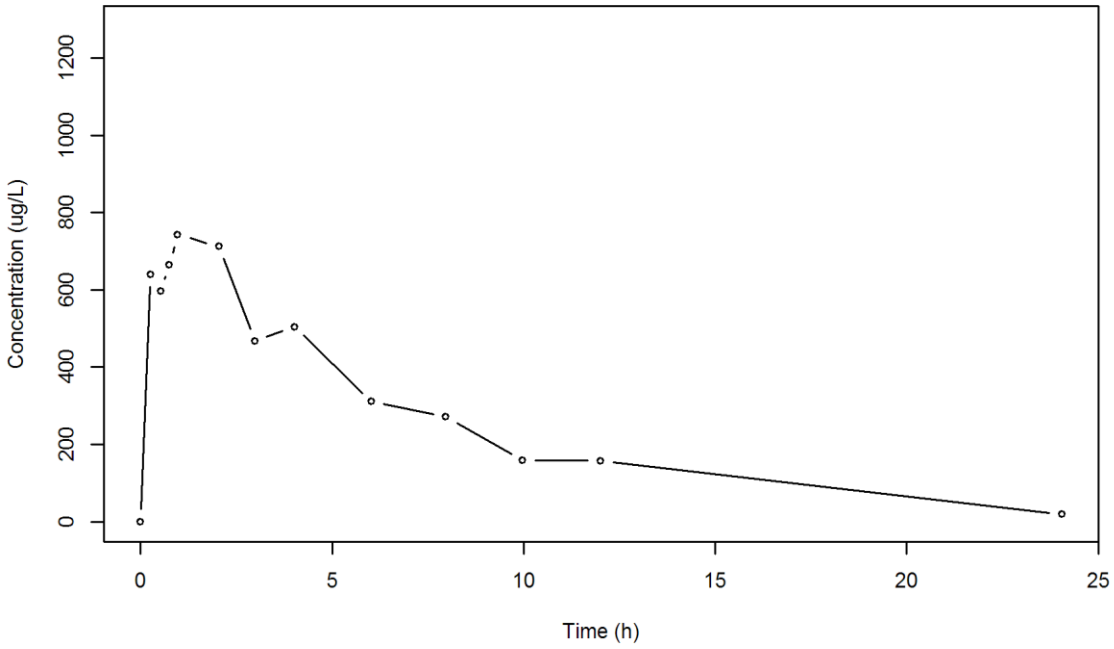
*: Used for the calculation of Lambda z.

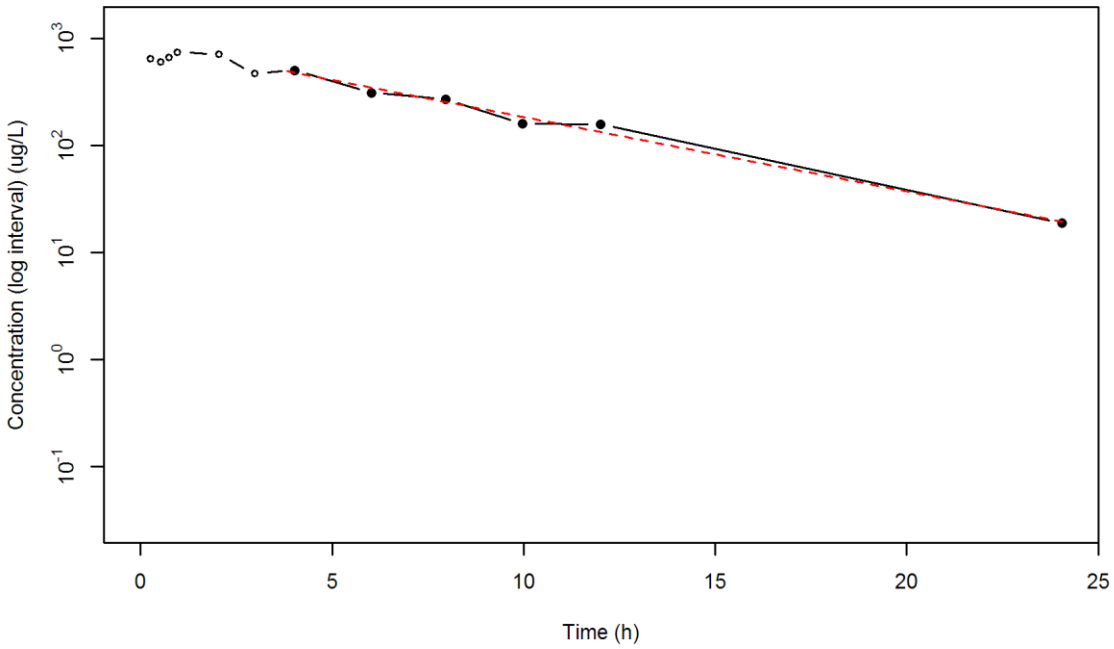
Calculated Values

CMAX	Max Conc	742.6700	ug/L
TMAX	Time of CMAX	0.9700	h
TLAG	Time Until First Nonzero Conc	0.0000	h
CLST	Last Nonzero Conc	18.9000	ug/L
CLSTP	Last Nonzero Conc Pred	19.3751	ug/L
TLST	Time of Last Nonzero Conc	24.0500	h
LAMZHL	Half-Life Lambda z	4.3297	h
LAMZ	Lambda z	0.1601	/h
LAMZLL	Lambda z Lower Limit	4.0200	h
LAMZUL	Lambda z Upper Limit	24.0500	h
LAMZNPT	Number of Points for Lambda z	6	
CORRXY	Correlation Between TimeX and Log ConcY	-0.9946	
R2	R Squared	0.9893	
R2ADJ	R Squared Adjusted	0.9866	
AUCLST	AUC to Last Nonzero Conc	5580.2894	h*ug/L

AUCALL	AUC All	5580.2894	h*ug/L
AUCIFO	AUC Infinity Obs	5698.3484	h*ug/L
AUCIFP	AUC Infinity Pred	5701.3159	h*ug/L
AUCPEO	AUC %Extrapolation Obs	2.0718	%
AUCPEP	AUC %Extrapolation Pred	2.1228	%
AUMCLST	AUMC to Last Nonzero Conc	33848.6149	h2*ug/L
AUMCIFO	AUMC Infinity Obs	37425.3889	h2*ug/L
AUMCIFP	AUMC Infinity Pred	37515.2935	h2*ug/L
AUMCPEO	AUMC %Extrapolation Obs	9.5571	%
AUMCPEP	AUMC % Extrapolation Pred	9.7738	%
VZFO	Vz Obs by F	0.0000	L
VZFP	Vz Pred by F	0.0000	L
CLFO	Total CL Obs by F	0.0000	L/h
CLFP	Total CL Pred by F	0.0000	L/h
MRTEVLST	MRT Extravasc to Last Nonzero Conc	6.0657	h
MRTEVIFO	MRT Extravasc Infinity Obs	6.5678	h
MRTEVIFP	MRT Extravasc Infinity Pred	6.5801	h

SUBJ 21, GRP RT, PRD 1, TRT R





SUBJ 21, GRP RT, PRD 2, TRT T

NONCOMPARTMENTAL ANALYSIS REPORT
Package version 0.3.9 (2018-05-10 KST)
R version 3.5.0 (2018-04-23)

Date and Time: 2018-06-19 09:49:35 Asia/Seoul

Calculation Setting

Drug Administration: Extravascular
Observation count excluding trailing zero: 13
Dose at time 0: 0 mg
AUC Calculation Method: Linear-up Linear-down
Weighting for lambda z: Uniform (Ordinary Least Square, OLS)
Lambda z selection criterion: Heighest adjusted R-squared value with precision=1e-4

Fitting, AUC, AUMC Result

	Time		Conc.	Pred.	Residual	AUC	AUMC
	0.0000		0.0000			0.0000	0.0000
	0.3000		290.5900			43.5885	13.0765
	0.5500		419.0000			132.2873	52.7799
	0.7100		432.4200			200.4009	95.7774
	0.9900		447.8500			323.6387	200.8319
	2.0100		359.0000			735.1321	794.9623
	3.0200		446.5600			1141.9400	1840.4139
	4.0300		379.6700			1559.1861	3294.1480
	5.9600		347.5500			2260.9534	6769.5647
	8.0400		267.0700			2900.1582	11156.9511
	9.9800	*	266.5000	277.6436	-1.114e+01	3417.7211	15819.6565
	12.0100	*	261.3600	249.1375	+1.222e+01	3953.4990	21705.2392
	24.0100	*	130.4100	131.3168	-9.068e-01	6304.1190	59325.7054

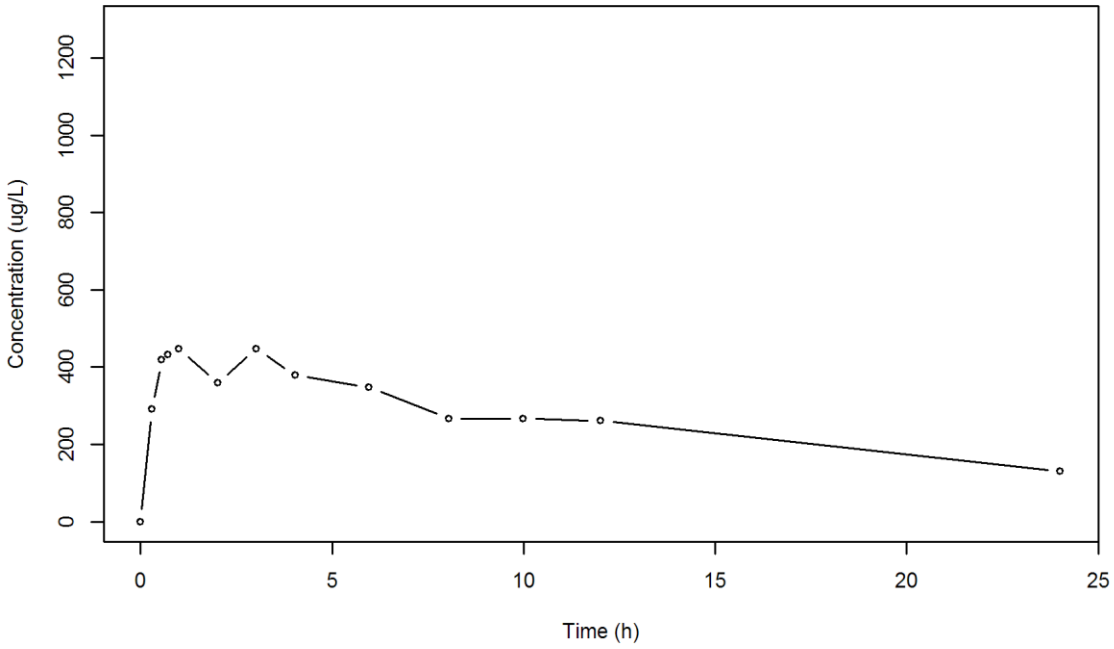
*: Used for the calculation of Lambda z.

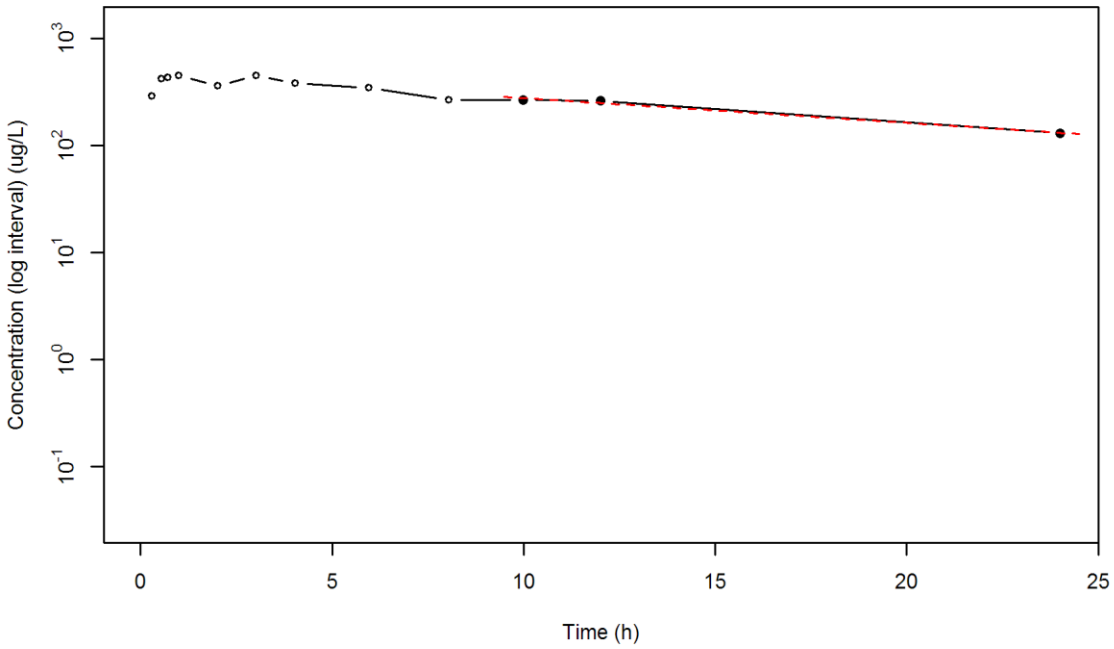
Calculated Values

CMAX	Max Conc	447.8500	ug/L
TMAX	Time of CMAX	0.9900	h
TLAG	Time Until First Nonzero Conc	0.0000	h
CLST	Last Nonzero Conc	130.4100	ug/L
CLSTP	Last Nonzero Conc Pred	131.3168	ug/L
TLST	Time of Last Nonzero Conc	24.0100	h
LAMZHL	Half-Life Lambda z	12.9886	h
LAMZ	Lambda z	0.0534	/h
LAMZLL	Lambda z Lower Limit	9.9800	h
LAMZUL	Lambda z Upper Limit	24.0100	h
LAMZNPT	Number of Points for Lambda z	3	
CORRXY	Correlation Between TimeX and Log ConcY	-0.9939	
R2	R Squared	0.9879	
R2ADJ	R Squared Adjusted	0.9757	
AUCLST	AUC to Last Nonzero Conc	6304.1190	h*ug/L

AUCALL	AUC All	6304.1190	h*ug/L
AUCIFO	AUC Infinity Obs	8747.8094	h*ug/L
AUCIFP	AUC Infinity Pred	8764.8023	h*ug/L
AUCPEO	AUC %Extrapolation Obs	27.9349	%
AUCPEP	AUC %Extrapolation Pred	28.0746	%
AUMCLST	AUMC to Last Nonzero Conc	59325.7054	h2*ug/L
AUMCIFO	AUMC Infinity Obs	163789.8542	h2*ug/L
AUMCIFP	AUMC Infinity Pred	164516.2761	h2*ug/L
AUMCPEO	AUMC %Extrapolation Obs	63.7794	%
AUMCPEP	AUMC % Extrapolation Pred	63.9393	%
VZFO	Vz Obs by F	0.0000	L
VZFP	Vz Pred by F	0.0000	L
CLFO	Total CL Obs by F	0.0000	L/h
CLFP	Total CL Pred by F	0.0000	L/h
MRTEVLST	MRT Extravasc to Last Nonzero Conc	9.4106	h
MRTEVIFO	MRT Extravasc Infinity Obs	18.7235	h
MRTEVIFP	MRT Extravasc Infinity Pred	18.7701	h

SUBJ 21, GRP RT, PRD 2, TRT T





SUBJ 22, GRP RT, PRD 1, TRT R

NONCOMPARTMENTAL ANALYSIS REPORT
Package version 0.3.9 (2018-05-10 KST)
R version 3.5.0 (2018-04-23)

Date and Time: 2018-06-19 09:49:35 Asia/Seoul

Calculation Setting

Drug Administration: Extravascular
Observation count excluding trailing zero: 13
Dose at time 0: 0 mg
AUC Calculation Method: Linear-up Linear-down
Weighting for lambda z: Uniform (Ordinary Least Square, OLS)
Lambda z selection criterion: Heighest adjusted R-squared value with precision=1e-4

Fitting, AUC, AUMC Result

	Time		Conc.	Pred.	Residual	AUC	AUMC
	0.0000		0.0000			0.0000	0.0000
	0.2300		208.3300			23.9580	5.5103
	0.5500		366.1700			115.8780	45.3998
	0.7300		475.2800			191.6085	94.7511
	1.0000		494.7500			322.5625	208.3812
	2.0200		682.7300			923.0773	1164.0522
	2.9700		429.4000			1451.3391	2424.9077
	4.0100		442.0300			1904.4827	4009.7940
	5.9900		310.3600			2649.3488	7605.0747
	8.0400		173.8400			3145.6538	10943.2230
	10.0100	*	139.4400	146.1666	-6.727e+00	3454.2346	13694.7889
	11.9500	*	106.8500	101.1631	+5.687e+00	3693.1359	16287.2613
	24.0100	*	10.1900	10.2675	-7.752e-02	4398.8871	25462.0233

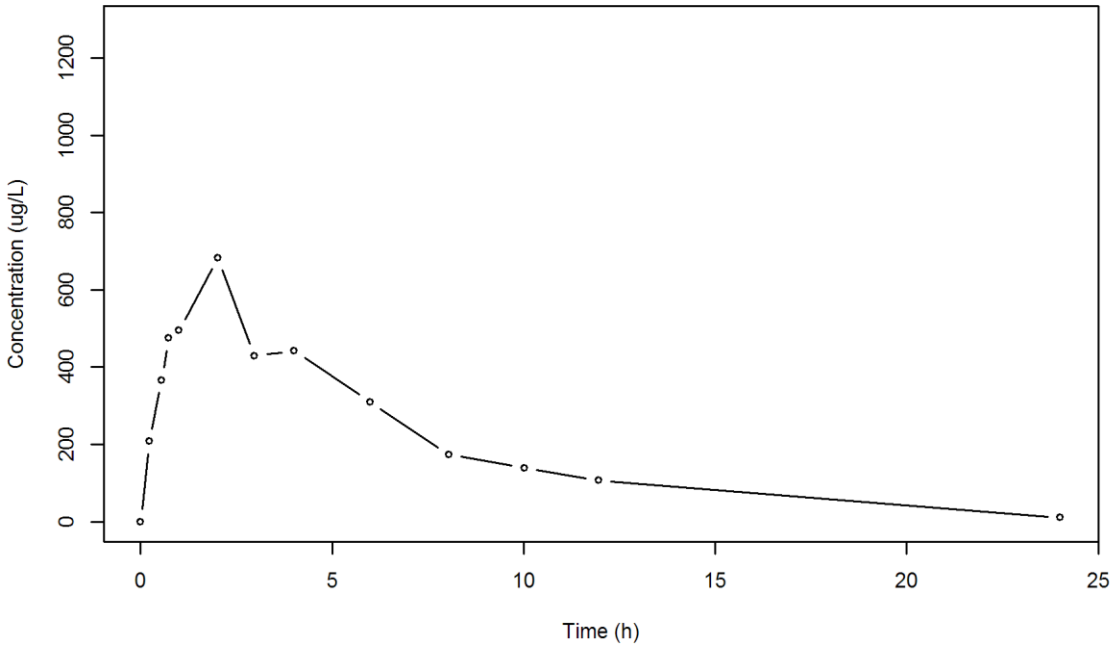
*: Used for the calculation of Lambda z.

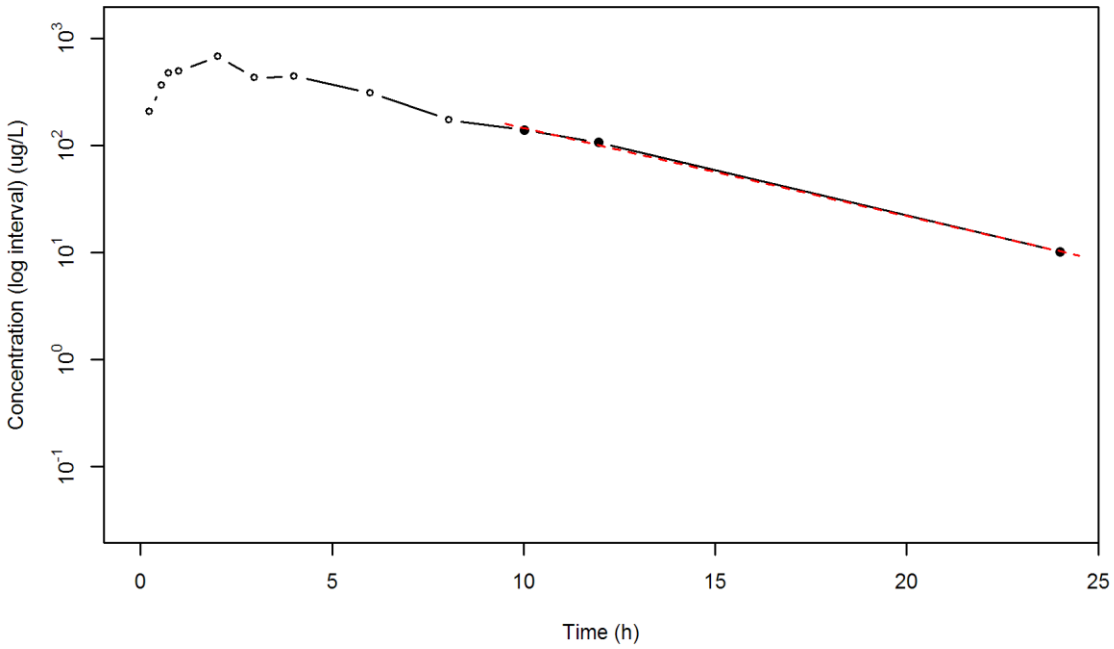
Calculated Values

CMAX	Max Conc	682.7300	ug/L
TMAX	Time of CMAX	2.0200	h
TLAG	Time Until First Nonzero Conc	0.0000	h
CLST	Last Nonzero Conc	10.1900	ug/L
CLSTP	Last Nonzero Conc Pred	10.2675	ug/L
TLST	Time of Last Nonzero Conc	24.0100	h
LAMZHL	Half-Life Lambda z	3.6540	h
LAMZ	Lambda z	0.1897	/h
LAMZLL	Lambda z Lower Limit	10.0100	h
LAMZUL	Lambda z Upper Limit	24.0100	h
LAMZNPT	Number of Points for Lambda z	3	
CORRXY	Correlation Between TimeX and Log ConcY	-0.9994	
R2	R Squared	0.9987	
R2ADJ	R Squared Adjusted	0.9975	
AUCLST	AUC to Last Nonzero Conc	4398.8871	h*ug/L

AUCALL	AUC All	4398.8871	h*ug/L
AUCIFO	AUC Infinity Obs	4452.6042	h*ug/L
AUCIFP	AUC Infinity Pred	4453.0129	h*ug/L
AUCPEO	AUC %Extrapolation Obs	1.2064	%
AUCPEP	AUC %Extrapolation Pred	1.2155	%
AUMCLST	AUMC to Last Nonzero Conc	25462.0233	h2*ug/L
AUMCIFO	AUMC Infinity Obs	27034.9457	h2*ug/L
AUMCIFP	AUMC Infinity Pred	27046.9116	h2*ug/L
AUMCPEO	AUMC %Extrapolation Obs	5.8181	%
AUMCPEP	AUMC % Extrapolation Pred	5.8598	%
VZFO	Vz Obs by F	0.0000	L
VZFP	Vz Pred by F	0.0000	L
CLFO	Total CL Obs by F	0.0000	L/h
CLFP	Total CL Pred by F	0.0000	L/h
MRTEVLST	MRT Extravasc to Last Nonzero Conc	5.7883	h
MRTEVIFO	MRT Extravasc Infinity Obs	6.0717	h
MRTEVIFP	MRT Extravasc Infinity Pred	6.0738	h

SUBJ 22, GRP RT, PRD 1, TRT R





SUBJ 22, GRP RT, PRD 2, TRT T

NONCOMPARTMENTAL ANALYSIS REPORT
Package version 0.3.9 (2018-05-10 KST)
R version 3.5.0 (2018-04-23)

Date and Time: 2018-06-19 09:49:35 Asia/Seoul

Calculation Setting

Drug Administration: Extravascular
Observation count excluding trailing zero: 13
Dose at time 0: 0 mg
AUC Calculation Method: Linear-up Linear-down
Weighting for lambda z: Uniform (Ordinary Least Square, OLS)
Lambda z selection criterion: Heighest adjusted R-squared value with precision=1e-4

Fitting, AUC, AUMC Result

	Time	Conc.	Pred.	Residual	AUC	AUMC
	0.0000	0.0000			0.0000	0.0000
	0.2300	419.2300			48.2115	11.0886
	0.5200	663.8400			205.2566	75.1235
	0.7100	593.5300			324.7068	147.9508
	1.0400	669.0100			533.0259	332.2849
	2.0400	524.7000			1129.8809	1215.3641
	3.0200 *	440.0600	476.2529	-3.619e+01	1602.6133	2391.0550
	3.9500 *	355.2300	380.3502	-2.512e+01	1972.4231	3661.5000
	5.9600 *	239.2700	233.9510	+5.319e+00	2569.8956	6504.8537
	8.0100 *	142.7100	142.5168	+1.932e-01	2961.4251	9138.2390
	9.9600 *	90.1600	88.9422	+1.218e+00	3188.4734	11128.3121
	12.0500 *	65.6400	53.6598	+1.198e+01	3351.2844	12893.2707
	24.0200 *	2.7100	2.9699	-2.599e-01	3760.3591	18016.7671

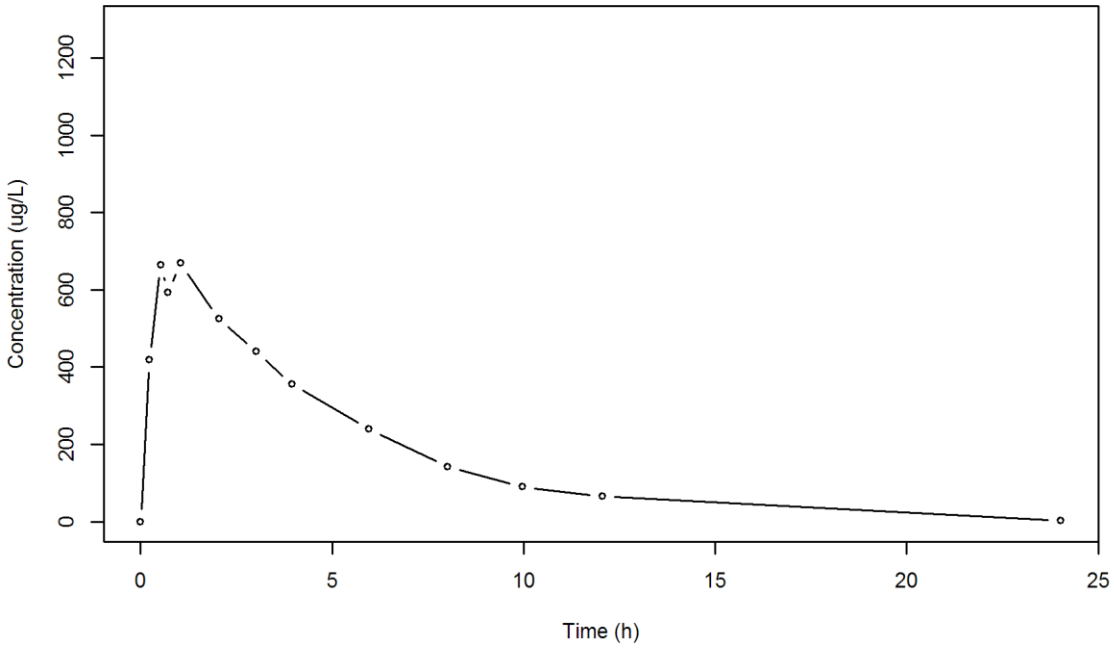
*: Used for the calculation of Lambda z.

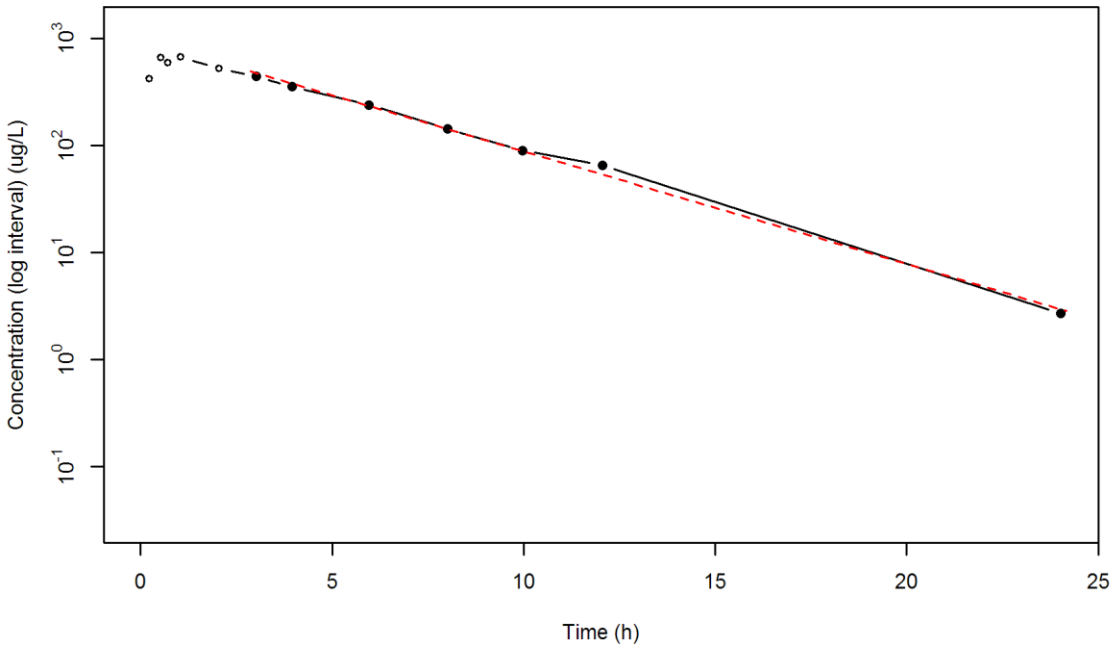
Calculated Values

CMAX	Max Conc	669.0100	ug/L
TMAX	Time of CMAX	1.0400	h
TLAG	Time Until First Nonzero Conc	0.0000	h
CLST	Last Nonzero Conc	2.7100	ug/L
CLSTP	Last Nonzero Conc Pred	2.9699	ug/L
TLST	Time of Last Nonzero Conc	24.0200	h
LAMZHL	Half-Life Lambda z	2.8668	h
LAMZ	Lambda z	0.2418	/h
LAMZLL	Lambda z Lower Limit	3.0200	h
LAMZUL	Lambda z Upper Limit	24.0200	h
LAMZNPT	Number of Points for Lambda z	7	
CORRXY	Correlation Between TimeX and Log ConcY	-0.9983	
R2	R Squared	0.9966	
R2ADJ	R Squared Adjusted	0.9959	
AUCLST	AUC to Last Nonzero Conc	3760.3591	h*ug/L

AUCALL	AUC All	3760.3591	h*ug/L
AUCIFO	AUC Infinity Obs	3771.5676	h*ug/L
AUCIFP	AUC Infinity Pred	3772.6427	h*ug/L
AUCPEO	AUC %Extrapolation Obs	0.2972	%
AUCPEP	AUC %Extrapolation Pred	0.3256	%
AUMCLST	AUMC to Last Nonzero Conc	18016.7671	h2*ug/L
AUMCIFO	AUMC Infinity Obs	18332.3525	h2*ug/L
AUMCIFP	AUMC Infinity Pred	18362.6227	h2*ug/L
AUMCPEO	AUMC %Extrapolation Obs	1.7215	%
AUMCPEP	AUMC % Extrapolation Pred	1.8835	%
VZFO	Vz Obs by F	0.0000	L
VZFP	Vz Pred by F	0.0000	L
CLFO	Total CL Obs by F	0.0000	L/h
CLFP	Total CL Pred by F	0.0000	L/h
MRTEVLST	MRT Extravasc to Last Nonzero Conc	4.7912	h
MRTEVIFO	MRT Extravasc Infinity Obs	4.8607	h
MRTEVIFP	MRT Extravasc Infinity Pred	4.8673	h

SUBJ 22, GRP RT, PRD 2, TRT T





SUBJ 23, GRP TR, PRD 1, TRT T

NONCOMPARTMENTAL ANALYSIS REPORT
Package version 0.3.9 (2018-05-10 KST)
R version 3.5.0 (2018-04-23)

Date and Time: 2018-06-19 09:49:35 Asia/Seoul

Calculation Setting

Drug Administration: Extravascular
Observation count excluding trailing zero: 13
Dose at time 0: 0 mg
AUC Calculation Method: Linear-up Linear-down
Weighting for lambda z: Uniform (Ordinary Least Square, OLS)
Lambda z selection criterion: Heighest adjusted R-squared value with precision=1e-4

Fitting, AUC, AUMC Result

	Time		Conc.	Pred.	Residual	AUC	AUMC
	0.0000		0.0000			0.0000	0.0000
	0.2300		595.3600			68.4664	15.7473
	0.5100		937.0200			282.9996	101.8211
	0.7200		894.0700			475.2641	219.5902
	1.0200		625.3200			703.1726	411.8237
	2.0100		660.3400			1339.5742	1384.5531
	3.0200		553.5100			1952.5685	2898.9893
	3.9900		497.1400			2462.1338	4671.7559
	5.9700		326.8500			3277.8839	8567.2901
	8.0100		251.9500			3868.2599	12616.0924
	9.9700	*	149.4100	143.0590	+6.351e+00	4261.5927	16053.6749
	11.9700	*	94.4500	99.3573	-4.907e+00	4505.4527	18673.8591
	24.0100	*	11.1500	11.0698	+8.016e-02	5141.1647	27091.4926

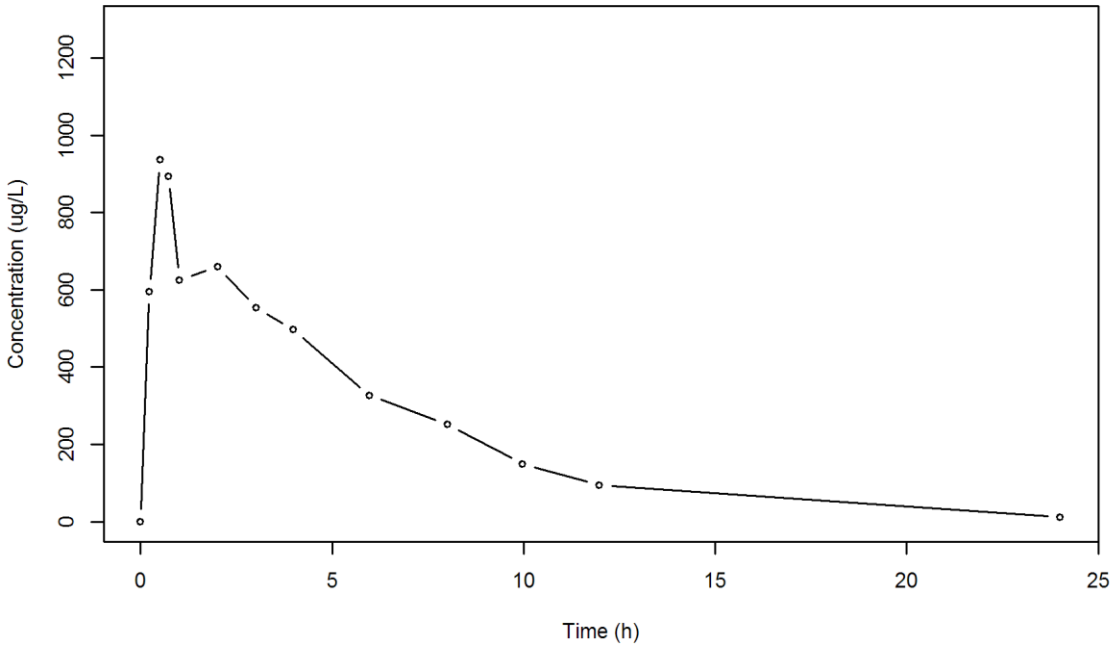
*: Used for the calculation of Lambda z.

