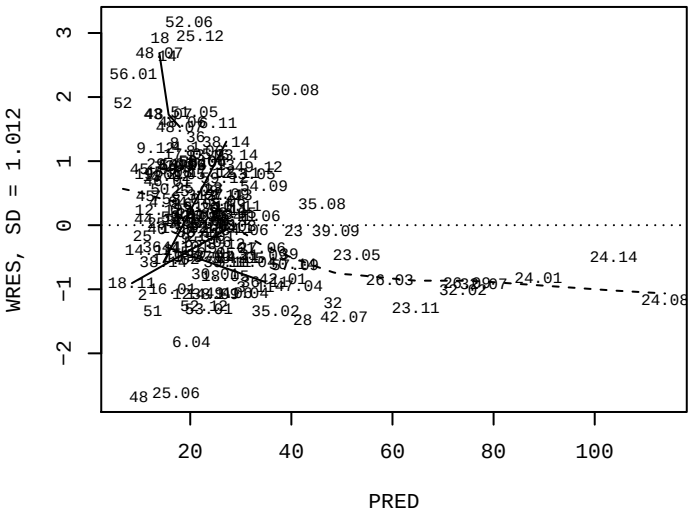
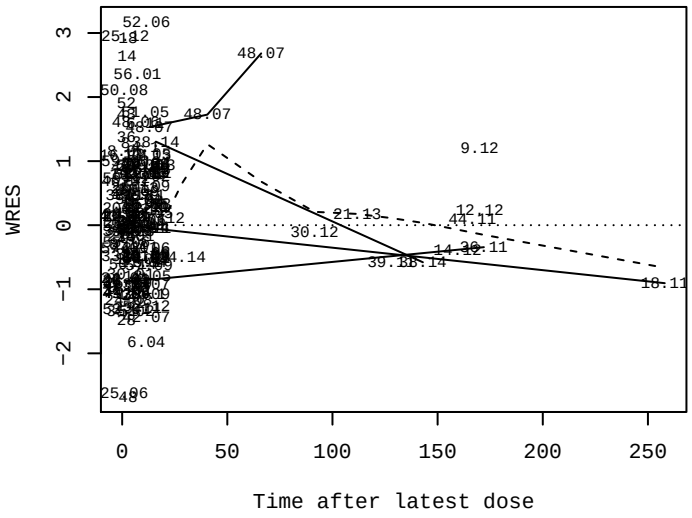
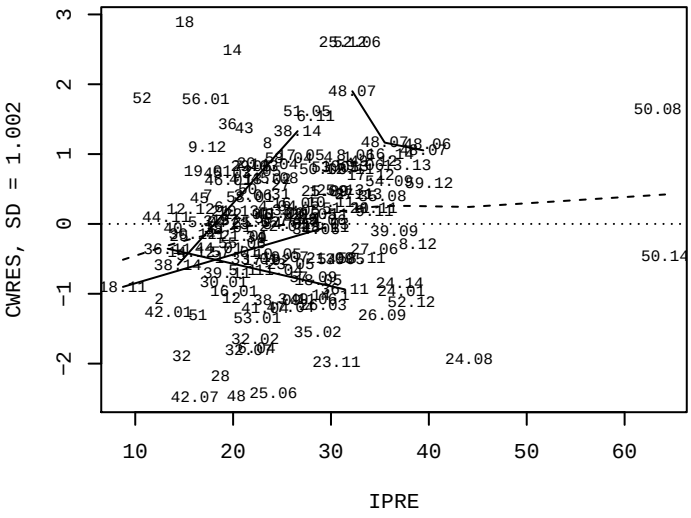
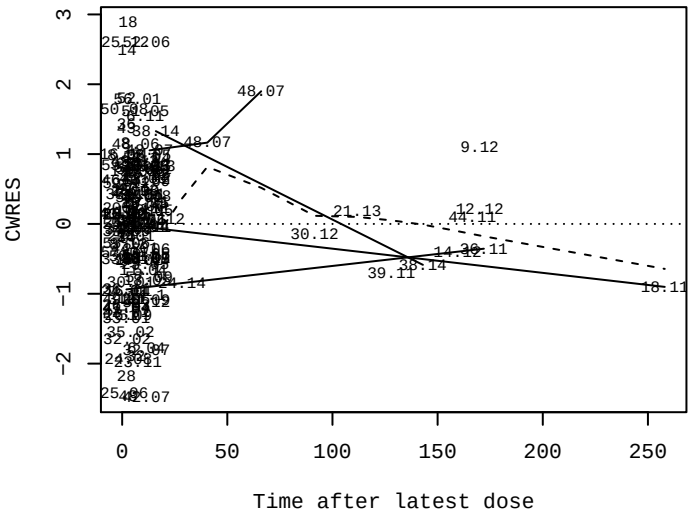
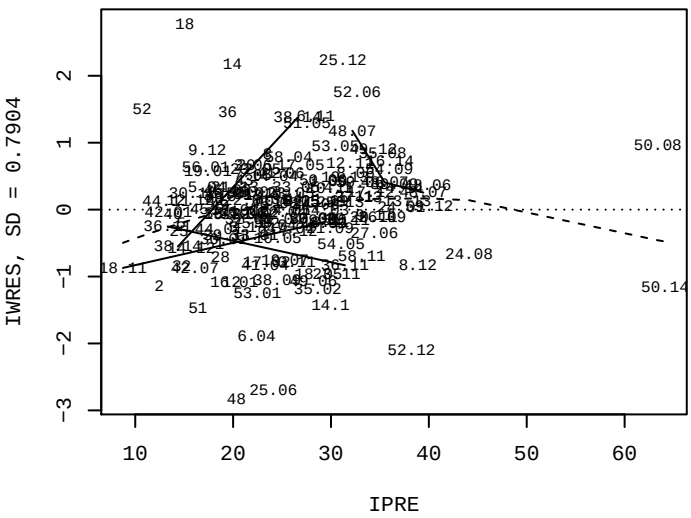
Residuals of Model 2005

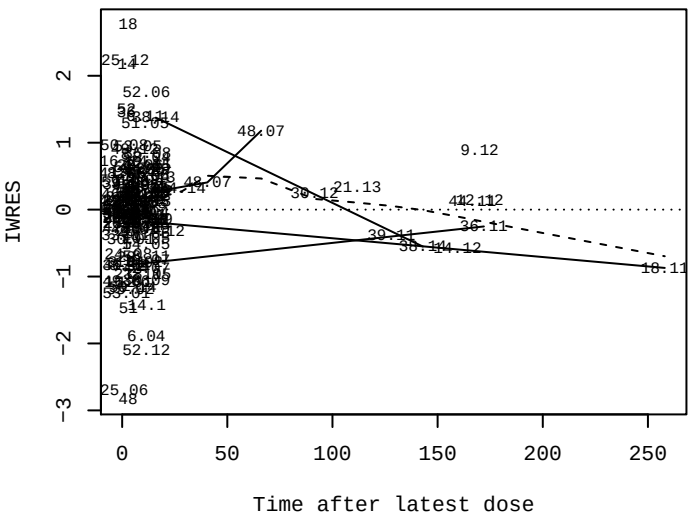




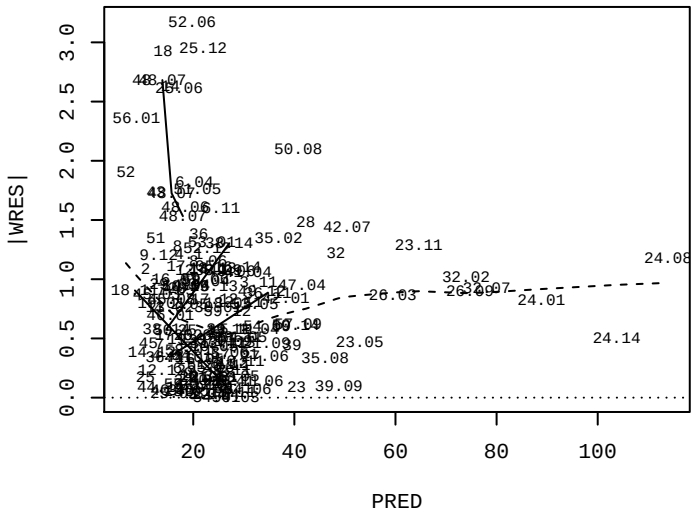


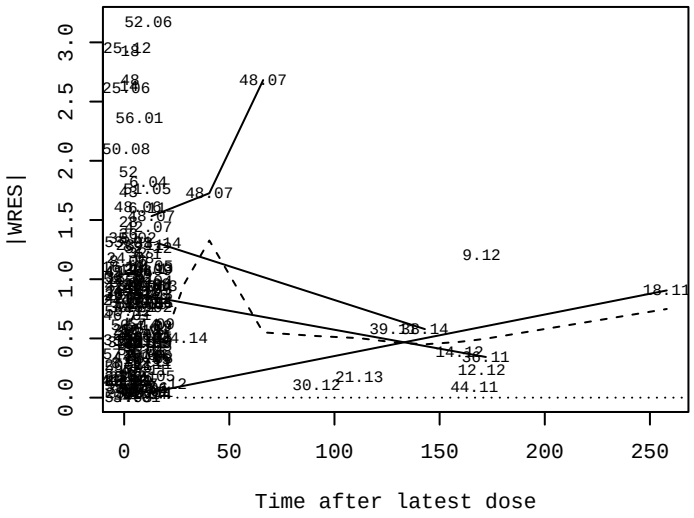


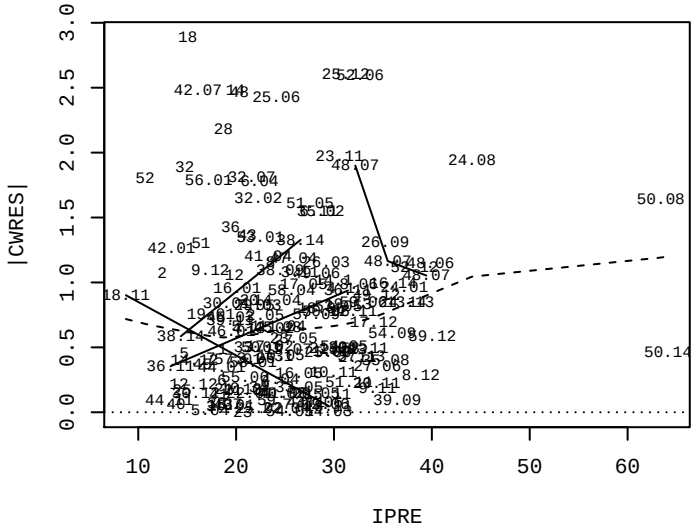


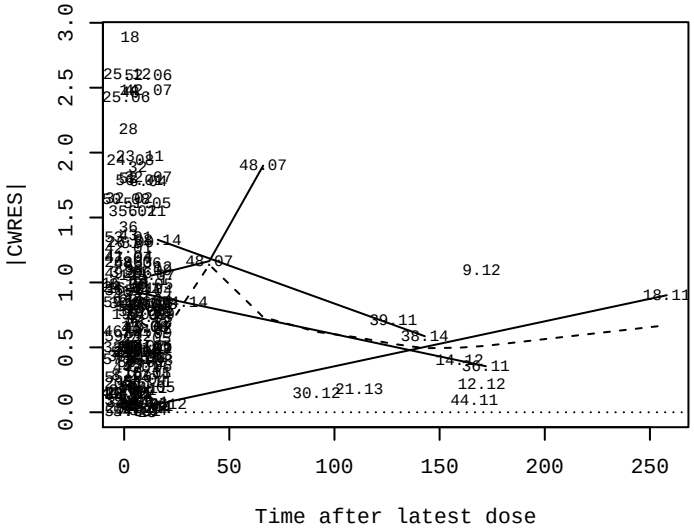


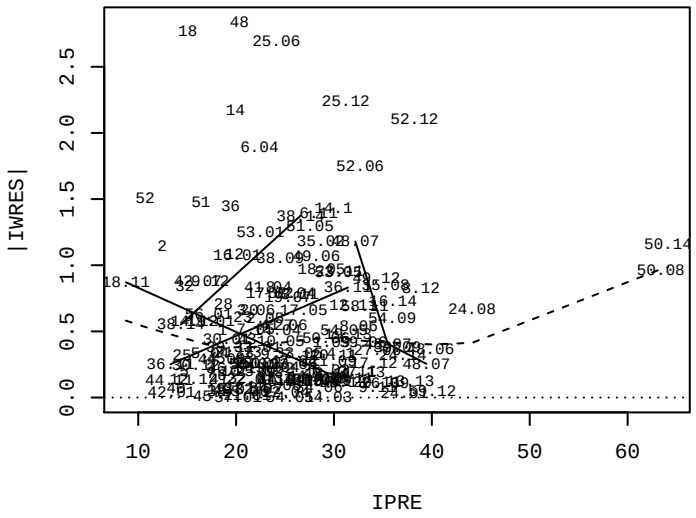
Absolute Values of Residuals of Model 2005