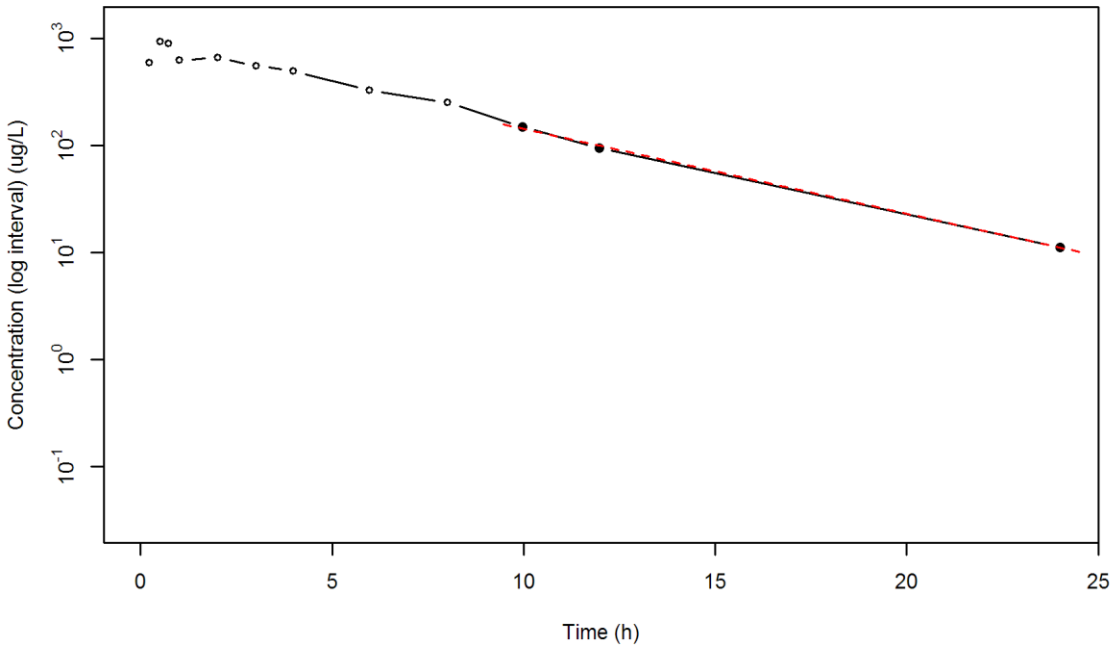
Calculated Values

CMAX	Max Conc	937.0200	ug/L
TMAX	Time of CMAX	0.5100	h
TLAG	Time Until First Nonzero Conc	0.0000	h
CLST	Last Nonzero Conc	11.1500	ug/L
CLSTP	Last Nonzero Conc Pred	11.0698	ug/L
TLST	Time of Last Nonzero Conc	24.0100	h
LAMZHL	Half-Life Lambda z	3.8029	h
LAMZ	Lambda z	0.1823	/h
LAMZLL	Lambda z Lower Limit	9.9700	h
LAMZUL	Lambda z Upper Limit	24.0100	h
LAMZNPT	Number of Points for Lambda z	3	
CORRXY	Correlation Between TimeX and Log ConcY	-0.9994	
R2	R Squared	0.9988	
R2ADJ	R Squared Adjusted	0.9977	
AUCLST	AUC to Last Nonzero Conc	5141.1647	h*ug/L

AUCALL	AUC All	5141.1647	h*ug/L
AUCIFO	AUC Infinity Obs	5202.3385	h*ug/L
AUCIFP	AUC Infinity Pred	5201.8987	h*ug/L
AUCPEO	AUC %Extrapolation Obs	1.1759	%
AUCPEP	AUC %Extrapolation Pred	1.1675	%
AUMCLST	AUMC to Last Nonzero Conc	27091.4926	h2*ug/L
AUMCIFO	AUMC Infinity Obs	28895.9047	h2*ug/L
AUMCIFP	AUMC Infinity Pred	28882.9320	h2*ug/L
AUMCPEO	AUMC %Extrapolation Obs	6.2445	%
AUMCPEP	AUMC % Extrapolation Pred	6.2024	%
VZFO	Vz Obs by F	0.0000	L
VZFP	Vz Pred by F	0.0000	L
CLFO	Total CL Obs by F	0.0000	L/h
CLFP	Total CL Pred by F	0.0000	L/h
MRTEVLST	MRT Extravasc to Last Nonzero Conc	5.2695	h
MRTEVIFO	MRT Extravasc Infinity Obs	5.5544	h
MRTEVIFP	MRT Extravasc Infinity Pred	5.5524	h

SUBJ 23, GRP TR, PRD 1, TRT T





SUBJ 23, GRP TR, PRD 2, TRT R

NONCOMPARTMENTAL ANALYSIS REPORT
Package version 0.3.9 (2018-05-10 KST)
R version 3.5.0 (2018-04-23)

Date and Time: 2018-06-19 09:49:36 Asia/Seoul

Calculation Setting

Drug Administration: Extravascular
Observation count excluding trailing zero: 13
Dose at time 0: 0 mg
AUC Calculation Method: Linear-up Linear-down
Weighting for lambda z: Uniform (Ordinary Least Square, OLS)
Lambda z selection criterion: Heighest adjusted R-squared value with precision=1e-4

Fitting, AUC, AUMC Result

	Time		Conc.	Pred.	Residual	AUC	AUMC
	0.0000		0.0000			0.0000	0.0000
	0.2500		389.6800			48.7100	12.1775
	0.4700		608.0100			158.4559	54.3278
	0.7000		757.8100			315.5252	148.1945
	1.0400		894.7200			596.4553	396.5603
	1.9900		808.7600			1405.6083	1603.0324
	2.9900		666.9500			2143.4633	3404.8389
	4.0400		716.5400			2869.7956	5971.5650
	5.9700		402.2900			3949.4665	11082.6806
	8.0200		205.3900			4572.3385	15232.8022
	9.9800	*	160.8500	170.4617	-9.612e+00	4931.2537	18420.2628
	11.9900	*	103.0100	96.2644	+6.746e+00	5196.4330	21274.8375
	24.0300	*	3.1100	3.1403	-3.028e-02	5835.2754	29159.9732

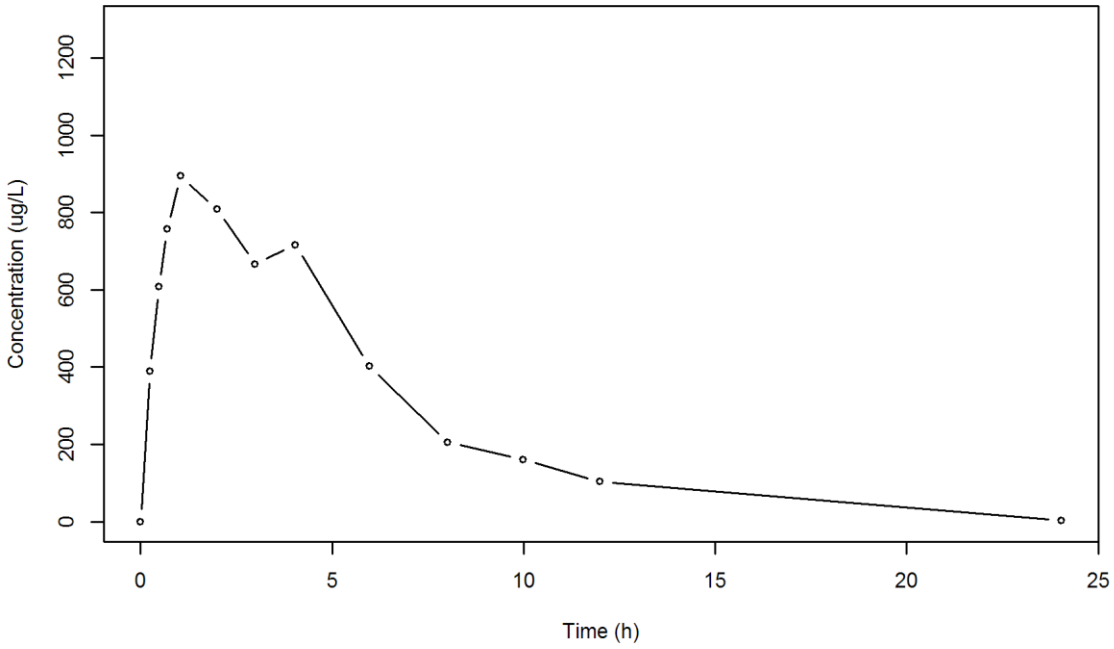
*: Used for the calculation of Lambda z.

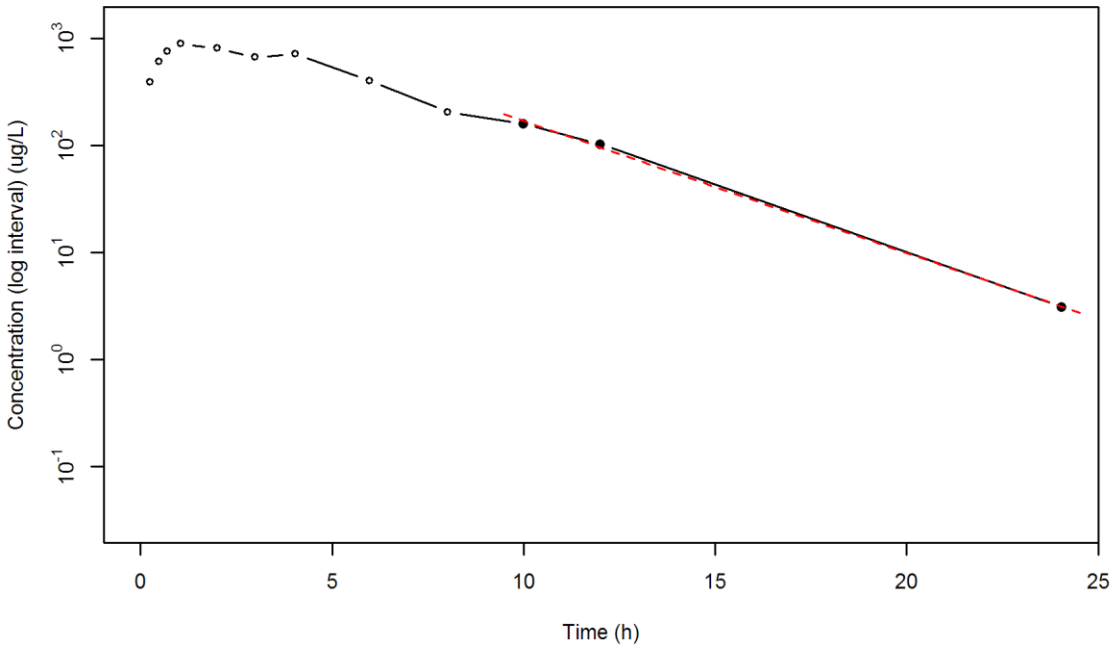
Calculated Values

CMAX	Max Conc	894.7200	ug/L
TMAX	Time of CMAX	1.0400	h
TLAG	Time Until First Nonzero Conc	0.0000	h
CLST	Last Nonzero Conc	3.1100	ug/L
CLSTP	Last Nonzero Conc Pred	3.1403	ug/L
TLST	Time of Last Nonzero Conc	24.0300	h
LAMZHL	Half-Life Lambda z	2.4382	h
LAMZ	Lambda z	0.2843	/h
LAMZLL	Lambda z Lower Limit	9.9800	h
LAMZUL	Lambda z Upper Limit	24.0300	h
LAMZNPT	Number of Points for Lambda z	3	
CORRXY	Correlation Between TimeX and Log ConcY	-0.9996	
R2	R Squared	0.9991	
R2ADJ	R Squared Adjusted	0.9983	
AUCLST	AUC to Last Nonzero Conc	5835.2754	h*ug/L

AUCALL	AUC All	5835.2754	h*ug/L
AUCIFO	AUC Infinity Obs	5846.2151	h*ug/L
AUCIFP	AUC Infinity Pred	5846.3217	h*ug/L
AUCPEO	AUC %Extrapolation Obs	0.1871	%
AUCPEP	AUC %Extrapolation Pred	0.1889	%
AUMCLST	AUMC to Last Nonzero Conc	29159.9732	h2*ug/L
AUMCIFO	AUMC Infinity Obs	29461.3368	h2*ug/L
AUMCIFP	AUMC Infinity Pred	29464.2710	h2*ug/L
AUMCPEO	AUMC %Extrapolation Obs	1.0229	%
AUMCPEP	AUMC % Extrapolation Pred	1.0328	%
VZFO	Vz Obs by F	0.0000	L
VZFP	Vz Pred by F	0.0000	L
CLFO	Total CL Obs by F	0.0000	L/h
CLFP	Total CL Pred by F	0.0000	L/h
MRTEVLST	MRT Extravasc to Last Nonzero Conc	4.9972	h
MRTEVIFO	MRT Extravasc Infinity Obs	5.0394	h
MRTEVIFP	MRT Extravasc Infinity Pred	5.0398	h

SUBJ 23, GRP TR, PRD 2, TRT R





SUBJ 24, GRP TR, PRD 1, TRT T

NONCOMPARTMENTAL ANALYSIS REPORT
Package version 0.3.9 (2018-05-10 KST)
R version 3.5.0 (2018-04-23)

Date and Time: 2018-06-19 09:49:36 Asia/Seoul

Calculation Setting

Drug Administration: Extravascular
Observation count excluding trailing zero: 13
Dose at time 0: 0 mg
AUC Calculation Method: Linear-up Linear-down
Weighting for lambda z: Uniform (Ordinary Least Square, OLS)
Lambda z selection criterion: Heighest adjusted R-squared value with precision=1e-4

Fitting, AUC, AUMC Result

	Time		Conc.	Pred.	Residual	AUC	AUMC
	0.0000		1.1600			0.0000	0.0000
	0.2100		520.7000			54.7953	11.4814
	0.5200		711.9600			245.8576	85.8142
	0.7800		656.7200			423.7860	200.5341
	1.0300		713.5700			595.0723	356.4364
	2.0300		518.7400			1211.2273	1250.4461
	3.0400		493.0000			1722.1560	2539.0860
	4.0500		450.0300			2198.3861	4216.3635
	5.9800		258.1800			2881.8088	7465.0725
	8.0100		191.1900			3337.9193	10586.5511
	10.0000	*	122.7100	118.4971	+4.213e+00	3650.2498	13331.2903
	12.0500	*	75.1500	78.2903	-3.140e+00	3853.0563	15517.2642
	23.9800	*	7.0600	7.0177	+4.225e-02	4343.4390	21928.7821

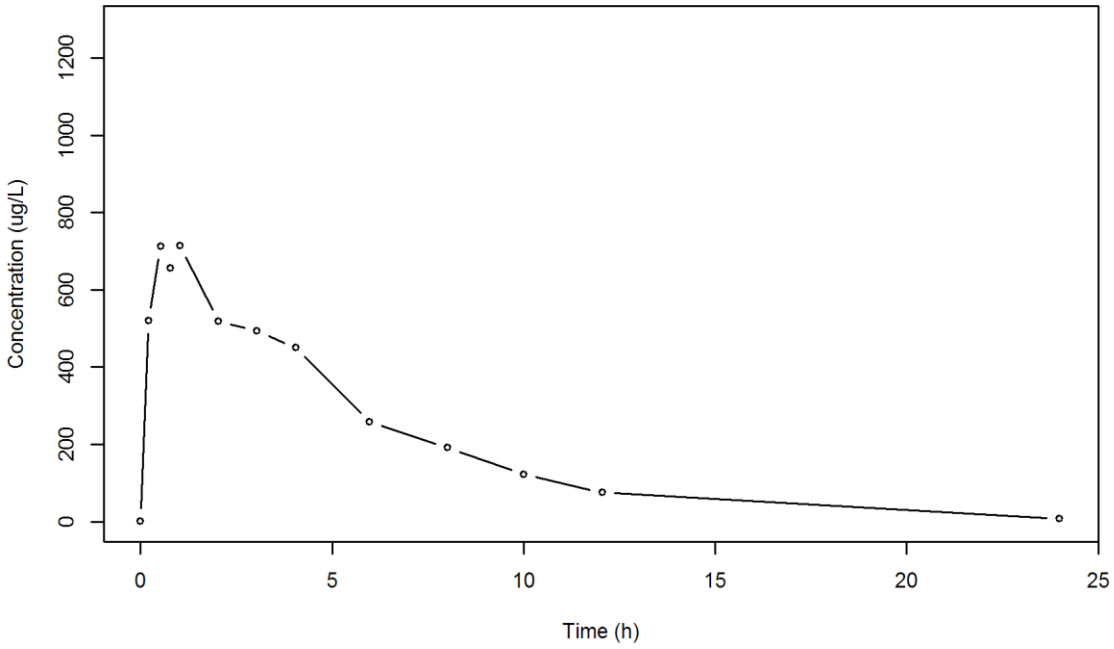
*: Used for the calculation of Lambda z.

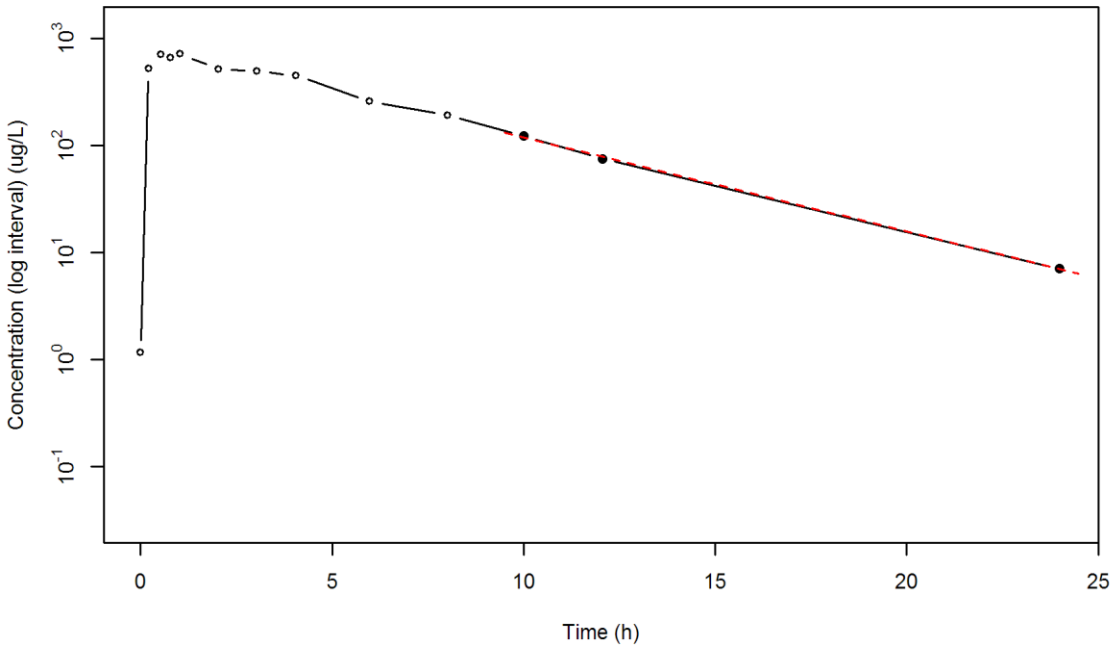
Calculated Values

CMAX	Max Conc	713.5700	ug/L
TMAX	Time of CMAX	1.0300	h
TLAG	Time Until First Nonzero Conc	0.0000	h
CLST	Last Nonzero Conc	7.0600	ug/L
CLSTP	Last Nonzero Conc Pred	7.0177	ug/L
TLST	Time of Last Nonzero Conc	23.9800	h
LAMZHL	Half-Life Lambda z	3.4284	h
LAMZ	Lambda z	0.2022	/h
LAMZLL	Lambda z Lower Limit	10.0000	h
LAMZUL	Lambda z Upper Limit	23.9800	h
LAMZNPT	Number of Points for Lambda z	3	
CORRXY	Correlation Between TimeX and Log ConcY	-0.9997	
R2	R Squared	0.9994	
R2ADJ	R Squared Adjusted	0.9987	
AUCLST	AUC to Last Nonzero Conc	4343.4390	h*ug/L

AUCALL	AUC All	4343.4390	h*ug/L
AUCIFO	AUC Infinity Obs	4378.3587	h*ug/L
AUCIFP	AUC Infinity Pred	4378.1497	h*ug/L
AUCPEO	AUC %Extrapolation Obs	0.7976	%
AUCPEP	AUC %Extrapolation Pred	0.7928	%
AUMCLST	AUMC to Last Nonzero Conc	21928.7821	h2*ug/L
AUMCIFO	AUMC Infinity Obs	22938.8754	h2*ug/L
AUMCIFP	AUMC Infinity Pred	22932.8299	h2*ug/L
AUMCPEO	AUMC %Extrapolation Obs	4.4034	%
AUMCPEP	AUMC % Extrapolation Pred	4.3782	%
VZFO	Vz Obs by F	0.0000	L
VZFP	Vz Pred by F	0.0000	L
CLFO	Total CL Obs by F	0.0000	L/h
CLFP	Total CL Pred by F	0.0000	L/h
MRTEVLST	MRT Extravasc to Last Nonzero Conc	5.0487	h
MRTEVIFO	MRT Extravasc Infinity Obs	5.2391	h
MRTEVIFP	MRT Extravasc Infinity Pred	5.2380	h

SUBJ 24, GRP TR, PRD 1, TRT T





SUBJ 24, GRP TR, PRD 2, TRT R

NONCOMPARTMENTAL ANALYSIS REPORT
Package version 0.3.9 (2018-05-10 KST)
R version 3.5.0 (2018-04-23)

Date and Time: 2018-06-19 09:49:36 Asia/Seoul

Calculation Setting

Drug Administration: Extravascular
Observation count excluding trailing zero: 12
Dose at time 0: 0 mg
AUC Calculation Method: Linear-up Linear-down
Weighting for lambda z: Uniform (Ordinary Least Square, OLS)
Lambda z selection criterion: Heighest adjusted R-squared value with precision=1e-4

Fitting, AUC, AUMC Result

	Time		Conc.	Pred.	Residual	AUC	AUMC
	0.0000		1.4600			0.0000	0.0000
	0.2100		344.5800			36.3342	7.5980
	0.5300		603.7800			188.0718	70.3764
	0.7100		811.8300			315.4767	151.0527
	1.0400		580.0000			545.1287	345.6865
	1.9900		532.7900			1073.7039	1135.8263
	2.9600	*	467.4400	472.5248	-5.085e+00	1558.8155	2321.1054
	3.9900	*	333.5500	323.7207	+9.829e+00	1971.3253	3719.0662
	6.0200	*	148.8000	153.6195	-4.820e+00	2460.9106	5979.1063
	8.0200	*	79.3900	73.7066	+5.683e+00	2689.1006	7511.5901
	10.0200	*	31.2100	35.3644	-4.154e+00	2799.7006	8461.0221
	11.9900	*	18.2800	17.1558	+1.124e+00	2848.4482	8984.9450

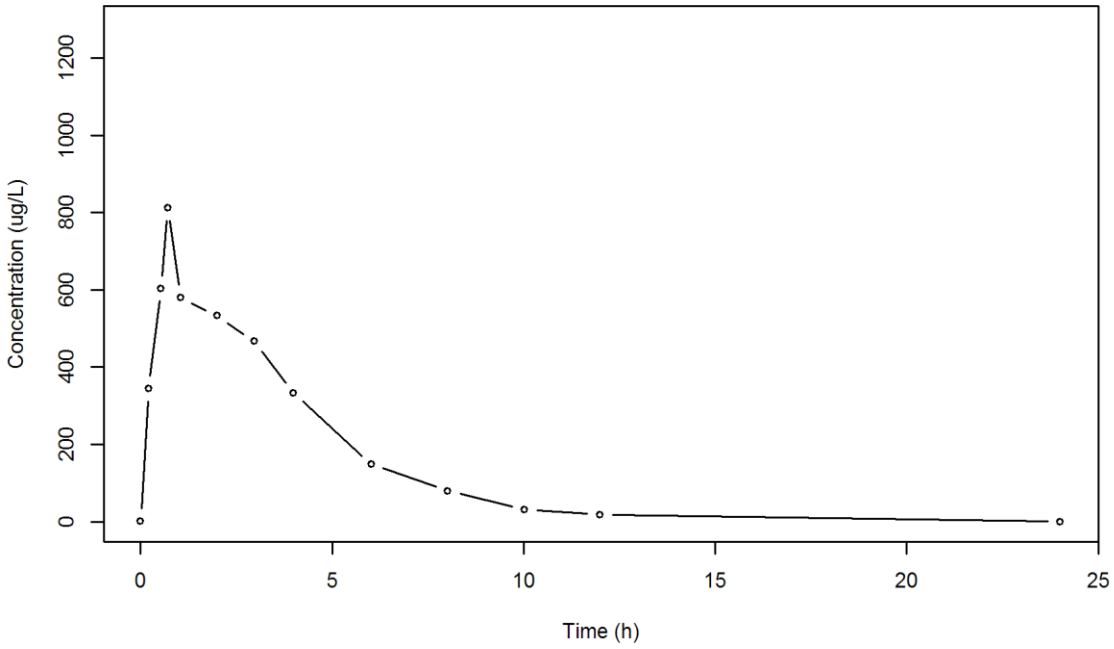
*: Used for the calculation of Lambda z.

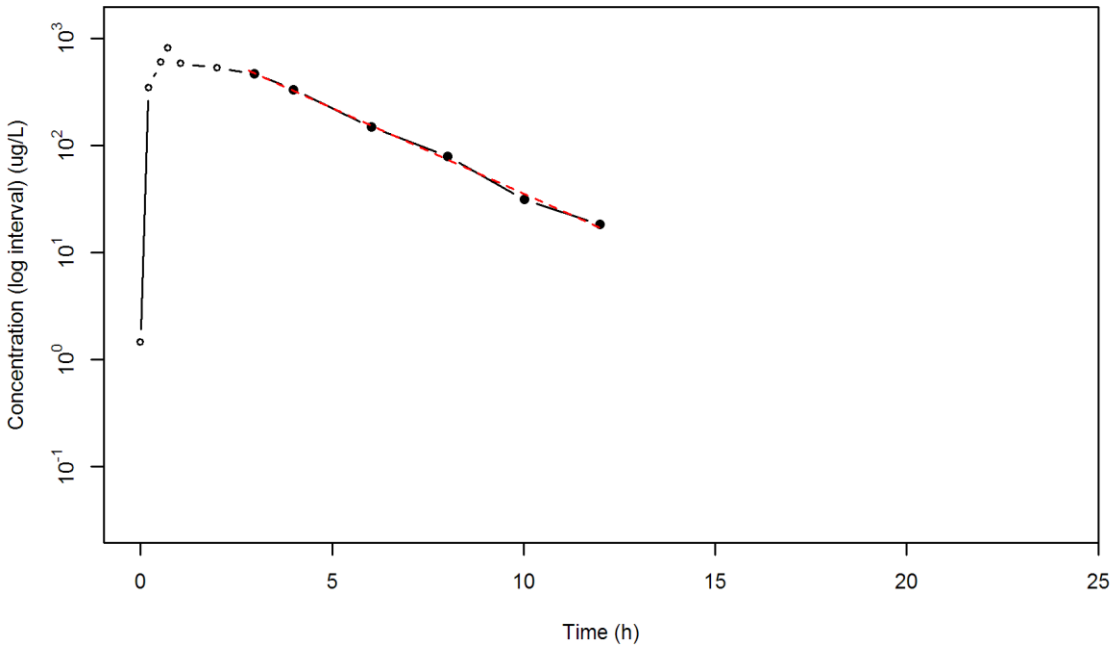
Calculated Values

CMAX	Max Conc	811.8300	ug/L
TMAX	Time of CMAX	0.7100	h
TLAG	Time Until First Nonzero Conc	0.0000	h
CLST	Last Nonzero Conc	18.2800	ug/L
CLSTP	Last Nonzero Conc Pred	17.1558	ug/L
TLST	Time of Last Nonzero Conc	11.9900	h
LAMZHL	Half-Life Lambda z	1.8877	h
LAMZ	Lambda z	0.3672	/h
LAMZLL	Lambda z Lower Limit	2.9600	h
LAMZUL	Lambda z Upper Limit	11.9900	h
LAMZNPT	Number of Points for Lambda z	6	
CORRXY	Correlation Between TimeX and Log ConcY	-0.9984	
R2	R Squared	0.9967	
R2ADJ	R Squared Adjusted	0.9959	
AUCLST	AUC to Last Nonzero Conc	2848.4482	h*ug/L
AUCALL	AUC All	2958.3110	h*ug/L

AUCIFO	AUC Infinity Obs	2898.2313	h*ug/L
AUCIFP	AUC Infinity Pred	2895.1696	h*ug/L
AUCPEO	AUC %Extrapolation Obs	1.7177	%
AUCPEP	AUC %Extrapolation Pred	1.6138	%
AUMCLST	AUMC to Last Nonzero Conc	8984.9450	h2*ug/L
AUMCIFO	AUMC Infinity Obs	9717.4212	h2*ug/L
AUMCIFP	AUMC Infinity Pred	9672.3744	h2*ug/L
AUMCPEO	AUMC %Extrapolation Obs	7.5378	%
AUMCPEP	AUMC % Extrapolation Pred	7.1071	%
VZFO	Vz Obs by F	0.0000	L
VZFP	Vz Pred by F	0.0000	L
CLFO	Total CL Obs by F	0.0000	L/h
CLFP	Total CL Pred by F	0.0000	L/h
MRTEVLST	MRT Extravasc to Last Nonzero Conc	3.1543	h
MRTEVIFO	MRT Extravasc Infinity Obs	3.3529	h
MRTEVIFP	MRT Extravasc Infinity Pred	3.3409	h

SUBJ 24, GRP TR, PRD 2, TRT R





SUBJ 25, GRP TR, PRD 1, TRT T

NONCOMPARTMENTAL ANALYSIS REPORT
Package version 0.3.9 (2018-05-10 KST)
R version 3.5.0 (2018-04-23)

Date and Time: 2018-06-19 09:49:36 Asia/Seoul

Calculation Setting

Drug Administration: Extravascular
Observation count excluding trailing zero: 13
Dose at time 0: 0 mg
AUC Calculation Method: Linear-up Linear-down
Weighting for lambda z: Uniform (Ordinary Least Square, OLS)
Lambda z selection criterion: Heighest adjusted R-squared value with precision=1e-4

Fitting, AUC, AUMC Result

	Time		Conc.	Pred.	Residual	AUC	AUMC
	0.0000		0.0000			0.0000	0.0000
	0.2100		579.2000			60.8160	12.7714
	0.5100		882.9300			280.1355	98.5603
	0.7300		1160.3200			504.8930	241.2664
	0.9800		822.5500			752.7518	447.9079
	2.0000		724.0800			1541.5331	1597.5800
	3.0500		520.0300			2194.6908	3190.5621
	4.0200		389.0000			2635.5704	4718.2498
	5.9500		204.8900			3208.6742	7403.7246
	7.9600		103.2200			3518.3248	9454.6549
	10.0000	*	59.5500	55.3039	+4.246e+00	3684.3502	10900.1288
	11.9600	*	32.3800	35.2877	-2.908e+00	3774.4416	11863.2383
	24.0200	*	2.2500	2.2231	+2.689e-02	3983.2605	14524.3364

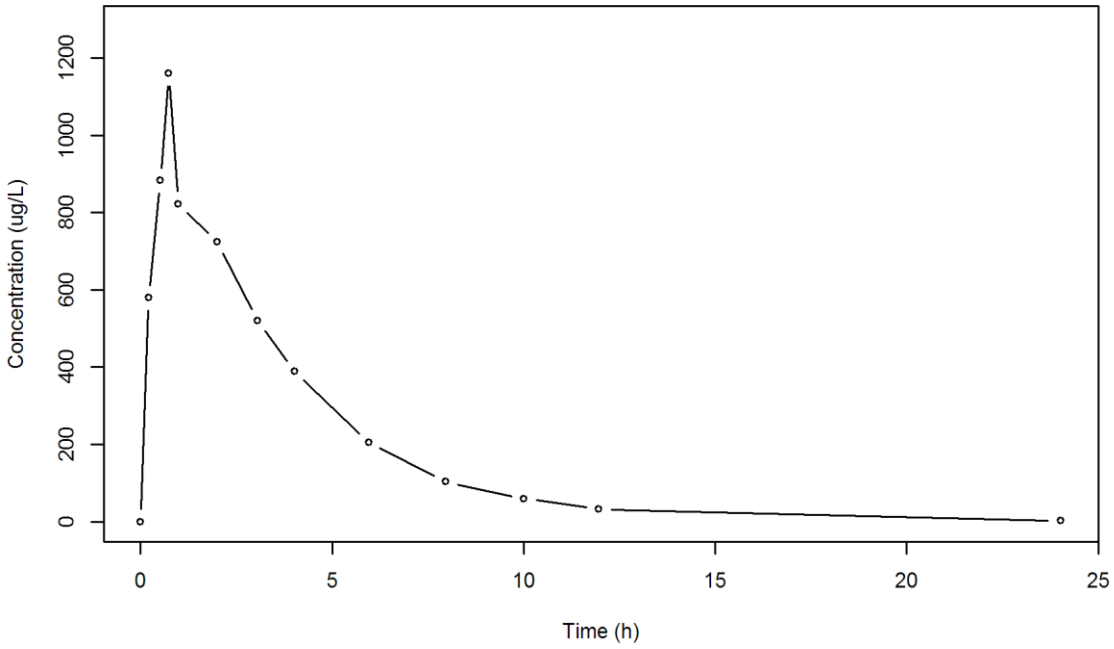
*: Used for the calculation of Lambda z.

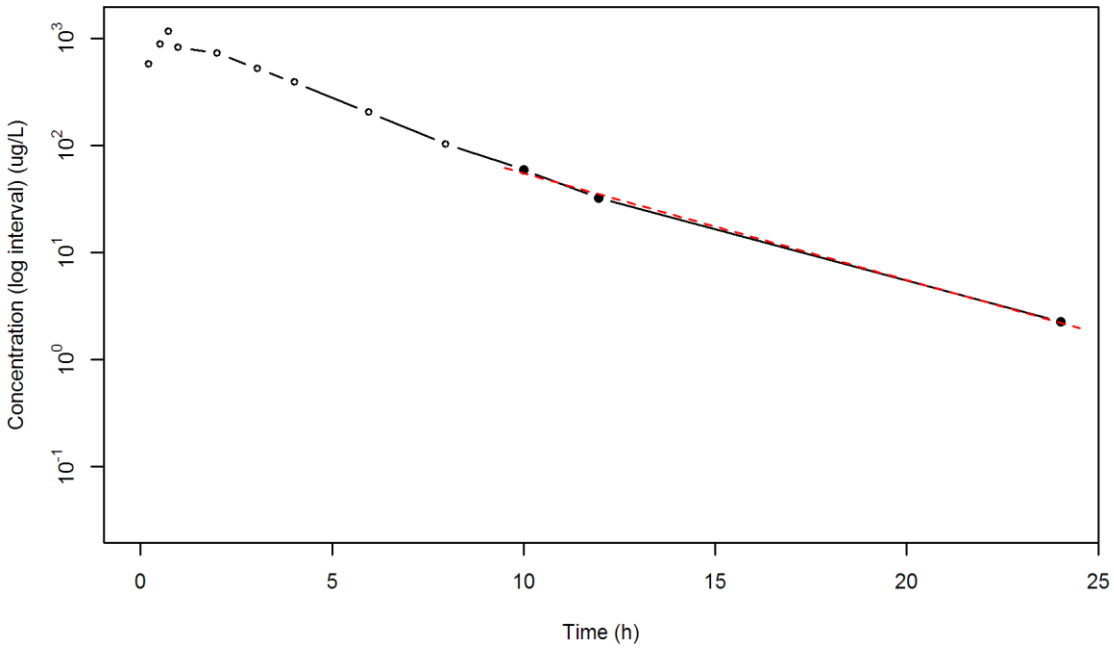
Calculated Values

CMAX	Max Conc	1160.3200	ug/L
TMAX	Time of CMAX	0.7300	h
TLAG	Time Until First Nonzero Conc	0.0000	h
CLST	Last Nonzero Conc	2.2500	ug/L
CLSTP	Last Nonzero Conc Pred	2.2231	ug/L
TLST	Time of Last Nonzero Conc	24.0200	h
LAMZHL	Half-Life Lambda z	3.0237	h
LAMZ	Lambda z	0.2292	/h
LAMZLL	Lambda z Lower Limit	10.0000	h
LAMZUL	Lambda z Upper Limit	24.0200	h
LAMZNPT	Number of Points for Lambda z	3	
CORRXY	Correlation Between TimeX and Log ConcY	-0.9989	
R2	R Squared	0.9979	
R2ADJ	R Squared Adjusted	0.9957	
AUCLST	AUC to Last Nonzero Conc	3983.2605	h*ug/L

AUCALL	AUC All	3983.2605	h*ug/L
AUCIFO	AUC Infinity Obs	3993.0755	h*ug/L
AUCIFP	AUC Infinity Pred	3992.9582	h*ug/L
AUCPEO	AUC %Extrapolation Obs	0.2458	%
AUCPEP	AUC %Extrapolation Pred	0.2429	%
AUMCLST	AUMC to Last Nonzero Conc	14524.3364	h2*ug/L
AUMCIFO	AUMC Infinity Obs	14802.9101	h2*ug/L
AUMCIFP	AUMC Infinity Pred	14799.5811	h2*ug/L
AUMCPEO	AUMC %Extrapolation Obs	1.8819	%
AUMCPEP	AUMC % Extrapolation Pred	1.8598	%
VZFO	Vz Obs by F	0.0000	L
VZFP	Vz Pred by F	0.0000	L
CLFO	Total CL Obs by F	0.0000	L/h
CLFP	Total CL Pred by F	0.0000	L/h
MRTEVLST	MRT Extravasc to Last Nonzero Conc	3.6463	h
MRTEVIFO	MRT Extravasc Infinity Obs	3.7071	h
MRTEVIFP	MRT Extravasc Infinity Pred	3.7064	h

SUBJ 25, GRP TR, PRD 1, TRT T





SUBJ 25, GRP TR, PRD 2, TRT R

NONCOMPARTMENTAL ANALYSIS REPORT
Package version 0.3.9 (2018-05-10 KST)
R version 3.5.0 (2018-04-23)

Date and Time: 2018-06-19 09:49:36 Asia/Seoul

Calculation Setting

Drug Administration: Extravascular
Observation count excluding trailing zero: 13
Dose at time 0: 0 mg
AUC Calculation Method: Linear-up Linear-down
Weighting for lambda z: Uniform (Ordinary Least Square, OLS)
Lambda z selection criterion: Heighest adjusted R-squared value with precision=1e-4

Fitting, AUC, AUMC Result

	Time		Conc.	Pred.	Residual	AUC	AUMC
	0.0000		0.0000			0.0000	0.0000
	0.2300		394.4500			45.3618	10.4332
	0.5200		711.8200			205.7709	77.2593
	0.7800		769.6300			398.3594	203.4189
	1.0100		673.4200			564.3102	350.6724
	2.0400		496.6700			1166.9065	1222.7533
	2.9900		451.2000			1617.1448	2344.8433
	4.0400		343.9600			2034.6038	3782.6537
	6.0400		220.5400			2599.1038	6504.3137
	7.9800		99.1200			2909.1740	8563.6617
	10.0300	*	67.6800	71.5996	-3.920e+00	3080.1440	10070.2149
	12.0000	*	45.5700	42.6797	+2.890e+00	3191.6952	11277.5003
	24.0200	*	1.8000	1.8167	-1.669e-02	3476.3889	14823.8570

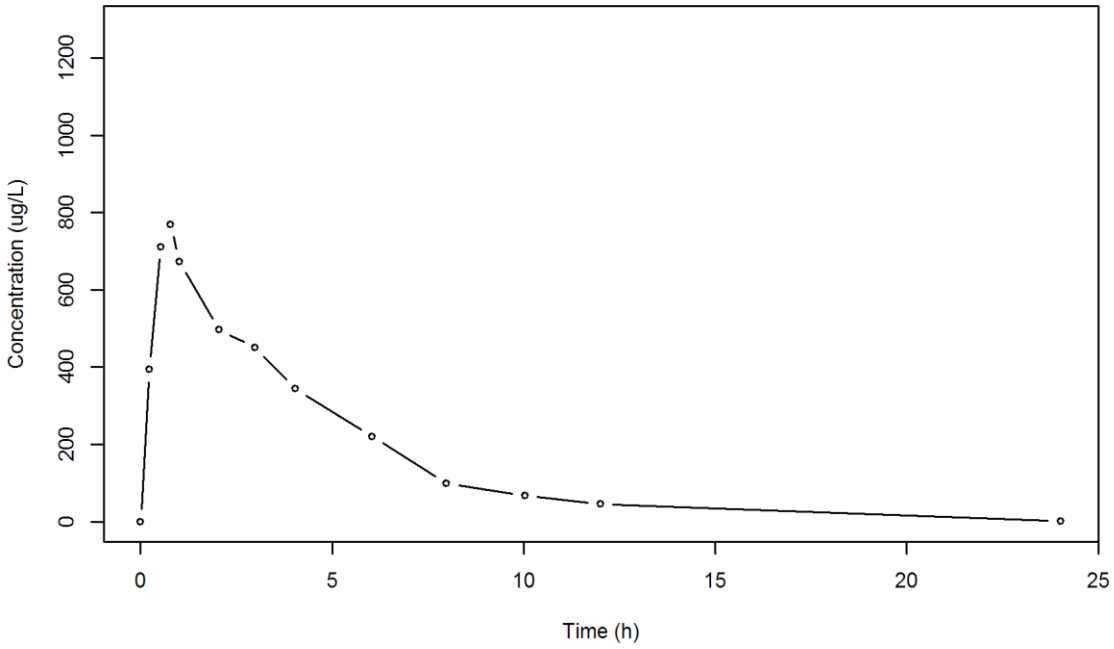
*: Used for the calculation of Lambda z.

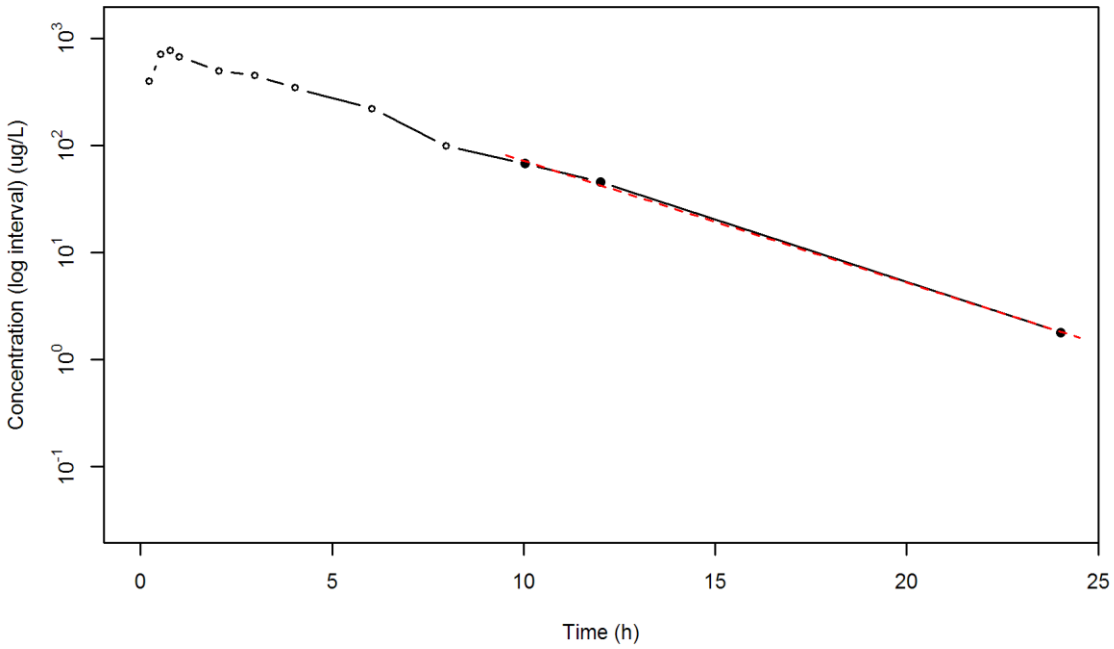
Calculated Values

CMAX	Max Conc	769.6300	ug/L
TMAX	Time of CMAX	0.7800	h
TLAG	Time Until First Nonzero Conc	0.0000	h
CLST	Last Nonzero Conc	1.8000	ug/L
CLSTP	Last Nonzero Conc Pred	1.8167	ug/L
TLST	Time of Last Nonzero Conc	24.0200	h
LAMZHL	Half-Life Lambda z	2.6393	h
LAMZ	Lambda z	0.2626	/h
LAMZLL	Lambda z Lower Limit	10.0300	h
LAMZUL	Lambda z Upper Limit	24.0200	h
LAMZNPT	Number of Points for Lambda z	3	
CORRXY	Correlation Between TimeX and Log ConcY	-0.9995	
R2	R Squared	0.9990	
R2ADJ	R Squared Adjusted	0.9981	
AUCLST	AUC to Last Nonzero Conc	3476.3889	h*ug/L

AUCALL	AUC All	3476.3889	h*ug/L
AUCIFO	AUC Infinity Obs	3483.2429	h*ug/L
AUCIFP	AUC Infinity Pred	3483.3064	h*ug/L
AUCPEO	AUC %Extrapolation Obs	0.1968	%
AUCPEP	AUC %Extrapolation Pred	0.1986	%
AUMCLST	AUMC to Last Nonzero Conc	14823.8570	h2*ug/L
AUMCIFO	AUMC Infinity Obs	15014.5876	h2*ug/L
AUMCIFP	AUMC Infinity Pred	15016.3556	h2*ug/L
AUMCPEO	AUMC %Extrapolation Obs	1.2703	%
AUMCPEP	AUMC % Extrapolation Pred	1.2819	%
VZFO	Vz Obs by F	0.0000	L
VZFP	Vz Pred by F	0.0000	L
CLFO	Total CL Obs by F	0.0000	L/h
CLFP	Total CL Pred by F	0.0000	L/h
MRTEVLST	MRT Extravasc to Last Nonzero Conc	4.2642	h
MRTEVIFO	MRT Extravasc Infinity Obs	4.3105	h
MRTEVIFP	MRT Extravasc Infinity Pred	4.3109	h

SUBJ 25, GRP TR, PRD 2, TRT R





SUBJ 26, GRP TR, PRD 1, TRT T

NONCOMPARTMENTAL ANALYSIS REPORT
Package version 0.3.9 (2018-05-10 KST)
R version 3.5.0 (2018-04-23)

Date and Time: 2018-06-19 09:49:36 Asia/Seoul

Calculation Setting

Drug Administration: Extravascular
Observation count excluding trailing zero: 13
Dose at time 0: 0 mg
AUC Calculation Method: Linear-up Linear-down
Weighting for lambda z: Uniform (Ordinary Least Square, OLS)
Lambda z selection criterion: Heighest adjusted R-squared value with precision=1e-4

Fitting, AUC, AUMC Result

	Time		Conc.	Pred.	Residual	AUC	AUMC
	0.0000		0.8900			0.0000	0.0000
	0.2800		624.5900			87.5672	24.4839
	0.5100		622.9500			231.0343	81.1317
	0.7400		714.3300			384.8215	178.4572
	0.9600		766.0500			547.6633	317.4986
	2.0200		585.8400			1264.1650	1334.4651
	3.0100		469.8000			1786.7068	2620.2251
	4.0500		324.4300			2199.7064	4038.8056
	6.0300		171.2700			2690.4494	6362.0382
	8.0000	*	148.2800	150.0219	-1.742e+00	3005.2062	8547.7513
	9.9800	*	85.1300	91.5261	-6.396e+00	3236.2821	10563.2304
	11.9800	*	61.4100	55.5607	+5.849e+00	3382.8221	12148.5196
	23.9600	*	2.7500	2.7943	-4.428e-02	3767.1405	16949.9945

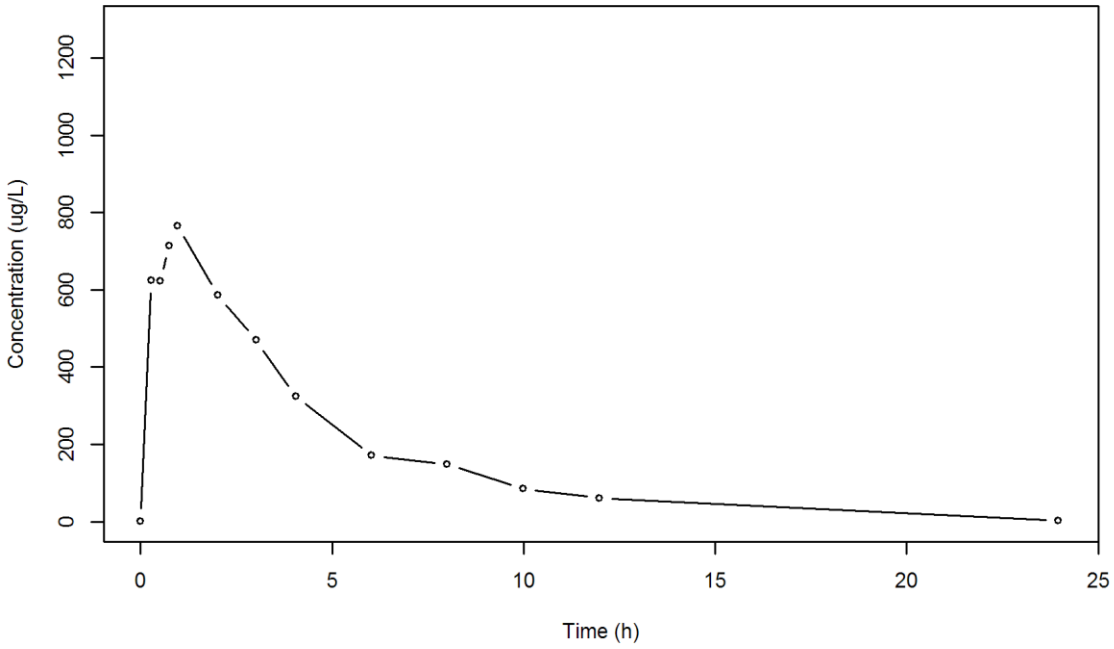
*: Used for the calculation of Lambda z.

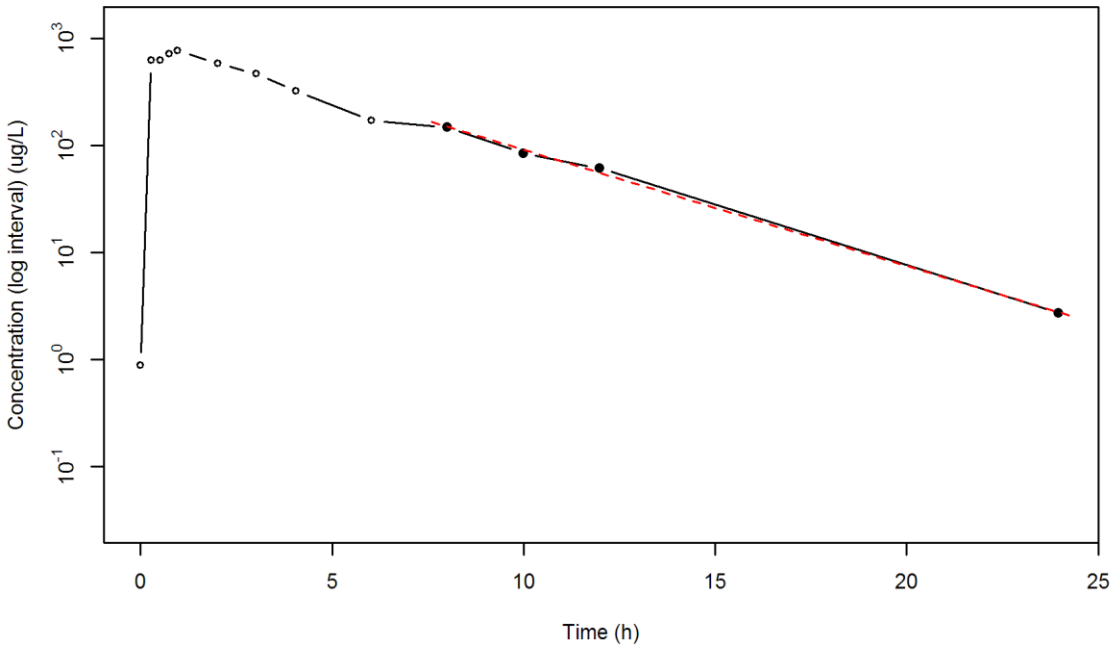
Calculated Values

CMAX	Max Conc	766.0500	ug/L
TMAX	Time of CMAX	0.9600	h
TLAG	Time Until First Nonzero Conc	0.0000	h
CLST	Last Nonzero Conc	2.7500	ug/L
CLSTP	Last Nonzero Conc Pred	2.7943	ug/L
TLST	Time of Last Nonzero Conc	23.9600	h
LAMZHL	Half-Life Lambda z	2.7773	h
LAMZ	Lambda z	0.2496	/h
LAMZLL	Lambda z Lower Limit	8.0000	h
LAMZUL	Lambda z Upper Limit	23.9600	h
LAMZNPT	Number of Points for Lambda z	4	
CORRXY	Correlation Between TimeX and Log ConcY	-0.9992	
R2	R Squared	0.9984	
R2ADJ	R Squared Adjusted	0.9976	
AUCLST	AUC to Last Nonzero Conc	3767.1405	h*ug/L

AUCALL	AUC All	3767.1405	h*ug/L
AUCIFO	AUC Infinity Obs	3778.1592	h*ug/L
AUCIFP	AUC Infinity Pred	3778.3366	h*ug/L
AUCPEO	AUC %Extrapolation Obs	0.2916	%
AUCPEP	AUC %Extrapolation Pred	0.2963	%
AUMCLST	AUMC to Last Nonzero Conc	16949.9945	h2*ug/L
AUMCIFO	AUMC Infinity Obs	17258.1543	h2*ug/L
AUMCIFP	AUMC Infinity Pred	17263.1164	h2*ug/L
AUMCPEO	AUMC %Extrapolation Obs	1.7856	%
AUMCPEP	AUMC % Extrapolation Pred	1.8138	%
VZFO	Vz Obs by F	0.0000	L
VZFP	Vz Pred by F	0.0000	L
CLFO	Total CL Obs by F	0.0000	L/h
CLFP	Total CL Pred by F	0.0000	L/h
MRTEVLST	MRT Extravasc to Last Nonzero Conc	4.4994	h
MRTEVIFO	MRT Extravasc Infinity Obs	4.5679	h
MRTEVIFP	MRT Extravasc Infinity Pred	4.5690	h

SUBJ 26, GRP TR, PRD 1, TRT T





SUBJ 26, GRP TR, PRD 2, TRT R

NONCOMPARTMENTAL ANALYSIS REPORT
Package version 0.3.9 (2018-05-10 KST)
R version 3.5.0 (2018-04-23)

Date and Time: 2018-06-19 09:49:36 Asia/Seoul

Calculation Setting

Drug Administration: Extravascular
Observation count excluding trailing zero: 13
Dose at time 0: 0 mg
AUC Calculation Method: Linear-up Linear-down
Weighting for lambda z: Uniform (Ordinary Least Square, OLS)
Lambda z selection criterion: Heighest adjusted R-squared value with precision=1e-4

Fitting, AUC, AUMC Result

	Time		Conc.	Pred.	Residual	AUC	AUMC
	0.0000		0.0000			0.0000	0.0000
	0.2800		350.7600			49.1064	13.7498
	0.5200		467.9000			147.3456	54.7323
	0.7800		543.2900			278.8003	141.4519
	0.9500		558.4500			372.4482	222.5669
	1.9700		595.7300			961.0800	1091.6659
	3.0100		369.0100			1462.7448	2279.5061
	3.9800		431.9700			1851.2201	3652.0371
	5.9900		306.8200			2593.7041	7226.9149
	7.9600	*	213.2200	216.4148	-3.195e+00	3105.9434	10708.9717
	9.9900	*	165.6100	166.3247	-7.147e-01	3490.4559	14110.9219
	11.9900	*	131.5600	128.3264	+3.234e+00	3787.6259	17342.7702
	24.0000	*	26.8800	27.0339	-1.539e-01	4739.0581	30689.0292

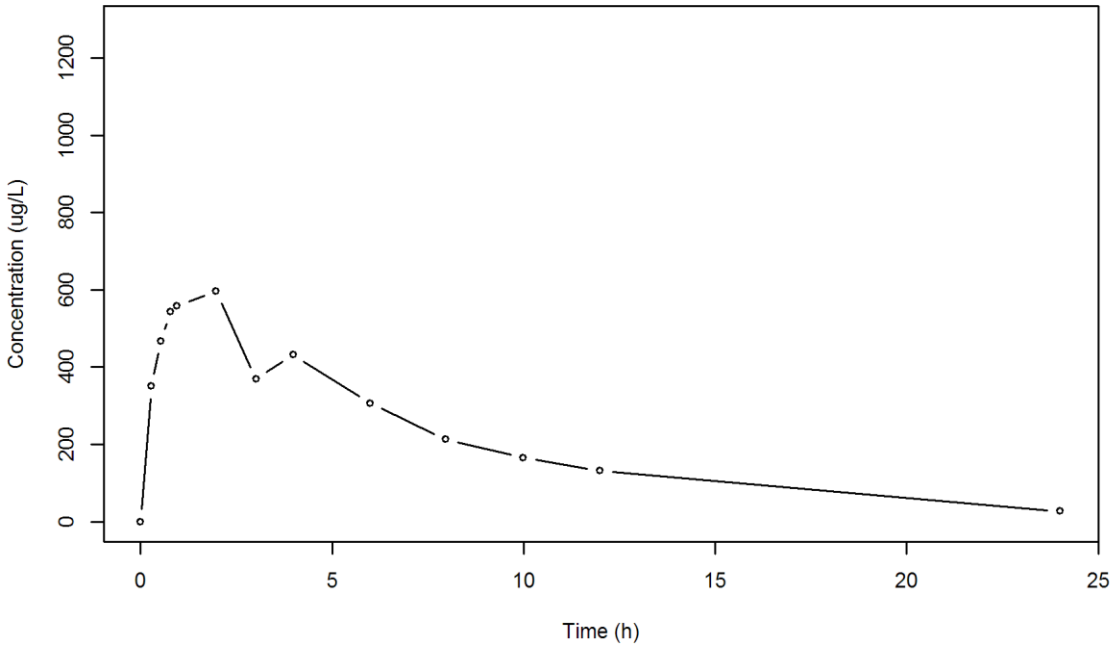
*: Used for the calculation of Lambda z.