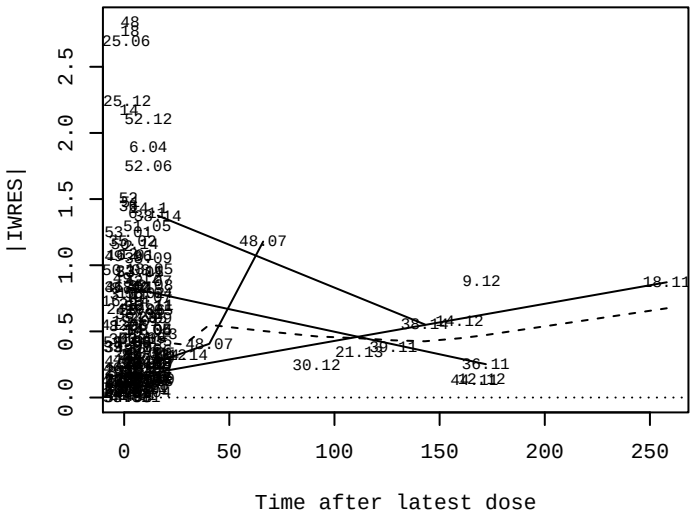




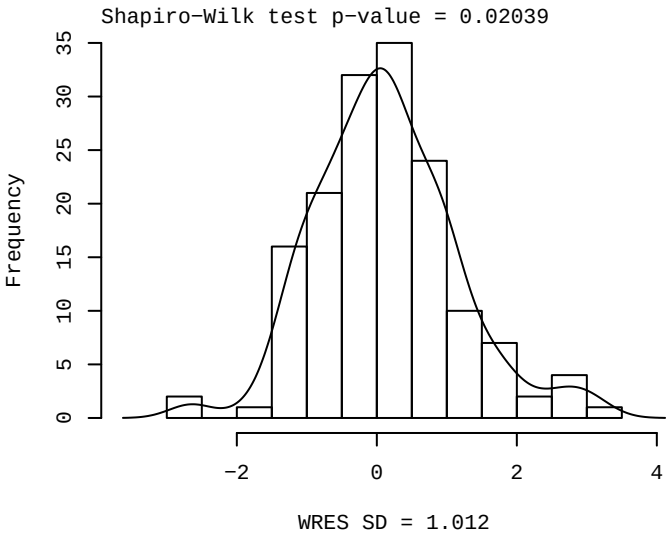


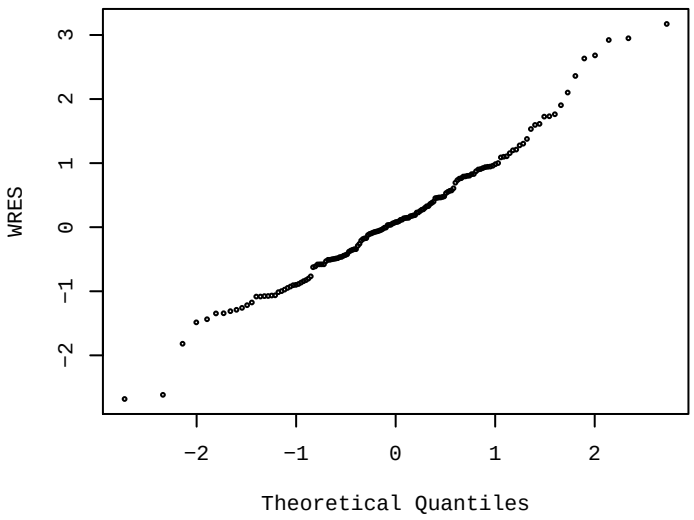


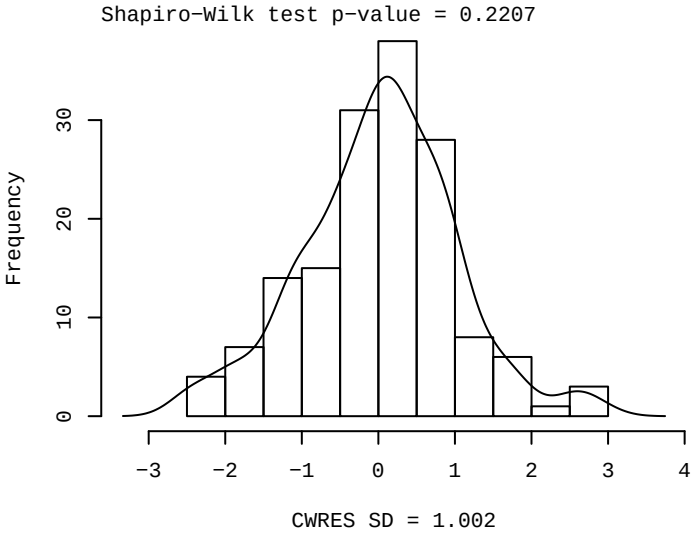


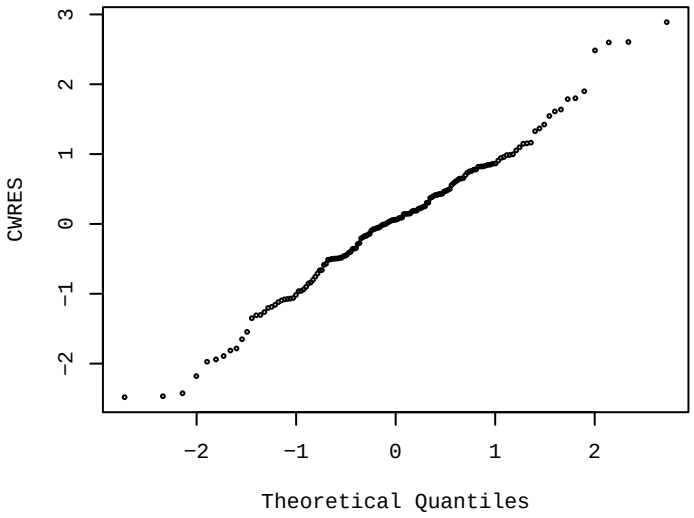


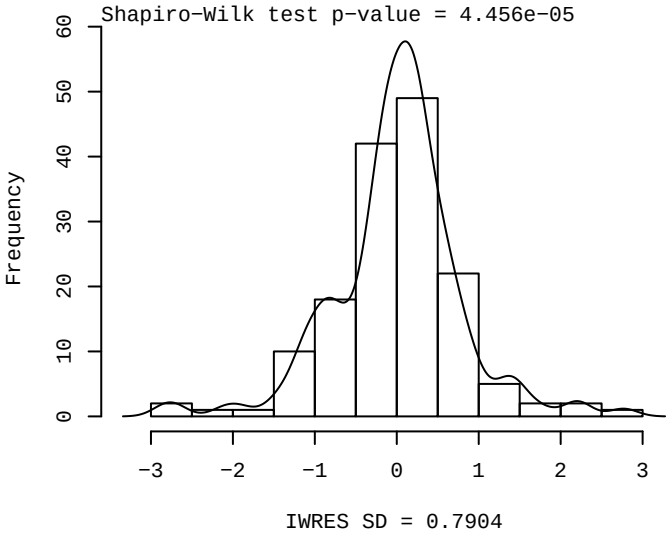
Distribution of Residuals of Model 2005

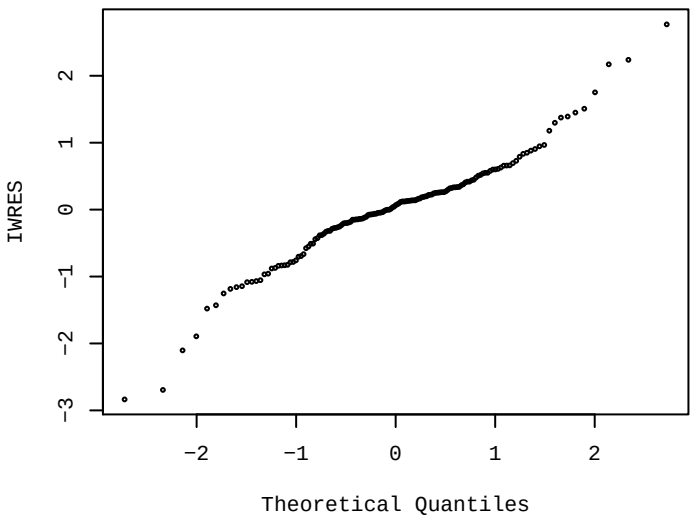






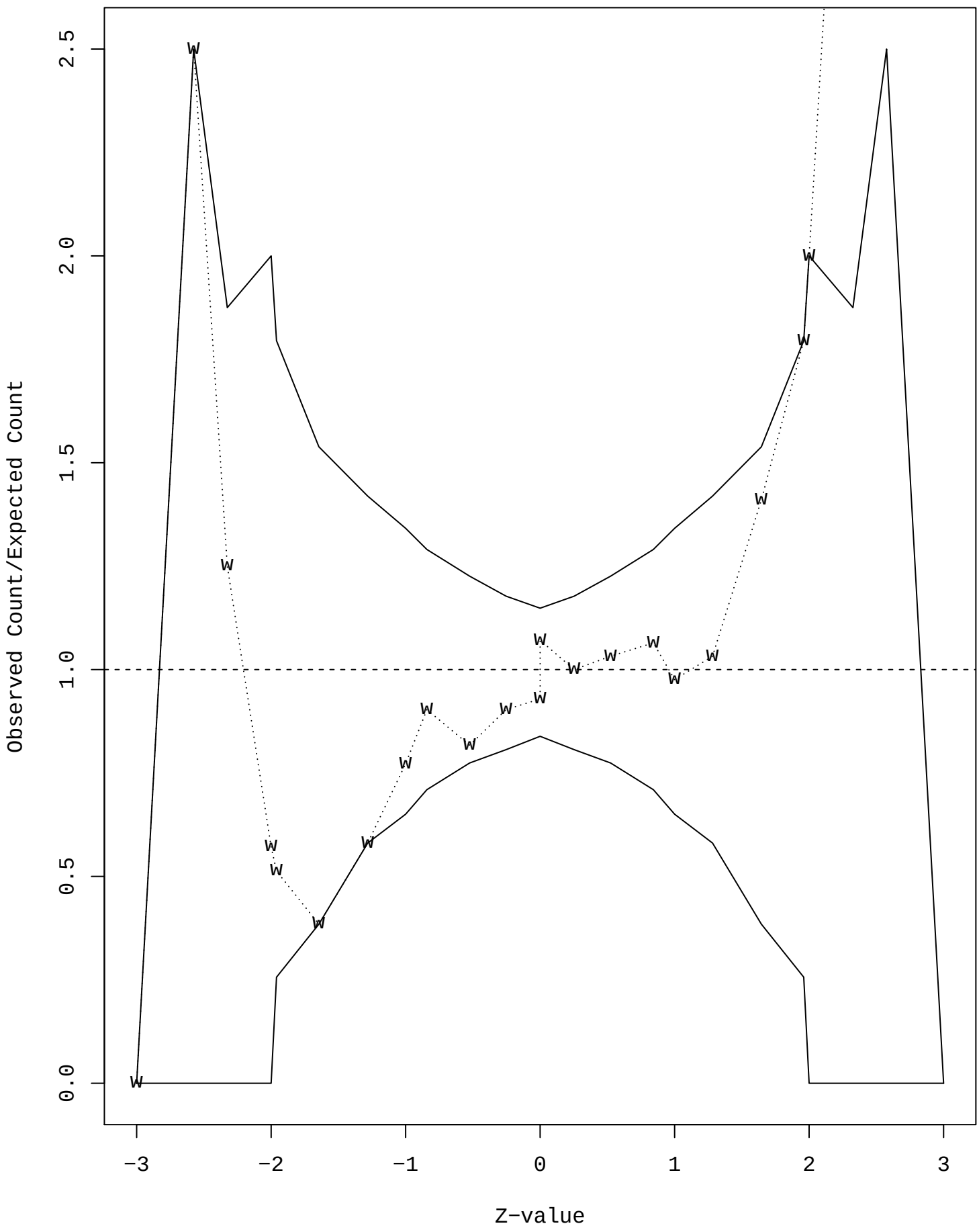


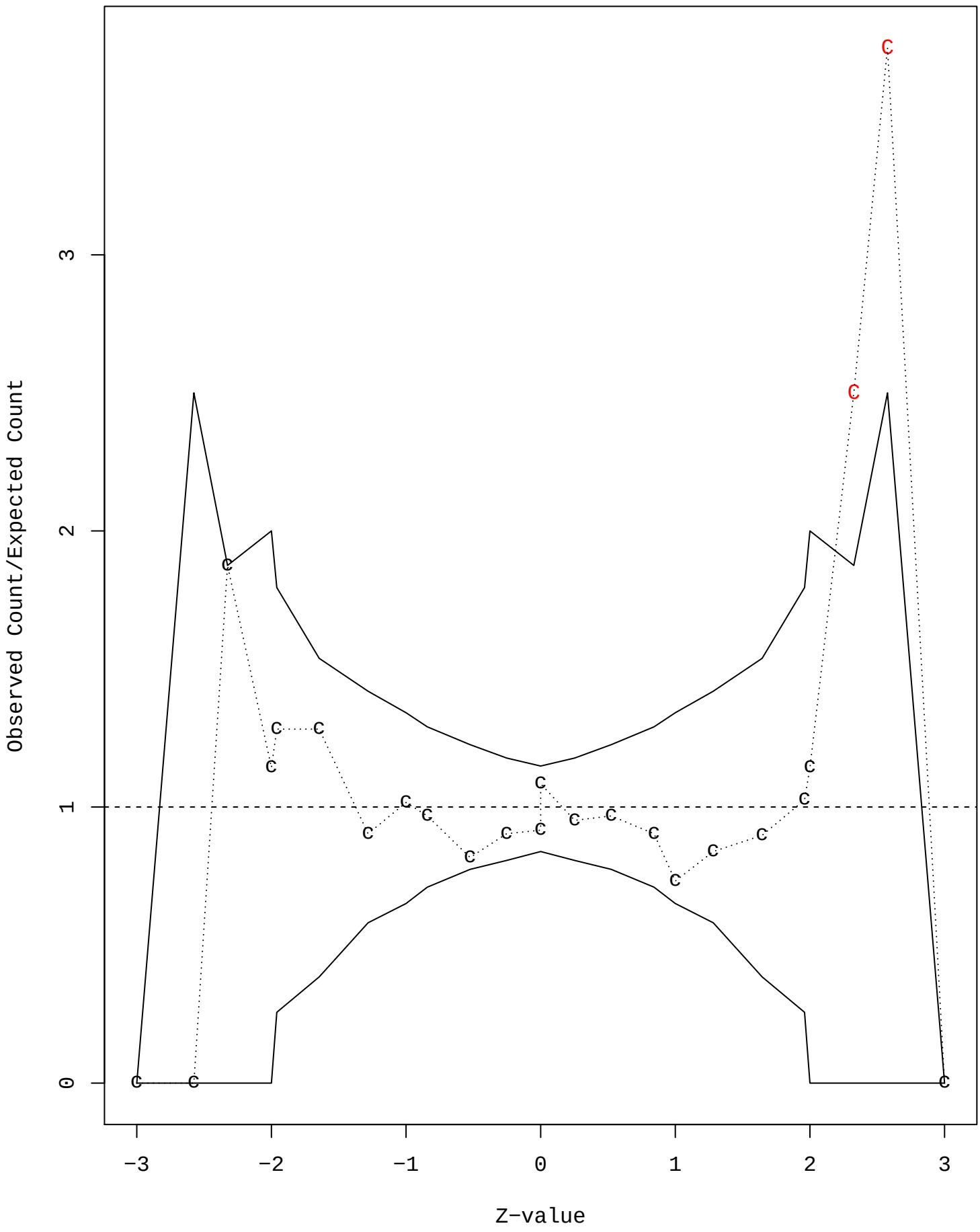


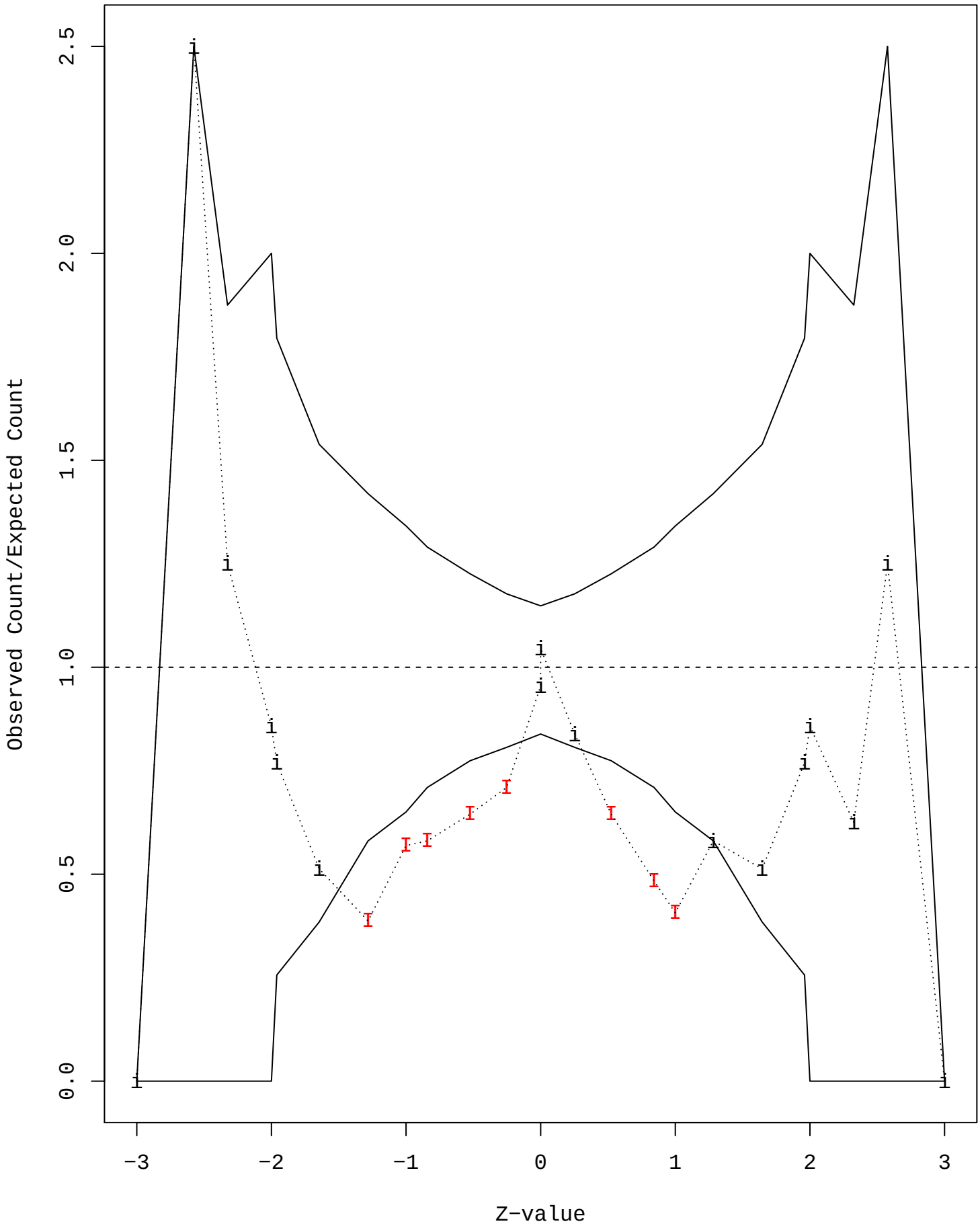


Test of residual counts using binomial distribution

	Z−value	Percent	Expected	LB	UB	WRES Cnt	WRES p−val	CWRE Cnt	CWRE p−val	IWRE Cnt	IWRE p−val
[1,]	−3.000	0.13	0.2	0	0	0	0.189	0	0.189	0	0.189
[2,]	−2.576	0.50	0.8	0	2	2	0.043	0	0.460	2	0.043
[3,]	−2.326	1.00	1.6	0	3	2	0.203	3	0.071	2	0.203
[4,]	−2.000	2.28	3.5	0	7	2	0.313	4	0.278	3	0.470
[5,]	−1.960	2.50	3.9	1	7	2	0.253	5	0.193	3	0.456
[6,]	−1.645	5.00	7.8	3	12	3	0.046	10	0.155	4	0.109
[7,]	−1.282	10.00	15.5	9	22	9	0.047	14	0.408	6	0.004
[8,]	−1.000	15.87	24.6	16	33	19	0.130	25	0.412	14	0.010
[9,]	−0.842	20.00	31.0	22	40	28	0.313	30	0.468	18	0.004
[10,]	−0.524	30.00	46.5	36	57	38	0.079	38	0.079	30	0.002
[11,]	−0.253	40.00	62.0	50	73	56	0.184	56	0.184	44	0.002
[12,]	0.000	50.00	77.5	65	89	72	0.211	71	0.168	74	0.315
[13,]	0.000	50.00	77.5	65	89	83	0.168	84	0.130	81	0.260
[14,]	0.253	40.00	62.0	50	73	62	0.465	59	0.343	52	0.059
[15,]	0.524	30.00	46.5	36	57	48	0.359	45	0.435	30	0.002
[16,]	0.842	20.00	31.0	22	40	33	0.303	28	0.313	15	0.000
[17,]	1.000	15.87	24.6	16	33	24	0.498	18	0.086	10	0.000
[18,]	1.282	10.00	15.5	9	22	16	0.382	13	0.305	9	0.047
[19,]	1.645	5.00	7.8	3	12	11	0.089	7	0.486	4	0.109
[20,]	1.960	2.50	3.9	1	7	7	0.042	4	0.346	3	0.456
[21,]	2.000	2.28	3.5	0	7	7	0.026	4	0.278	3	0.470
[22,]	2.326	1.00	1.6	0	3	6	0.001	4	0.020	1	0.460
[23,]	2.576	0.50	0.8	0	2	5	0.000	3	0.008	1	0.182
[24,]	3.000	0.13	0.2	0	0	1	0.019	0	0.189	0	0.189


Ratio of WRES Count to Expected Count
Observed Count/Expected Count
0.0
0.5
1.0
1.5
2.0
2.5
−3
−2
−1
0
1
2
3
Z−value


Ratio of CWRES Count to Expected Count
Observed Count/Expected Count
Z-value
0
1
2
3
−3
−2
−1
0
1
2
3


Ratio of IWRES Count to Expected Count
Observed Count/Expected Count
0.0
0.5
1.0
1.5
2.0
2.5
−3
−2
−1
0
1
2
3
Z−value

Extreme WRES values larger than 3

	ID	TIME	DV	PRED	IPRE	WRES	CWRE	IWRE
661	52	83	38.1	19.803	32.681	3.1724	2.5987	1.7525

Extreme WRES values larger than 2

	ID	TIME	DV	PRED	IPRE	WRES	CWRE	IWRE
189	14	2.3	25.6	15.4680	19.934	2.6333	2.4848	2.17100
254	18	2.8	21.9	14.0280	15.056	2.9219	2.8894	2.76820
367	25	61.5	16.7	17.2170	24.111	−2.6162	−2.4245	−2.69420
375	25	121.5	38.0	21.9800	31.219	2.9490	2.6054	2.23850
591	48	2.8	12.9	9.8193	20.337	−2.6812	−2.4672	−2.83580
602	48	137.9	35.8	13.8950	32.180	2.6817	1.8999	1.17890
630	50	89.0	67.9	40.7800	63.404	2.1020	1.6382	0.96617
661	52	83.0	38.1	19.8030	32.681	3.1724	2.5987	1.75250
701	56	20.0	18.8	8.7761	17.209	2.3609	1.7875	0.62907

Extreme CWRE values larger than 2

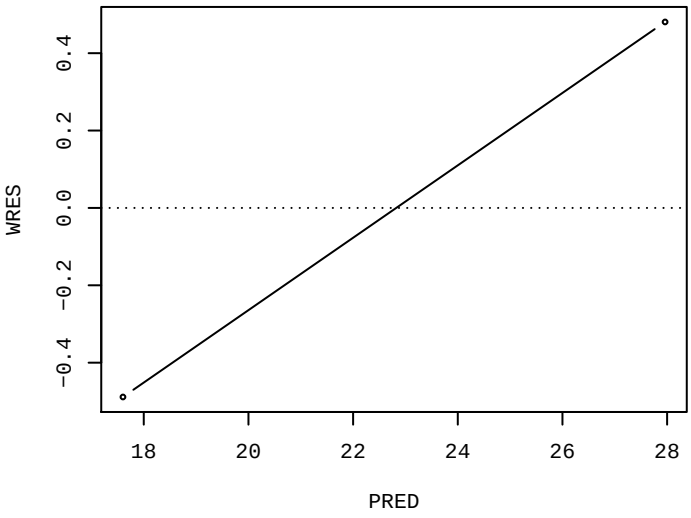
	ID	TIME	DV	PRED	IPRE	WRES	CWRE	IWRE
189	14	2.3	25.6	15.4680	19.934	2.6333	2.4848	2.17100
254	18	2.8	21.9	14.0280	15.056	2.9219	2.8894	2.76820
367	25	61.5	16.7	17.2170	24.111	−2.6162	−2.4245	−2.69420
375	25	121.5	38.0	21.9800	31.219	2.9490	2.6054	2.23850
400	28	2.0	16.9	42.2460	18.708	−1.4849	−2.1790	−0.70286
551	42	95.5	13.9	50.4240	16.098	−1.4363	−2.4809	−0.87944
591	48	2.8	12.9	9.8193	20.337	−2.6812	−2.4672	−2.83580
661	52	83.0	38.1	19.8030	32.681	3.1724	2.5987	1.75250