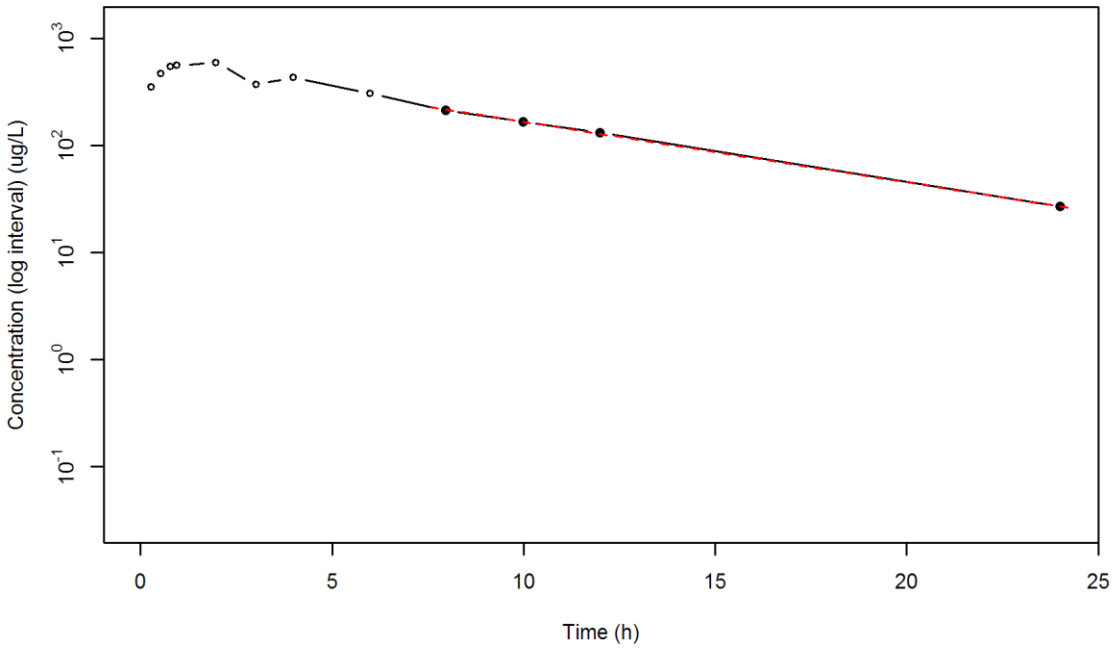
Calculated Values

CMAX	Max Conc	595.7300	ug/L
TMAX	Time of CMAX	1.9700	h
TLAG	Time Until First Nonzero Conc	0.0000	h
CLST	Last Nonzero Conc	26.8800	ug/L
CLSTP	Last Nonzero Conc Pred	27.0339	ug/L
TLST	Time of Last Nonzero Conc	24.0000	h
LAMZHL	Half-Life Lambda z	5.3450	h
LAMZ	Lambda z	0.1297	/h
LAMZLL	Lambda z Lower Limit	7.9600	h
LAMZUL	Lambda z Upper Limit	24.0000	h
LAMZNPT	Number of Points for Lambda z	4	
CORRXY	Correlation Between TimeX and Log ConcY	-0.9998	
R2	R Squared	0.9997	
R2ADJ	R Squared Adjusted	0.9995	
AUCLST	AUC to Last Nonzero Conc	4739.0581	h*ug/L

AUCALL	AUC All	4739.0581	h*ug/L
AUCIFO	AUC Infinity Obs	4946.3336	h*ug/L
AUCIFP	AUC Infinity Pred	4947.5200	h*ug/L
AUCPEO	AUC %Extrapolation Obs	4.1905	%
AUCPEP	AUC %Extrapolation Pred	4.2135	%
AUMCLST	AUMC to Last Nonzero Conc	30689.0292	h2*ug/L
AUMCIFO	AUMC Infinity Obs	37261.9719	h2*ug/L
AUMCIFP	AUMC Infinity Pred	37299.5951	h2*ug/L
AUMCPEO	AUMC %Extrapolation Obs	17.6398	%
AUMCPEP	AUMC % Extrapolation Pred	17.7229	%
VZFO	Vz Obs by F	0.0000	L
VZFP	Vz Pred by F	0.0000	L
CLFO	Total CL Obs by F	0.0000	L/h
CLFP	Total CL Pred by F	0.0000	L/h
MRTEVLST	MRT Extravasc to Last Nonzero Conc	6.4758	h
MRTEVIFO	MRT Extravasc Infinity Obs	7.5333	h
MRTEVIFP	MRT Extravasc Infinity Pred	7.5390	h

SUBJ 26, GRP TR, PRD 2, TRT R





SUBJ 27, GRP TR, PRD 1, TRT T

NONCOMPARTMENTAL ANALYSIS REPORT
Package version 0.3.9 (2018-05-10 KST)
R version 3.5.0 (2018-04-23)

Date and Time: 2018-06-19 09:49:36 Asia/Seoul

Calculation Setting

Drug Administration: Extravascular
Observation count excluding trailing zero: 13
Dose at time 0: 0 mg
AUC Calculation Method: Linear-up Linear-down
Weighting for lambda z: Uniform (Ordinary Least Square, OLS)
Lambda z selection criterion: Heighest adjusted R-squared value with precision=1e-4

Fitting, AUC, AUMC Result

	Time		Conc.	Pred.	Residual	AUC	AUMC
	0.0000		2.0100			0.0000	0.0000
	0.2900		831.5000			120.8590	34.9646
	0.4800		991.5900			294.0525	103.0889
	0.7100		1032.6300			526.8378	242.1389
	0.9900		1219.5600			842.1444	513.8133
	2.0400		932.9200			1972.1964	2146.8370
	2.9800		932.1000			2848.7558	4346.8199
	4.0400		467.4700			3590.5279	6819.9254
	6.0000		355.6800			4397.2149	10762.1311
	7.9600		178.6600			4920.8681	14247.2204
	10.0200	*	106.5200	107.8904	-1.370e+00	5214.6035	16811.3683
	11.9800	*	63.2300	62.2965	+9.335e-01	5380.9585	18599.6976
	23.9700	*	2.1600	2.1645	-4.518e-03	5772.9716	23451.2748

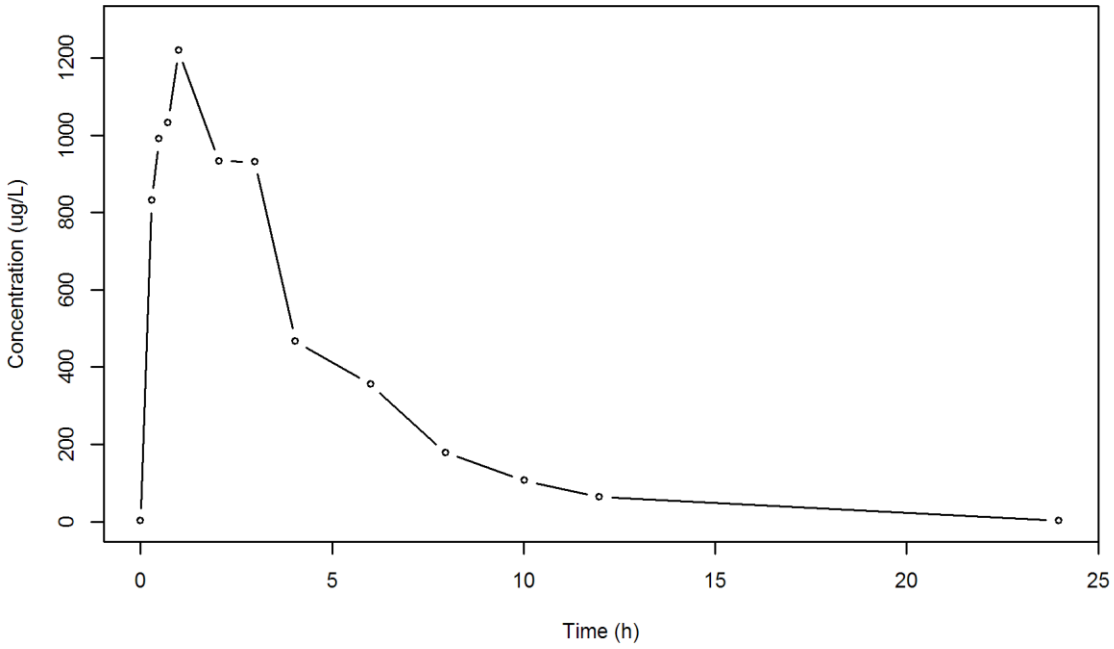
*: Used for the calculation of Lambda z.

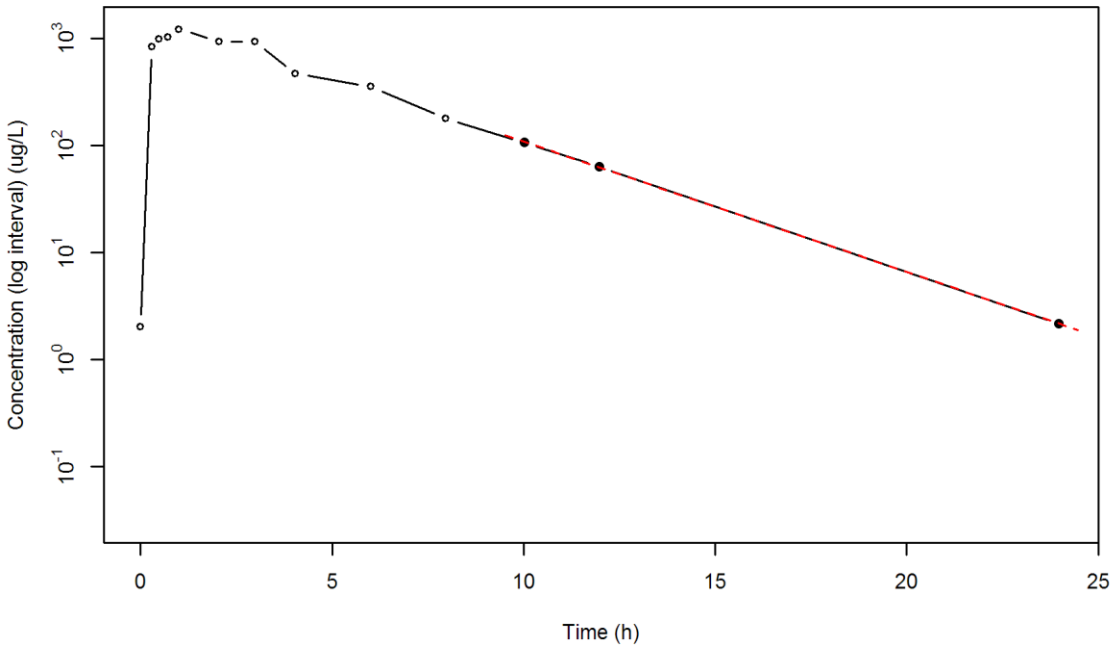
Calculated Values

CMAX	Max Conc	1219.5600	ug/L
TMAX	Time of CMAX	0.9900	h
TLAG	Time Until First Nonzero Conc	0.0000	h
CLST	Last Nonzero Conc	2.1600	ug/L
CLSTP	Last Nonzero Conc Pred	2.1645	ug/L
TLST	Time of Last Nonzero Conc	23.9700	h
LAMZHL	Half-Life Lambda z	2.4737	h
LAMZ	Lambda z	0.2802	/h
LAMZLL	Lambda z Lower Limit	10.0200	h
LAMZUL	Lambda z Upper Limit	23.9700	h
LAMZNPT	Number of Points for Lambda z	3	
CORRXY	Correlation Between TimeX and Log ConcY	-1.0000	
R2	R Squared	1.0000	
R2ADJ	R Squared Adjusted	0.9999	
AUCLST	AUC to Last Nonzero Conc	5772.9716	h*ug/L

AUCALL	AUC All	5772.9716	h*ug/L
AUCIFO	AUC Infinity Obs	5780.6801	h*ug/L
AUCIFP	AUC Infinity Pred	5780.6962	h*ug/L
AUCPEO	AUC %Extrapolation Obs	0.1333	%
AUCPEP	AUC %Extrapolation Pred	0.1336	%
AUMCLST	AUMC to Last Nonzero Conc	23451.2748	h2*ug/L
AUMCIFO	AUMC Infinity Obs	23663.5581	h2*ug/L
AUMCIFP	AUMC Infinity Pred	23664.0022	h2*ug/L
AUMCPEO	AUMC %Extrapolation Obs	0.8971	%
AUMCPEP	AUMC % Extrapolation Pred	0.8989	%
VZFO	Vz Obs by F	0.0000	L
VZFP	Vz Pred by F	0.0000	L
CLFO	Total CL Obs by F	0.0000	L/h
CLFP	Total CL Pred by F	0.0000	L/h
MRTEVLST	MRT Extravasc to Last Nonzero Conc	4.0623	h
MRTEVIFO	MRT Extravasc Infinity Obs	4.0936	h
MRTEVIFP	MRT Extravasc Infinity Pred	4.0936	h

SUBJ 27, GRP TR, PRD 1, TRT T





SUBJ 27, GRP TR, PRD 2, TRT R

NONCOMPARTMENTAL ANALYSIS REPORT
Package version 0.3.9 (2018-05-10 KST)
R version 3.5.0 (2018-04-23)

Date and Time: 2018-06-19 09:49:36 Asia/Seoul

Calculation Setting

Drug Administration: Extravascular
Observation count excluding trailing zero: 13
Dose at time 0: 0 mg
AUC Calculation Method: Linear-up Linear-down
Weighting for lambda z: Uniform (Ordinary Least Square, OLS)
Lambda z selection criterion: Heighest adjusted R-squared value with precision=1e-4

Fitting, AUC, AUMC Result

	Time		Conc.	Pred.	Residual	AUC	AUMC
	0.0000		1.1500			0.0000	0.0000
	0.2200		211.3300			23.3728	5.1142
	0.4700		442.3100			105.0778	36.9115
	0.7600		868.2700			295.1119	162.7383
	1.0300		1063.2900			555.8725	399.6732
	2.0200		998.6200			1576.5180	1940.3118
	3.0100		902.1800			2517.4139	4283.0350
	3.9700		867.3500			3366.7884	7239.3268
	6.0400	*	491.3400	500.3012	-8.961e+00	4773.0325	13874.7875
	8.0200	*	337.1400	342.4490	-5.309e+00	5593.2277	19489.6283
	9.9900	*	231.5900	234.8506	-3.261e+00	6153.4268	24431.8135
	12.0200	*	169.7900	159.2204	+1.057e+01	6560.8275	28851.5903
	24.0100	*	15.7700	16.0339	-2.639e-01	7673.2597	43356.5738

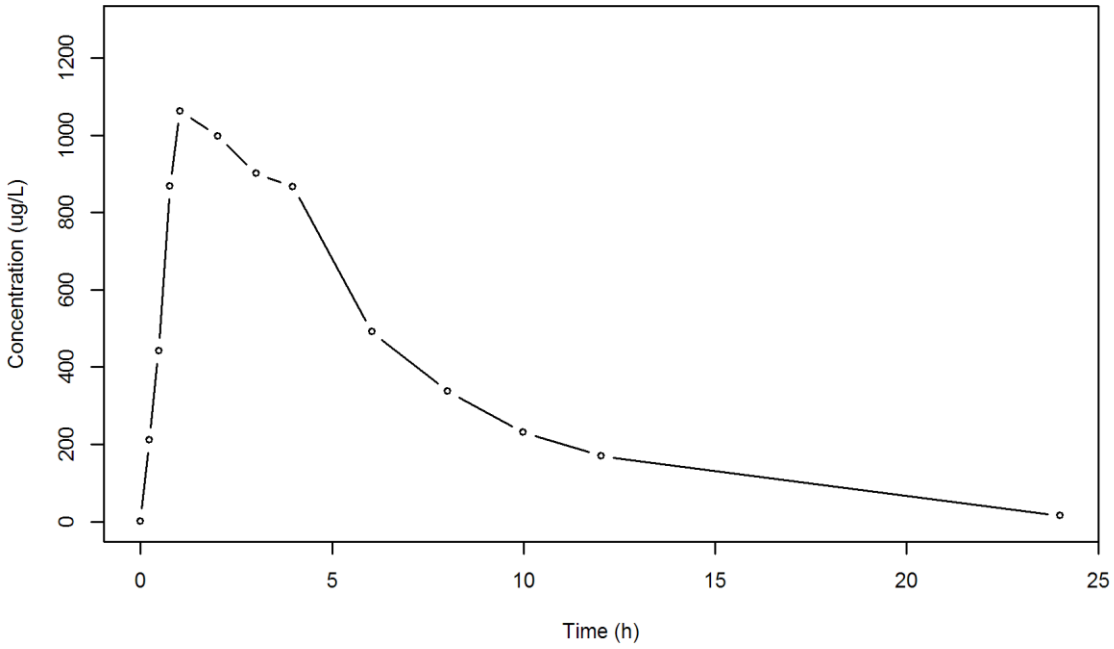
*: Used for the calculation of Lambda z.

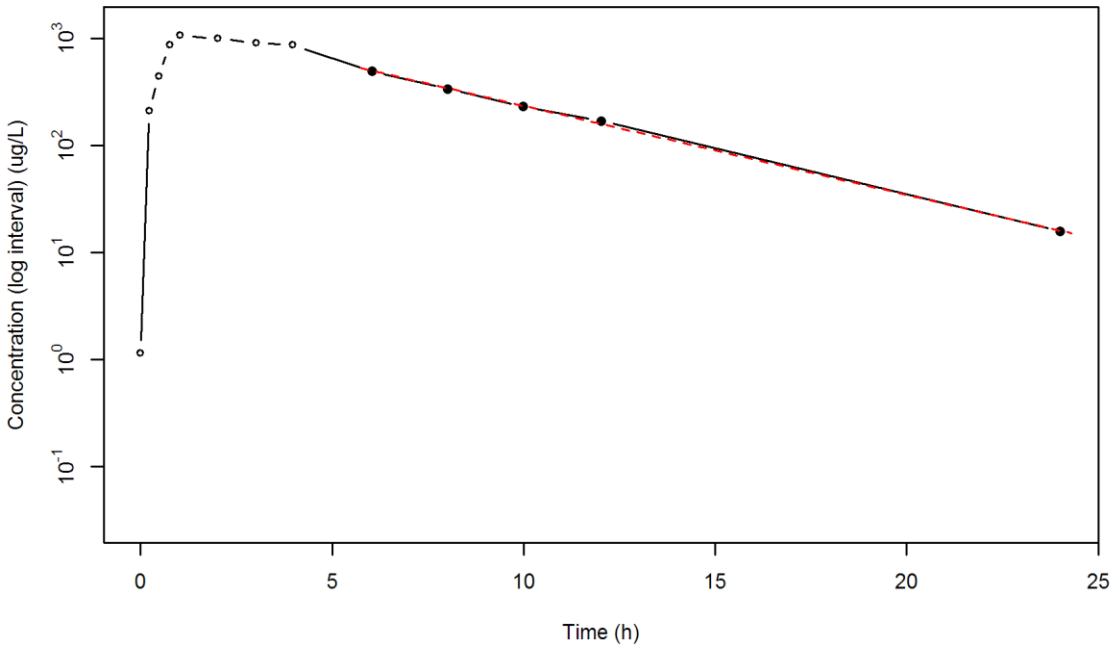
Calculated Values

CMAX	Max Conc	1063.2900	ug/L
TMAX	Time of CMAX	1.0300	h
TLAG	Time Until First Nonzero Conc	0.0000	h
CLST	Last Nonzero Conc	15.7700	ug/L
CLSTP	Last Nonzero Conc Pred	16.0339	ug/L
TLST	Time of Last Nonzero Conc	24.0100	h
LAMZHL	Half-Life Lambda z	3.6204	h
LAMZ	Lambda z	0.1915	/h
LAMZLL	Lambda z Lower Limit	6.0400	h
LAMZUL	Lambda z Upper Limit	24.0100	h
LAMZNPT	Number of Points for Lambda z	5	
CORRXY	Correlation Between TimeX and Log ConcY	-0.9996	
R2	R Squared	0.9993	
R2ADJ	R Squared Adjusted	0.9991	
AUCLST	AUC to Last Nonzero Conc	7673.2597	h*ug/L

AUCALL	AUC All	7673.2597	h*ug/L
AUCIFO	AUC Infinity Obs	7755.6274	h*ug/L
AUCIFP	AUC Infinity Pred	7757.0056	h*ug/L
AUCPEO	AUC %Extrapolation Obs	1.0620	%
AUCPEP	AUC %Extrapolation Pred	1.0796	%
AUMCLST	AUMC to Last Nonzero Conc	43356.5738	h2*ug/L
AUMCIFO	AUMC Infinity Obs	45764.4365	h2*ug/L
AUMCIFP	AUMC Infinity Pred	45804.7257	h2*ug/L
AUMCPEO	AUMC %Extrapolation Obs	5.2614	%
AUMCPEP	AUMC % Extrapolation Pred	5.3448	%
VZFO	Vz Obs by F	0.0000	L
VZFP	Vz Pred by F	0.0000	L
CLFO	Total CL Obs by F	0.0000	L/h
CLFP	Total CL Pred by F	0.0000	L/h
MRTEVLST	MRT Extravasc to Last Nonzero Conc	5.6503	h
MRTEVIFO	MRT Extravasc Infinity Obs	5.9008	h
MRTEVIFP	MRT Extravasc Infinity Pred	5.9049	h

SUBJ 27, GRP TR, PRD 2, TRT R





SUBJ 28, GRP RT, PRD 1, TRT R

NONCOMPARTMENTAL ANALYSIS REPORT
Package version 0.3.9 (2018-05-10 KST)
R version 3.5.0 (2018-04-23)

Date and Time: 2018-06-19 09:49:36 Asia/Seoul

Calculation Setting

Drug Administration: Extravascular
Observation count excluding trailing zero: 13
Dose at time 0: 0 mg
AUC Calculation Method: Linear-up Linear-down
Weighting for lambda z: Uniform (Ordinary Least Square, OLS)
Lambda z selection criterion: Heighest adjusted R-squared value with precision=1e-4

Fitting, AUC, AUMC Result

	Time	Conc.	Pred.	Residual	AUC	AUMC
	0.0000	0.0000			0.0000	0.0000
	0.2800	344.2700			48.1978	13.4954
	0.4600	423.8500			117.3286	39.7184
	0.7300	572.7700			251.8723	122.4859
	1.0000	650.2400			416.9787	266.7148
	1.9500	550.8100			987.4774	1085.7666
	3.0400 *	626.7200	590.9212	+3.580e+01	1629.2313	2709.4896
	4.0500 *	550.4500	512.7724	+3.768e+01	2223.7021	4797.4380
	5.9600 *	379.1500	392.1248	-1.297e+01	3111.4701	9084.4870
	7.9800 *	284.2600	295.2668	-1.101e+01	3781.5142	13657.8971
	10.0200 *	251.8200	221.7098	+3.011e+01	4328.3158	18545.3609
	11.9600 *	129.2900	168.8320	-3.954e+01	4697.9925	22492.8193
	23.9900 *	33.8100	31.1663	+2.644e+00	5679.0390	36672.6423

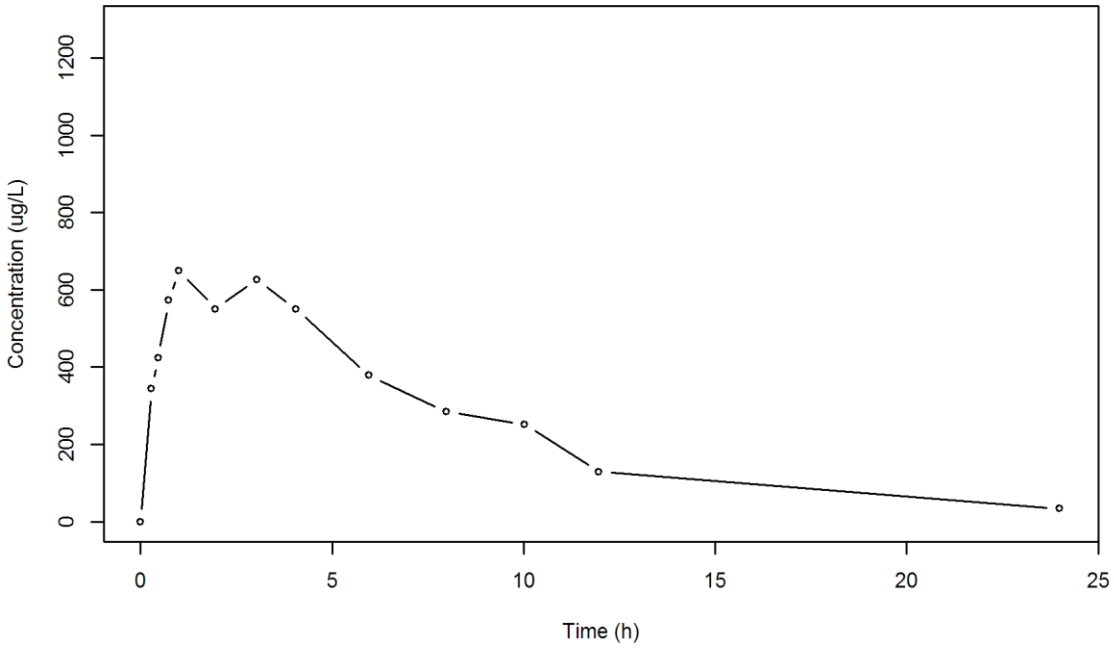
*: Used for the calculation of Lambda z.

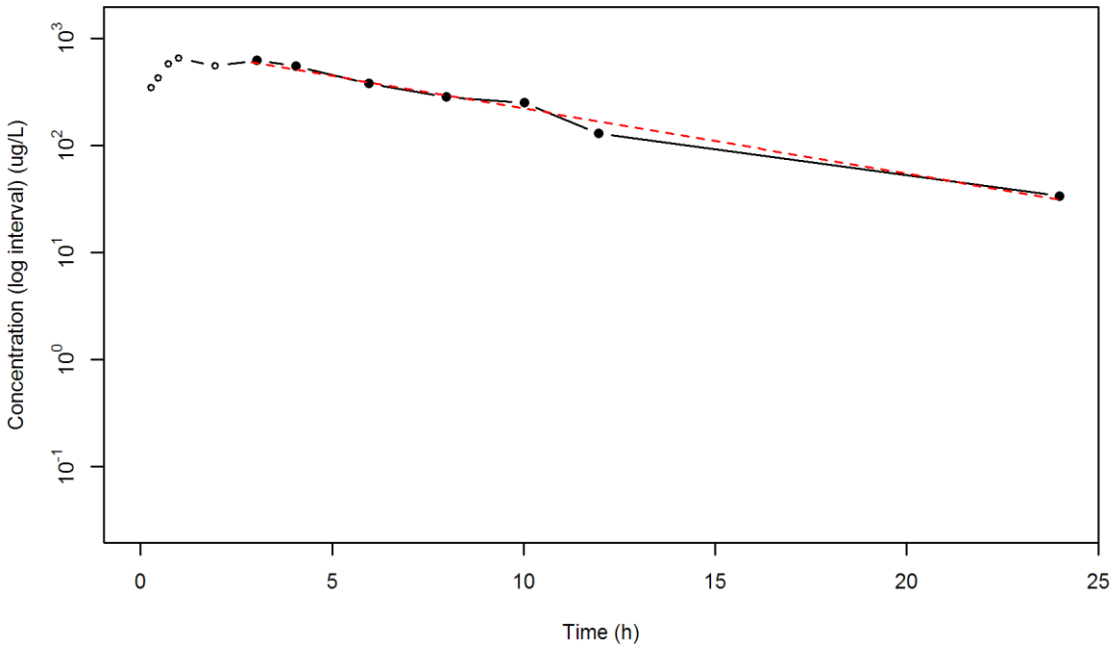
Calculated Values

CMAX	Max Conc	650.2400	ug/L
TMAX	Time of CMAX	1.0000	h
TLAG	Time Until First Nonzero Conc	0.0000	h
CLST	Last Nonzero Conc	33.8100	ug/L
CLSTP	Last Nonzero Conc Pred	31.1663	ug/L
TLST	Time of Last Nonzero Conc	23.9900	h
LAMZHL	Half-Life Lambda z	4.9353	h
LAMZ	Lambda z	0.1404	/h
LAMZLL	Lambda z Lower Limit	3.0400	h
LAMZUL	Lambda z Upper Limit	23.9900	h
LAMZNPT	Number of Points for Lambda z	7	
CORRXY	Correlation Between TimeX and Log ConcY	-0.9913	
R2	R Squared	0.9827	
R2ADJ	R Squared Adjusted	0.9792	
AUCLST	AUC to Last Nonzero Conc	5679.0390	h*ug/L

AUCALL	AUC All	5679.0390	h*ug/L
AUCIFO	AUC Infinity Obs	5919.7721	h*ug/L
AUCIFP	AUC Infinity Pred	5900.9487	h*ug/L
AUCPEO	AUC %Extrapolation Obs	4.0666	%
AUCPEP	AUC %Extrapolation Pred	3.7606	%
AUMCLST	AUMC to Last Nonzero Conc	36672.6423	h2*ug/L
AUMCIFO	AUMC Infinity Obs	44161.8895	h2*ug/L
AUMCIFP	AUMC Infinity Pred	43576.2917	h2*ug/L
AUMCPEO	AUMC %Extrapolation Obs	16.9586	%
AUMCPEP	AUMC % Extrapolation Pred	15.8427	%
VZFO	Vz Obs by F	0.0000	L
VZFP	Vz Pred by F	0.0000	L
CLFO	Total CL Obs by F	0.0000	L/h
CLFP	Total CL Pred by F	0.0000	L/h
MRTEVLST	MRT Extravasc to Last Nonzero Conc	6.4575	h
MRTEVIFO	MRT Extravasc Infinity Obs	7.4601	h
MRTEVIFP	MRT Extravasc Infinity Pred	7.3846	h

SUBJ 28, GRP RT, PRD 1, TRT R





SUBJ 28, GRP RT, PRD 2, TRT T

NONCOMPARTMENTAL ANALYSIS REPORT
Package version 0.3.9 (2018-05-10 KST)
R version 3.5.0 (2018-04-23)

Date and Time: 2018-06-19 09:49:36 Asia/Seoul

Calculation Setting

Drug Administration: Extravascular
Observation count excluding trailing zero: 13
Dose at time 0: 0 mg
AUC Calculation Method: Linear-up Linear-down
Weighting for lambda z: Uniform (Ordinary Least Square, OLS)
Lambda z selection criterion: Heighest adjusted R-squared value with precision=1e-4

Fitting, AUC, AUMC Result

	Time		Conc.	Pred.	Residual	AUC	AUMC
	0.0000		0.3200			0.0000	0.0000
	0.2500		431.2300			53.9438	13.4759
	0.5200		716.9600			208.9494	78.3605
	0.7400		662.0800			360.6438	173.2640
	1.0500		891.6300			601.4689	394.3173
	1.9800		666.9900			1326.2272	1443.7534
	2.9500		555.4100			1919.0912	2878.9167
	4.0000		498.0200			2472.1419	4784.9500
	6.0100		353.4800			3327.8994	8922.0272
	7.9800		192.2000			3865.3942	12525.3255
	10.0200	*	161.4900	154.8996	+6.590e+00	4226.1580	15740.2490
	11.9800	*	101.6000	106.6436	-5.044e+00	4483.9862	18518.8408
	24.0200	*	10.8400	10.7667	+7.328e-02	5160.8750	27413.6605

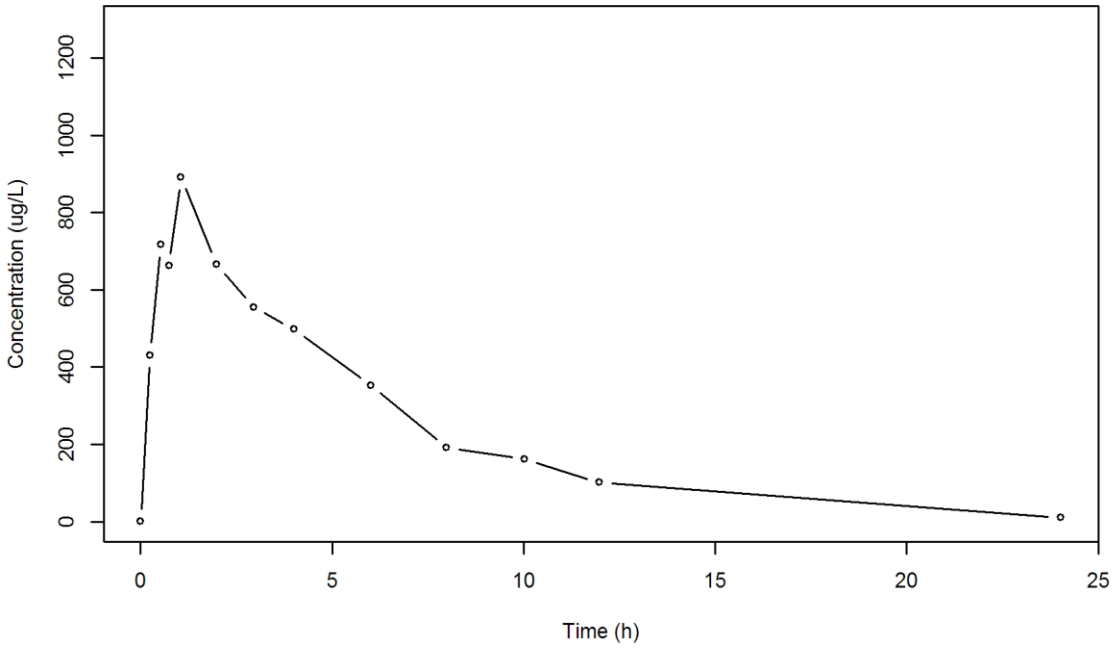
*: Used for the calculation of Lambda z.