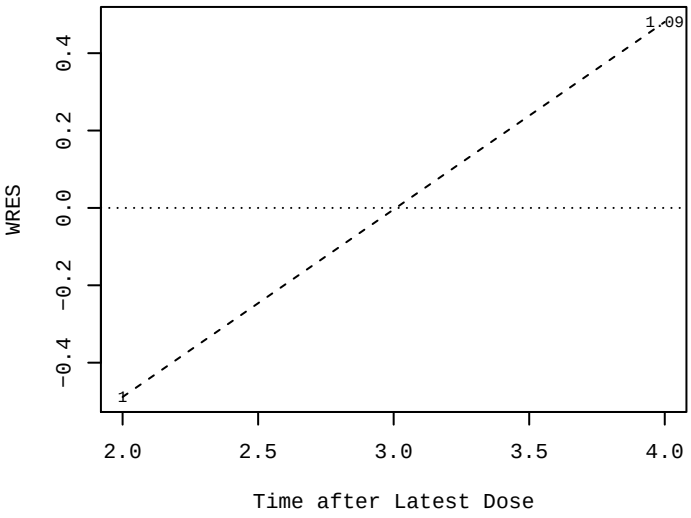
Extreme IWRE values larger than 2

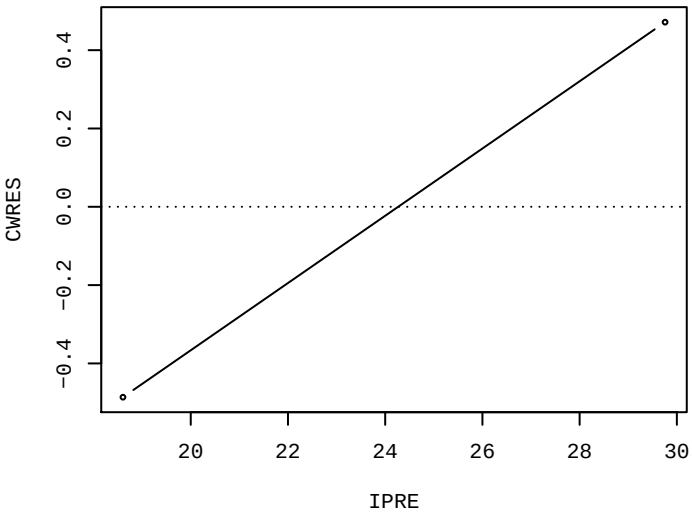
	ID	TIME	DV	PRED	IPRE	WRES	CWRE	IWRE
189	14	2.3	25.6	15.4680	19.934	2.6333	2.4848	2.1710
254	18	2.8	21.9	14.0280	15.056	2.9219	2.8894	2.7682
367	25	61.5	16.7	17.2170	24.111	−2.6162	−2.4245	−2.6942
375	25	121.5	38.0	21.9800	31.219	2.9490	2.6054	2.2385
591	48	2.8	12.9	9.8193	20.337	−2.6812	−2.4672	−2.8358
668	52	155.0	31.2	22.7660	38.230	−1.2590	−1.1186	−2.1033

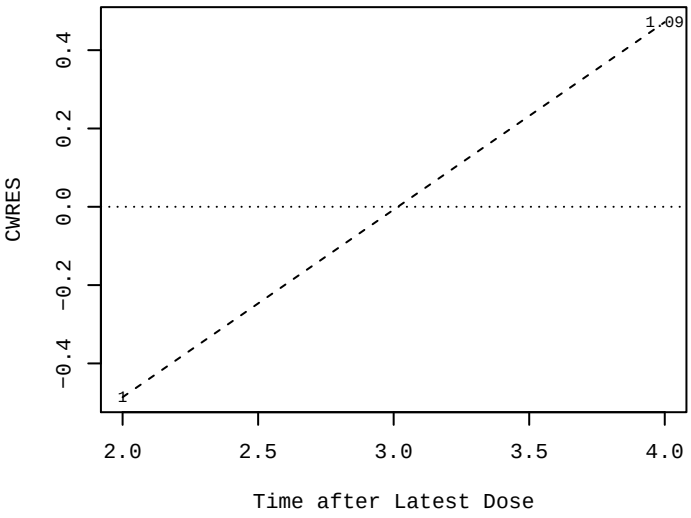
Individiual Residual Curve, ID = 1

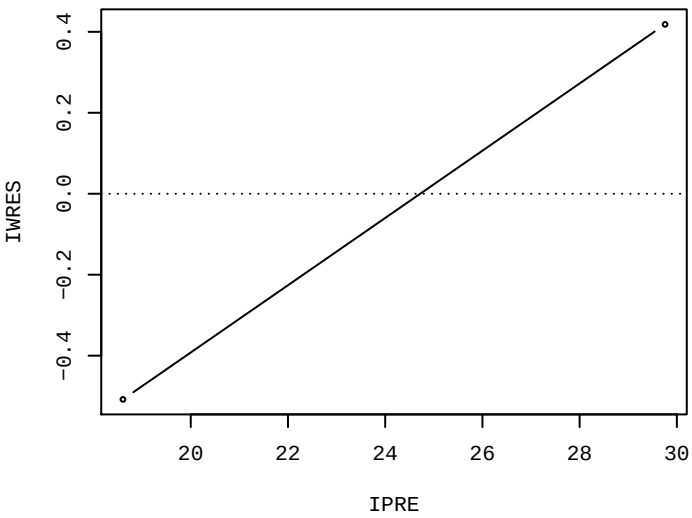
IOFV = 7.86461 , OFV per DV = 3.9323 , Run Test(CWRES) p = 1

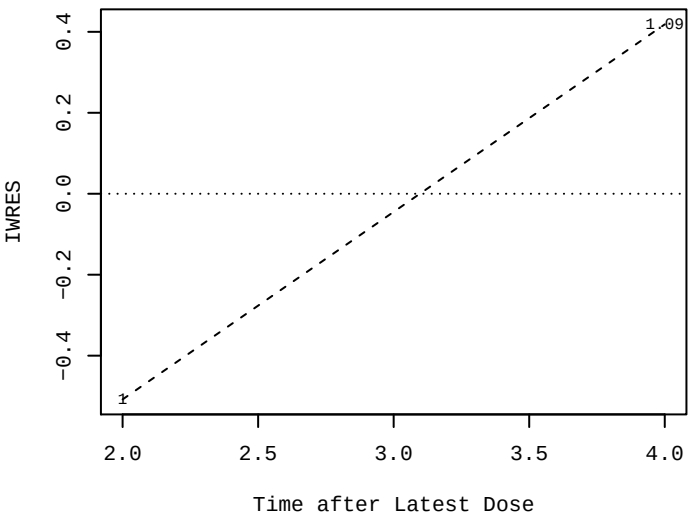








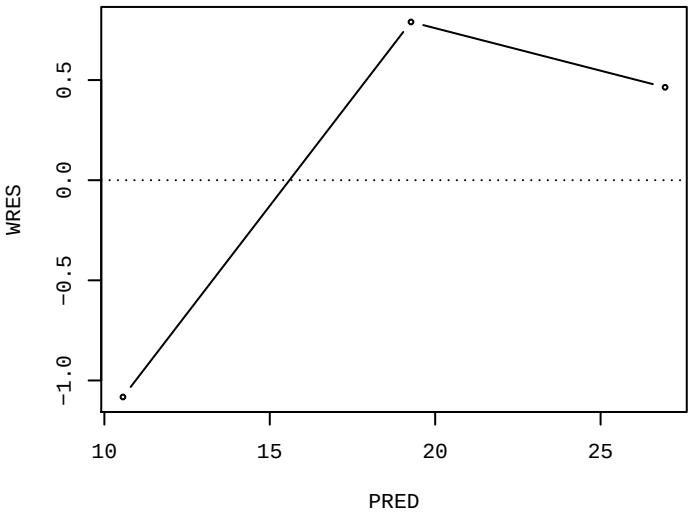


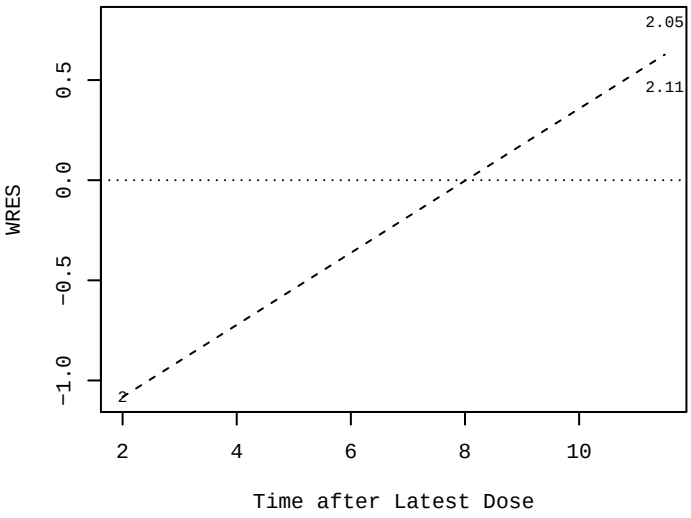


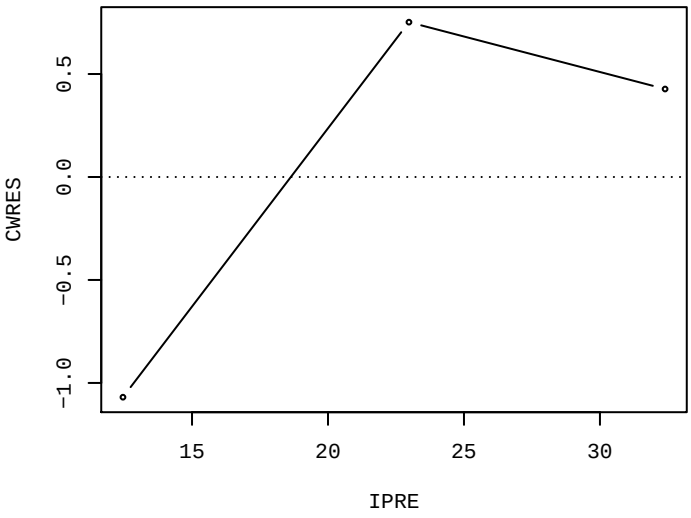
*Fractional number means dosing occasion.

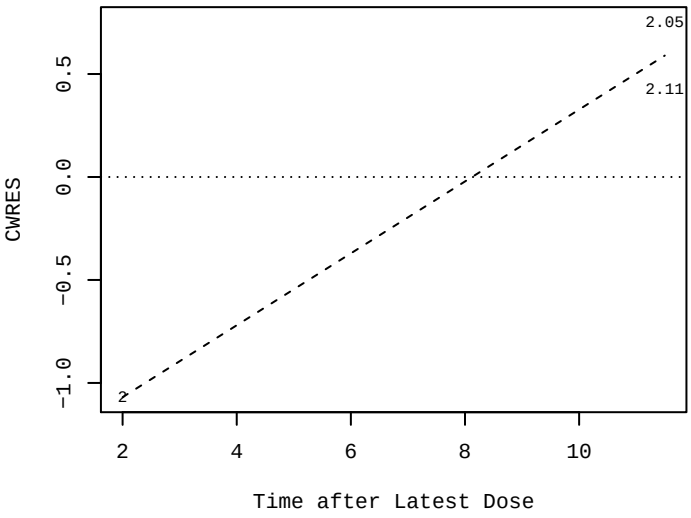
Individiual Residual Curve, ID = 2

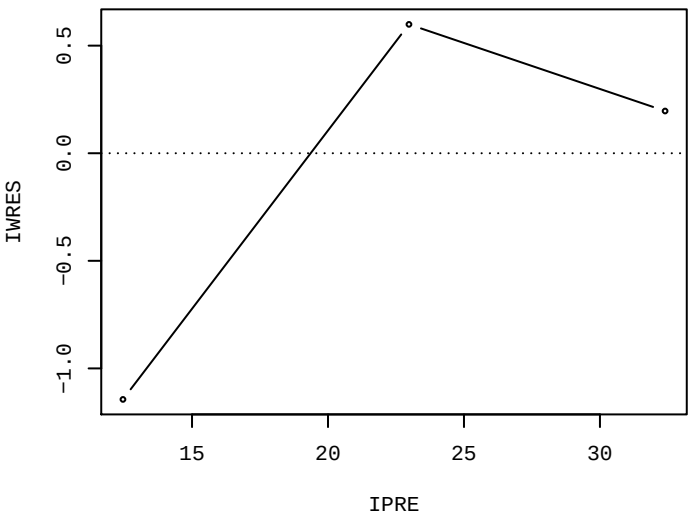
IOFV = 11.5596 , OFV per DV = 3.8532 , Run Test(CWRES) p = 1

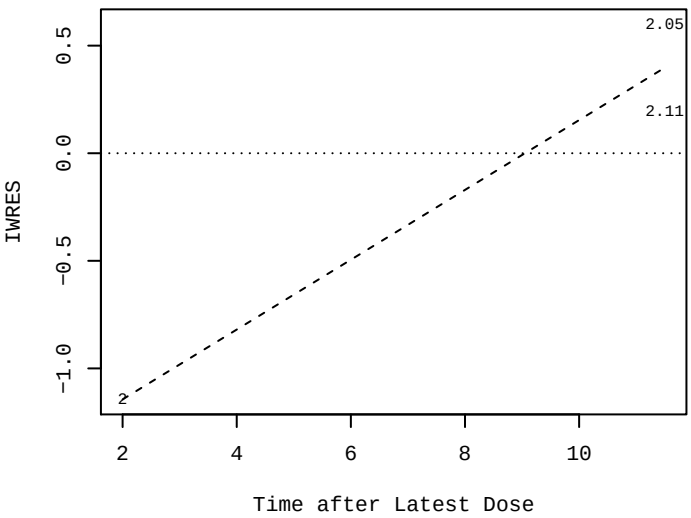






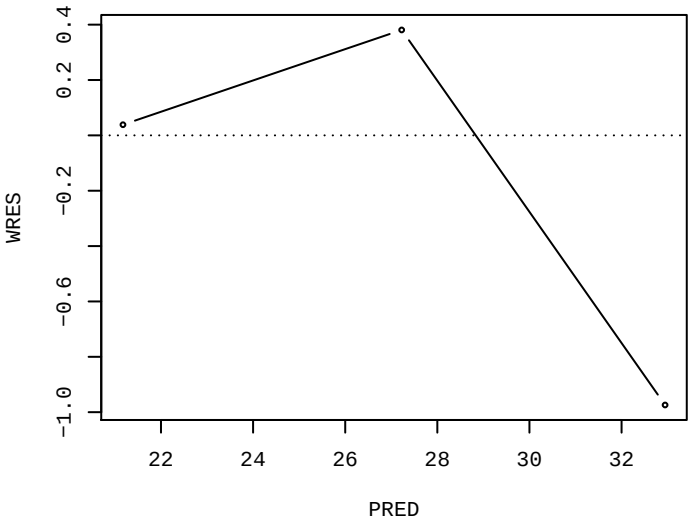


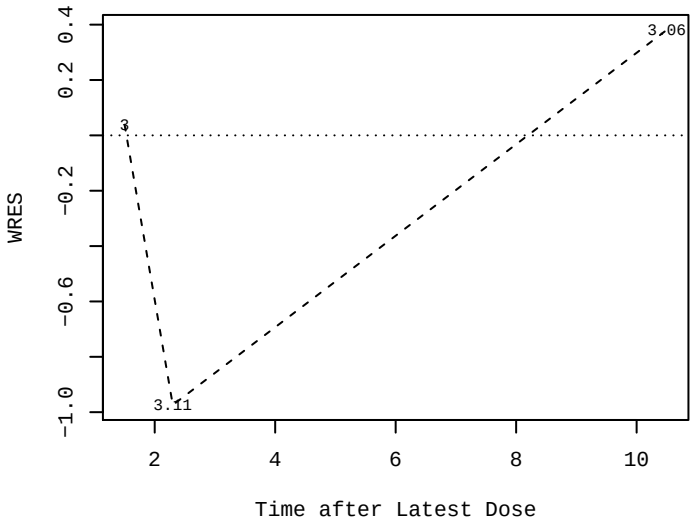


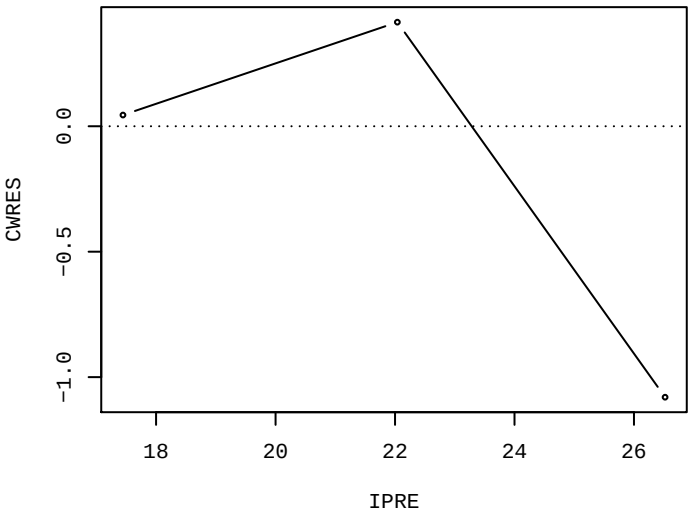


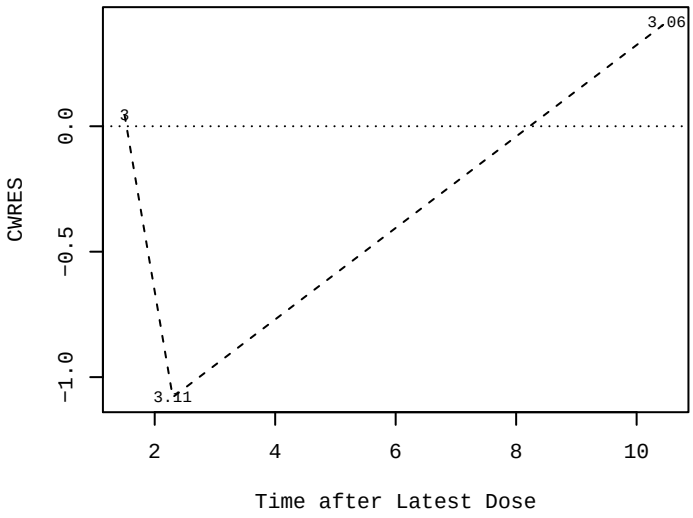
Individiual Residual Curve, ID = 3

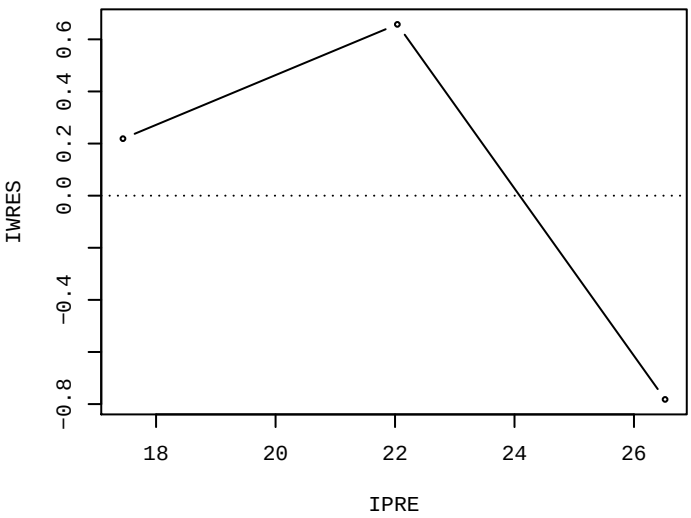
IOFV = 10.9088 , OFV per DV = 3.6363 , Run Test(CWRES) p = 1