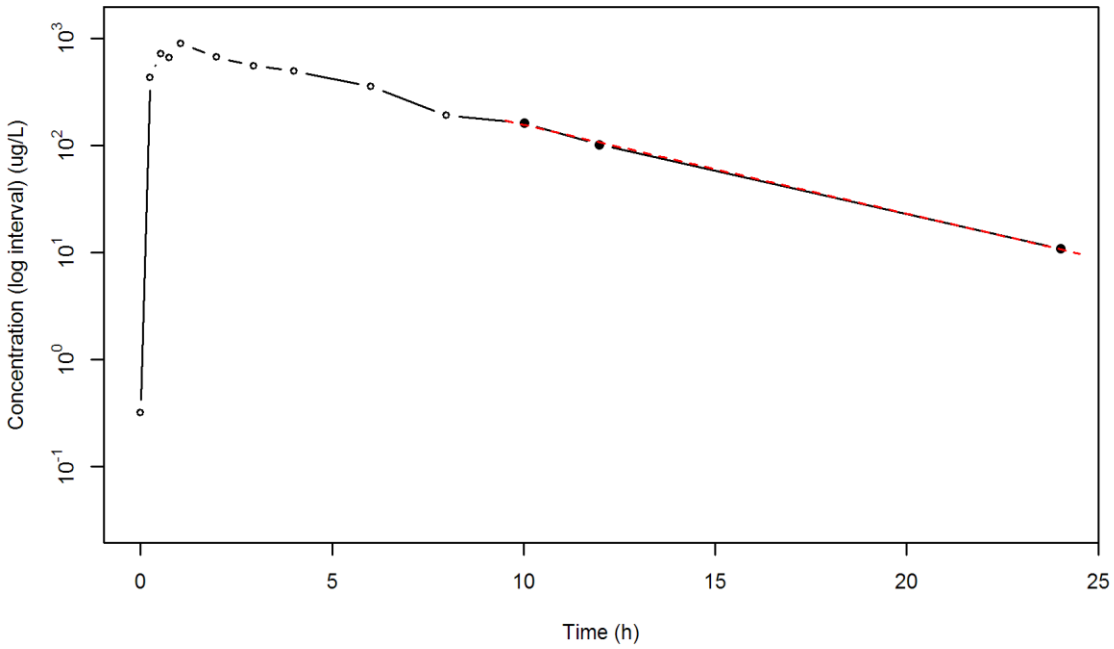
Calculated Values

CMAX	Max Conc	891.6300	ug/L
TMAX	Time of CMAX	1.0500	h
TLAG	Time Until First Nonzero Conc	0.0000	h
CLST	Last Nonzero Conc	10.8400	ug/L
CLSTP	Last Nonzero Conc Pred	10.7667	ug/L
TLST	Time of Last Nonzero Conc	24.0200	h
LAMZHL	Half-Life Lambda z	3.6395	h
LAMZ	Lambda z	0.1905	/h
LAMZLL	Lambda z Lower Limit	10.0200	h
LAMZUL	Lambda z Upper Limit	24.0200	h
LAMZNPT	Number of Points for Lambda z	3	
CORRXY	Correlation Between TimeX and Log ConcY	-0.9995	
R2	R Squared	0.9990	
R2ADJ	R Squared Adjusted	0.9980	
AUCLST	AUC to Last Nonzero Conc	5160.8750	h*ug/L

AUCALL	AUC All	5160.8750	h*ug/L
AUCIFO	AUC Infinity Obs	5217.7925	h*ug/L
AUCIFP	AUC Infinity Pred	5217.4077	h*ug/L
AUCPEO	AUC %Extrapolation Obs	1.0908	%
AUCPEP	AUC %Extrapolation Pred	1.0835	%
AUMCLST	AUMC to Last Nonzero Conc	27413.6605	h2*ug/L
AUMCIFO	AUMC Infinity Obs	29079.6740	h2*ug/L
AUMCIFP	AUMC Infinity Pred	29068.4118	h2*ug/L
AUMCPEO	AUMC %Extrapolation Obs	5.7291	%
AUMCPEP	AUMC % Extrapolation Pred	5.6926	%
VZFO	Vz Obs by F	0.0000	L
VZFP	Vz Pred by F	0.0000	L
CLFO	Total CL Obs by F	0.0000	L/h
CLFP	Total CL Pred by F	0.0000	L/h
MRTEVLST	MRT Extravasc to Last Nonzero Conc	5.3118	h
MRTEVIFO	MRT Extravasc Infinity Obs	5.5732	h
MRTEVIFP	MRT Extravasc Infinity Pred	5.5714	h

SUBJ 28, GRP RT, PRD 2, TRT T





SUBJ 29, GRP TR, PRD 1, TRT T

NONCOMPARTMENTAL ANALYSIS REPORT
Package version 0.3.9 (2018-05-10 KST)
R version 3.5.0 (2018-04-23)

Date and Time: 2018-06-19 09:49:36 Asia/Seoul

Calculation Setting

Drug Administration: Extravascular
Observation count excluding trailing zero: 13
Dose at time 0: 0 mg
AUC Calculation Method: Linear-up Linear-down
Weighting for lambda z: Uniform (Ordinary Least Square, OLS)
Lambda z selection criterion: Heighest adjusted R-squared value with precision=1e-4

Fitting, AUC, AUMC Result

	Time		Conc.	Pred.	Residual	AUC	AUMC
	0.0000		0.0000			0.0000	0.0000
	0.2000		277.2600			27.7260	5.5452
	0.5200		505.0000			152.8876	56.4335
	0.7300		573.4000			266.1196	127.9576
	1.0200		764.5300			460.1195	301.7260
	2.0200		770.6300			1227.6994	1469.9726
	3.0500		548.7100			1907.1596	3133.5452
	4.0200		486.2500			2409.1151	4893.2661
	6.0400		295.2800			3198.4605	8668.8645
	7.9900		175.5600			3657.5295	11775.4247
	9.9800	*	134.5100	138.2047	-3.695e+00	3966.0491	14506.8332
	11.9800	*	93.5400	90.6308	+2.909e+00	4194.0991	16969.8522
	24.0300	*	7.1000	7.1320	-3.200e-02	4800.4551	24749.4660

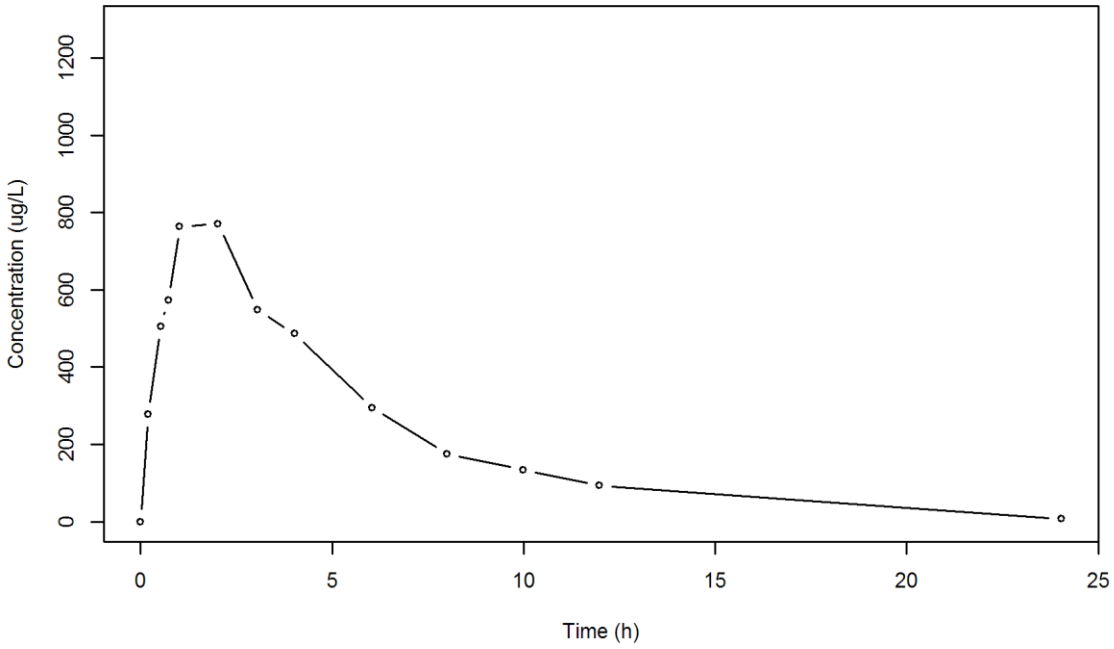
*: Used for the calculation of Lambda z.

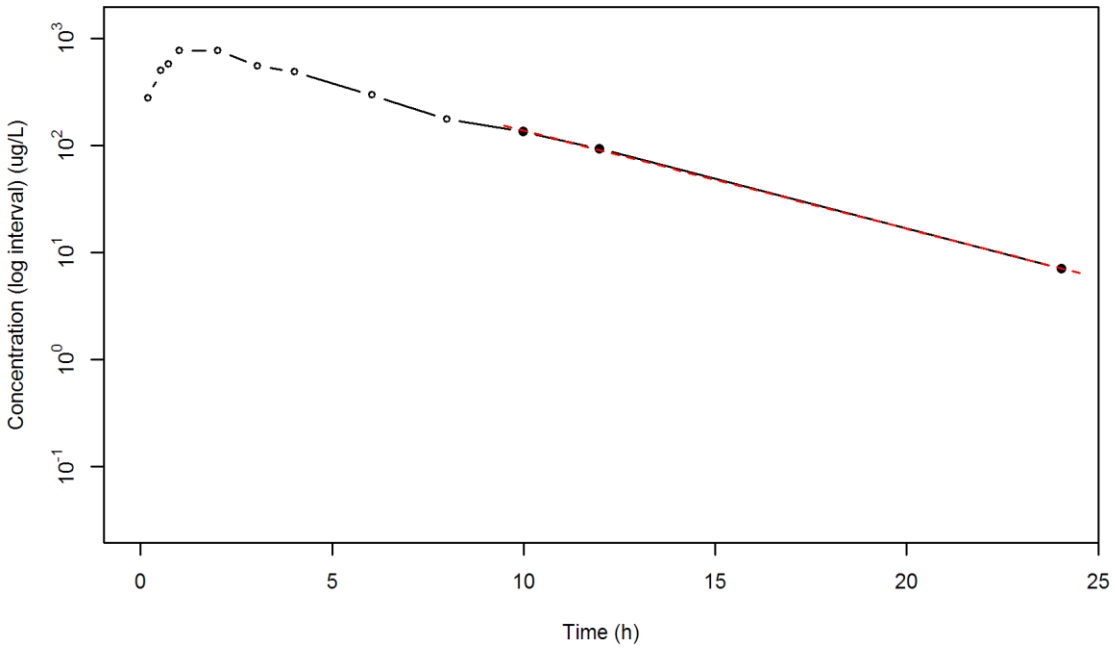
Calculated Values

CMAX	Max Conc	770.6300	ug/L
TMAX	Time of CMAX	2.0200	h
TLAG	Time Until First Nonzero Conc	0.0000	h
CLST	Last Nonzero Conc	7.1000	ug/L
CLSTP	Last Nonzero Conc Pred	7.1320	ug/L
TLST	Time of Last Nonzero Conc	24.0300	h
LAMZHL	Half-Life Lambda z	3.2855	h
LAMZ	Lambda z	0.2110	/h
LAMZLL	Lambda z Lower Limit	9.9800	h
LAMZUL	Lambda z Upper Limit	24.0300	h
LAMZNPT	Number of Points for Lambda z	3	
CORRXY	Correlation Between TimeX and Log ConcY	-0.9998	
R2	R Squared	0.9997	
R2ADJ	R Squared Adjusted	0.9993	
AUCLST	AUC to Last Nonzero Conc	4800.4551	h*ug/L

AUCALL	AUC All	4800.4551	h*ug/L
AUCIFO	AUC Infinity Obs	4834.1090	h*ug/L
AUCIFP	AUC Infinity Pred	4834.2607	h*ug/L
AUCPEO	AUC %Extrapolation Obs	0.6962	%
AUCPEP	AUC %Extrapolation Pred	0.6993	%
AUMCLST	AUMC to Last Nonzero Conc	24749.4660	h2*ug/L
AUMCIFO	AUMC Infinity Obs	25717.6882	h2*ug/L
AUMCIFP	AUMC Infinity Pred	25722.0526	h2*ug/L
AUMCPEO	AUMC %Extrapolation Obs	3.7648	%
AUMCPEP	AUMC % Extrapolation Pred	3.7811	%
VZFO	Vz Obs by F	0.0000	L
VZFP	Vz Pred by F	0.0000	L
CLFO	Total CL Obs by F	0.0000	L/h
CLFP	Total CL Pred by F	0.0000	L/h
MRTEVLST	MRT Extravasc to Last Nonzero Conc	5.1556	h
MRTEVIFO	MRT Extravasc Infinity Obs	5.3200	h
MRTEVIFP	MRT Extravasc Infinity Pred	5.3208	h

SUBJ 29, GRP TR, PRD 1, TRT T





SUBJ 29, GRP TR, PRD 2, TRT R

NONCOMPARTMENTAL ANALYSIS REPORT
Package version 0.3.9 (2018-05-10 KST)
R version 3.5.0 (2018-04-23)

Date and Time: 2018-06-19 09:49:36 Asia/Seoul

Calculation Setting

Drug Administration: Extravascular
Observation count excluding trailing zero: 13
Dose at time 0: 0 mg
AUC Calculation Method: Linear-up Linear-down
Weighting for lambda z: Uniform (Ordinary Least Square, OLS)
Lambda z selection criterion: Heighest adjusted R-squared value with precision=1e-4

Fitting, AUC, AUMC Result

	Time		Conc.	Pred.	Residual	AUC	AUMC
	0.0000		0.0000			0.0000	0.0000
	0.2700		423.2800			57.1428	15.4286
	0.5300		586.1800			188.3726	70.6735
	0.7500		729.7000			333.1194	165.0480
	1.0400		738.1700			545.9606	355.7189
	1.9500		683.3200			1192.7385	1311.2967
	2.9600		503.0100			1791.8352	2736.0954
	4.0300		475.5100			2315.3434	4557.8853
	5.9800		426.9500			3195.2419	8915.6150
	8.0100		249.6900			3882.0315	13537.0906
	10.0200	*	227.9200	215.1216	+1.280e+01	4362.0295	17842.2847
	12.0000	*	148.2200	158.5465	-1.033e+01	4734.4081	21864.0591
	23.9700	*	25.3000	25.0593	+2.407e-01	5772.9253	36138.7689

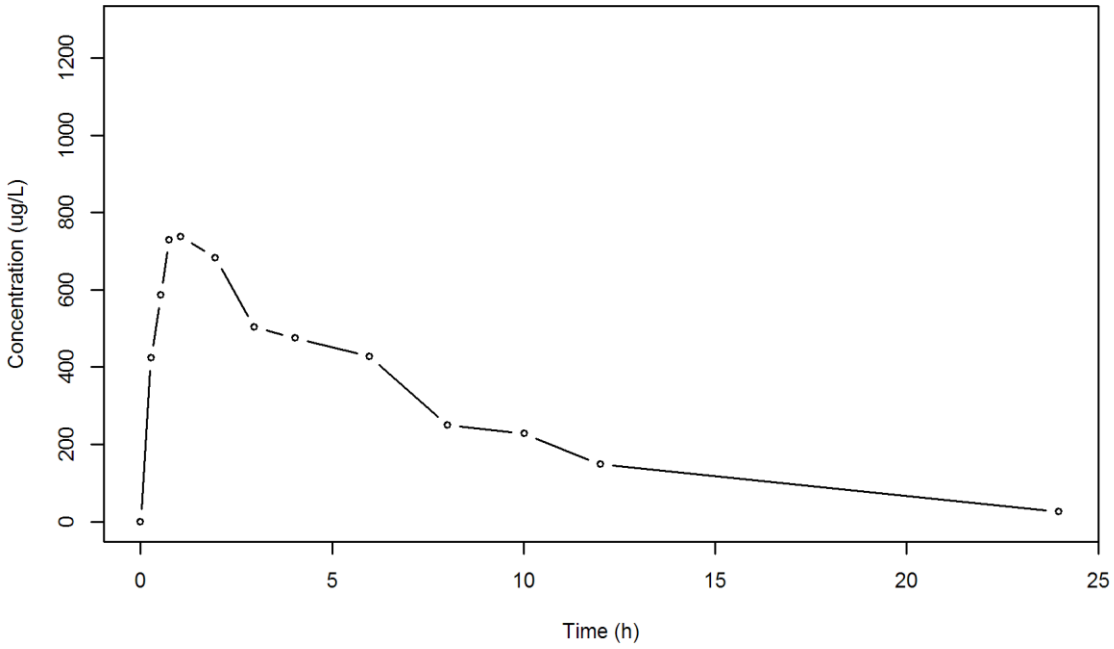
*: Used for the calculation of Lambda z.

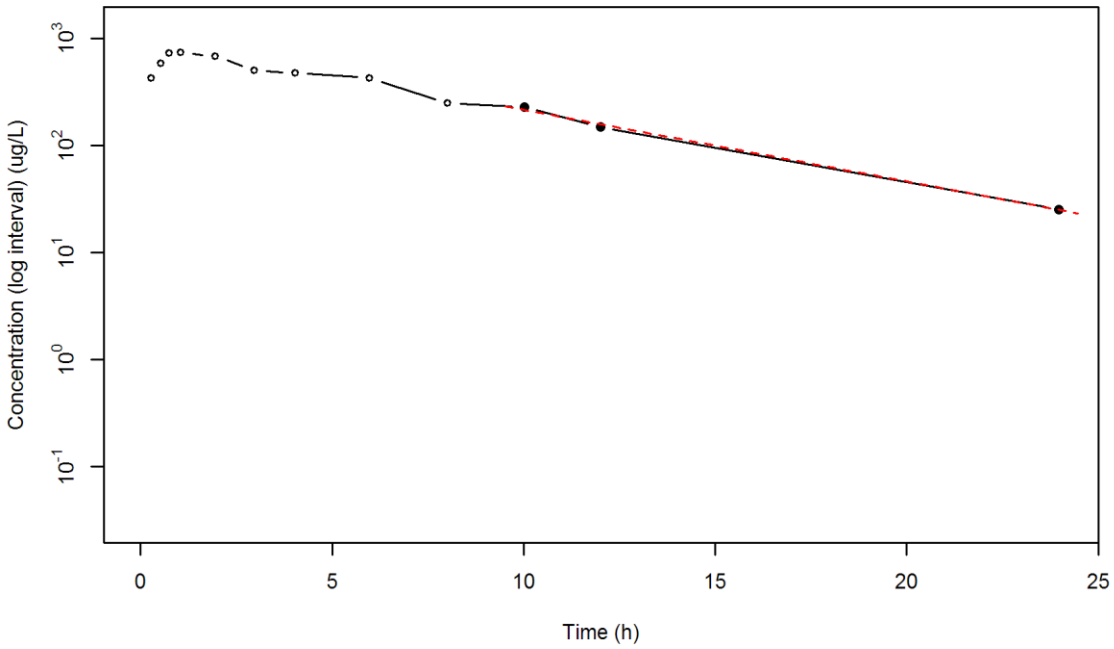
Calculated Values

CMAX	Max Conc	738.1700	ug/L
TMAX	Time of CMAX	1.0400	h
TLAG	Time Until First Nonzero Conc	0.0000	h
CLST	Last Nonzero Conc	25.3000	ug/L
CLSTP	Last Nonzero Conc Pred	25.0593	ug/L
TLST	Time of Last Nonzero Conc	23.9700	h
LAMZHL	Half-Life Lambda z	4.4975	h
LAMZ	Lambda z	0.1541	/h
LAMZLL	Lambda z Lower Limit	10.0200	h
LAMZUL	Lambda z Upper Limit	23.9700	h
LAMZNPT	Number of Points for Lambda z	3	
CORRXY	Correlation Between TimeX and Log ConcY	-0.9985	
R2	R Squared	0.9971	
R2ADJ	R Squared Adjusted	0.9941	
AUCLST	AUC to Last Nonzero Conc	5772.9253	h*ug/L

AUCALL	AUC All	5772.9253	h*ug/L
AUCIFO	AUC Infinity Obs	5937.0843	h*ug/L
AUCIFP	AUC Infinity Pred	5935.5225	h*ug/L
AUCPEO	AUC %Extrapolation Obs	2.7650	%
AUCPEP	AUC %Extrapolation Pred	2.7394	%
AUMCLST	AUMC to Last Nonzero Conc	36138.7689	h2*ug/L
AUMCIFO	AUMC Infinity Obs	41138.8045	h2*ug/L
AUMCIFP	AUMC Infinity Pred	41091.2347	h2*ug/L
AUMCPEO	AUMC %Extrapolation Obs	12.1541	%
AUMCPEP	AUMC % Extrapolation Pred	12.0524	%
VZFO	Vz Obs by F	0.0000	L
VZFP	Vz Pred by F	0.0000	L
CLFO	Total CL Obs by F	0.0000	L/h
CLFP	Total CL Pred by F	0.0000	L/h
MRTEVLST	MRT Extravasc to Last Nonzero Conc	6.2600	h
MRTEVIFO	MRT Extravasc Infinity Obs	6.9291	h
MRTEVIFP	MRT Extravasc Infinity Pred	6.9229	h

SUBJ 29, GRP TR, PRD 2, TRT R





SUBJ 30, GRP RT, PRD 1, TRT R

NONCOMPARTMENTAL ANALYSIS REPORT
Package version 0.3.9 (2018-05-10 KST)
R version 3.5.0 (2018-04-23)

Date and Time: 2018-06-19 09:49:36 Asia/Seoul

Calculation Setting

Drug Administration: Extravascular
Observation count excluding trailing zero: 13
Dose at time 0: 0 mg
AUC Calculation Method: Linear-up Linear-down
Weighting for lambda z: Uniform (Ordinary Least Square, OLS)
Lambda z selection criterion: Heighest adjusted R-squared value with precision=1e-4

Fitting, AUC, AUMC Result

	Time	Conc.	Pred.	Residual	AUC	AUMC
	0.0000	0.0000			0.0000	0.0000
	0.2000	357.1700			35.7170	7.1434
	0.4600	709.6900			174.4088	58.8693
	0.7700	1034.1100			444.6978	232.8912
*	0.9500	807.3700	897.4828	-9.011e+01	610.4310	373.5852
*	2.0500	743.8500	692.9147	+5.094e+01	1463.6020	1634.1269
*	2.9800	525.0100	556.7958	-3.179e+01	2053.6219	3070.7082
*	4.0400	534.2400	433.9452	+1.003e+02	2615.0244	5043.8237
*	6.0300	288.5100	271.7628	+1.675e+01	3433.6607	8922.3784
*	7.9700	178.8500	172.2074	+6.643e+00	3886.9999	11992.5737
*	10.0000	82.1400	106.8370	-2.470e+01	4151.9047	14273.1107
*	12.0400	65.9400	66.1257	-1.857e-01	4302.9463	15920.7347
*	24.0000	4.1900	3.9706	+2.194e-01	4722.3237	21269.7107

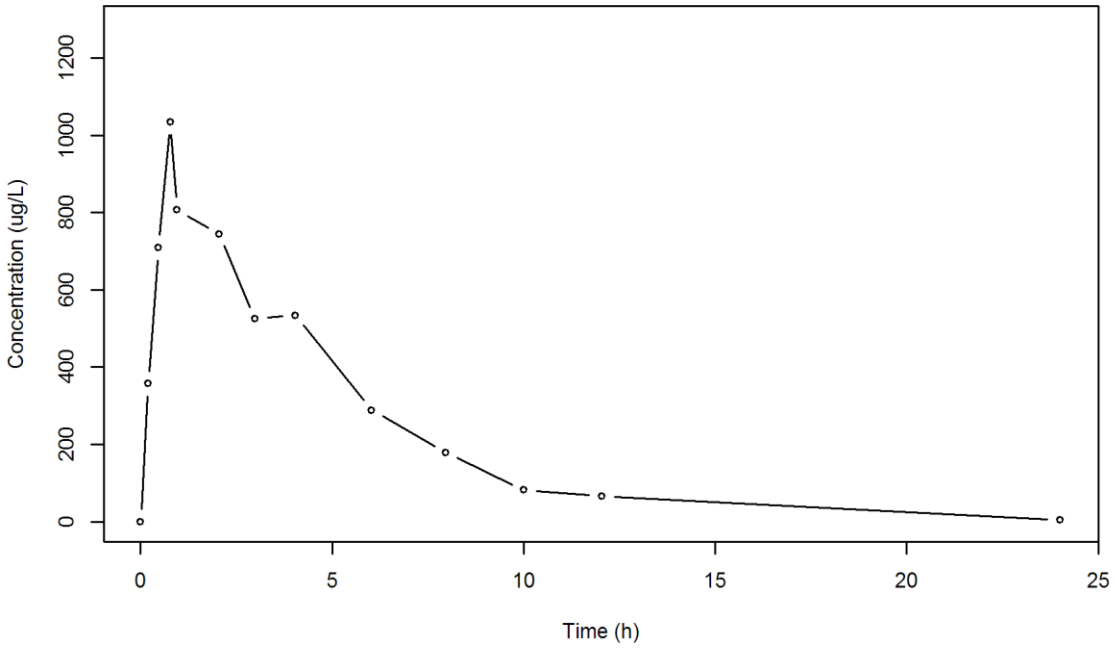
*: Used for the calculation of Lambda z.

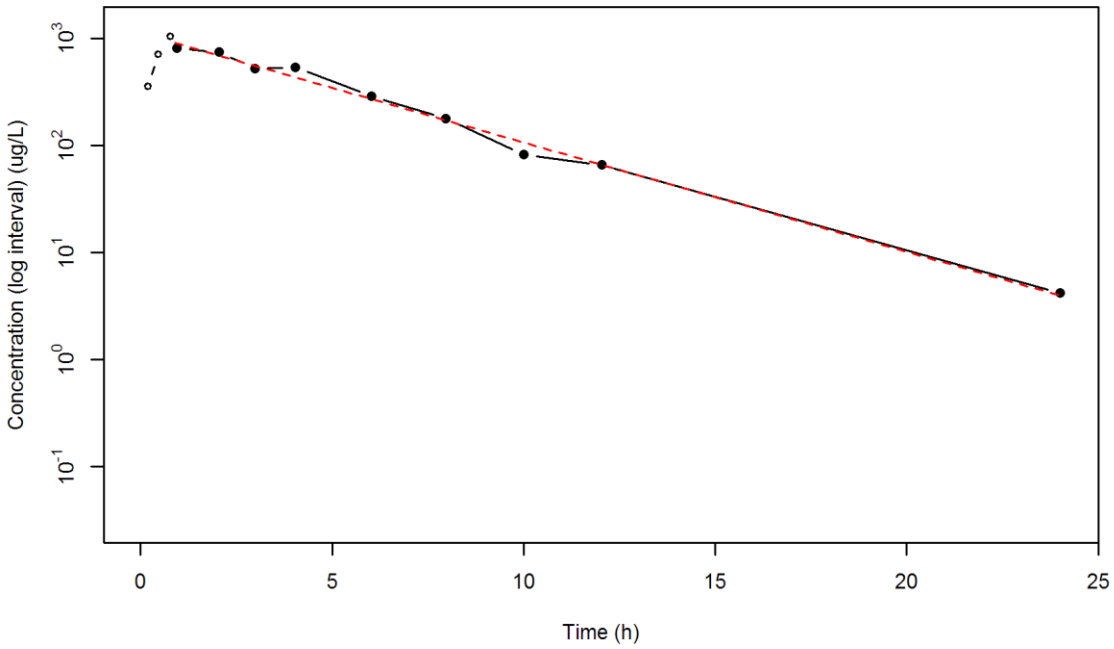
Calculated Values

CMAX	Max Conc	1034.1100	ug/L
TMAX	Time of CMAX	0.7700	h
TLAG	Time Until First Nonzero Conc	0.0000	h
CLST	Last Nonzero Conc	4.1900	ug/L
CLSTP	Last Nonzero Conc Pred	3.9706	ug/L
TLST	Time of Last Nonzero Conc	24.0000	h
LAMZHL	Half-Life Lambda z	2.9474	h
LAMZ	Lambda z	0.2352	/h
LAMZLL	Lambda z Lower Limit	0.9500	h
LAMZUL	Lambda z Upper Limit	24.0000	h
LAMZNPT	Number of Points for Lambda z	9	
CORRXY	Correlation Between TimeX and Log ConcY	-0.9969	
R2	R Squared	0.9938	
R2ADJ	R Squared Adjusted	0.9929	
AUCLST	AUC to Last Nonzero Conc	4722.3237	h*ug/L

AUCALL	AUC All	4722.3237	h*ug/L
AUCIFO	AUC Infinity Obs	4740.1406	h*ug/L
AUCIFP	AUC Infinity Pred	4739.2077	h*ug/L
AUCPEO	AUC %Extrapolation Obs	0.3759	%
AUCPEP	AUC %Extrapolation Pred	0.3563	%
AUMCLST	AUMC to Last Nonzero Conc	21269.7107	h2*ug/L
AUMCIFO	AUMC Infinity Obs	21773.0778	h2*ug/L
AUMCIFP	AUMC Infinity Pred	21746.7228	h2*ug/L
AUMCPEO	AUMC %Extrapolation Obs	2.3119	%
AUMCPEP	AUMC % Extrapolation Pred	2.1935	%
VZFO	Vz Obs by F	0.0000	L
VZFP	Vz Pred by F	0.0000	L
CLFO	Total CL Obs by F	0.0000	L/h
CLFP	Total CL Pred by F	0.0000	L/h
MRTEVLST	MRT Extravasc to Last Nonzero Conc	4.5041	h
MRTEVIFO	MRT Extravasc Infinity Obs	4.5933	h
MRTEVIFP	MRT Extravasc Infinity Pred	4.5887	h

SUBJ 30, GRP RT, PRD 1, TRT R





SUBJ 30, GRP RT, PRD 2, TRT T

NONCOMPARTMENTAL ANALYSIS REPORT
Package version 0.3.9 (2018-05-10 KST)
R version 3.5.0 (2018-04-23)

Date and Time: 2018-06-19 09:49:36 Asia/Seoul

Calculation Setting

Drug Administration: Extravascular
Observation count excluding trailing zero: 13
Dose at time 0: 0 mg
AUC Calculation Method: Linear-up Linear-down
Weighting for lambda z: Uniform (Ordinary Least Square, OLS)
Lambda z selection criterion: Heighest adjusted R-squared value with precision=1e-4

Fitting, AUC, AUMC Result

	Time		Conc.	Pred.	Residual	AUC	AUMC
	0.0000		0.0000			0.0000	0.0000
	0.2400		398.5100			47.8212	11.4771
	0.5200		461.4100			168.2100	58.4577
	0.7400		527.8600			277.0297	127.8181
	1.0300		569.2200			436.1063	269.4705
	2.0100		467.3900			944.0452	1017.0883
	2.9700		280.5500			1303.0564	1867.9782
	4.0400		301.0100			1614.1910	2964.3611
	5.9800		140.6800			2042.6303	4959.9875
	7.9700		101.7000			2283.7984	6603.5439
	9.9700	*	78.7700	77.1956	+1.574e+00	2464.2684	8199.4298
	11.9700	*	47.7100	48.8464	-1.136e+00	2590.7484	9555.8554
	24.0200	*	3.1100	3.0996	+1.040e-02	2896.9389	13446.7455

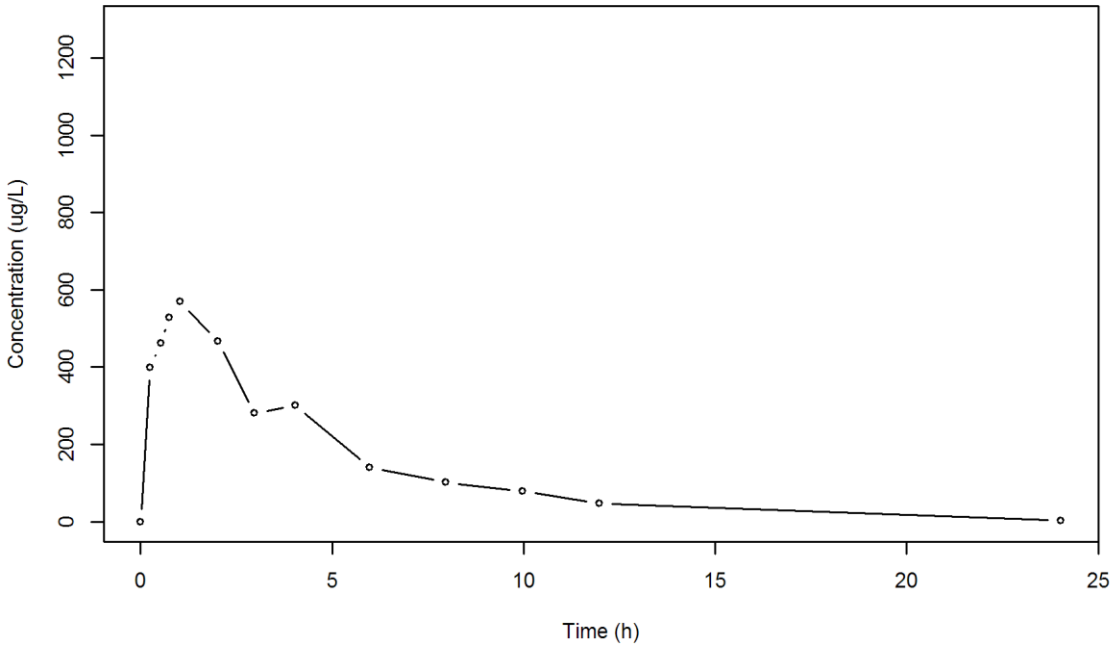
*: Used for the calculation of Lambda z.

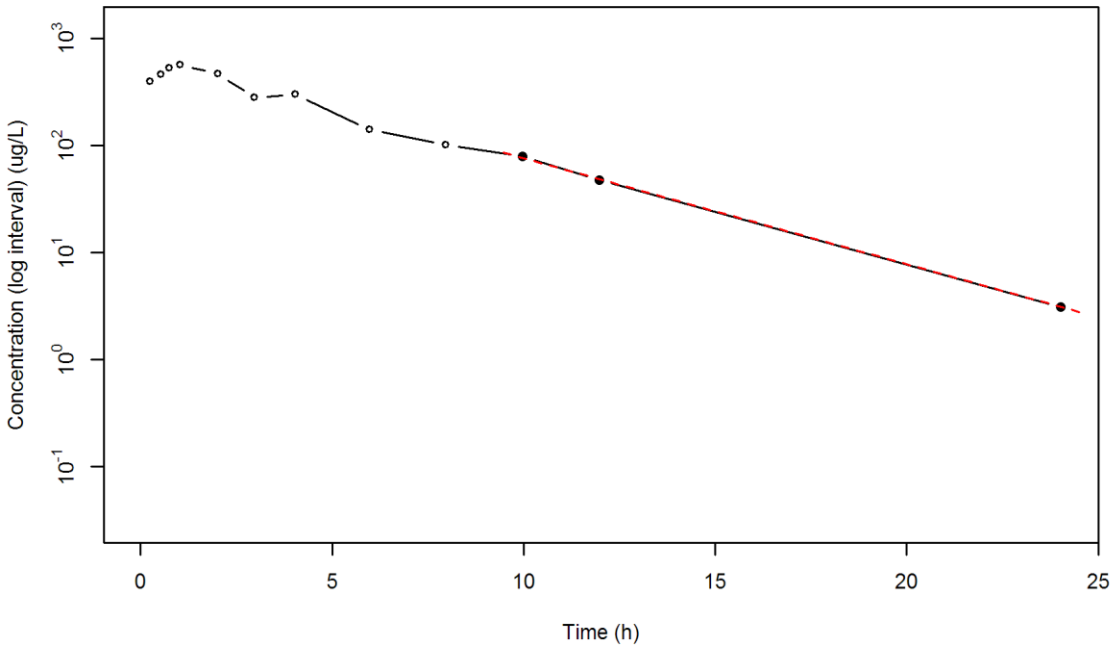
Calculated Values

CMAX	Max Conc	569.2200	ug/L
TMAX	Time of CMAX	1.0300	h
TLAG	Time Until First Nonzero Conc	0.0000	h
CLST	Last Nonzero Conc	3.1100	ug/L
CLSTP	Last Nonzero Conc Pred	3.0996	ug/L
TLST	Time of Last Nonzero Conc	24.0200	h
LAMZHL	Half-Life Lambda z	3.0291	h
LAMZ	Lambda z	0.2288	/h
LAMZLL	Lambda z Lower Limit	9.9700	h
LAMZUL	Lambda z Upper Limit	24.0200	h
LAMZNPT	Number of Points for Lambda z	3	
CORRXY	Correlation Between TimeX and Log ConcY	-0.9999	
R2	R Squared	0.9998	
R2ADJ	R Squared Adjusted	0.9997	
AUCLST	AUC to Last Nonzero Conc	2896.9389	h*ug/L

AUCALL	AUC All	2896.9389	h*ug/L
AUCIFO	AUC Infinity Obs	2910.5297	h*ug/L
AUCIFP	AUC Infinity Pred	2910.4843	h*ug/L
AUCPEO	AUC %Extrapolation Obs	0.4670	%
AUCPEP	AUC %Extrapolation Pred	0.4654	%
AUMCLST	AUMC to Last Nonzero Conc	13446.7455	h2*ug/L
AUMCIFO	AUMC Infinity Obs	13832.5899	h2*ug/L
AUMCIFP	AUMC Infinity Pred	13831.2992	h2*ug/L
AUMCPEO	AUMC %Extrapolation Obs	2.7894	%
AUMCPEP	AUMC % Extrapolation Pred	2.7803	%
VZFO	Vz Obs by F	0.0000	L
VZFP	Vz Pred by F	0.0000	L
CLFO	Total CL Obs by F	0.0000	L/h
CLFP	Total CL Pred by F	0.0000	L/h
MRTEVLST	MRT Extravasc to Last Nonzero Conc	4.6417	h
MRTEVIFO	MRT Extravasc Infinity Obs	4.7526	h
MRTEVIFP	MRT Extravasc Infinity Pred	4.7522	h

SUBJ 30, GRP RT, PRD 2, TRT T





SUBJ 31, GRP RT, PRD 1, TRT R

NONCOMPARTMENTAL ANALYSIS REPORT
Package version 0.3.9 (2018-05-10 KST)
R version 3.5.0 (2018-04-23)

Date and Time: 2018-06-19 09:49:36 Asia/Seoul

Calculation Setting

Drug Administration: Extravascular
Observation count excluding trailing zero: 13
Dose at time 0: 0 mg
AUC Calculation Method: Linear-up Linear-down
Weighting for lambda z: Uniform (Ordinary Least Square, OLS)
Lambda z selection criterion: Heighest adjusted R-squared value with precision=1e-4

Fitting, AUC, AUMC Result

	Time		Conc.	Pred.	Residual	AUC	AUMC
	0.0000		0.2400			0.0000	0.0000
	0.2700		435.1400			58.7763	15.8609
	0.4800		593.4700			166.7804	58.1080
	0.7400		777.3200			344.9831	169.9187
	1.0100		863.8700			566.5437	365.3616
	1.9800		1043.8200			1491.7734	1790.9087
	3.0300		930.2600			2528.1653	4355.7707
	4.0500		784.1300			3402.5043	7412.9220
	5.9500		593.3000			4711.0628	13783.4904
	7.9800	*	358.3100	351.9613	+6.349e+00	5676.9469	20268.7809
	9.9800	*	265.1300	259.8239	+5.306e+00	6300.3869	25774.0921
	11.9800	*	182.9200	191.8064	-8.886e+00	6748.4369	30611.4711
	23.9600	*	31.4300	31.1377	+2.923e-01	8032.3934	48248.6931

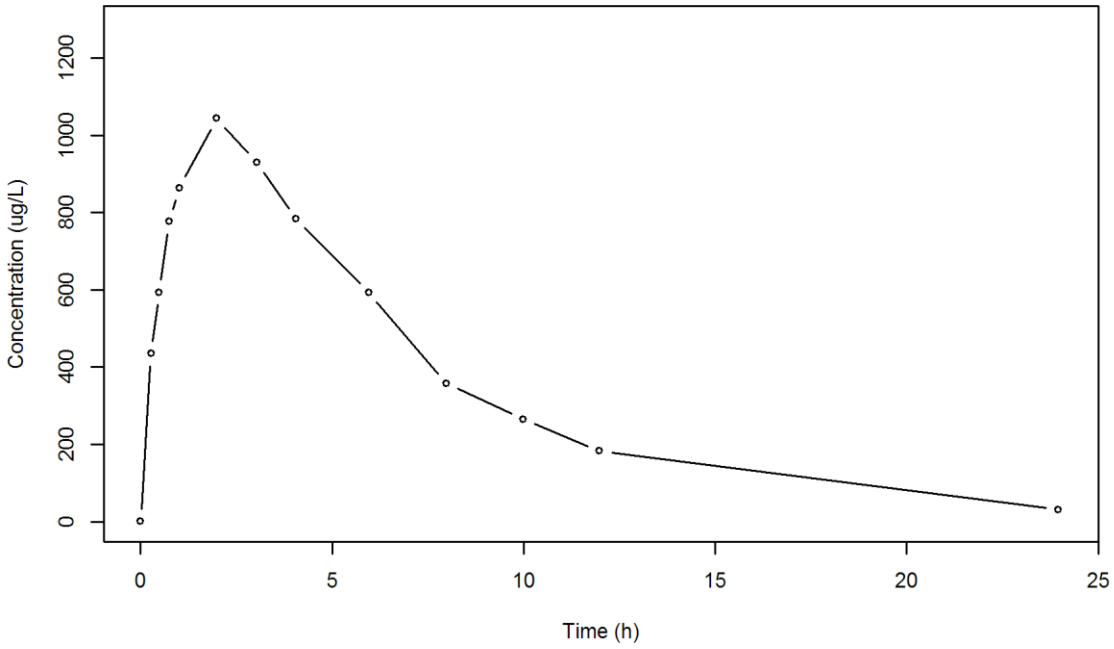
*: Used for the calculation of Lambda z.

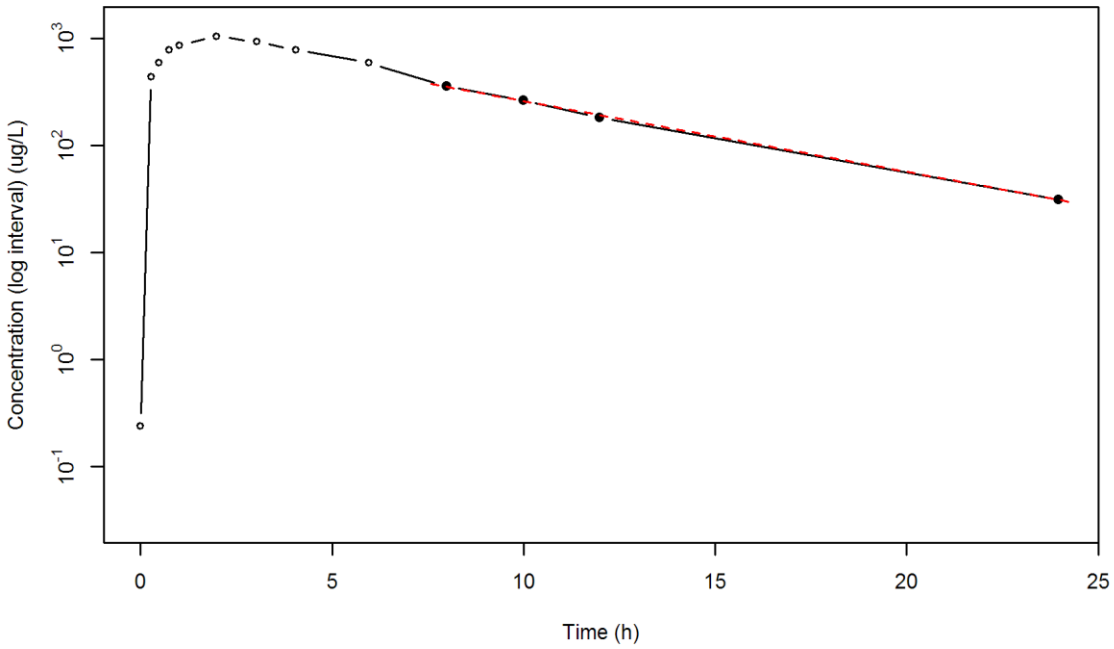
Calculated Values

CMAX	Max Conc	1043.8200	ug/L
TMAX	Time of CMAX	1.9800	h
TLAG	Time Until First Nonzero Conc	0.0000	h
CLST	Last Nonzero Conc	31.4300	ug/L
CLSTP	Last Nonzero Conc Pred	31.1377	ug/L
TLST	Time of Last Nonzero Conc	23.9600	h
LAMZHL	Half-Life Lambda z	4.5674	h
LAMZ	Lambda z	0.1518	/h
LAMZLL	Lambda z Lower Limit	7.9800	h
LAMZUL	Lambda z Upper Limit	23.9600	h
LAMZNPT	Number of Points for Lambda z	4	
CORRXY	Correlation Between TimeX and Log ConcY	-0.9996	
R2	R Squared	0.9991	
R2ADJ	R Squared Adjusted	0.9987	
AUCLST	AUC to Last Nonzero Conc	8032.3934	h*ug/L

AUCALL	AUC All	8032.3934	h*ug/L
AUCIFO	AUC Infinity Obs	8239.4986	h*ug/L
AUCIFP	AUC Infinity Pred	8237.5724	h*ug/L
AUCPEO	AUC %Extrapolation Obs	2.5136	%
AUCPEP	AUC %Extrapolation Pred	2.4908	%
AUMCLST	AUMC to Last Nonzero Conc	48248.6931	h2*ug/L
AUMCIFO	AUMC Infinity Obs	54575.6364	h2*ug/L
AUMCIFP	AUMC Infinity Pred	54516.7921	h2*ug/L
AUMCPEO	AUMC %Extrapolation Obs	11.5930	%
AUMCPEP	AUMC % Extrapolation Pred	11.4976	%
VZFO	Vz Obs by F	0.0000	L
VZFP	Vz Pred by F	0.0000	L
CLFO	Total CL Obs by F	0.0000	L/h
CLFP	Total CL Pred by F	0.0000	L/h
MRTEVLST	MRT Extravasc to Last Nonzero Conc	6.0068	h
MRTEVIFO	MRT Extravasc Infinity Obs	6.6237	h
MRTEVIFP	MRT Extravasc Infinity Pred	6.6181	h

SUBJ 31, GRP RT, PRD 1, TRT R





SUBJ 31, GRP RT, PRD 2, TRT T

NONCOMPARTMENTAL ANALYSIS REPORT
Package version 0.3.9 (2018-05-10 KST)
R version 3.5.0 (2018-04-23)

Date and Time: 2018-06-19 09:49:36 Asia/Seoul

Calculation Setting

Drug Administration: Extravascular
Observation count excluding trailing zero: 13
Dose at time 0: 0 mg
AUC Calculation Method: Linear-up Linear-down
Weighting for lambda z: Uniform (Ordinary Least Square, OLS)
Lambda z selection criterion: Heighest adjusted R-squared value with precision=1e-4

Fitting, AUC, AUMC Result

	Time		Conc.	Pred.	Residual	AUC	AUMC
	0.0000		0.0000			0.0000	0.0000
	0.2100		435.4500			45.7222	9.6017
	0.5400		974.6700			278.3921	111.5331
	0.7100		1043.0800			449.9008	219.2203
	0.9600		1141.4300			722.9646	448.7653
	1.9900		1066.1800			1859.8837	2105.7629
	3.0000		805.4500			2805.0569	4397.4772
	3.9600		650.5400			3503.9321	6793.8716
	6.0400		418.5500			4615.7857	12102.2192
	7.9800	*	200.7300	203.0888	-2.359e+00	5216.4873	16108.1906
	10.0000	*	112.9000	110.4374	+2.463e+00	5533.2536	18866.3243
	11.9900	*	59.9900	60.6005	-6.105e-01	5705.2791	20705.3630
	24.0400	*	1.6000	1.6004	-3.933e-04	6076.3589	25270.7712

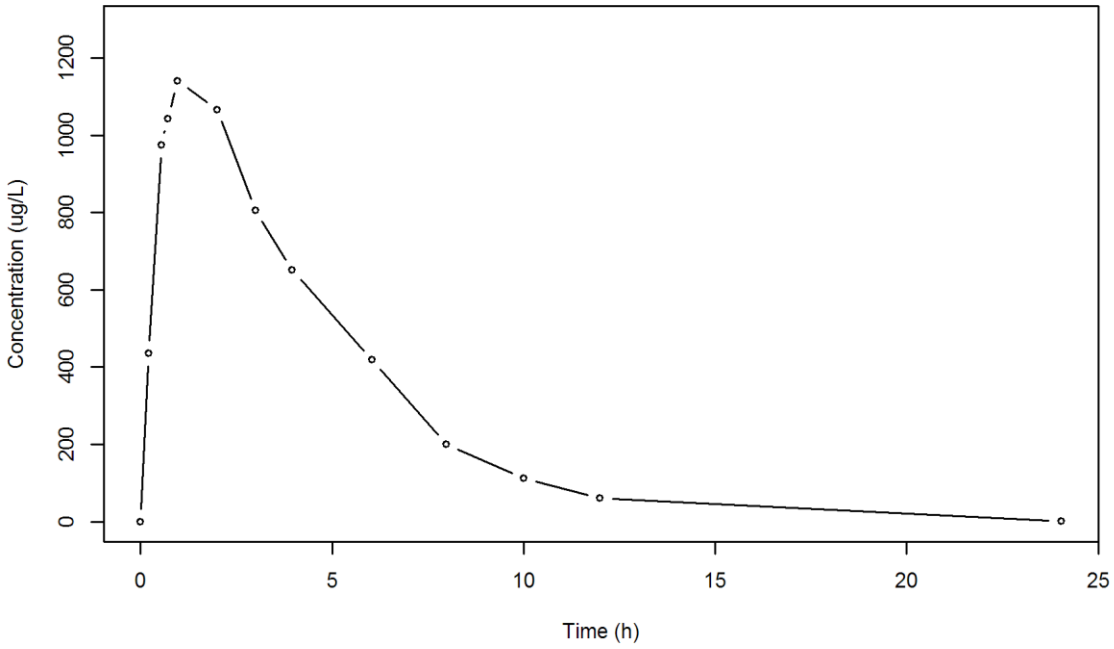
*: Used for the calculation of Lambda z.

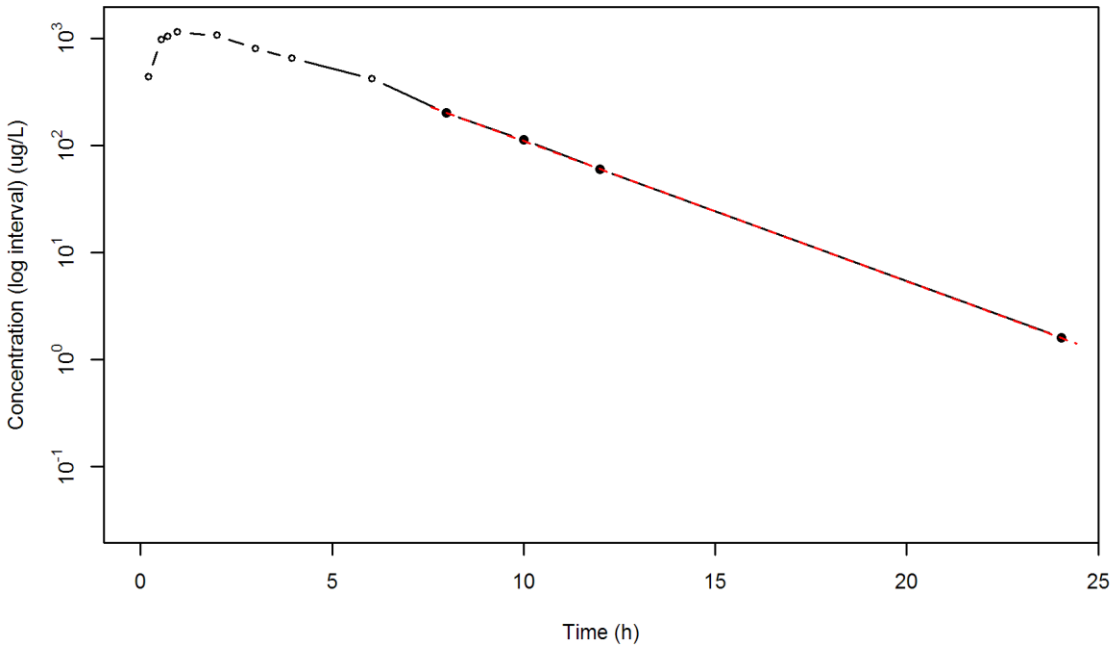
Calculated Values

CMAX	Max Conc	1141.4300	ug/L
TMAX	Time of CMAX	0.9600	h
TLAG	Time Until First Nonzero Conc	0.0000	h
CLST	Last Nonzero Conc	1.6000	ug/L
CLSTP	Last Nonzero Conc Pred	1.6004	ug/L
TLST	Time of Last Nonzero Conc	24.0400	h
LAMZHL	Half-Life Lambda z	2.2984	h
LAMZ	Lambda z	0.3016	/h
LAMZLL	Lambda z Lower Limit	7.9800	h
LAMZUL	Lambda z Upper Limit	24.0400	h
LAMZNPT	Number of Points for Lambda z	4	
CORRXY	Correlation Between TimeX and Log ConcY	-1.0000	
R2	R Squared	0.9999	
R2ADJ	R Squared Adjusted	0.9999	
AUCLST	AUC to Last Nonzero Conc	6076.3589	h*ug/L

AUCALL	AUC All	6076.3589	h*ug/L
AUCIFO	AUC Infinity Obs	6081.6642	h*ug/L
AUCIFP	AUC Infinity Pred	6081.6655	h*ug/L
AUCPEO	AUC %Extrapolation Obs	0.0872	%
AUCPEP	AUC %Extrapolation Pred	0.0873	%
AUMCLST	AUMC to Last Nonzero Conc	25270.7712	h2*ug/L
AUMCIFO	AUMC Infinity Obs	25415.9041	h2*ug/L
AUMCIFP	AUMC Infinity Pred	25415.9398	h2*ug/L
AUMCPEO	AUMC %Extrapolation Obs	0.5710	%
AUMCPEP	AUMC % Extrapolation Pred	0.5712	%
VZFO	Vz Obs by F	0.0000	L
VZFP	Vz Pred by F	0.0000	L
CLFO	Total CL Obs by F	0.0000	L/h
CLFP	Total CL Pred by F	0.0000	L/h
MRTEVLST	MRT Extravasc to Last Nonzero Conc	4.1589	h
MRTEVIFO	MRT Extravasc Infinity Obs	4.1791	h
MRTEVIFP	MRT Extravasc Infinity Pred	4.1791	h

SUBJ 31, GRP RT, PRD 2, TRT T





SUBJ 32, GRP TR, PRD 1, TRT T

NONCOMPARTMENTAL ANALYSIS REPORT
Package version 0.3.9 (2018-05-10 KST)
R version 3.5.0 (2018-04-23)

Date and Time: 2018-06-19 09:49:36 Asia/Seoul

Calculation Setting

Drug Administration: Extravascular
Observation count excluding trailing zero: 13
Dose at time 0: 0 mg
AUC Calculation Method: Linear-up Linear-down
Weighting for lambda z: Uniform (Ordinary Least Square, OLS)
Lambda z selection criterion: Heighest adjusted R-squared value with precision=1e-4

Fitting, AUC, AUMC Result

	Time		Conc.	Pred.	Residual	AUC	AUMC
	0.0000		0.1700			0.0000	0.0000
	0.2200		175.9400			19.3721	4.2577
	0.5000		363.2800			94.8629	35.1063
	0.7500		341.9000			183.0104	89.8644
	1.0300		463.3700			295.7482	192.5819
	2.0300		606.1100			830.4882	1046.4191
	2.9700		608.9300			1401.5570	2474.7140
	3.9700	*	458.8700	445.3766	+1.349e+01	1935.4570	4289.8320
	5.9600	*	318.4700	292.0968	+2.637e+01	2708.9103	7991.0281
	7.9600	*	208.7200	191.1638	+1.756e+01	3236.1003	11550.5205
	9.9700	*	98.0600	124.8430	-2.678e+01	3544.4142	14202.7853
	11.9900	*	80.1500	81.3583	-1.208e+00	3724.4063	16160.8286
	23.9800	*	6.7500	6.4061	+3.439e-01	4245.3718	22892.3952

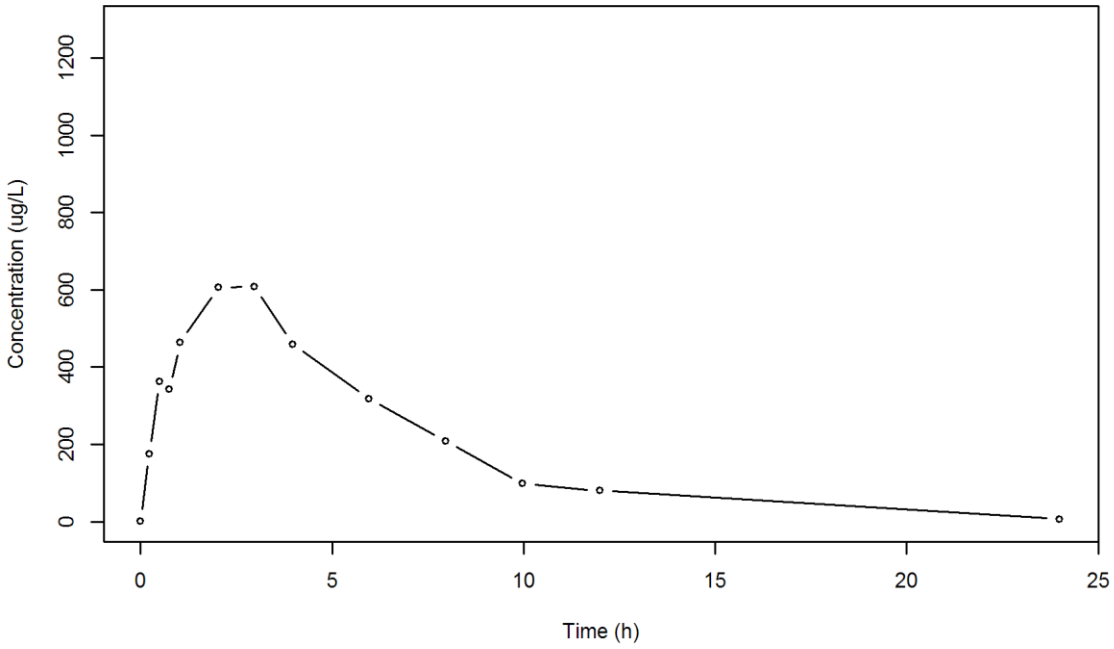
*: Used for the calculation of Lambda z.

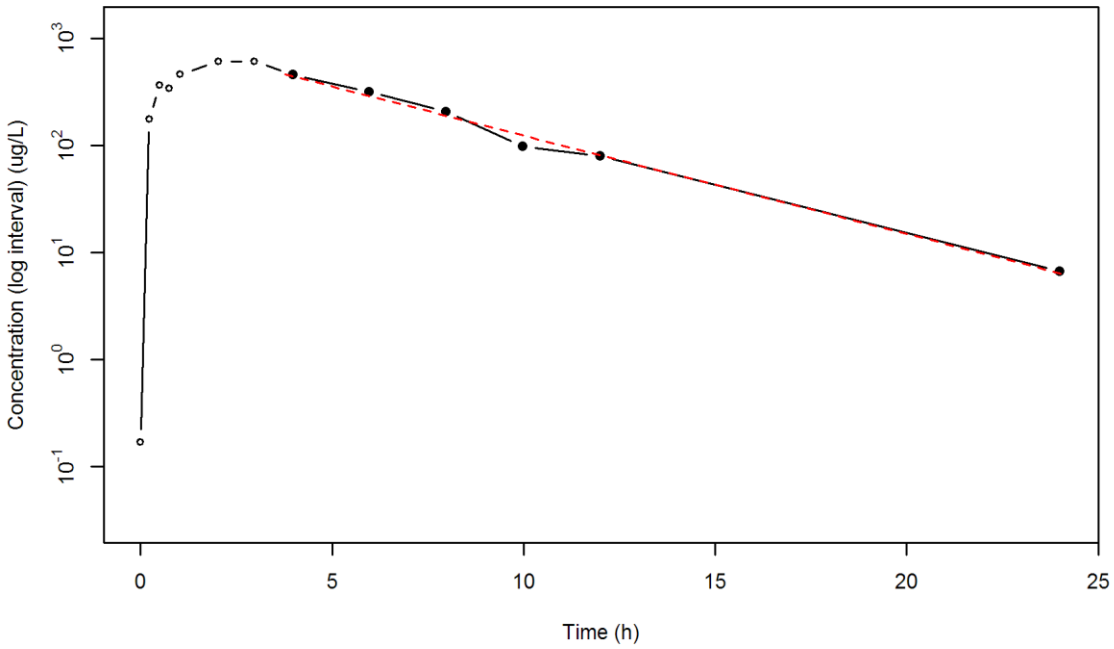
Calculated Values

CMAX	Max Conc	608.9300	ug/L
TMAX	Time of CMAX	2.9700	h
TLAG	Time Until First Nonzero Conc	0.0000	h
CLST	Last Nonzero Conc	6.7500	ug/L
CLSTP	Last Nonzero Conc Pred	6.4061	ug/L
TLST	Time of Last Nonzero Conc	23.9800	h
LAMZHL	Half-Life Lambda z	3.2699	h
LAMZ	Lambda z	0.2120	/h
LAMZLL	Lambda z Lower Limit	3.9700	h
LAMZUL	Lambda z Upper Limit	23.9800	h
LAMZNPT	Number of Points for Lambda z	6	
CORRXY	Correlation Between TimeX and Log ConcY	-0.9966	
R2	R Squared	0.9933	
R2ADJ	R Squared Adjusted	0.9916	
AUCLST	AUC to Last Nonzero Conc	4245.3718	h*ug/L

AUCALL	AUC All	4245.3718	h*ug/L
AUCIFO	AUC Infinity Obs	4277.2148	h*ug/L
AUCIFP	AUC Infinity Pred	4275.5926	h*ug/L
AUCPEO	AUC %Extrapolation Obs	0.7445	%
AUCPEP	AUC %Extrapolation Pred	0.7068	%
AUMCLST	AUMC to Last Nonzero Conc	22892.3952	h2*ug/L
AUMCIFO	AUMC Infinity Obs	23806.2104	h2*ug/L
AUMCIFP	AUMC Infinity Pred	23759.6572	h2*ug/L
AUMCPEO	AUMC %Extrapolation Obs	3.8386	%
AUMCPEP	AUMC % Extrapolation Pred	3.6501	%
VZFO	Vz Obs by F	0.0000	L
VZFP	Vz Pred by F	0.0000	L
CLFO	Total CL Obs by F	0.0000	L/h
CLFP	Total CL Pred by F	0.0000	L/h
MRTEVLST	MRT Extravasc to Last Nonzero Conc	5.3923	h
MRTEVIFO	MRT Extravasc Infinity Obs	5.5658	h
MRTEVIFP	MRT Extravasc Infinity Pred	5.5570	h

SUBJ 32, GRP TR, PRD 1, TRT T





SUBJ 32, GRP TR, PRD 2, TRT R

NONCOMPARTMENTAL ANALYSIS REPORT
Package version 0.3.9 (2018-05-10 KST)
R version 3.5.0 (2018-04-23)

Date and Time: 2018-06-19 09:49:36 Asia/Seoul

Calculation Setting

Drug Administration: Extravascular
Observation count excluding trailing zero: 13
Dose at time 0: 0 mg
AUC Calculation Method: Linear-up Linear-down
Weighting for lambda z: Uniform (Ordinary Least Square, OLS)
Lambda z selection criterion: Heighest adjusted R-squared value with precision=1e-4

Fitting, AUC, AUMC Result

	Time		Conc.	Pred.	Residual	AUC	AUMC
	0.0000		0.4500			0.0000	0.0000
	0.2700		206.6400			27.9572	7.5320
	0.4500		325.9900			75.8938	25.7560
	0.7300		391.1200			176.2892	86.2658
	0.9600		476.2800			276.0402	171.6816
	2.0400		539.6600			824.6479	1013.0747
	3.0200		523.6300			1345.6600	2327.3865
	3.9700	*	385.4700	401.0341	-1.556e+01	1777.4825	3805.4338
	6.0200	*	329.2300	306.3963	+2.283e+01	2510.0499	7405.5213
	8.0300	*	244.1600	235.3242	+8.836e+00	3086.3069	11367.8035
	10.0400	*	184.5300	180.7381	+3.792e+00	3517.1404	15200.1559
	12.0400	*	123.8800	138.9963	-1.512e+01	3825.5503	18544.3523
	24.0400	*	29.4900	28.7557	+7.343e-01	4745.7704	31747.0811

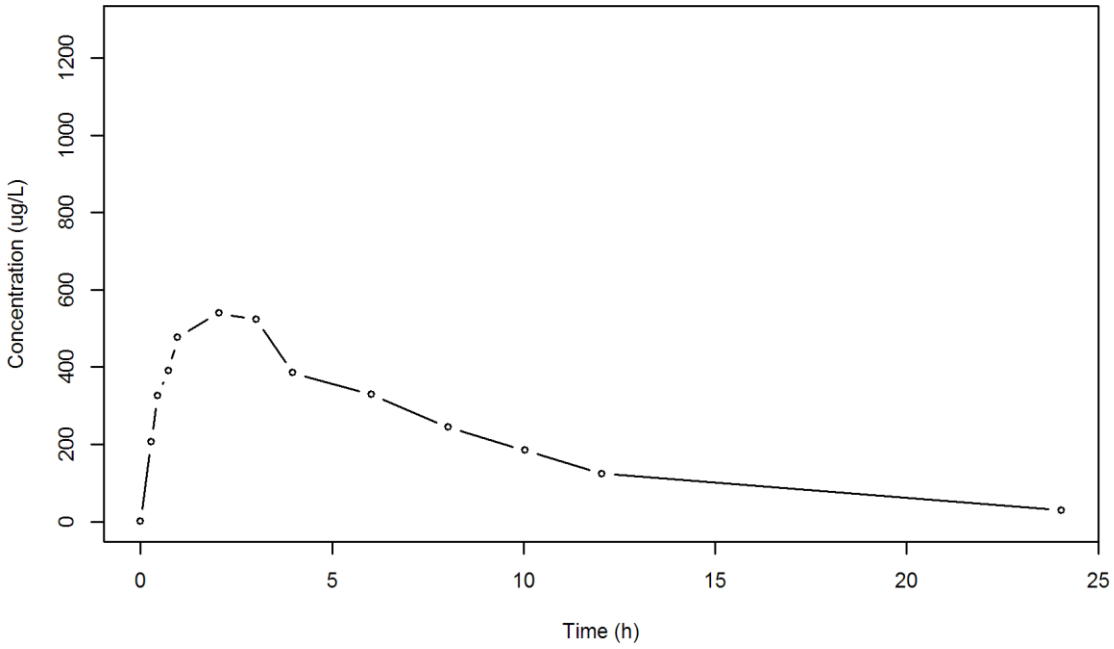
*: Used for the calculation of Lambda z.