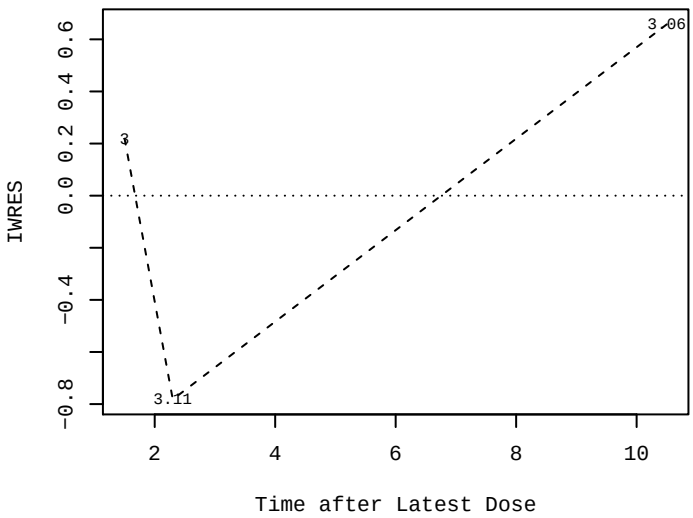








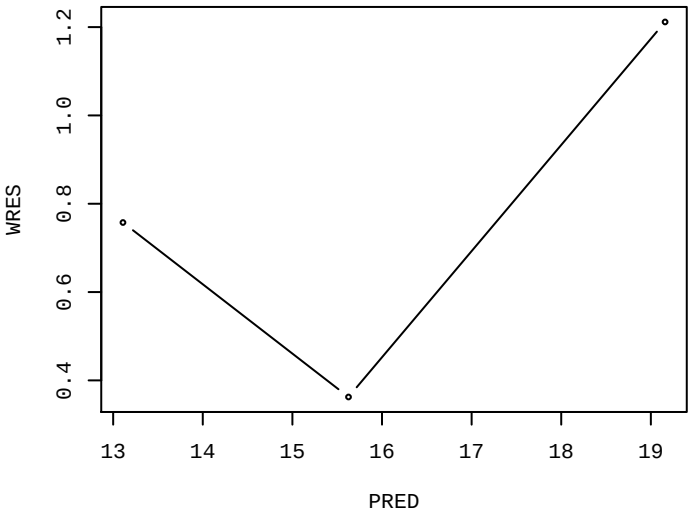


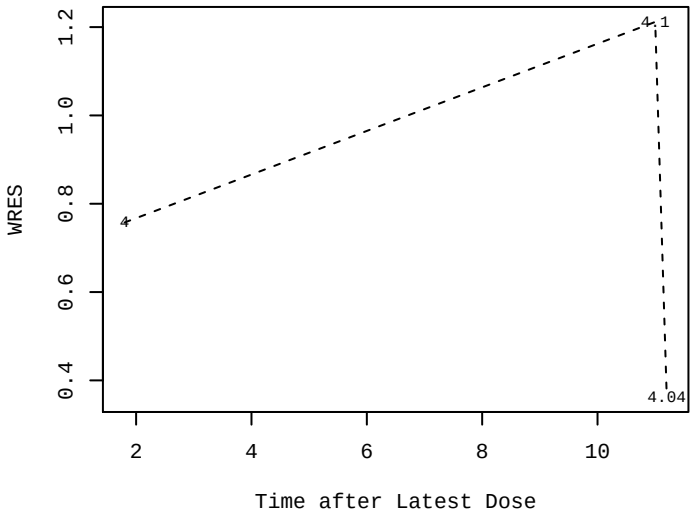


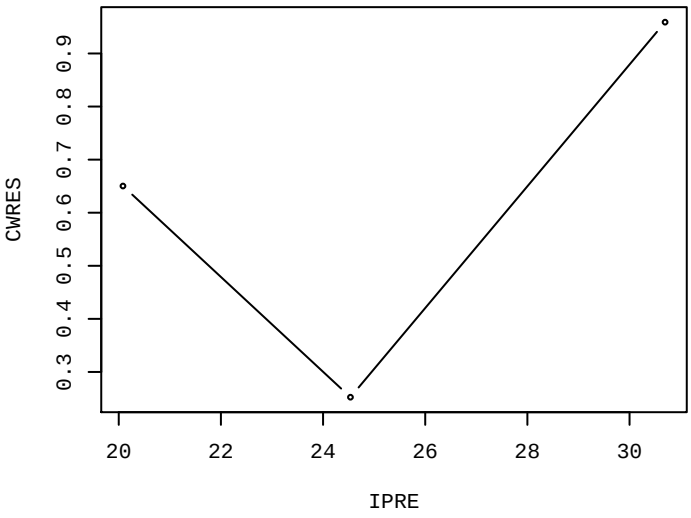
*Fractional number means dosing occasion.

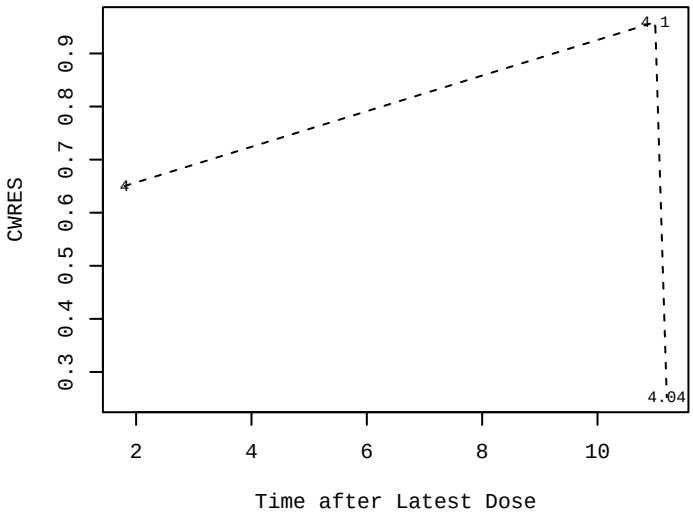
Individiual Residual Curve, ID = 4

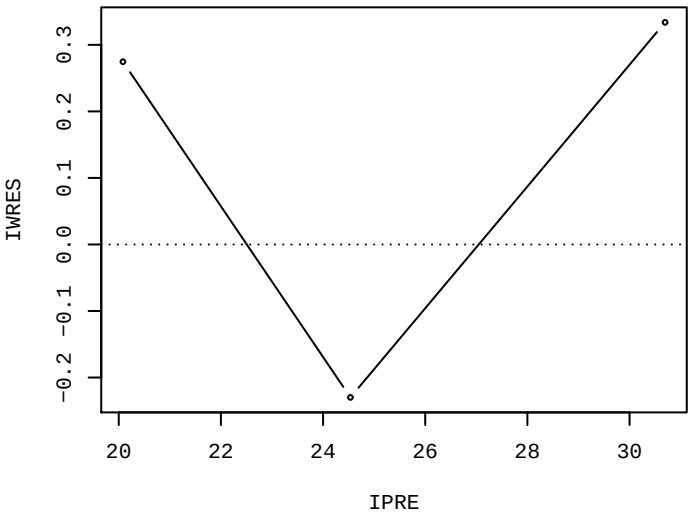
IOFV = 11.3617 , OFV per DV = 3.7872 , Run Test(CWRES) p = 0.25

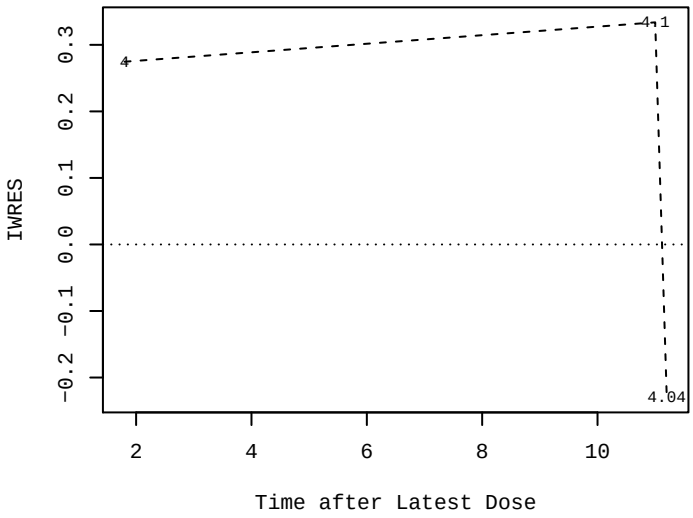








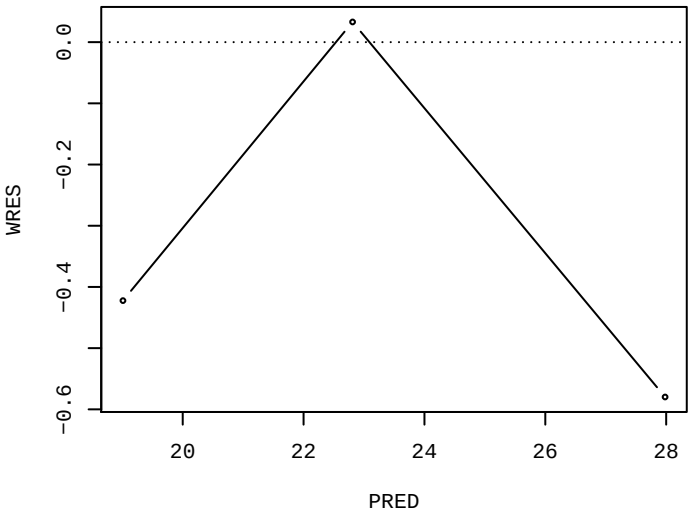


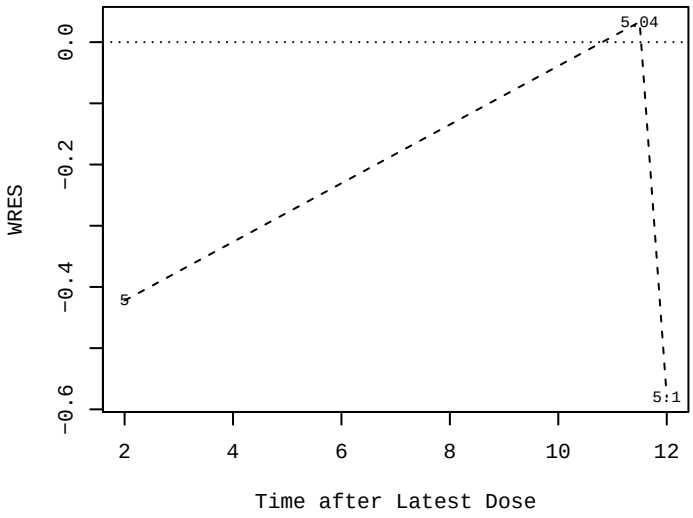


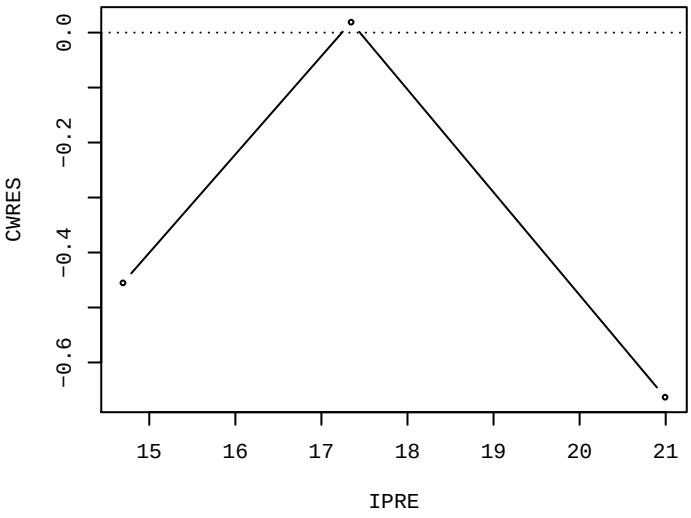
*Fractional number means dosing occasion.

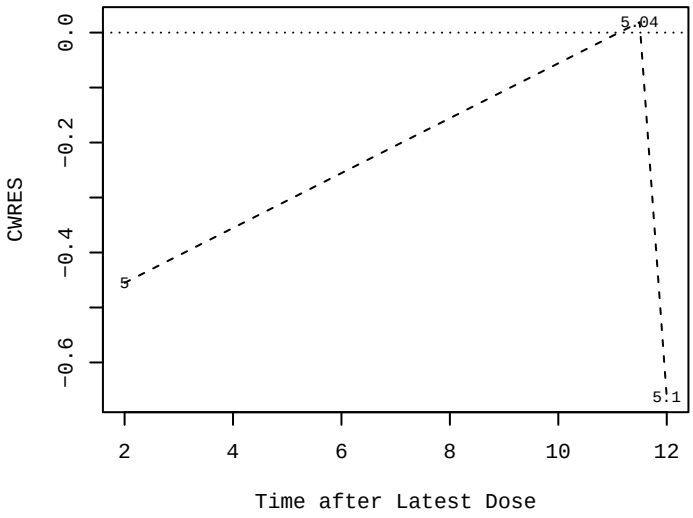
Individiual Residual Curve, ID = 5

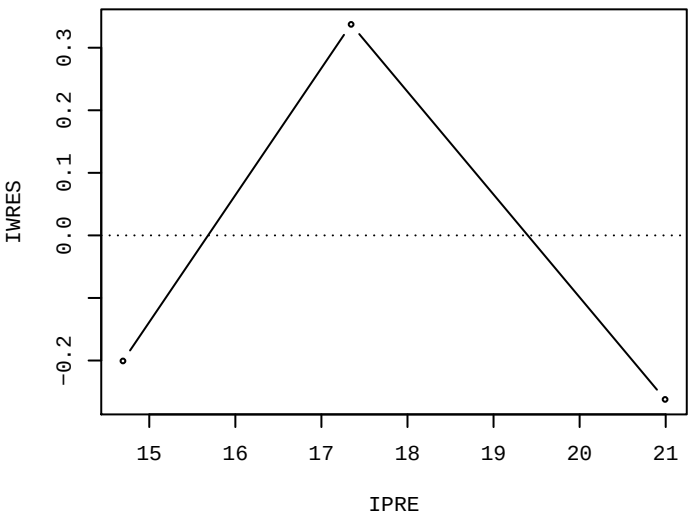
IOFV = 9.57444 , OFV per DV = 3.1915 , Run Test(CWRES) p = 0.333

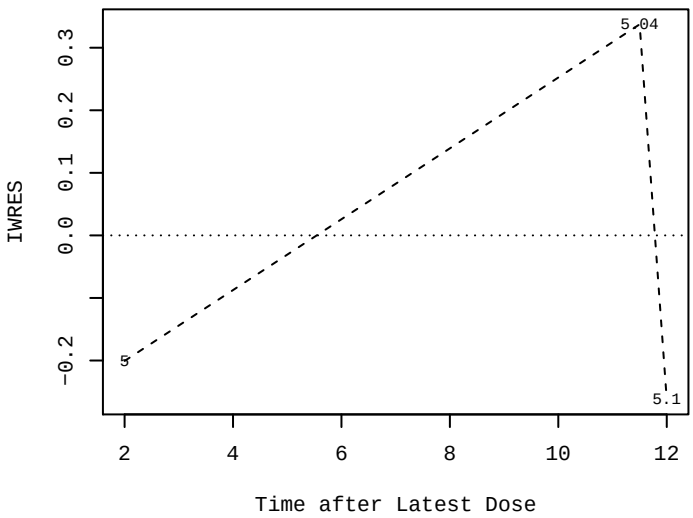








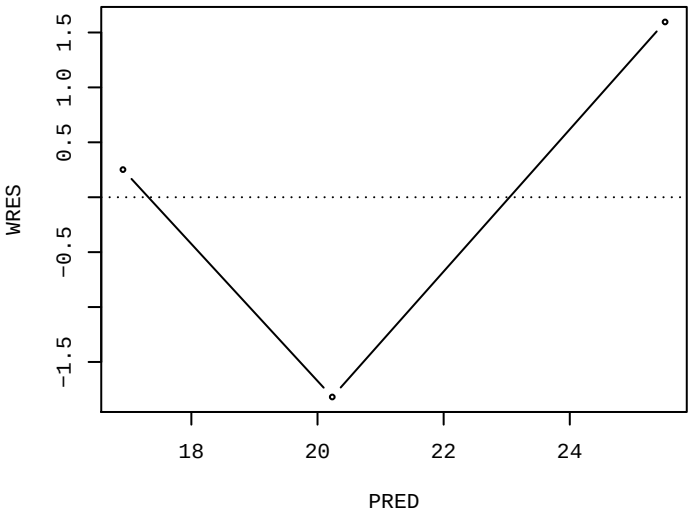


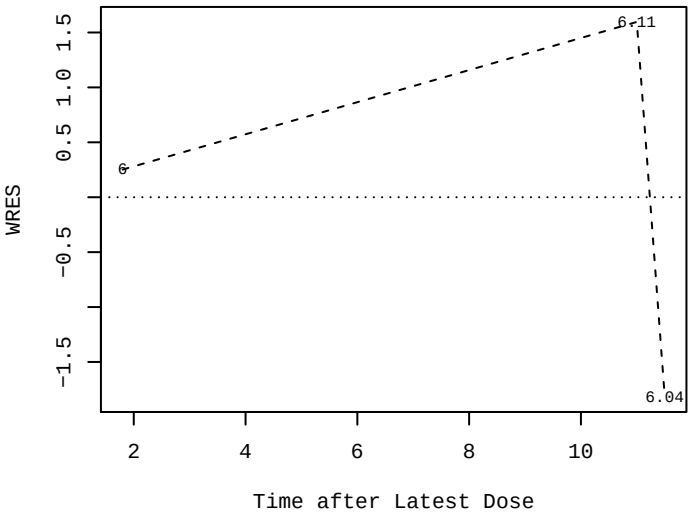


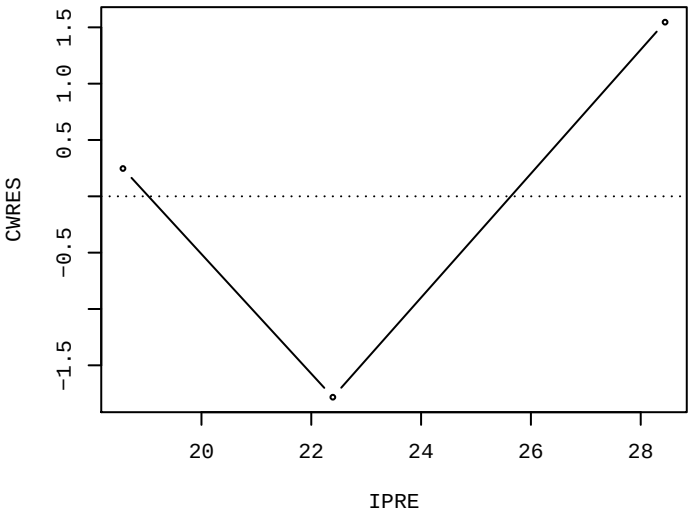
*Fractional number means dosing occasion.

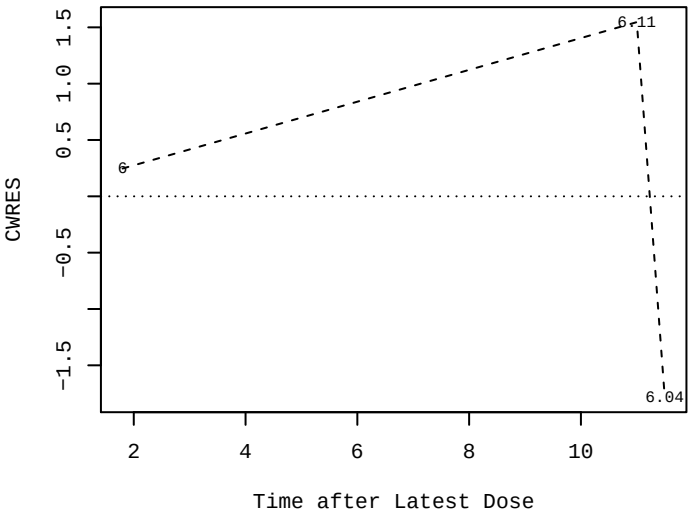
Individiual Residual Curve, ID = 6

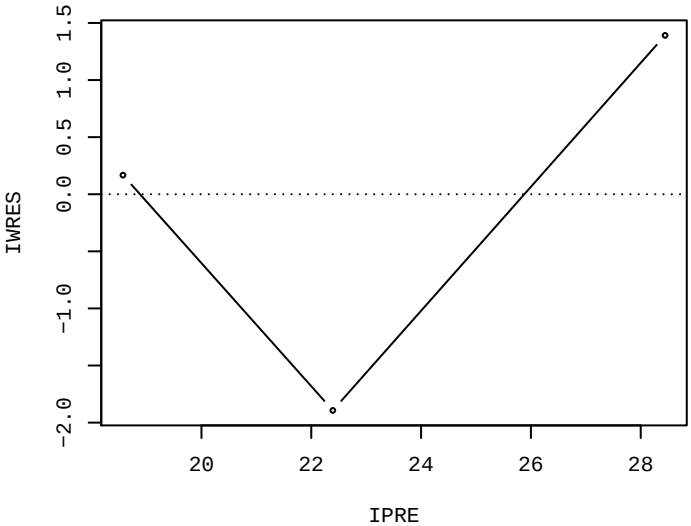
IOFV = 15.3438 , OFV per DV = 5.1146 , Run Test(CWRES) p = 0.333

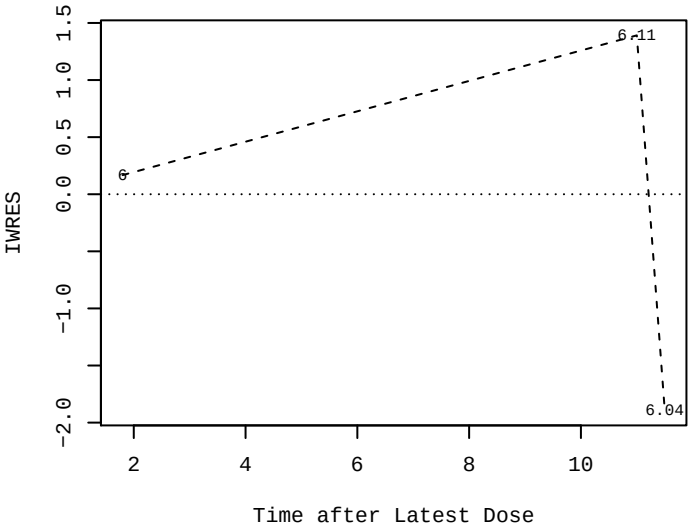








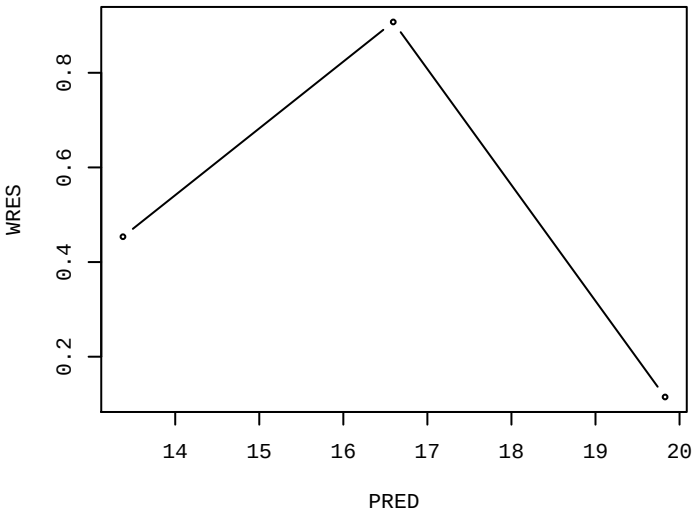


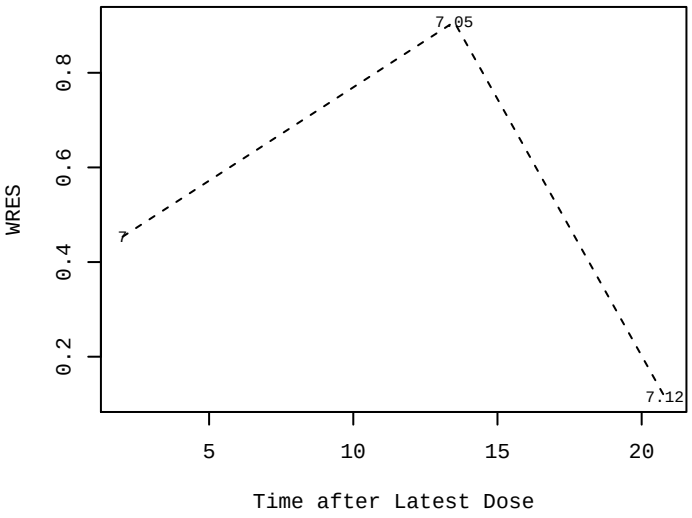


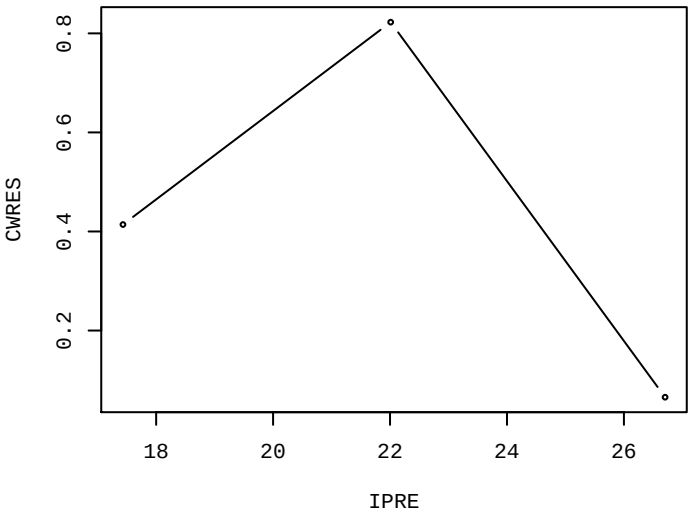
*Fractional number means dosing occasion.

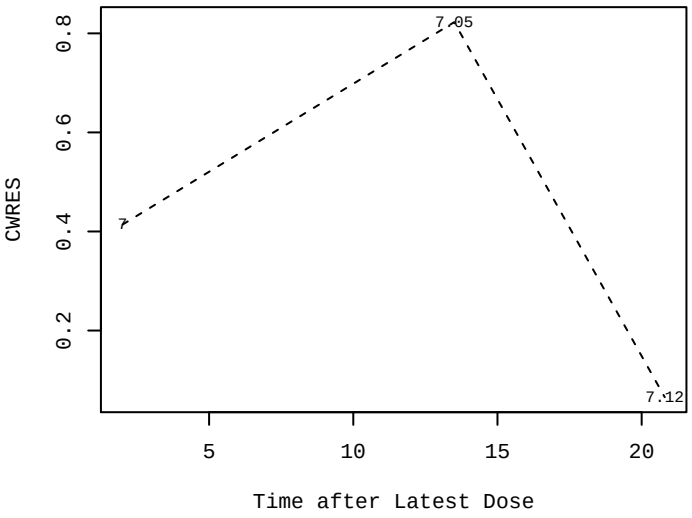
Individiual Residual Curve, ID = 7

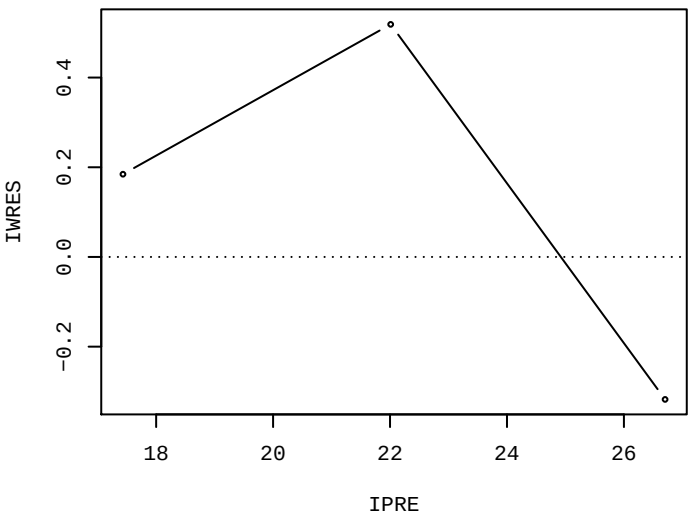
IOFV = 10.4396 , OFV per DV = 3.4799 , Run Test(CWRES) p = 0.25

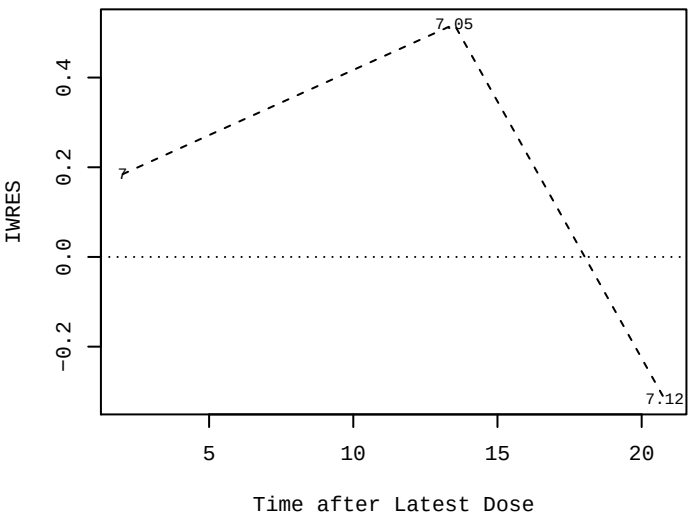








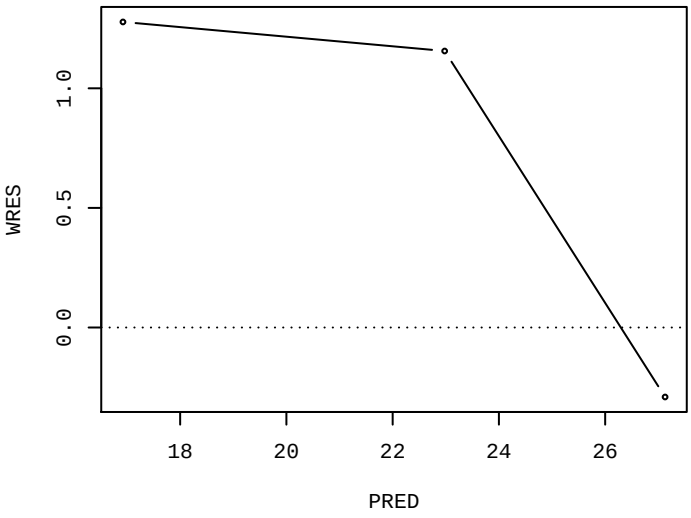


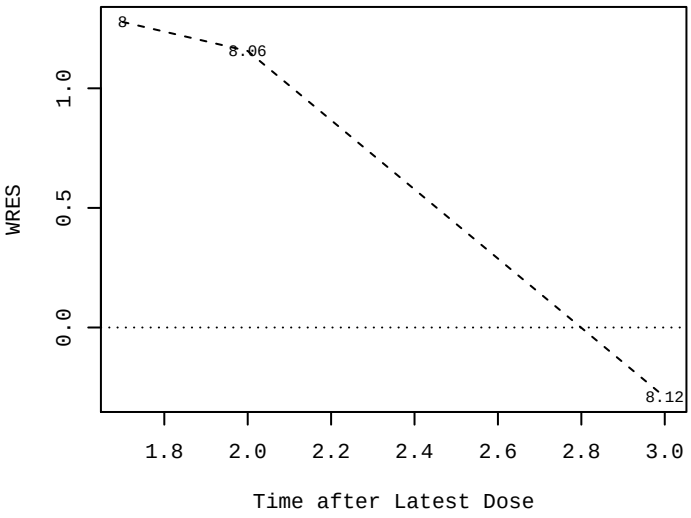


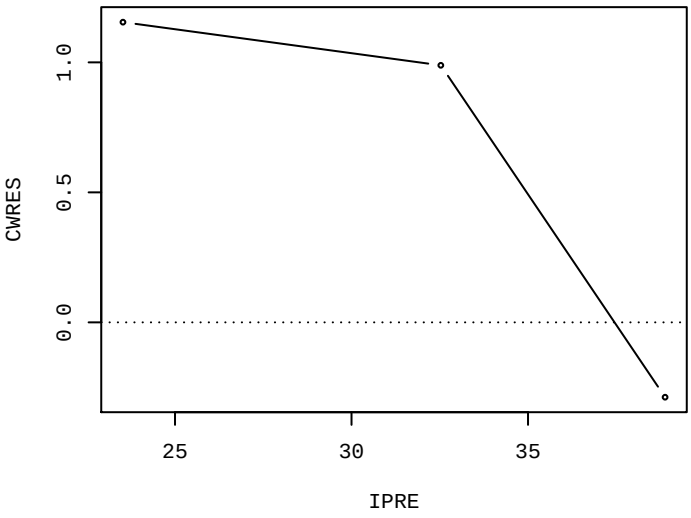
*Fractional number means dosing occasion.

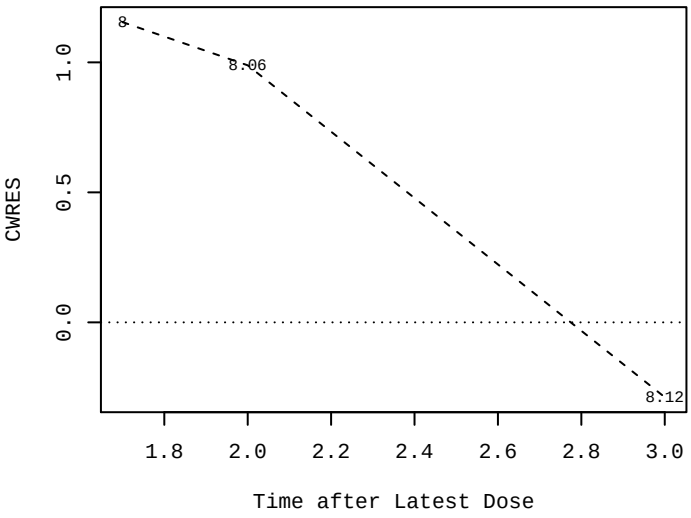
Individiual Residual Curve, ID = 8

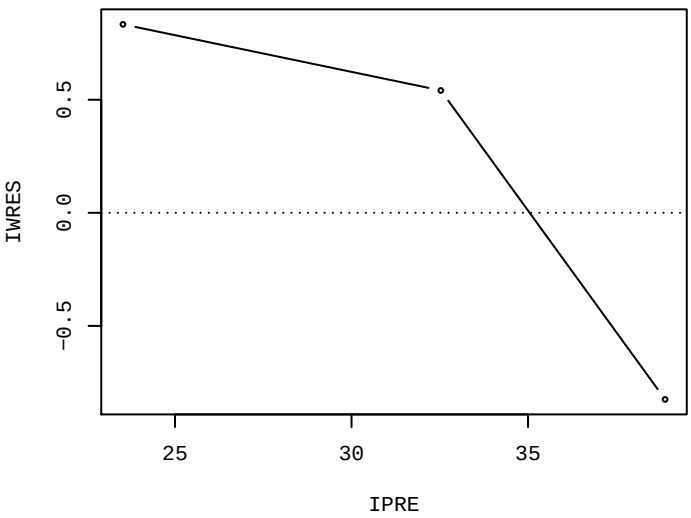
IOFV = 13.1693 , OFV per DV = 4.3898 , Run Test(CWRES) p = 1