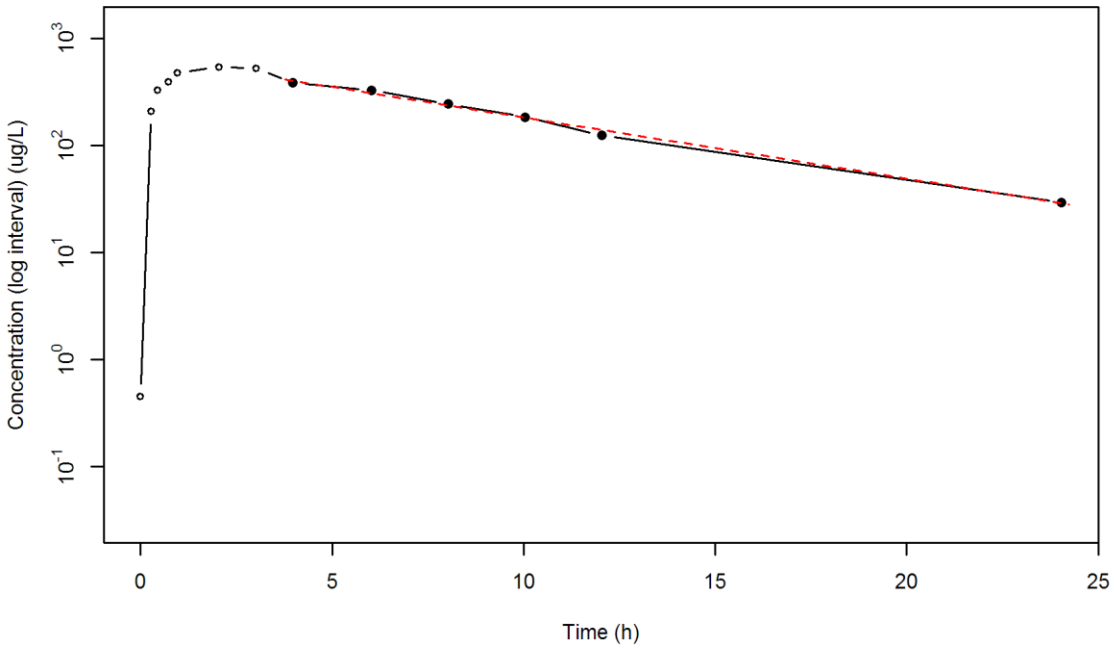
Calculated Values

CMAX	Max Conc	539.6600	ug/L
TMAX	Time of CMAX	2.0400	h
TLAG	Time Until First Nonzero Conc	0.0000	h
CLST	Last Nonzero Conc	29.4900	ug/L
CLSTP	Last Nonzero Conc Pred	28.7557	ug/L
TLST	Time of Last Nonzero Conc	24.0400	h
LAMZHL	Half-Life Lambda z	5.2791	h
LAMZ	Lambda z	0.1313	/h
LAMZLL	Lambda z Lower Limit	3.9700	h
LAMZUL	Lambda z Upper Limit	24.0400	h
LAMZNPT	Number of Points for Lambda z	6	
CORRXY	Correlation Between TimeX and Log ConcY	-0.9975	
R2	R Squared	0.9949	
R2ADJ	R Squared Adjusted	0.9936	
AUCLST	AUC to Last Nonzero Conc	4745.7704	h*ug/L

AUCALL	AUC All	4745.7704	h*ug/L
AUCIFO	AUC Infinity Obs	4970.3687	h*ug/L
AUCIFP	AUC Infinity Pred	4964.7759	h*ug/L
AUCPEO	AUC %Extrapolation Obs	4.5187	%
AUCPEP	AUC %Extrapolation Pred	4.4112	%
AUMCLST	AUMC to Last Nonzero Conc	31747.0811	h2*ug/L
AUMCIFO	AUMC Infinity Obs	38856.9868	h2*ug/L
AUMCIFP	AUMC Infinity Pred	38679.9403	h2*ug/L
AUMCPEO	AUMC %Extrapolation Obs	18.2976	%
AUMCPEP	AUMC % Extrapolation Pred	17.9237	%
VZFO	Vz Obs by F	0.0000	L
VZFP	Vz Pred by F	0.0000	L
CLFO	Total CL Obs by F	0.0000	L/h
CLFP	Total CL Pred by F	0.0000	L/h
MRTEVLST	MRT Extravasc to Last Nonzero Conc	6.6896	h
MRTEVIFO	MRT Extravasc Infinity Obs	7.8177	h
MRTEVIFP	MRT Extravasc Infinity Pred	7.7909	h

SUBJ 32, GRP TR, PRD 2, TRT R





SUBJ 33, GRP TR, PRD 1, TRT T

NONCOMPARTMENTAL ANALYSIS REPORT
Package version 0.3.9 (2018-05-10 KST)
R version 3.5.0 (2018-04-23)

Date and Time: 2018-06-19 09:49:36 Asia/Seoul

Calculation Setting

Drug Administration: Extravascular
Observation count excluding trailing zero: 13
Dose at time 0: 0 mg
AUC Calculation Method: Linear-up Linear-down
Weighting for lambda z: Uniform (Ordinary Least Square, OLS)
Lambda z selection criterion: Heighest adjusted R-squared value with precision=1e-4

Fitting, AUC, AUMC Result

	Time		Conc.	Pred.	Residual	AUC	AUMC
	0.0000		0.1900			0.0000	0.0000
	0.2100		587.2800			61.6844	12.9495
	0.5400		771.0100			285.8022	101.9958
	0.7600		856.1800			464.7931	219.3704
	1.0300	*	813.7700	883.3038	-6.953e+01	690.2364	420.3692
	1.9500	*	738.8200	657.2058	+8.161e+01	1404.4278	1468.6550
	3.0300	*	453.0400	464.4732	-1.143e+01	2048.0322	2987.8965
	3.9600	*	381.1100	344.4738	+3.664e+01	2435.9119	4327.9831
	5.9500	*	173.5300	181.7199	-8.190e+00	2987.7787	6856.9737
	8.0000	*	102.6800	94.0317	+8.648e+00	3270.8940	8757.2658
	9.9600	*	38.4400	50.0850	-1.165e+01	3409.1916	9937.4822
	12.0200	*	27.9400	25.8335	+2.106e+00	3477.5630	10677.7444
	23.9900	*	0.5700	0.5514	+1.859e-02	3648.1953	12769.5803

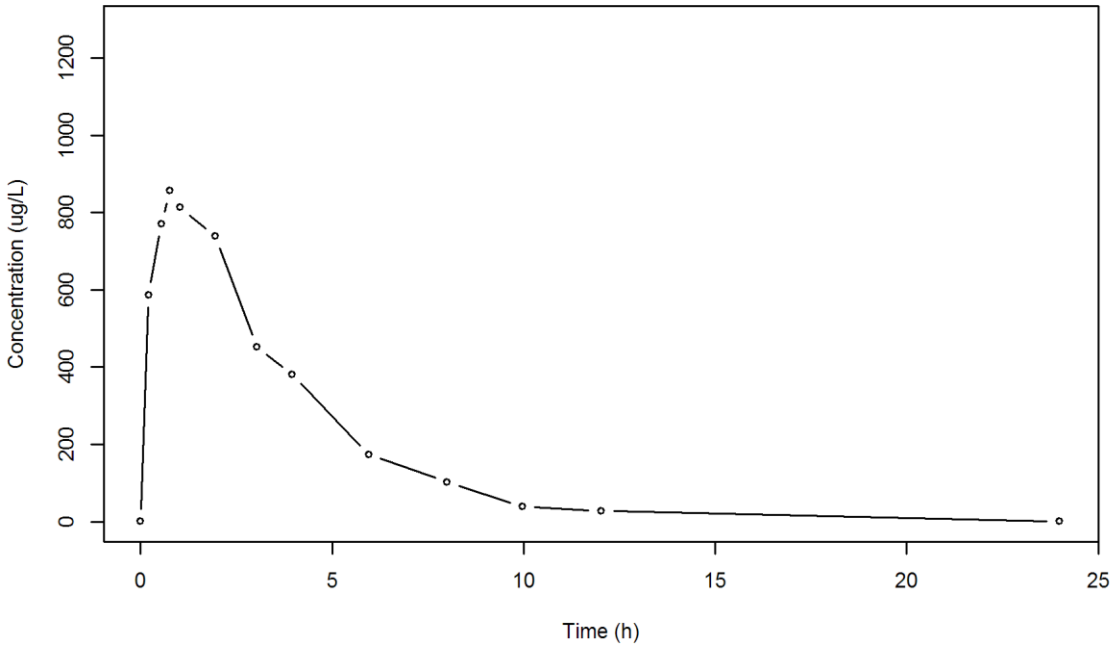
*: Used for the calculation of Lambda z.

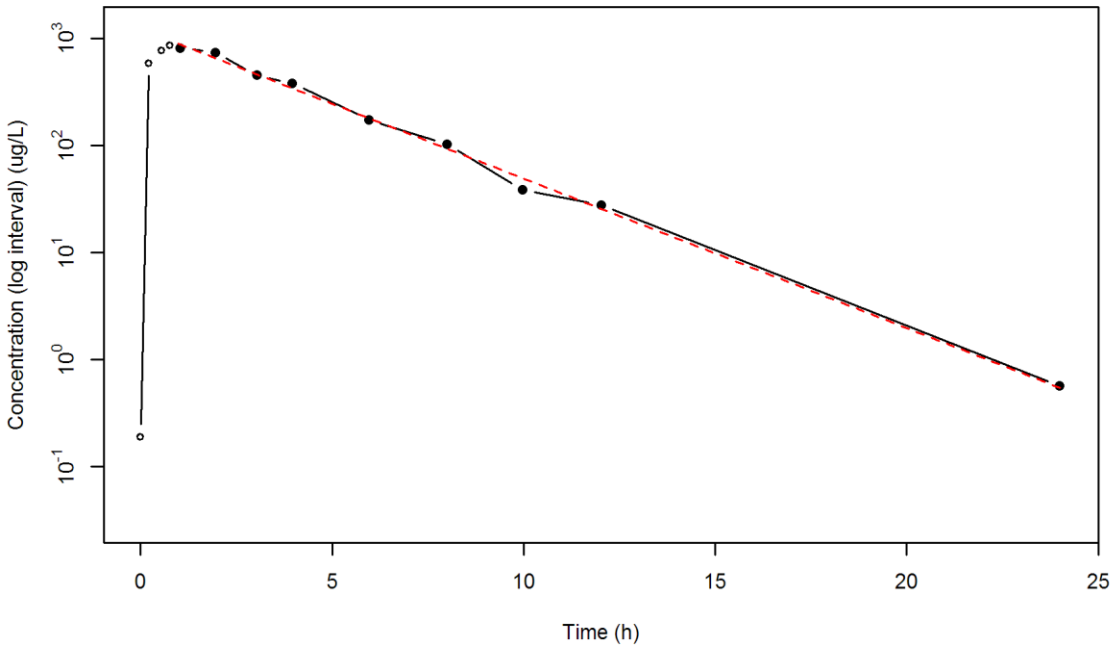
Calculated Values

CMAX	Max Conc	856.1800	ug/L
TMAX	Time of CMAX	0.7600	h
TLAG	Time Until First Nonzero Conc	0.0000	h
CLST	Last Nonzero Conc	0.5700	ug/L
CLSTP	Last Nonzero Conc Pred	0.5514	ug/L
TLST	Time of Last Nonzero Conc	23.9900	h
LAMZHL	Half-Life Lambda z	2.1568	h
LAMZ	Lambda z	0.3214	/h
LAMZLL	Lambda z Lower Limit	1.0300	h
LAMZUL	Lambda z Upper Limit	23.9900	h
LAMZNPT	Number of Points for Lambda z	9	
CORRXY	Correlation Between TimeX and Log ConcY	-0.9986	
R2	R Squared	0.9972	
R2ADJ	R Squared Adjusted	0.9968	
AUCLST	AUC to Last Nonzero Conc	3648.1953	h*ug/L

AUCALL	AUC All	3648.1953	h*ug/L
AUCIFO	AUC Infinity Obs	3649.9689	h*ug/L
AUCIFP	AUC Infinity Pred	3649.9110	h*ug/L
AUCPEO	AUC %Extrapolation Obs	0.0486	%
AUCPEP	AUC %Extrapolation Pred	0.0470	%
AUMCLST	AUMC to Last Nonzero Conc	12769.5803	h2*ug/L
AUMCIFO	AUMC Infinity Obs	12817.6473	h2*ug/L
AUMCIFP	AUMC Infinity Pred	12816.0796	h2*ug/L
AUMCPEO	AUMC %Extrapolation Obs	0.3750	%
AUMCPEP	AUMC % Extrapolation Pred	0.3628	%
VZFO	Vz Obs by F	0.0000	L
VZFP	Vz Pred by F	0.0000	L
CLFO	Total CL Obs by F	0.0000	L/h
CLFP	Total CL Pred by F	0.0000	L/h
MRTEVLST	MRT Extravasc to Last Nonzero Conc	3.5002	h
MRTEVIFO	MRT Extravasc Infinity Obs	3.5117	h
MRTEVIFP	MRT Extravasc Infinity Pred	3.5113	h

SUBJ 33, GRP TR, PRD 1, TRT T





SUBJ 33, GRP TR, PRD 2, TRT R

NONCOMPARTMENTAL ANALYSIS REPORT
Package version 0.3.9 (2018-05-10 KST)
R version 3.5.0 (2018-04-23)

Date and Time: 2018-06-19 09:49:36 Asia/Seoul

Calculation Setting

Drug Administration: Extravascular
Observation count excluding trailing zero: 13
Dose at time 0: 0 mg
AUC Calculation Method: Linear-up Linear-down
Weighting for lambda z: Uniform (Ordinary Least Square, OLS)
Lambda z selection criterion: Heighest adjusted R-squared value with precision=1e-4

Fitting, AUC, AUMC Result

	Time		Conc.	Pred.	Residual	AUC	AUMC
	0.0000		2.2000			0.0000	0.0000
	0.2600		375.1400			49.0542	12.6797
	0.5100		557.9100			165.6855	60.4385
	0.7400		560.9300			294.3520	140.8951
	0.9800		647.9500			439.4177	266.9046
	2.0200		508.1700			1040.6001	1130.8817
	3.0200		424.5300			1506.9501	2285.1737
	4.0300		292.8600			1869.2320	3528.6384
	6.0500		182.7900			2349.6385	5837.6048
	8.0400		130.4500			2661.3123	7981.5288
	10.0100	*	87.0100	88.1758	-1.166e+00	2875.5104	9872.5201
	11.9700	*	54.5800	53.7412	+8.388e-01	3014.2686	11366.3269
	23.9500	*	2.6000	2.6057	-5.668e-03	3356.7768	15652.7266

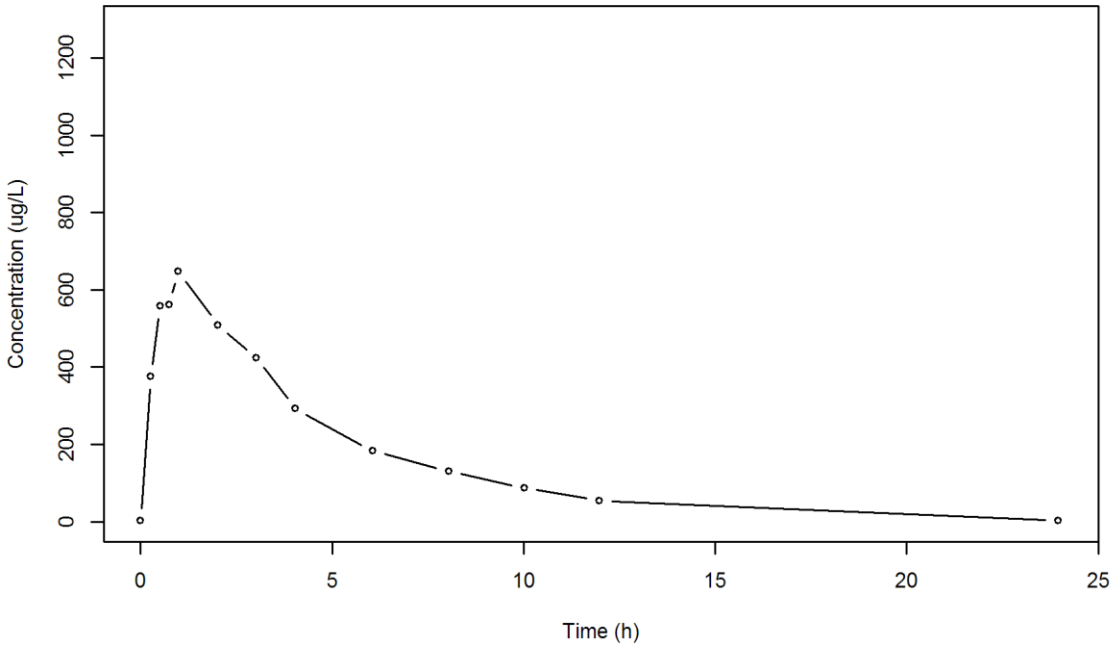
*: Used for the calculation of Lambda z.

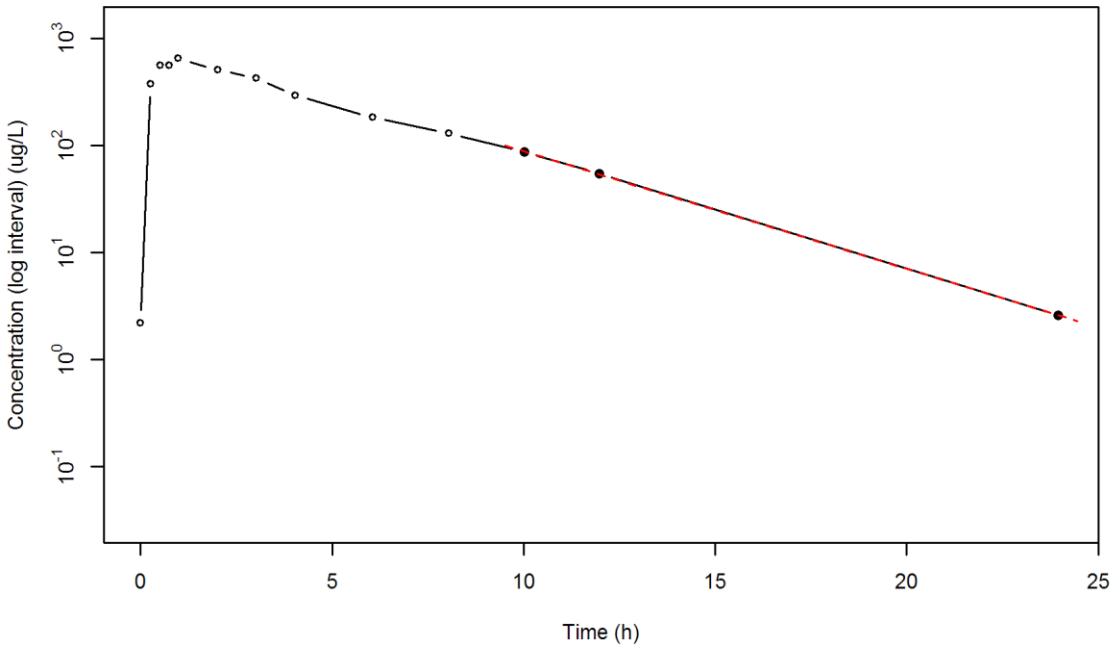
Calculated Values

CMAX	Max Conc	647.9500	ug/L
TMAX	Time of CMAX	0.9800	h
TLAG	Time Until First Nonzero Conc	0.0000	h
CLST	Last Nonzero Conc	2.6000	ug/L
CLSTP	Last Nonzero Conc Pred	2.6057	ug/L
TLST	Time of Last Nonzero Conc	23.9500	h
LAMZHL	Half-Life Lambda z	2.7437	h
LAMZ	Lambda z	0.2526	/h
LAMZLL	Lambda z Lower Limit	10.0100	h
LAMZUL	Lambda z Upper Limit	23.9500	h
LAMZNPT	Number of Points for Lambda z	3	
CORRXY	Correlation Between TimeX and Log ConcY	-1.0000	
R2	R Squared	0.9999	
R2ADJ	R Squared Adjusted	0.9999	
AUCLST	AUC to Last Nonzero Conc	3356.7768	h*ug/L

AUCALL	AUC All	3356.7768	h*ug/L
AUCIFO	AUC Infinity Obs	3367.0686	h*ug/L
AUCIFP	AUC Infinity Pred	3367.0910	h*ug/L
AUCPEO	AUC %Extrapolation Obs	0.3057	%
AUCPEP	AUC %Extrapolation Pred	0.3063	%
AUMCLST	AUMC to Last Nonzero Conc	15652.7266	h2*ug/L
AUMCIFO	AUMC Infinity Obs	15939.9536	h2*ug/L
AUMCIFP	AUMC Infinity Pred	15940.5798	h2*ug/L
AUMCPEO	AUMC %Extrapolation Obs	1.8019	%
AUMCPEP	AUMC % Extrapolation Pred	1.8058	%
VZFO	Vz Obs by F	0.0000	L
VZFP	Vz Pred by F	0.0000	L
CLFO	Total CL Obs by F	0.0000	L/h
CLFP	Total CL Pred by F	0.0000	L/h
MRTEVLST	MRT Extravasc to Last Nonzero Conc	4.6630	h
MRTEVIFO	MRT Extravasc Infinity Obs	4.7341	h
MRTEVIFP	MRT Extravasc Infinity Pred	4.7342	h

SUBJ 33, GRP TR, PRD 2, TRT R





SUBJ 34, GRP TR, PRD 1, TRT T

NONCOMPARTMENTAL ANALYSIS REPORT
Package version 0.3.9 (2018-05-10 KST)
R version 3.5.0 (2018-04-23)

Date and Time: 2018-06-19 09:49:36 Asia/Seoul

Calculation Setting

Drug Administration: Extravascular
Observation count excluding trailing zero: 13
Dose at time 0: 0 mg
AUC Calculation Method: Linear-up Linear-down
Weighting for lambda z: Uniform (Ordinary Least Square, OLS)
Lambda z selection criterion: Heighest adjusted R-squared value with precision=1e-4

Fitting, AUC, AUMC Result

	Time		Conc.	Pred.	Residual	AUC	AUMC
	0.0000		0.0000			0.0000	0.0000
	0.2300		281.8000			32.4070	7.4536
	0.5100		388.3600			126.2294	44.2565
	0.7800		601.4200			259.8497	134.3246
	0.9600		739.4200			380.5253	240.4302
	2.0400		657.0200			1134.6029	1347.5187
	3.0100		636.7000			1762.0571	2927.0608
	4.0300	*	575.7300	592.0491	-1.632e+01	2380.3964	5087.7568
	6.0300	*	341.5500	358.9381	-1.739e+01	3297.6764	9467.4952
	7.9700	*	238.1700	220.9030	+1.727e+01	3860.0048	13306.5238
	9.6000	*	122.1000	134.2611	-1.216e+01	4218.4735	16405.2830
	11.9700	*	92.5600	81.1942	+1.137e+01	4434.2068	18740.9625
	24.0300	*	3.8400	3.9717	-1.317e-01	5015.4988	25978.2795

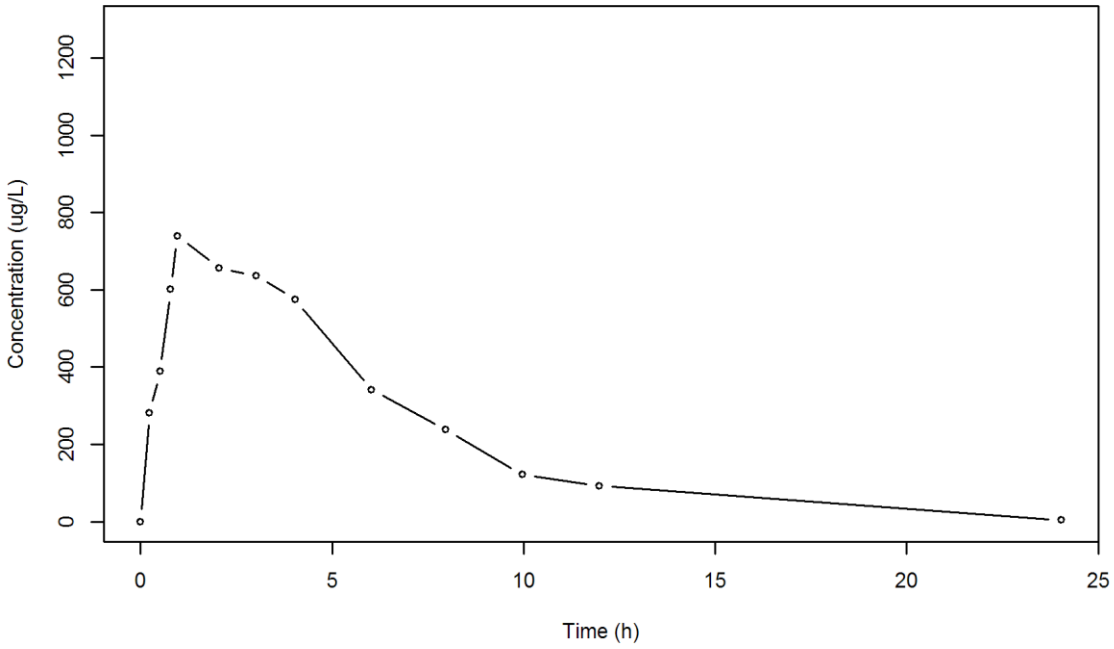
*: Used for the calculation of Lambda z.

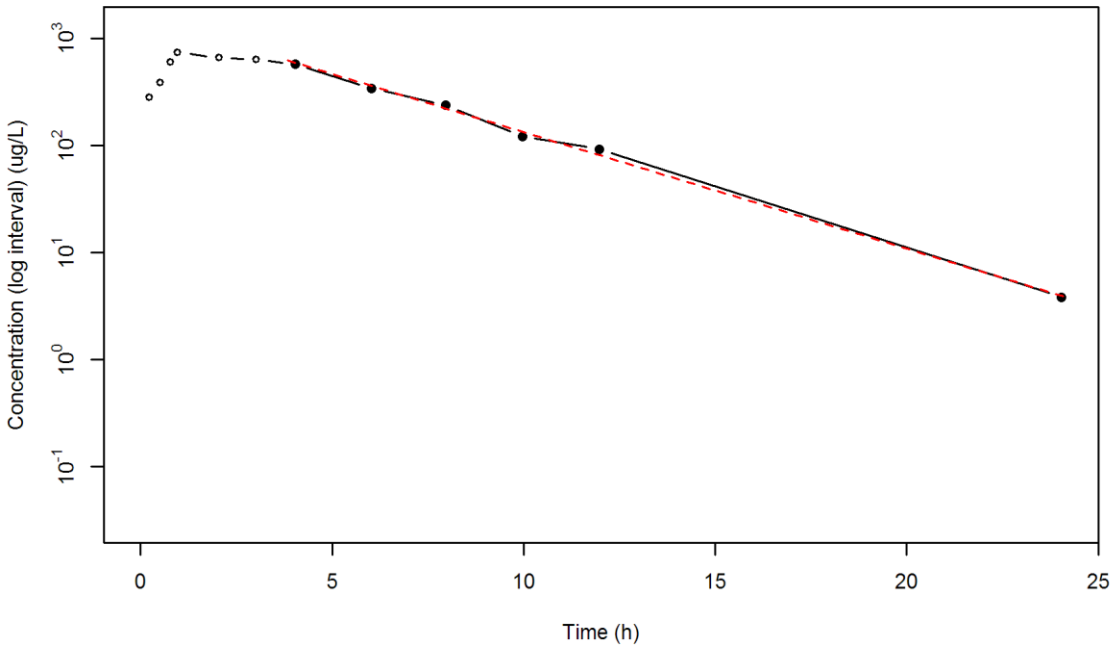
Calculated Values

CMAX	Max Conc	739.4200	ug/L
TMAX	Time of CMAX	0.9600	h
TLAG	Time Until First Nonzero Conc	0.0000	h
CLST	Last Nonzero Conc	3.8400	ug/L
CLSTP	Last Nonzero Conc Pred	3.9717	ug/L
TLST	Time of Last Nonzero Conc	24.0300	h
LAMZHL	Half-Life Lambda z	2.7702	h
LAMZ	Lambda z	0.2502	/h
LAMZLL	Lambda z Lower Limit	4.0300	h
LAMZUL	Lambda z Upper Limit	24.0300	h
LAMZNPT	Number of Points for Lambda z	6	
CORRXY	Correlation Between TimeX and Log ConcY	-0.9989	
R2	R Squared	0.9977	
R2ADJ	R Squared Adjusted	0.9972	
AUCLST	AUC to Last Nonzero Conc	5015.4988	h*ug/L

AUCALL	AUC All	5015.4988	h*ug/L
AUCIFO	AUC Infinity Obs	5030.8453	h*ug/L
AUCIFP	AUC Infinity Pred	5031.3716	h*ug/L
AUCPEO	AUC %Extrapolation Obs	0.3050	%
AUCPEP	AUC %Extrapolation Pred	0.3155	%
AUMCLST	AUMC to Last Nonzero Conc	25978.2795	h2*ug/L
AUMCIFO	AUMC Infinity Obs	26408.3882	h2*ug/L
AUMCIFP	AUMC Infinity Pred	26423.1394	h2*ug/L
AUMCPEO	AUMC %Extrapolation Obs	1.6287	%
AUMCPEP	AUMC % Extrapolation Pred	1.6836	%
VZFO	Vz Obs by F	0.0000	L
VZFP	Vz Pred by F	0.0000	L
CLFO	Total CL Obs by F	0.0000	L/h
CLFP	Total CL Pred by F	0.0000	L/h
MRTEVLST	MRT Extravasc to Last Nonzero Conc	5.1796	h
MRTEVIFO	MRT Extravasc Infinity Obs	5.2493	h
MRTEVIFP	MRT Extravasc Infinity Pred	5.2517	h

SUBJ 34, GRP TR, PRD 1, TRT T





SUBJ 34, GRP TR, PRD 2, TRT R

NONCOMPARTMENTAL ANALYSIS REPORT
Package version 0.3.9 (2018-05-10 KST)
R version 3.5.0 (2018-04-23)

Date and Time: 2018-06-19 09:49:36 Asia/Seoul

Calculation Setting

Drug Administration: Extravascular
Observation count excluding trailing zero: 13
Dose at time 0: 0 mg
AUC Calculation Method: Linear-up Linear-down
Weighting for lambda z: Uniform (Ordinary Least Square, OLS)
Lambda z selection criterion: Heighest adjusted R-squared value with precision=1e-4

Fitting, AUC, AUMC Result

	Time		Conc.	Pred.	Residual	AUC	AUMC
	0.0000		1.1800			0.0000	0.0000
	0.2300		263.9400			30.4888	6.9812
	0.4700		430.1200			113.7760	38.5247
	0.7200		575.6200			239.4935	115.6001
	1.0200		538.4000			406.5965	260.1422
	1.9900		682.4100			998.6894	1185.1167
	2.9800		614.6100			1640.7143	2763.9359
	4.0100		579.4500			2255.6552	4903.8290
	6.0200		409.6300			3249.6806	9717.3440
	8.0400		259.3300			3925.3302	14313.8396
	10.0200	*	244.5200	256.3578	-1.184e+01	4424.1416	18803.5922
	11.9600	*	206.5200	195.4936	+1.103e+01	4861.6505	23576.0597
	24.0400	*	35.8800	36.1535	-2.735e-01	6325.7465	43704.5675

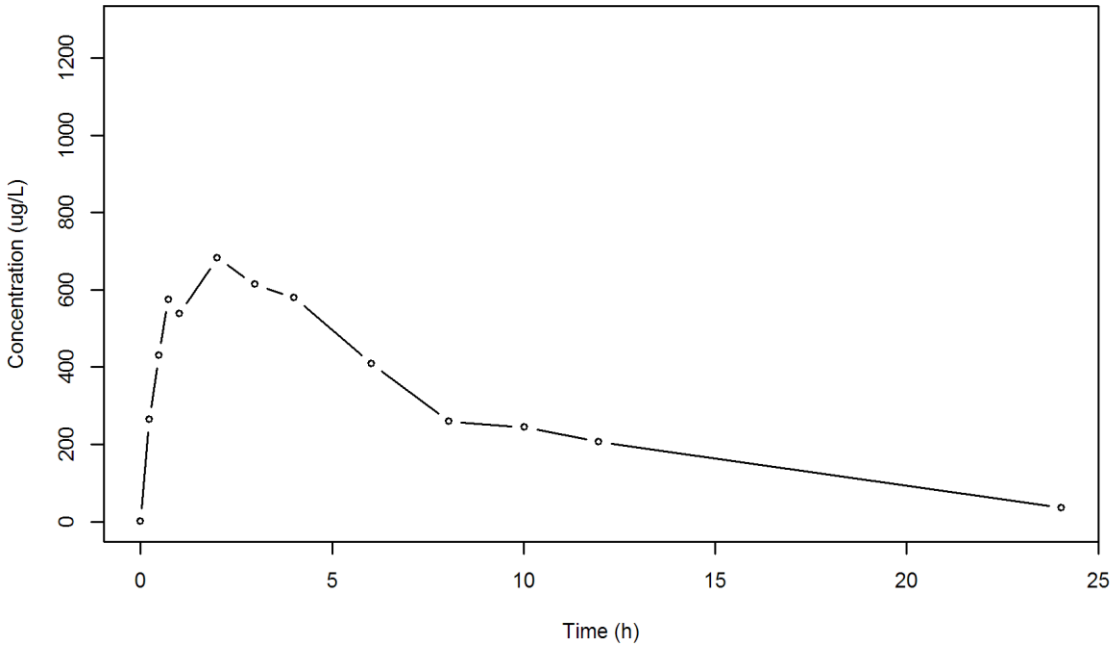
*: Used for the calculation of Lambda z.