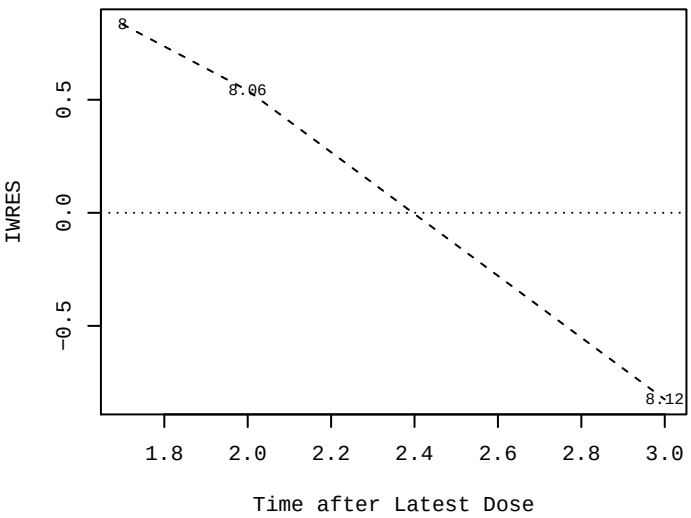






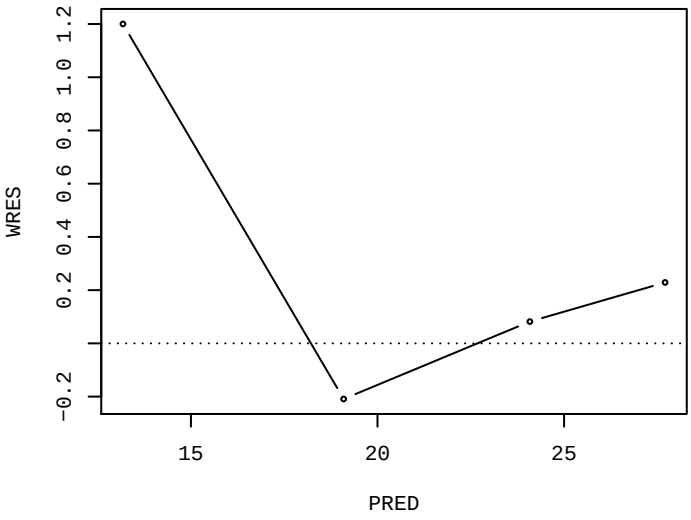


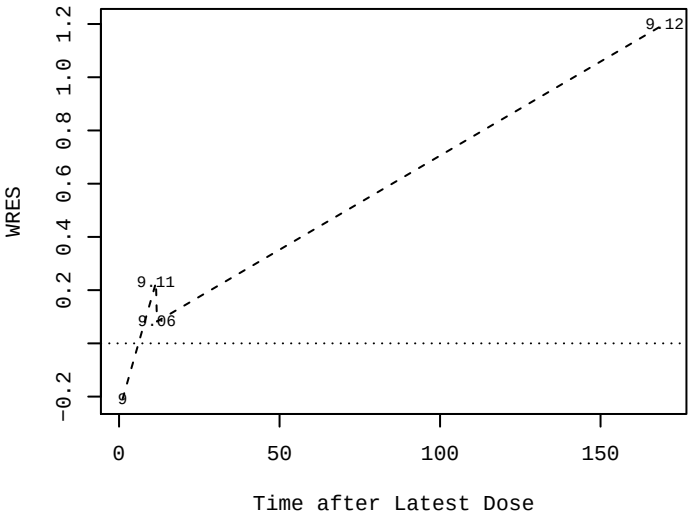


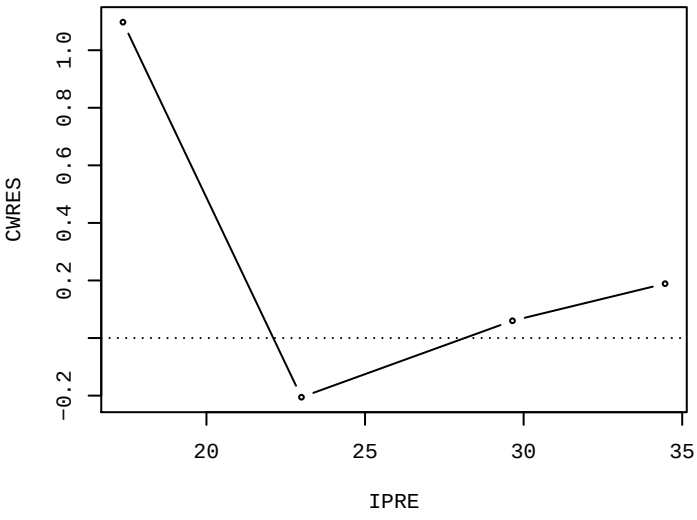


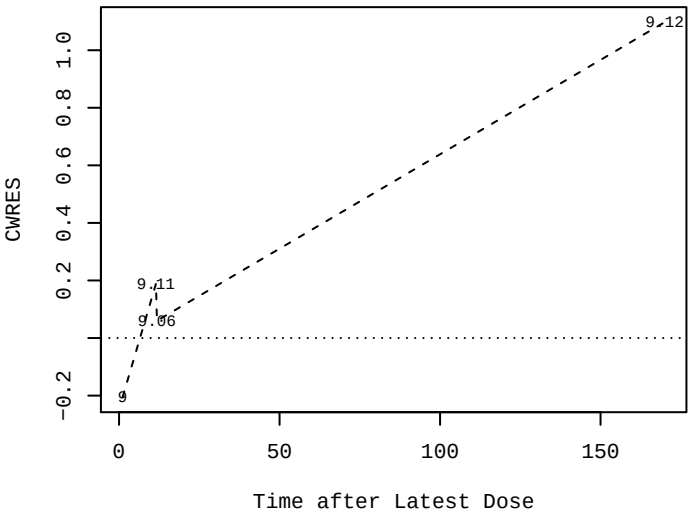
Individiual Residual Curve, ID = 9

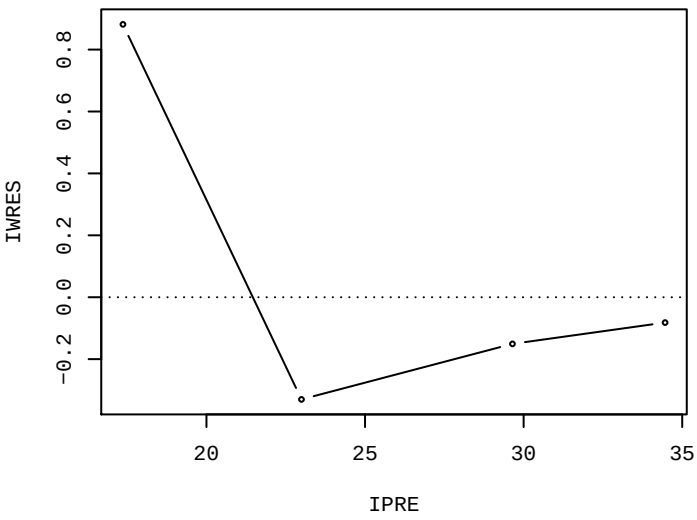
IOFV = 13.944 , OFV per DV = 3.486 , Run Test(CWRES) p = 0.5

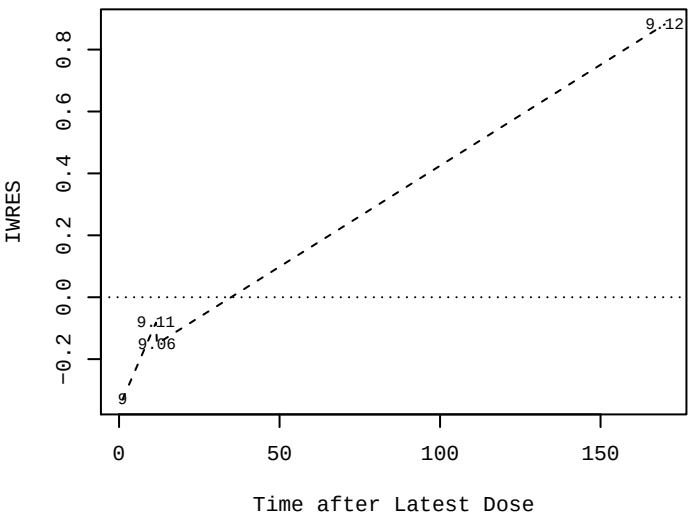








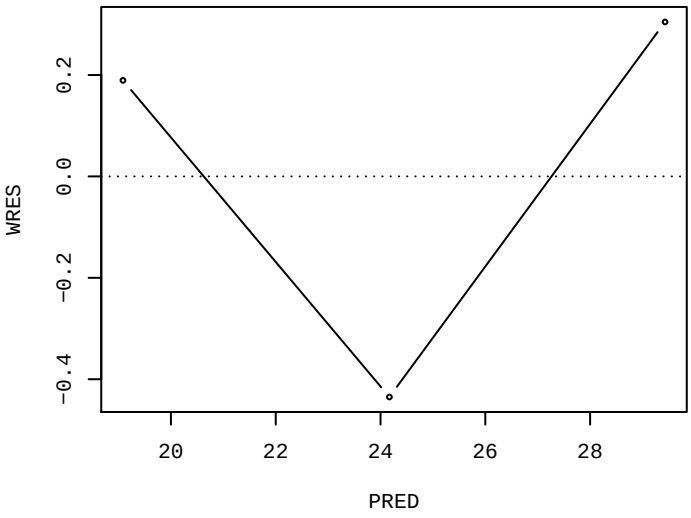


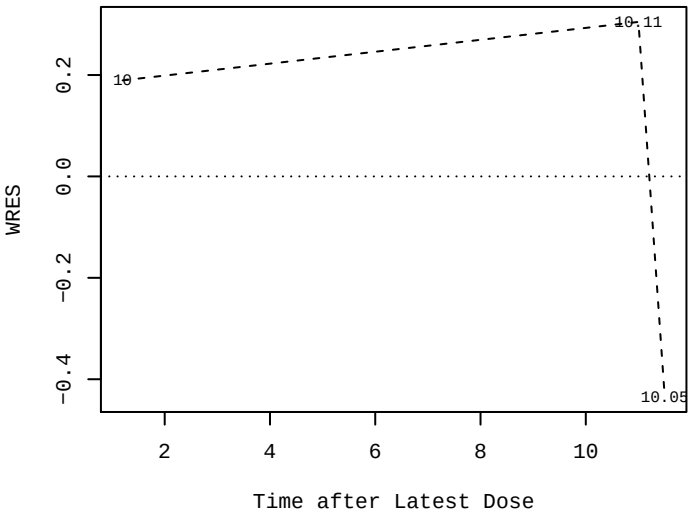


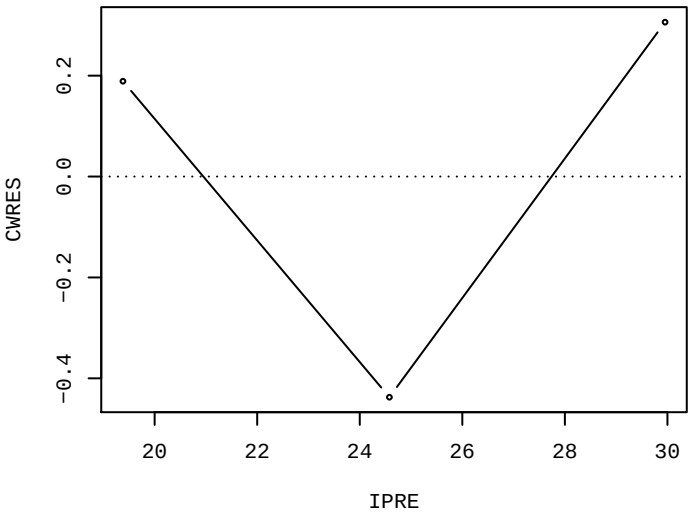
*Fractional number means dosing occasion.

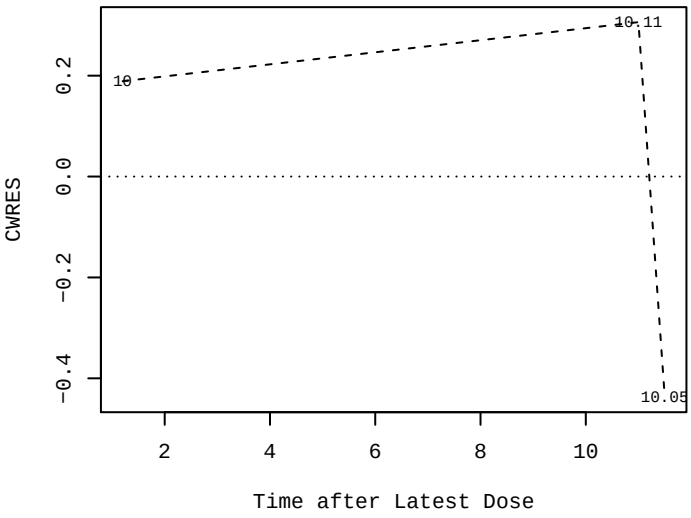
Individiual Residual Curve, ID = 10

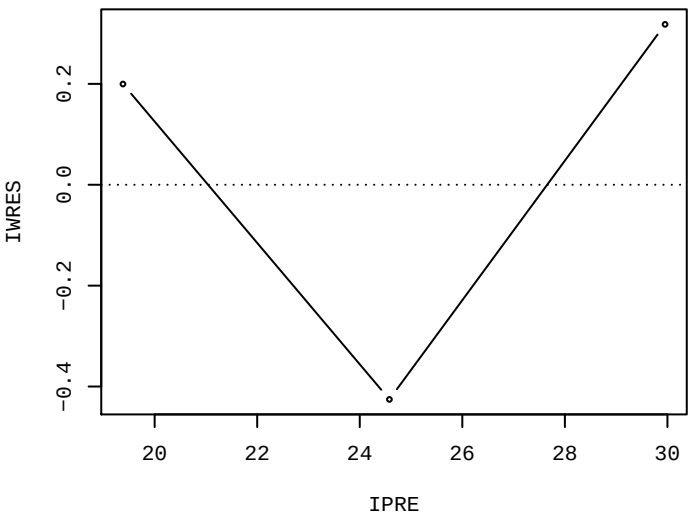
IOFV = 10.244 , OFV per DV = 3.4147 , Run Test(CWRES) p = 0.333

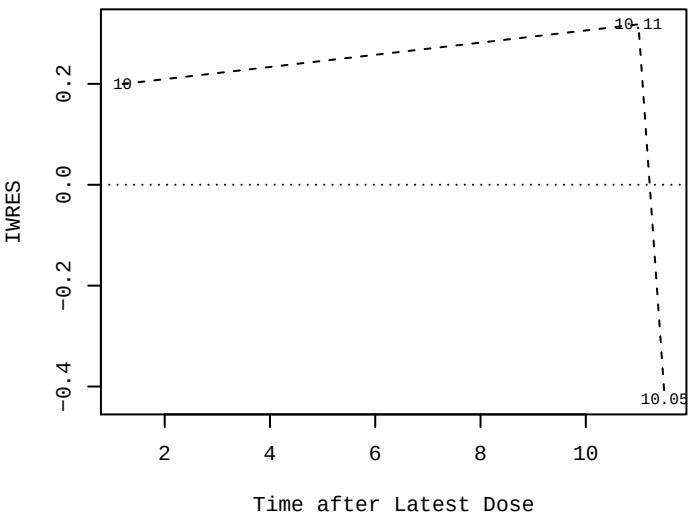








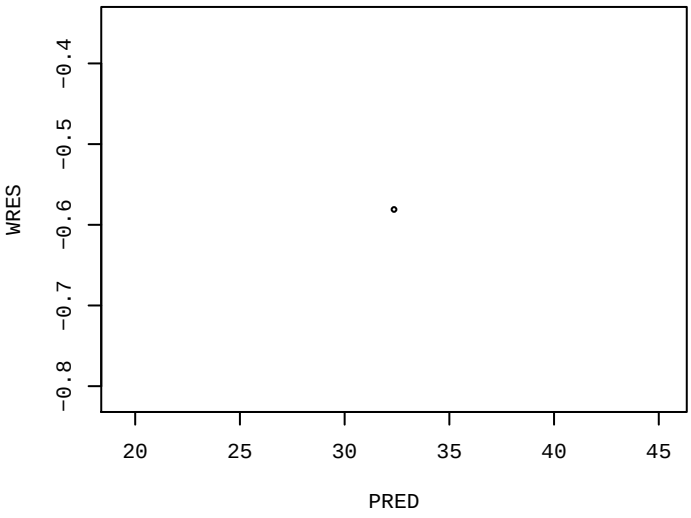


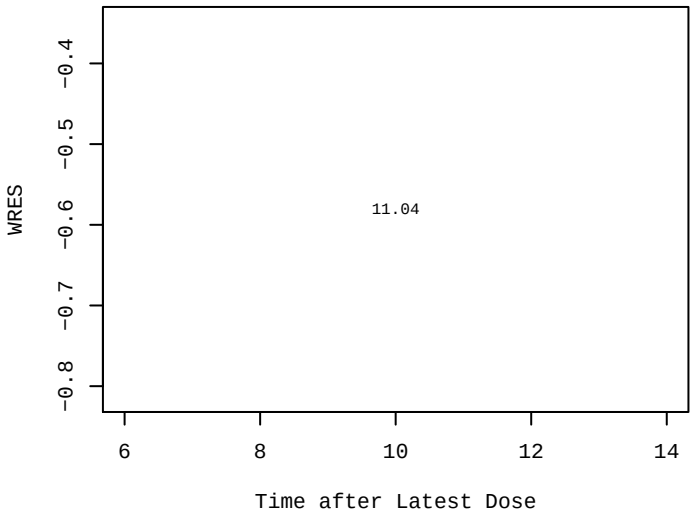


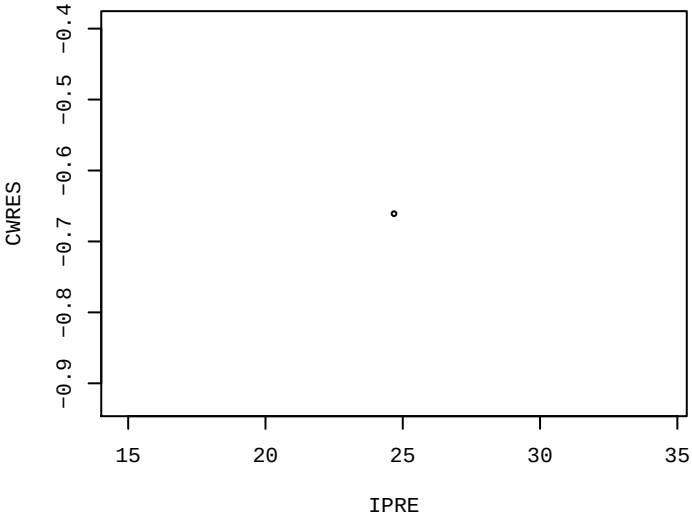
*Fractional number means dosing occasion.

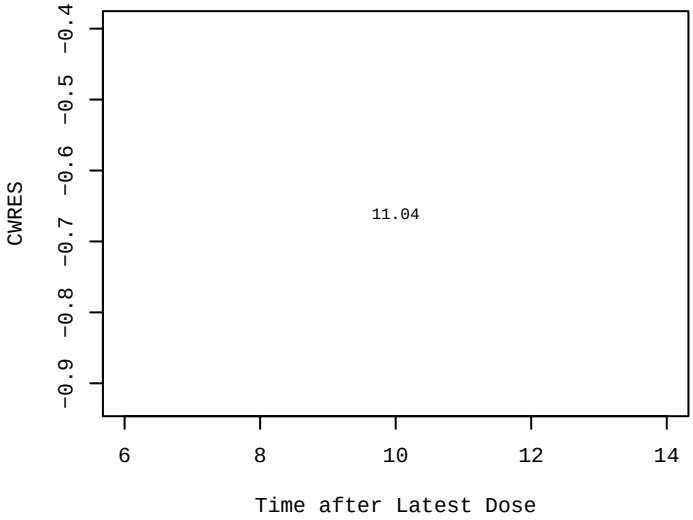
Individiual Residual Curve, ID = 11

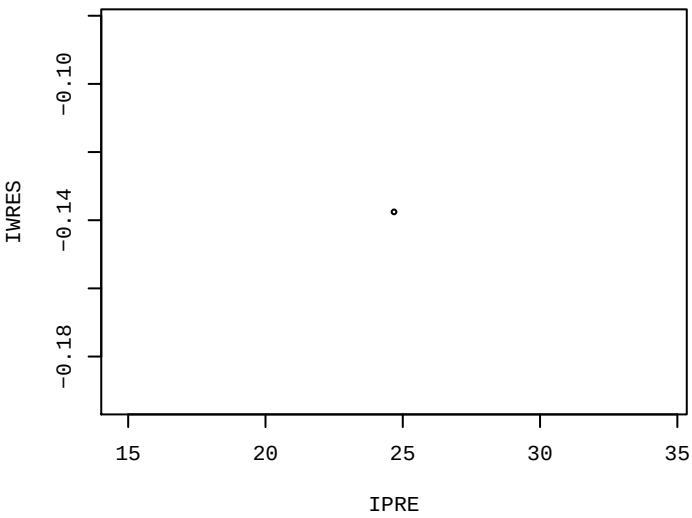
IOFV = 5.18325 , OFV per DV = 5.1833 , Run Test(CWRES) p = 1

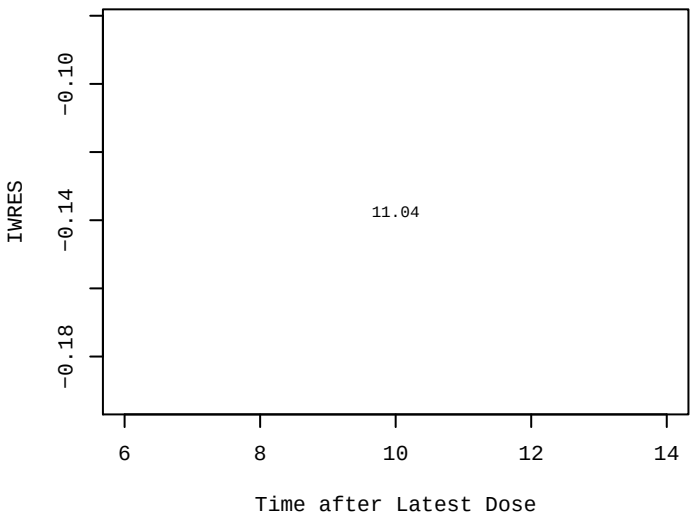








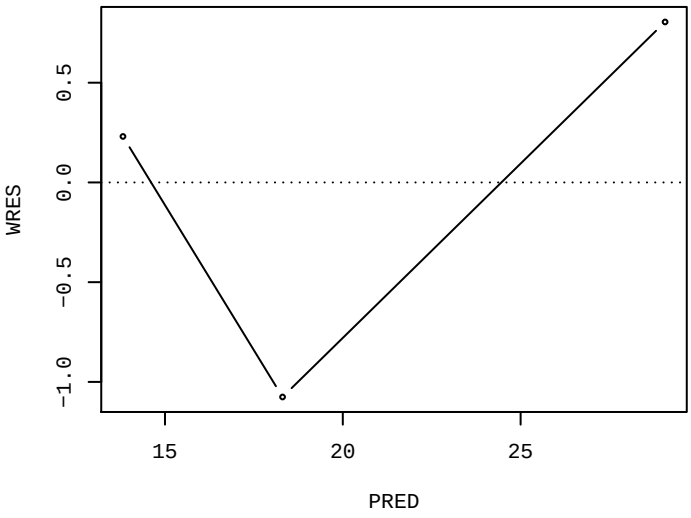


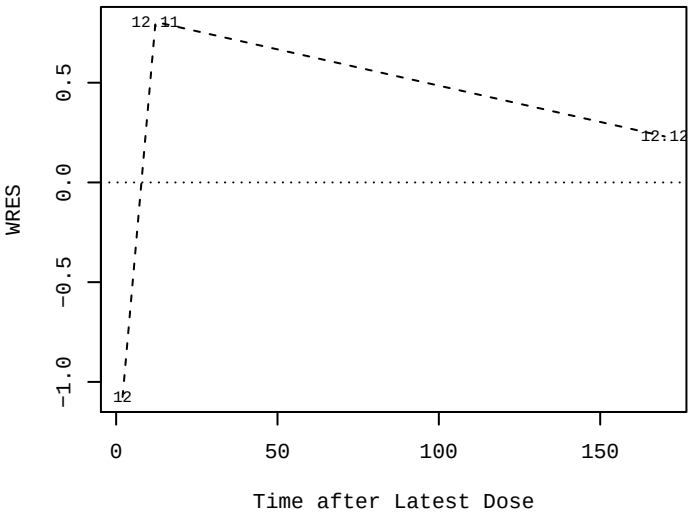


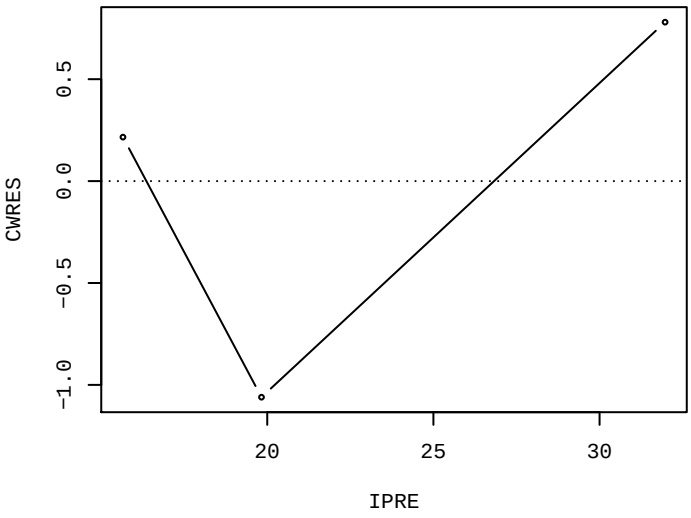
*Fractional number means dosing occasion.

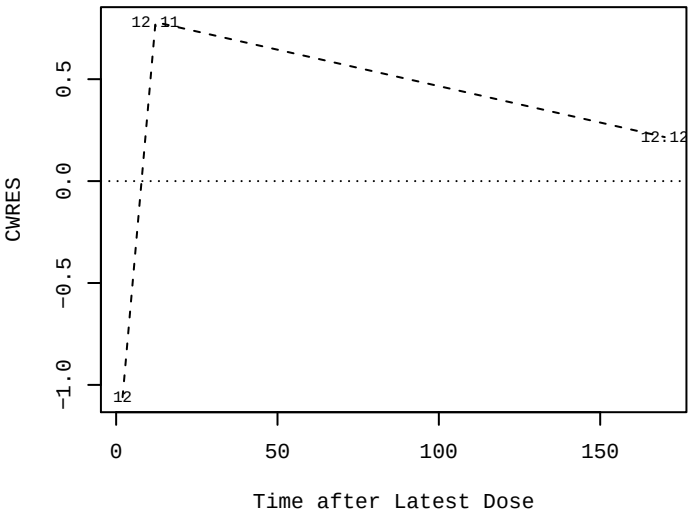
Individiual Residual Curve, ID = 12

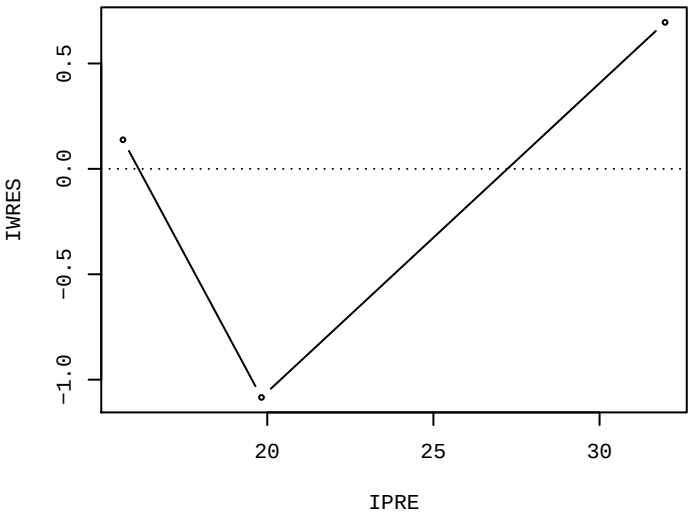
IOFV = 11.5999 , OFV per DV = 3.8666 , Run Test(CWRES) p = 1

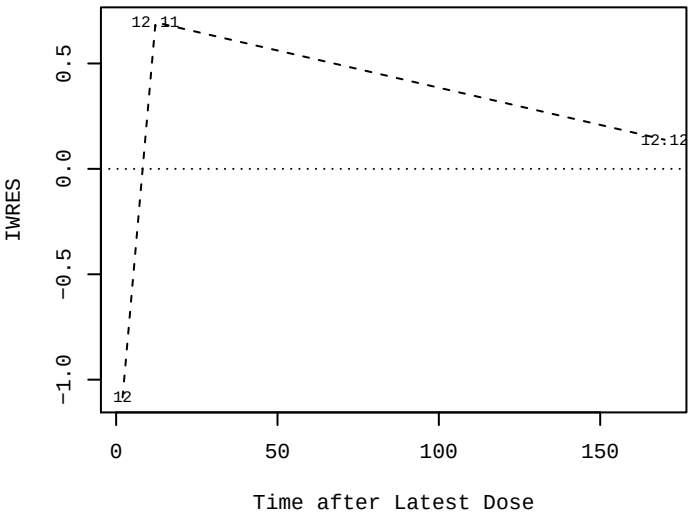








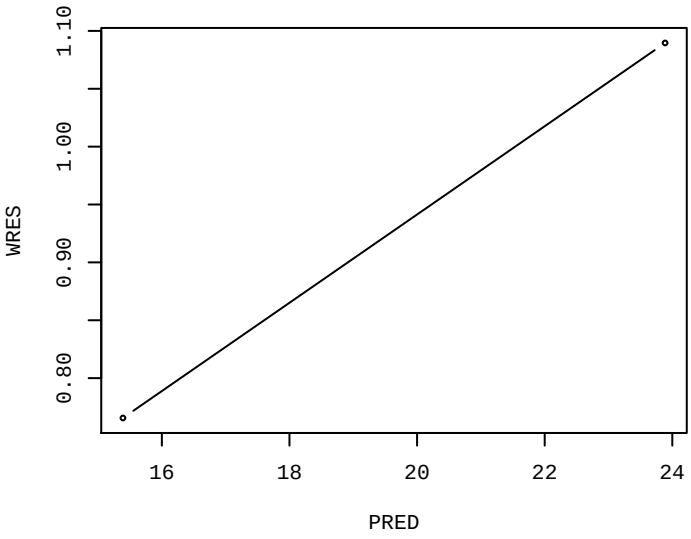


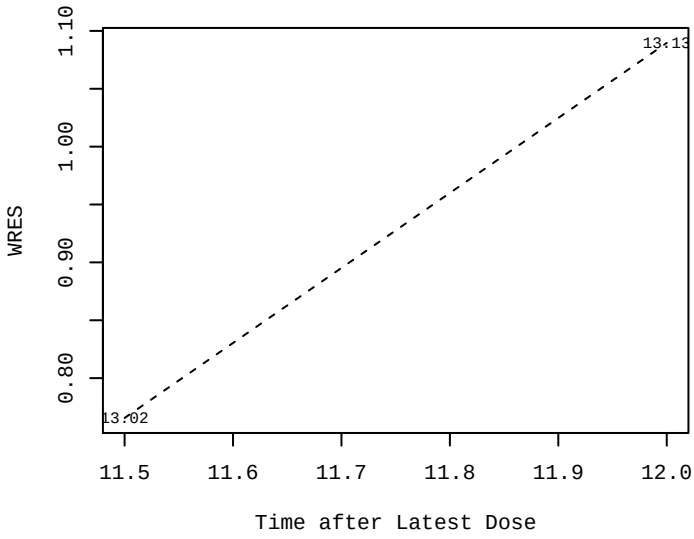


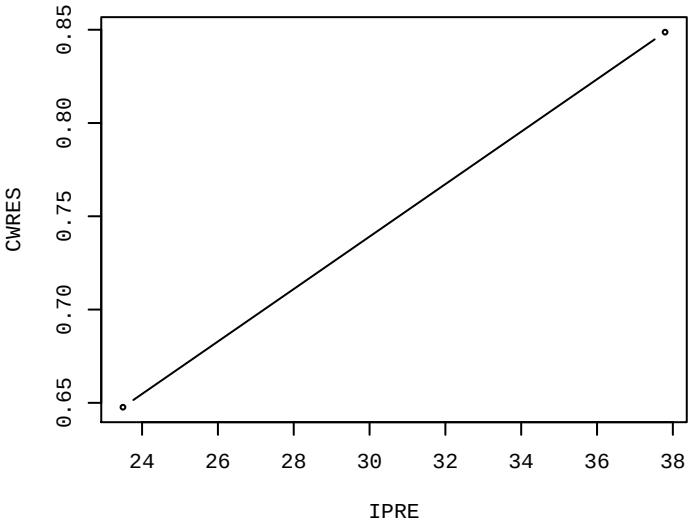
*Fractional number means dosing occasion.

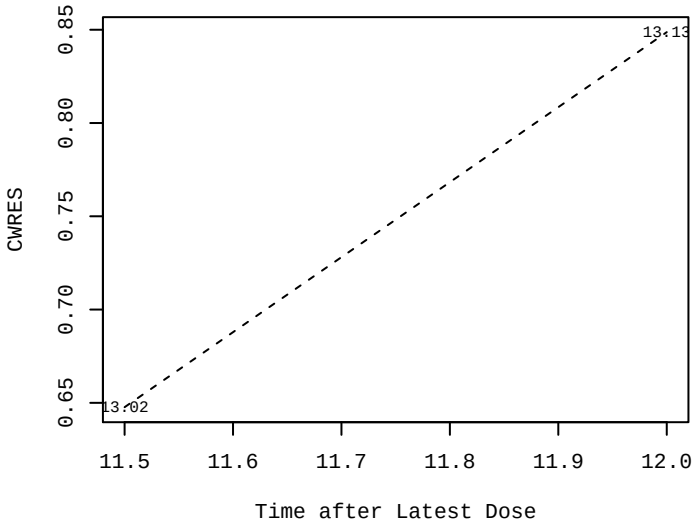
Individiual Residual Curve, ID = 13

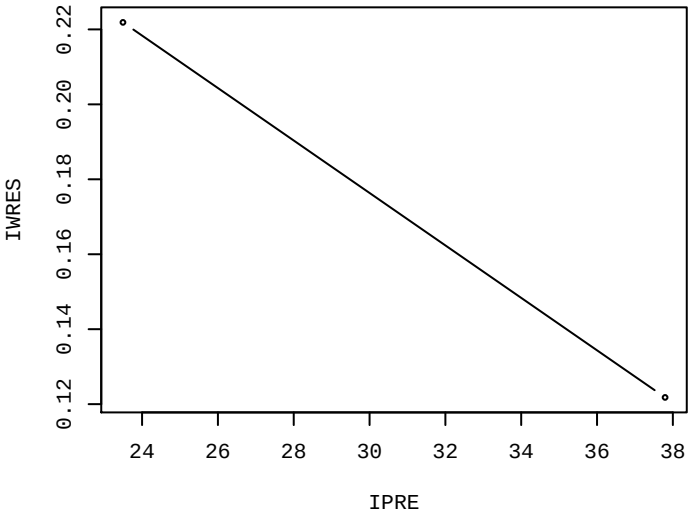
IOFV = 9.21687 , OFV per DV = 4.6084 , Run Test(CWRES) p = 0.5