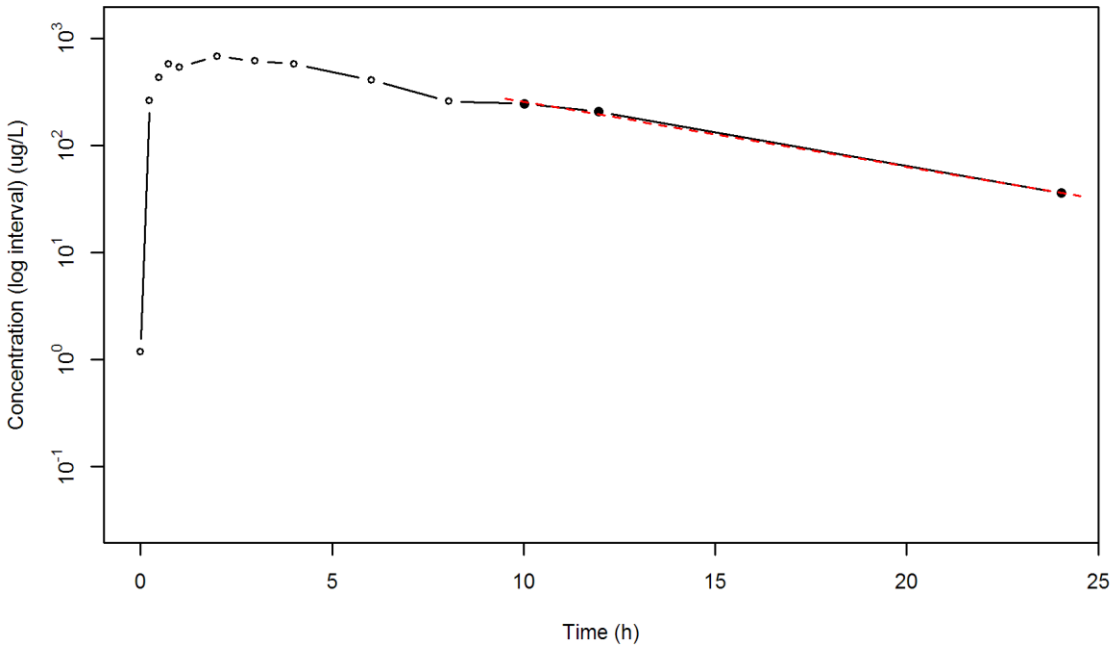
Calculated Values

CMAX	Max Conc	682.4100	ug/L
TMAX	Time of CMAX	1.9900	h
TLAG	Time Until First Nonzero Conc	0.0000	h
CLST	Last Nonzero Conc	35.8800	ug/L
CLSTP	Last Nonzero Conc Pred	36.1535	ug/L
TLST	Time of Last Nonzero Conc	24.0400	h
LAMZHL	Half-Life Lambda z	4.9612	h
LAMZ	Lambda z	0.1397	/h
LAMZLL	Lambda z Lower Limit	10.0200	h
LAMZUL	Lambda z Upper Limit	24.0400	h
LAMZNPT	Number of Points for Lambda z	3	
CORRXY	Correlation Between TimeX and Log ConcY	-0.9988	
R2	R Squared	0.9977	
R2ADJ	R Squared Adjusted	0.9953	
AUCLST	AUC to Last Nonzero Conc	6325.7465	h*ug/L

AUCALL	AUC All	6325.7465	h*ug/L
AUCIFO	AUC Infinity Obs	6582.5553	h*ug/L
AUCIFP	AUC Infinity Pred	6584.5125	h*ug/L
AUCPEO	AUC %Extrapolation Obs	3.9014	%
AUCPEP	AUC %Extrapolation Pred	3.9299	%
AUMCLST	AUMC to Last Nonzero Conc	43704.5675	h2*ug/L
AUMCIFO	AUMC Infinity Obs	51716.3451	h2*ug/L
AUMCIFP	AUMC Infinity Pred	51777.4063	h2*ug/L
AUMCPEO	AUMC %Extrapolation Obs	15.4918	%
AUMCPEP	AUMC % Extrapolation Pred	15.5914	%
VZFO	Vz Obs by F	0.0000	L
VZFP	Vz Pred by F	0.0000	L
CLFO	Total CL Obs by F	0.0000	L/h
CLFP	Total CL Pred by F	0.0000	L/h
MRTEVLST	MRT Extravasc to Last Nonzero Conc	6.9090	h
MRTEVIFO	MRT Extravasc Infinity Obs	7.8566	h
MRTEVIFP	MRT Extravasc Infinity Pred	7.8635	h

SUBJ 34, GRP TR, PRD 2, TRT R





SUBJ 35, GRP RT, PRD 1, TRT R

NONCOMPARTMENTAL ANALYSIS REPORT
Package version 0.3.9 (2018-05-10 KST)
R version 3.5.0 (2018-04-23)

Date and Time: 2018-06-19 09:49:36 Asia/Seoul

Calculation Setting

Drug Administration: Extravascular
Observation count excluding trailing zero: 13
Dose at time 0: 0 mg
AUC Calculation Method: Linear-up Linear-down
Weighting for lambda z: Uniform (Ordinary Least Square, OLS)
Lambda z selection criterion: Heighest adjusted R-squared value with precision=1e-4

Fitting, AUC, AUMC Result

	Time		Conc.	Pred.	Residual	AUC	AUMC
	0.0000		0.6200			0.0000	0.0000
	0.2700		299.0800			40.4595	10.9015
	0.5100		376.6300			121.5447	43.6414
	0.7100		562.0200			215.4097	102.7530
	0.9700		785.6000			390.6003	253.6916
	1.9600		1020.5500			1284.6446	1621.0350
	2.9700		819.5800			2213.9102	3860.4225
	3.9900		565.3700			2920.2347	6252.3117
	6.0100	*	505.1800	499.0430	+6.137e+00	4001.4902	11597.1894
	7.9800	*	295.6100	301.2994	-5.689e+00	4790.2684	16911.3625
	10.0100	*	173.1700	179.1366	-5.967e+00	5266.0801	21065.1480
	11.9900	*	113.0200	107.8778	+5.142e+00	5549.4082	24122.8041
	24.0300	*	4.9100	4.9388	-2.880e-02	6259.3468	32990.8486

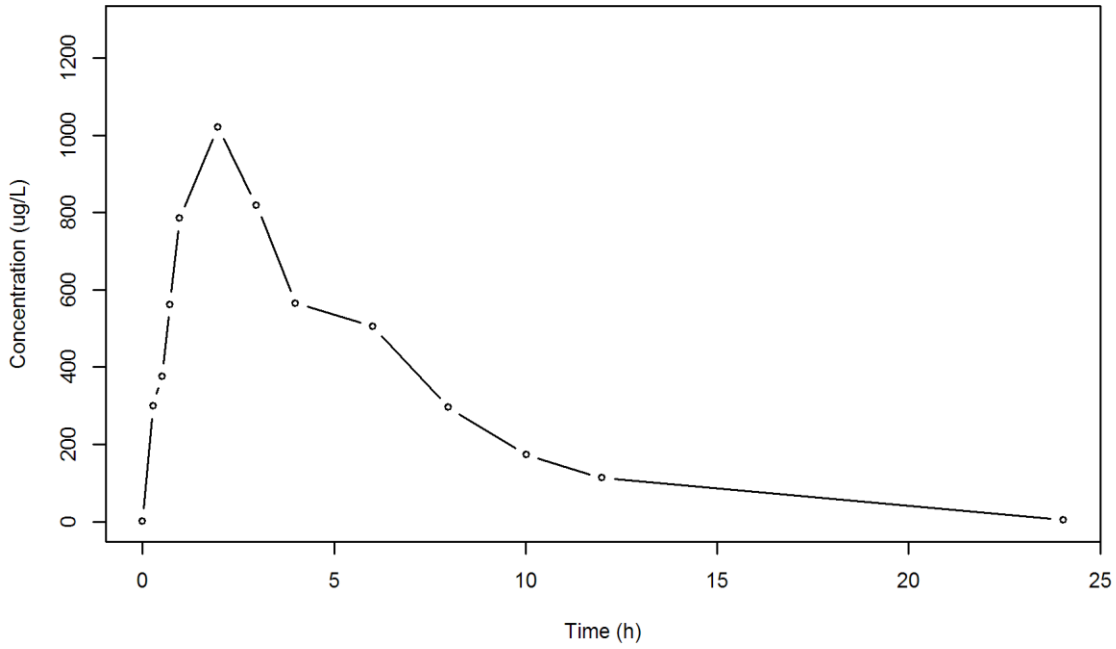
*: Used for the calculation of Lambda z.

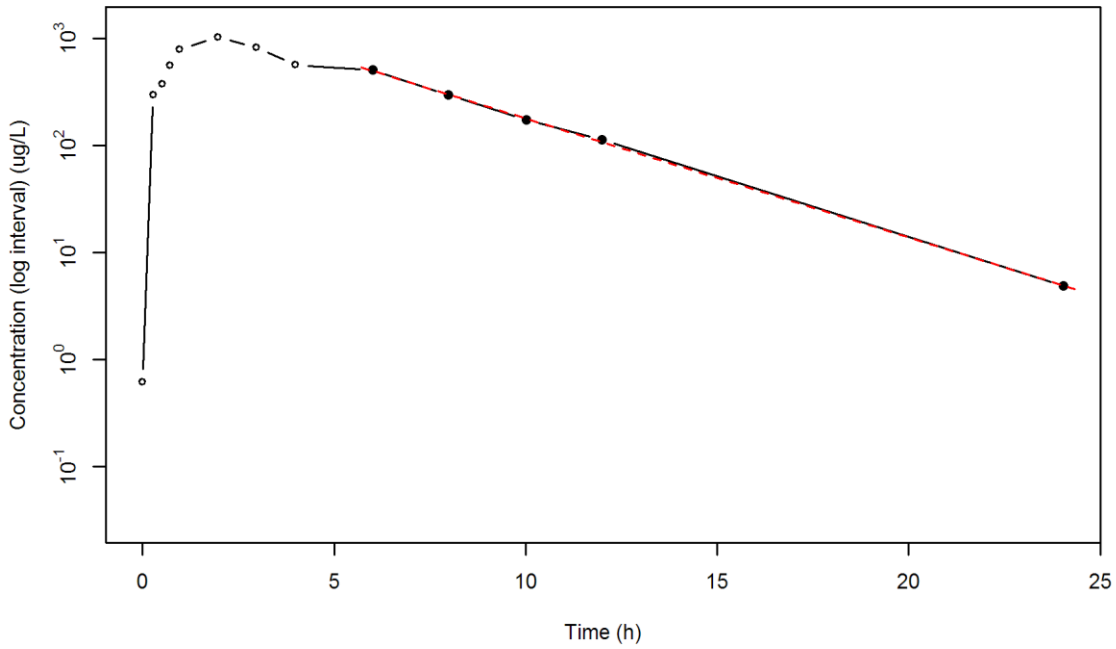
Calculated Values

CMAX	Max Conc	1020.5500	ug/L
TMAX	Time of CMAX	1.9600	h
TLAG	Time Until First Nonzero Conc	0.0000	h
CLST	Last Nonzero Conc	4.9100	ug/L
CLSTP	Last Nonzero Conc Pred	4.9388	ug/L
TLST	Time of Last Nonzero Conc	24.0300	h
LAMZHL	Half-Life Lambda z	2.7062	h
LAMZ	Lambda z	0.2561	/h
LAMZLL	Lambda z Lower Limit	6.0100	h
LAMZUL	Lambda z Upper Limit	24.0300	h
LAMZNPT	Number of Points for Lambda z	5	
CORRXY	Correlation Between TimeX and Log ConcY	-0.9999	
R2	R Squared	0.9997	
R2ADJ	R Squared Adjusted	0.9996	
AUCLST	AUC to Last Nonzero Conc	6259.3468	h*ug/L

AUCALL	AUC All	6259.3468	h*ug/L
AUCIFO	AUC Infinity Obs	6278.5163	h*ug/L
AUCIFP	AUC Infinity Pred	6278.6287	h*ug/L
AUCPEO	AUC %Extrapolation Obs	0.3053	%
AUCPEP	AUC %Extrapolation Pred	0.3071	%
AUMCLST	AUMC to Last Nonzero Conc	32990.8486	h2*ug/L
AUMCIFO	AUMC Infinity Obs	33526.3331	h2*ug/L
AUMCIFP	AUMC Infinity Pred	33529.4746	h2*ug/L
AUMCPEO	AUMC %Extrapolation Obs	1.5972	%
AUMCPEP	AUMC % Extrapolation Pred	1.6064	%
VZFO	Vz Obs by F	0.0000	L
VZFP	Vz Pred by F	0.0000	L
CLFO	Total CL Obs by F	0.0000	L/h
CLFP	Total CL Pred by F	0.0000	L/h
MRTEVLST	MRT Extravasc to Last Nonzero Conc	5.2707	h
MRTEVIFO	MRT Extravasc Infinity Obs	5.3398	h
MRTEVIFP	MRT Extravasc Infinity Pred	5.3403	h

SUBJ 35, GRP RT, PRD 1, TRT R





SUBJ 35, GRP RT, PRD 2, TRT T

NONCOMPARTMENTAL ANALYSIS REPORT
Package version 0.3.9 (2018-05-10 KST)
R version 3.5.0 (2018-04-23)

Date and Time: 2018-06-19 09:49:36 Asia/Seoul

Calculation Setting

Drug Administration: Extravascular
Observation count excluding trailing zero: 13
Dose at time 0: 0 mg
AUC Calculation Method: Linear-up Linear-down
Weighting for lambda z: Uniform (Ordinary Least Square, OLS)
Lambda z selection criterion: Heighest adjusted R-squared value with precision=1e-4

Fitting, AUC, AUMC Result

	Time		Conc.	Pred.	Residual	AUC	AUMC
	0.0000		0.0000			0.0000	0.0000
	0.2800		290.9700			40.7358	11.4060
	0.5300		676.8900			161.7183	66.4339
	0.7700		598.8700			314.8095	164.8197
	1.0000		738.8900			468.6519	302.8220
	2.0400		835.8700			1287.5271	1573.7357
	3.0200		561.6300			1972.3021	3240.3714
	3.9900		601.1800			2536.2650	5226.3644
	5.9900		400.6000			3538.0450	10024.6666
	8.0000	*	256.5400	246.8677	+9.672e+00	4198.4707	14498.8401
	10.0000	*	191.6200	181.5215	+1.010e+01	4646.6307	18467.3601
	12.0000	*	119.0500	133.4725	-1.442e+01	4957.3007	21812.1601
	24.0300	*	21.4600	20.9977	+4.623e-01	5802.4683	33507.0272

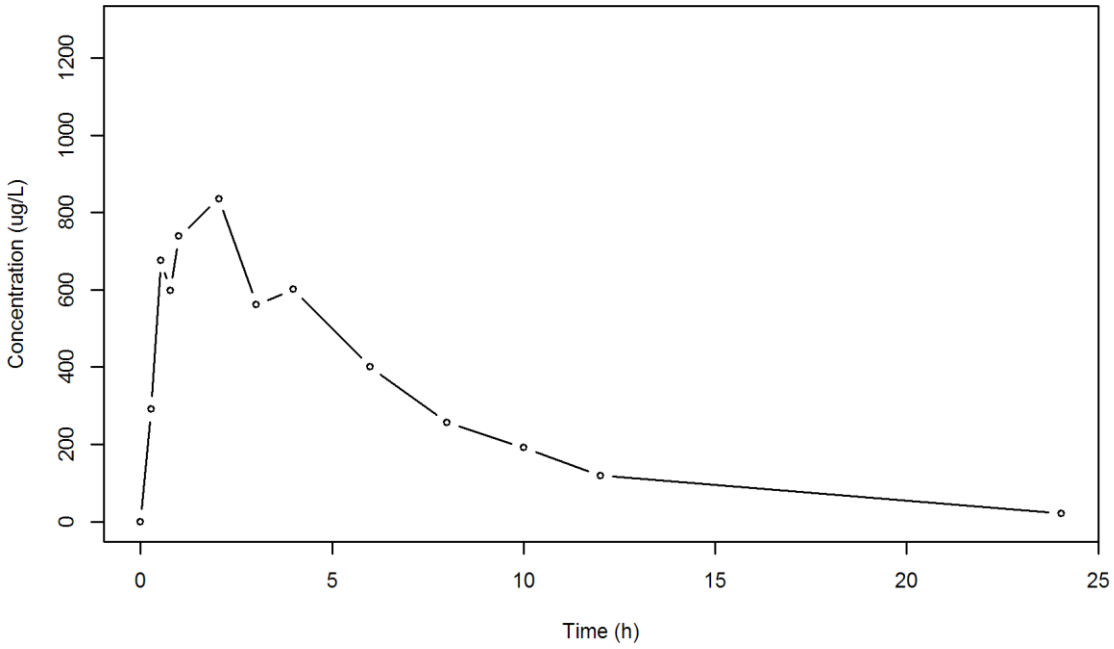
*: Used for the calculation of Lambda z.

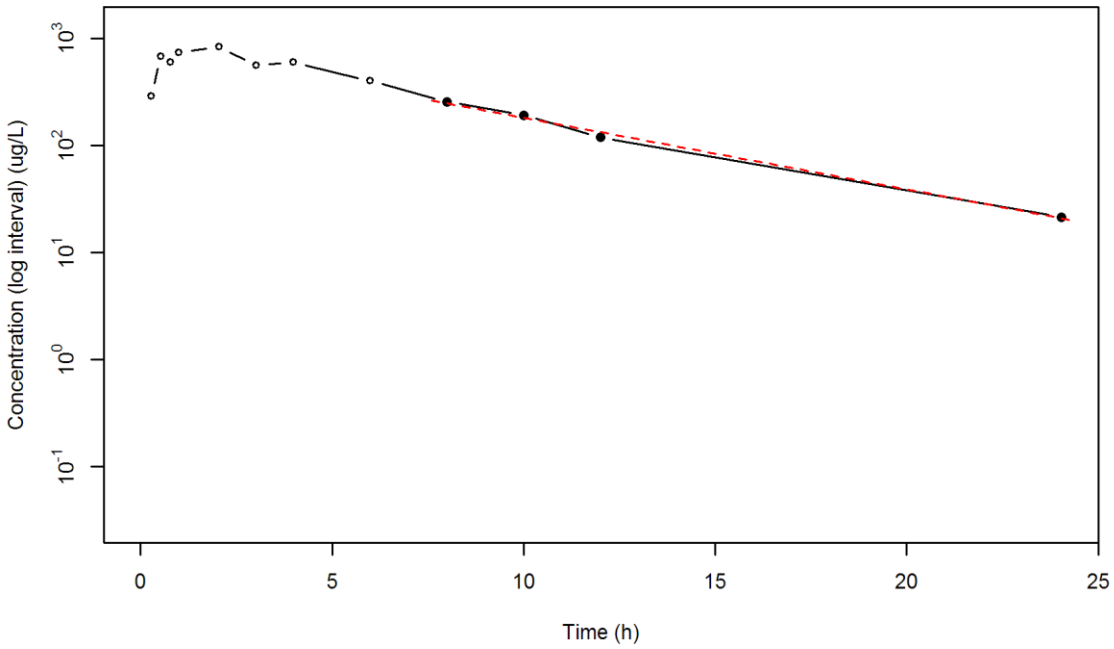
Calculated Values

CMAX	Max Conc	835.8700	ug/L
TMAX	Time of CMAX	2.0400	h
TLAG	Time Until First Nonzero Conc	0.0000	h
CLST	Last Nonzero Conc	21.4600	ug/L
CLSTP	Last Nonzero Conc Pred	20.9977	ug/L
TLST	Time of Last Nonzero Conc	24.0300	h
LAMZHL	Half-Life Lambda z	4.5086	h
LAMZ	Lambda z	0.1537	/h
LAMZLL	Lambda z Lower Limit	8.0000	h
LAMZUL	Lambda z Upper Limit	24.0300	h
LAMZNPT	Number of Points for Lambda z	4	
CORRXY	Correlation Between TimeX and Log ConcY	-0.9976	
R2	R Squared	0.9951	
R2ADJ	R Squared Adjusted	0.9927	
AUCLST	AUC to Last Nonzero Conc	5802.4683	h*ug/L

AUCALL	AUC All	5802.4683	h*ug/L
AUCIFO	AUC Infinity Obs	5942.0552	h*ug/L
AUCIFP	AUC Infinity Pred	5939.0479	h*ug/L
AUCPEO	AUC %Extrapolation Obs	2.3491	%
AUCPEP	AUC %Extrapolation Pred	2.2997	%
AUMCLST	AUMC to Last Nonzero Conc	33507.0272	h2*ug/L
AUMCIFO	AUMC Infinity Obs	37769.2463	h2*ug/L
AUMCIFP	AUMC Infinity Pred	37677.4206	h2*ug/L
AUMCPEO	AUMC %Extrapolation Obs	11.2849	%
AUMCPEP	AUMC % Extrapolation Pred	11.0687	%
VZFO	Vz Obs by F	0.0000	L
VZFP	Vz Pred by F	0.0000	L
CLFO	Total CL Obs by F	0.0000	L/h
CLFP	Total CL Pred by F	0.0000	L/h
MRTEVLST	MRT Extravasc to Last Nonzero Conc	5.7746	h
MRTEVIFO	MRT Extravasc Infinity Obs	6.3563	h
MRTEVIFP	MRT Extravasc Infinity Pred	6.3440	h

SUBJ 35, GRP RT, PRD 2, TRT T





SUBJ 36, GRP RT, PRD 1, TRT R

NONCOMPARTMENTAL ANALYSIS REPORT
Package version 0.3.9 (2018-05-10 KST)
R version 3.5.0 (2018-04-23)

Date and Time: 2018-06-19 09:49:36 Asia/Seoul

Calculation Setting

Drug Administration: Extravascular
Observation count excluding trailing zero: 13
Dose at time 0: 0 mg
AUC Calculation Method: Linear-up Linear-down
Weighting for lambda z: Uniform (Ordinary Least Square, OLS)
Lambda z selection criterion: Heighest adjusted R-squared value with precision=1e-4

Fitting, AUC, AUMC Result

	Time		Conc.	Pred.	Residual	AUC	AUMC
	0.0000		0.2000			0.0000	0.0000
	0.2700		313.7100			42.3778	11.4347
	0.4500		403.8800			106.9609	35.4150
	0.7000		511.3400			221.3634	102.8755
	0.9900		656.6200			390.7177	249.0343
	2.0100		646.4400			1055.2782	1243.2274
	3.0100		682.8700			1719.9333	2920.6190
	3.9500		494.3200			2273.2126	4804.3802
	5.9600		285.6400			3057.0724	8477.6335
	7.9900		193.5900			3543.4908	11775.5700
	10.0400	*	130.0800	135.4101	-5.330e+00	3875.2526	14699.6770
	12.0100	*	90.5200	86.3860	+4.134e+00	4092.5436	17056.9282
	24.0200	*	5.5400	5.5766	-3.661e-02	4669.3839	24384.3252

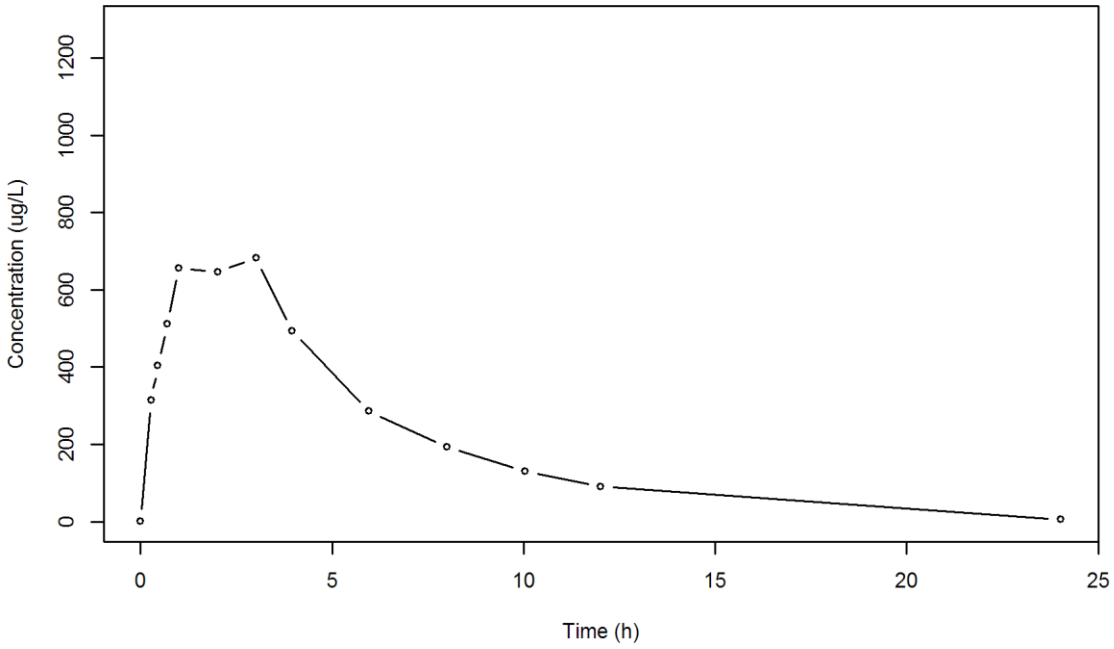
*: Used for the calculation of Lambda z.

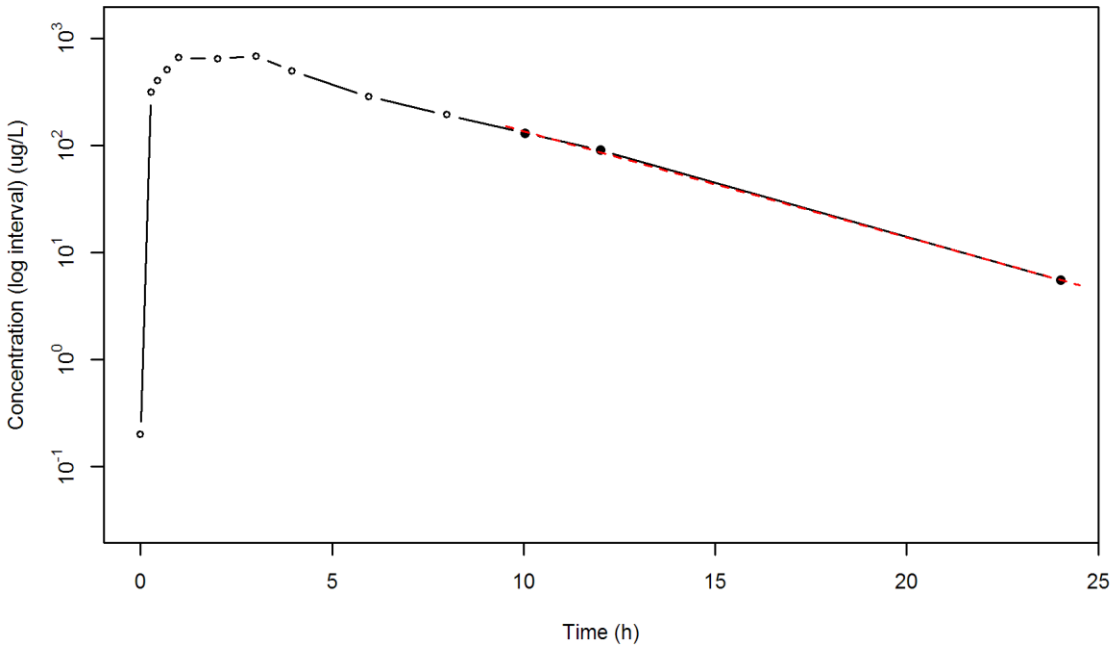
Calculated Values

CMAX	Max Conc	682.8700	ug/L
TMAX	Time of CMAX	3.0100	h
TLAG	Time Until First Nonzero Conc	0.0000	h
CLST	Last Nonzero Conc	5.5400	ug/L
CLSTP	Last Nonzero Conc Pred	5.5766	ug/L
TLST	Time of Last Nonzero Conc	24.0200	h
LAMZHL	Half-Life Lambda z	3.0379	h
LAMZ	Lambda z	0.2282	/h
LAMZLL	Lambda z Lower Limit	10.0400	h
LAMZUL	Lambda z Upper Limit	24.0200	h
LAMZNPT	Number of Points for Lambda z	3	
CORRXY	Correlation Between TimeX and Log ConcY	-0.9997	
R2	R Squared	0.9994	
R2ADJ	R Squared Adjusted	0.9987	
AUCLST	AUC to Last Nonzero Conc	4669.3839	h*ug/L

AUCALL	AUC All	4669.3839	h*ug/L
AUCIFO	AUC Infinity Obs	4693.6647	h*ug/L
AUCIFP	AUC Infinity Pred	4693.8251	h*ug/L
AUCPEO	AUC %Extrapolation Obs	0.5173	%
AUCPEP	AUC %Extrapolation Pred	0.5207	%
AUMCLST	AUMC to Last Nonzero Conc	24384.3252	h2*ug/L
AUMCIFO	AUMC Infinity Obs	25073.9693	h2*ug/L
AUMCIFP	AUMC Infinity Pred	25078.5271	h2*ug/L
AUMCPEO	AUMC %Extrapolation Obs	2.7504	%
AUMCPEP	AUMC % Extrapolation Pred	2.7681	%
VZFO	Vz Obs by F	0.0000	L
VZFP	Vz Pred by F	0.0000	L
CLFO	Total CL Obs by F	0.0000	L/h
CLFP	Total CL Pred by F	0.0000	L/h
MRTEVLST	MRT Extravasc to Last Nonzero Conc	5.2222	h
MRTEVIFO	MRT Extravasc Infinity Obs	5.3421	h
MRTEVIFP	MRT Extravasc Infinity Pred	5.3429	h

SUBJ 36, GRP RT, PRD 1, TRT R





SUBJ 36, GRP RT, PRD 2, TRT T

NONCOMPARTMENTAL ANALYSIS REPORT
Package version 0.3.9 (2018-05-10 KST)
R version 3.5.0 (2018-04-23)

Date and Time: 2018-06-19 09:49:36 Asia/Seoul

Calculation Setting

Drug Administration: Extravascular
Observation count excluding trailing zero: 13
Dose at time 0: 0 mg
AUC Calculation Method: Linear-up Linear-down
Weighting for lambda z: Uniform (Ordinary Least Square, OLS)
Lambda z selection criterion: Heighest adjusted R-squared value with precision=1e-4

Fitting, AUC, AUMC Result

	Time		Conc.	Pred.	Residual	AUC	AUMC
	0.0000		0.5500			0.0000	0.0000
	0.2500		423.0500			52.9500	13.2203
	0.4700		510.5900			155.6504	51.2517
	0.7700		659.4800			331.1609	163.4182
	1.0000		729.6300			490.9086	305.7226
	1.9900		679.9900			1188.6705	1336.7136
	3.0000		434.7100			1751.5940	2678.6552
	4.0500		368.8900			2173.4840	4147.6758
	5.9900		242.9000			2766.9203	7008.1821
	7.9500		122.7600			3125.2671	9390.4768
	9.9800	*	91.6100	91.9878	-3.778e-01	3342.8526	11309.0398
	12.0200	*	48.7100	48.4759	+2.341e-01	3485.9790	12838.7970
	23.9600	*	1.1400	1.1408	-8.018e-04	3783.5835	16497.2643

*: Used for the calculation of Lambda z.

Calculated Values

CMAX	Max Conc	729.6300	ug/L
TMAX	Time of CMAX	1.0000	h
TLAG	Time Until First Nonzero Conc	0.0000	h
CLST	Last Nonzero Conc	1.1400	ug/L
CLSTP	Last Nonzero Conc Pred	1.1408	ug/L
TLST	Time of Last Nonzero Conc	23.9600	h
LAMZHL	Half-Life Lambda z	2.2074	h
LAMZ	Lambda z	0.3140	/h
LAMZLL	Lambda z Lower Limit	9.9800	h
LAMZUL	Lambda z Upper Limit	23.9600	h
LAMZNPT	Number of Points for Lambda z	3	
CORRXY	Correlation Between TimeX and Log ConcY	-1.0000	
R2	R Squared	1.0000	
R2ADJ	R Squared Adjusted	1.0000	
AUCLST	AUC to Last Nonzero Conc	3783.5835	h*ug/L

AUCALL	AUC All	3783.5835	h*ug/L
AUCIFO	AUC Infinity Obs	3787.2139	h*ug/L
AUCIFP	AUC Infinity Pred	3787.2165	h*ug/L
AUCPEO	AUC %Extrapolation Obs	0.0959	%
AUCPEP	AUC %Extrapolation Pred	0.0959	%
AUMCLST	AUMC to Last Nonzero Conc	16497.2643	h2*ug/L
AUMCIFO	AUMC Infinity Obs	16595.8101	h2*ug/L
AUMCIFP	AUMC Infinity Pred	16595.8794	h2*ug/L
AUMCPEO	AUMC %Extrapolation Obs	0.5938	%
AUMCPEP	AUMC % Extrapolation Pred	0.5942	%
VZFO	Vz Obs by F	0.0000	L
VZFP	Vz Pred by F	0.0000	L
CLFO	Total CL Obs by F	0.0000	L/h
CLFP	Total CL Pred by F	0.0000	L/h
MRTEVLST	MRT Extravasc to Last Nonzero Conc	4.3602	h
MRTEVIFO	MRT Extravasc Infinity Obs	4.3821	h
MRTEVIFP	MRT Extravasc Infinity Pred	4.3821	h

SUBJ 36, GRP RT, PRD 2, TRT T