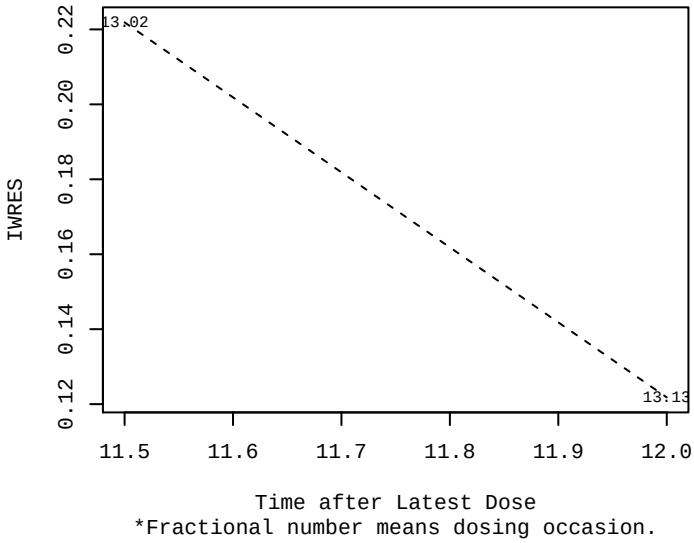






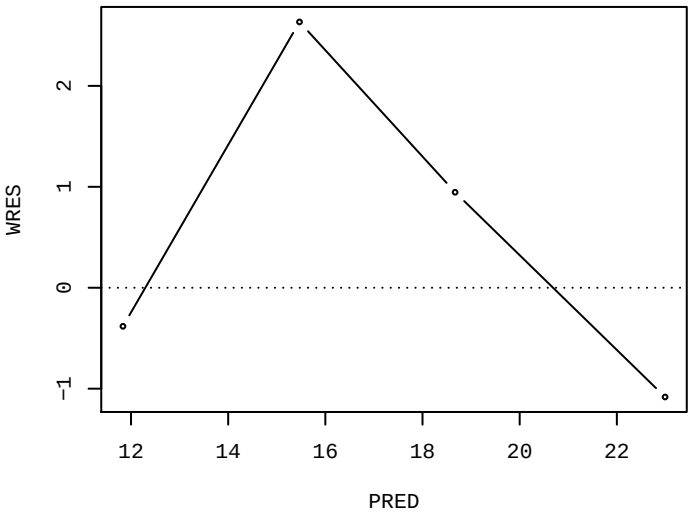


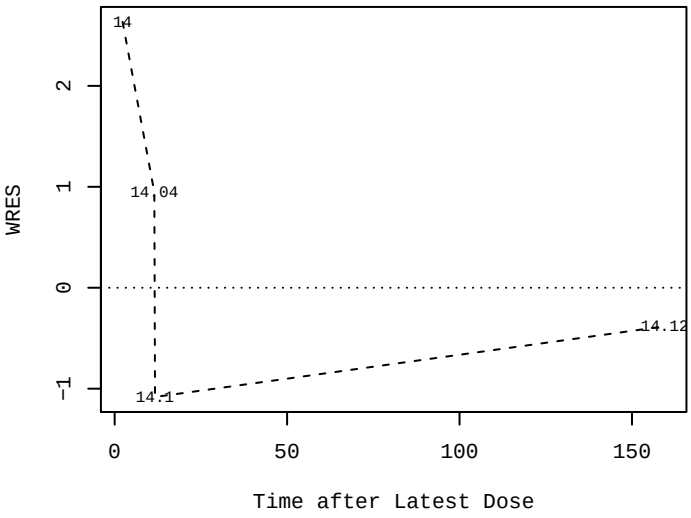


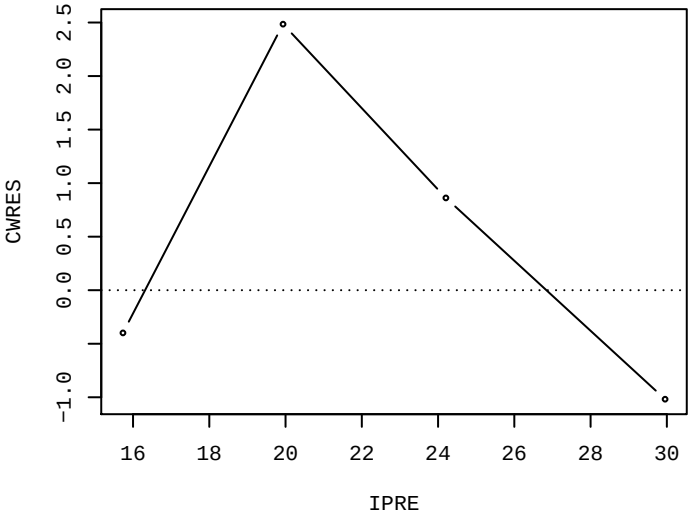


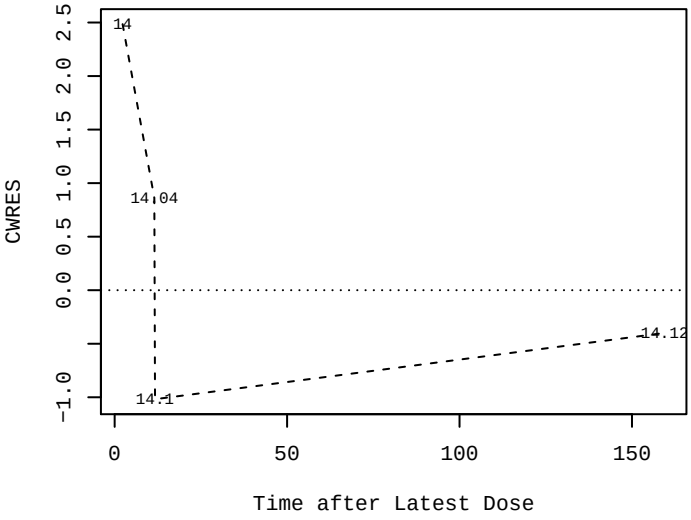
Individiual Residual Curve, ID = 14

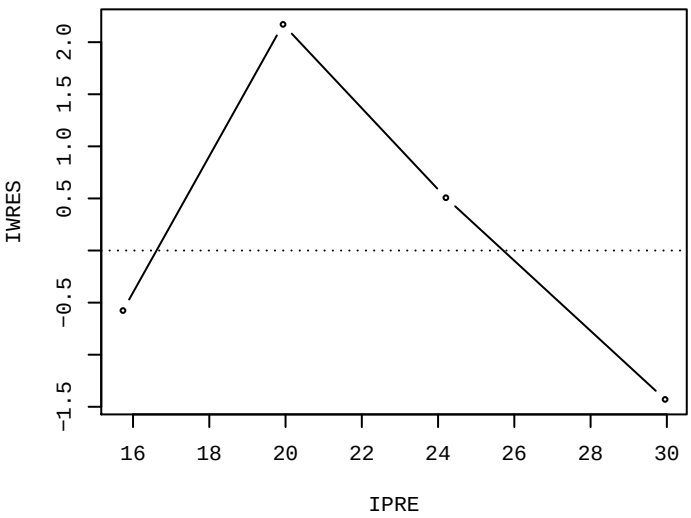
IOFV = 20.169 , OFV per DV = 5.0422 , Run Test(CWRES) p = 0.333

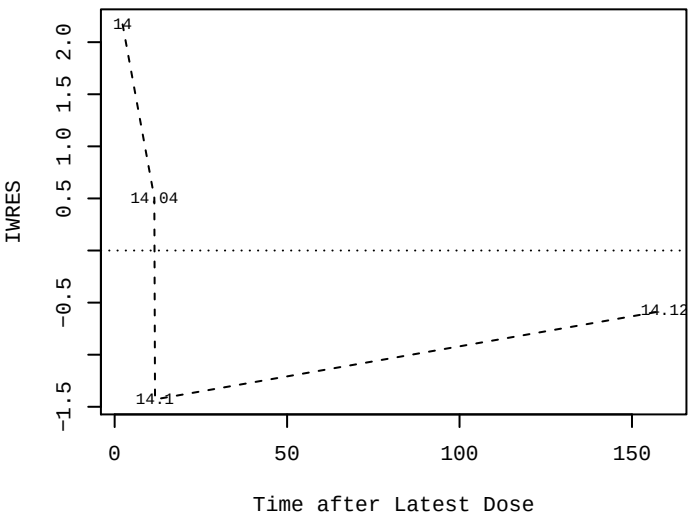








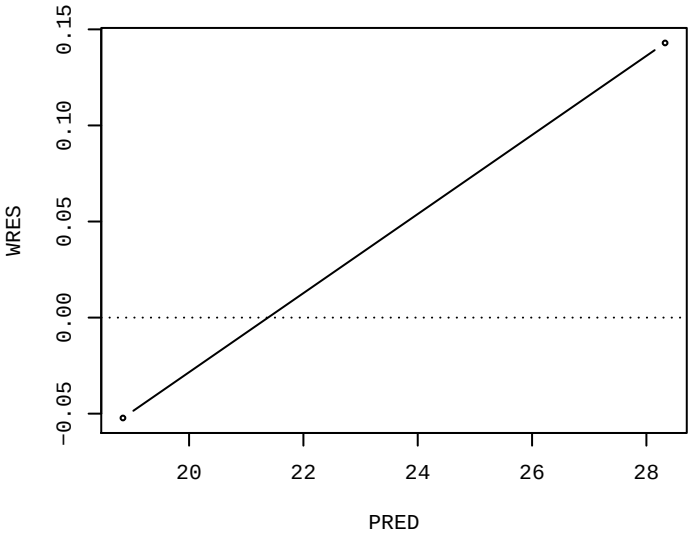


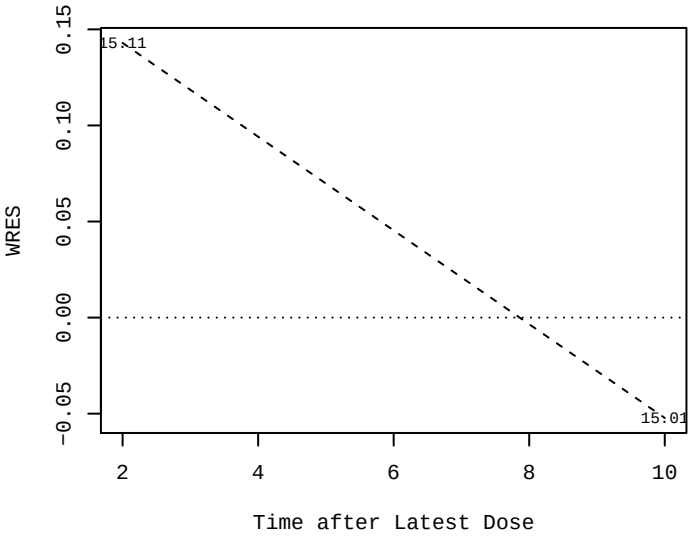


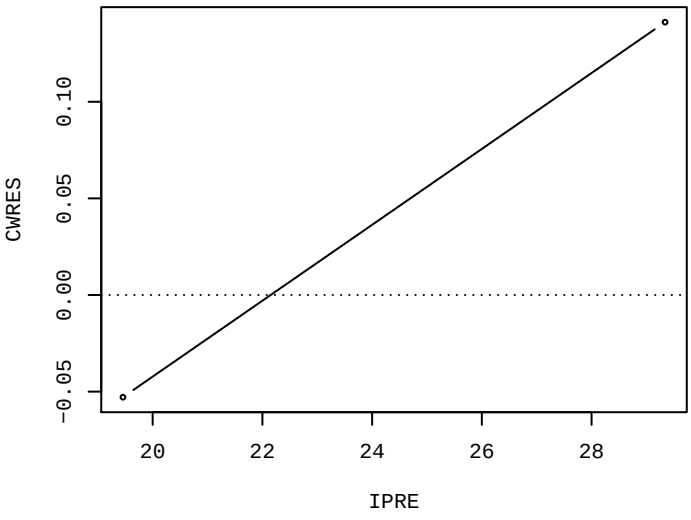
*Fractional number means dosing occasion.

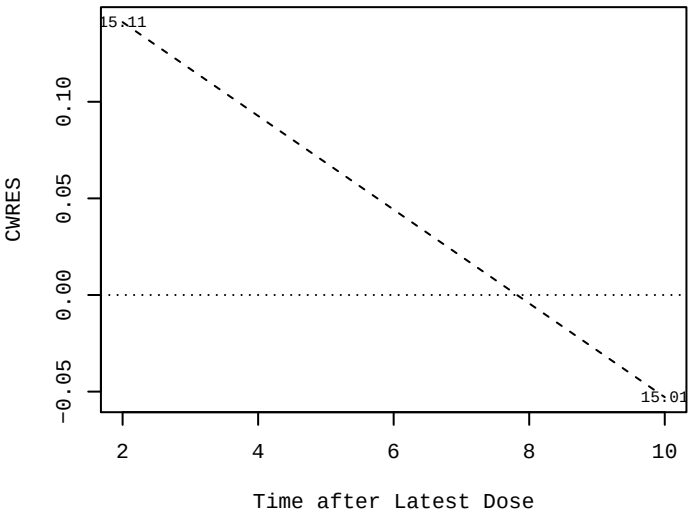
Individiual Residual Curve, ID = 15

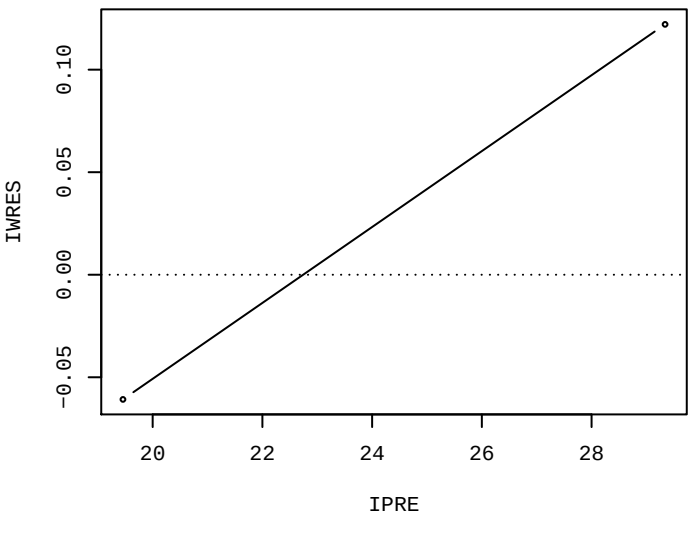
IOFV = 7.48533 , OFV per DV = 3.7427 , Run Test(CWRES) p = 1

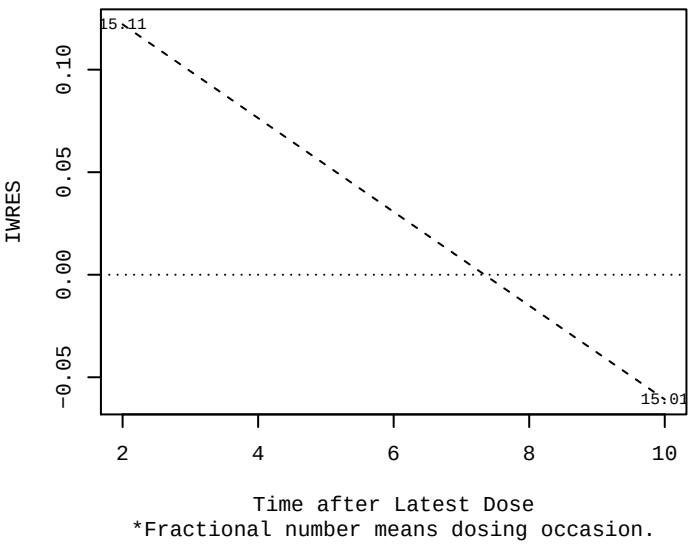








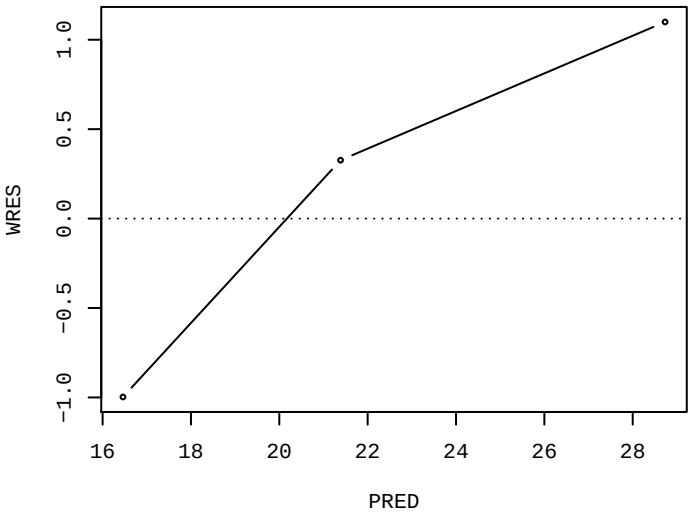


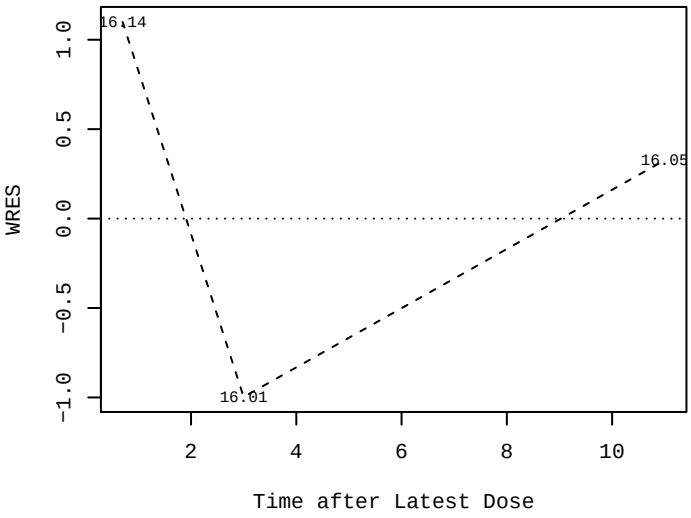


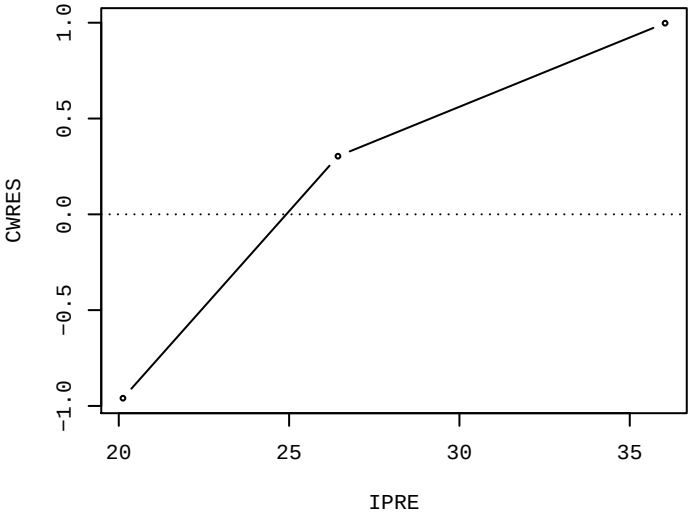
*Fractional number means dosing occasion.

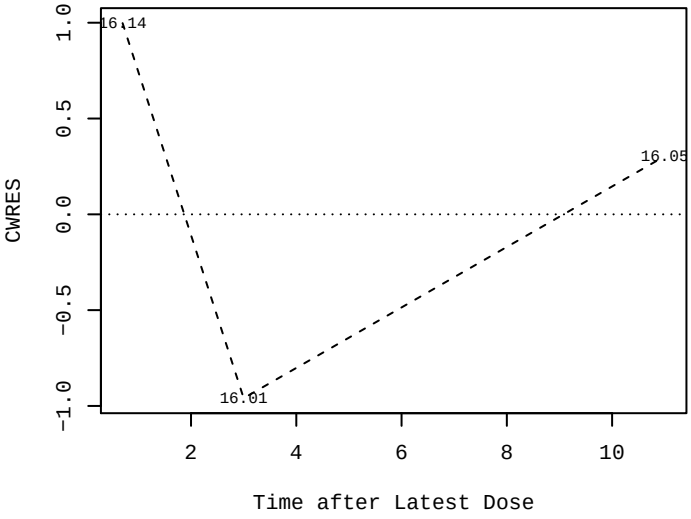
Individiual Residual Curve, ID = 16

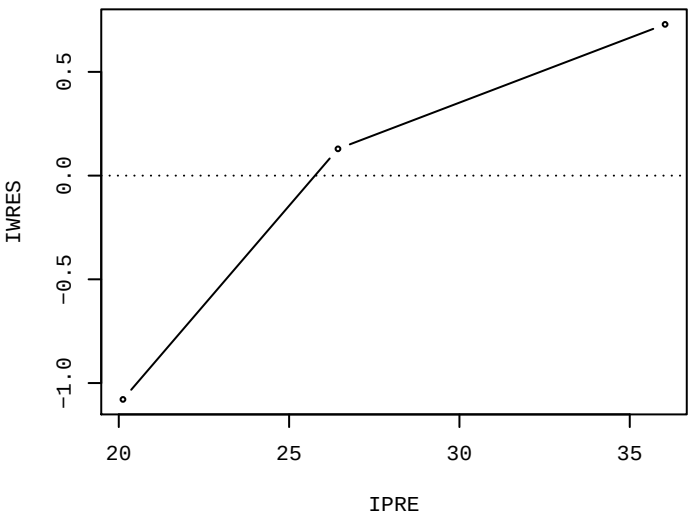
IOFV = 12.2855 , OFV per DV = 4.0952 , Run Test(CWRES) p = 1

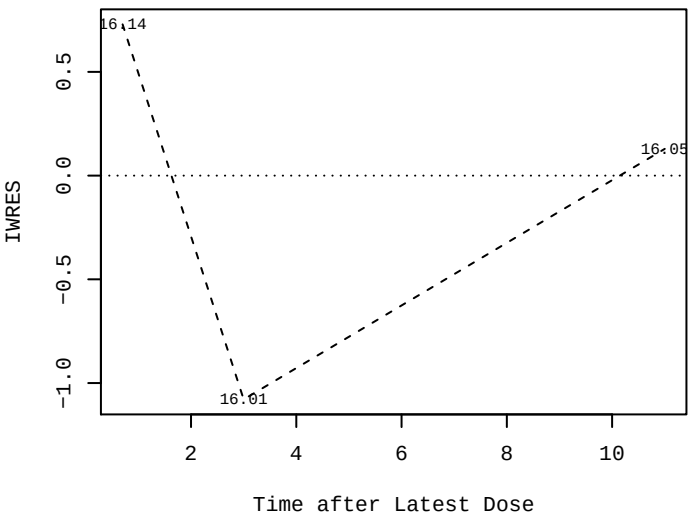






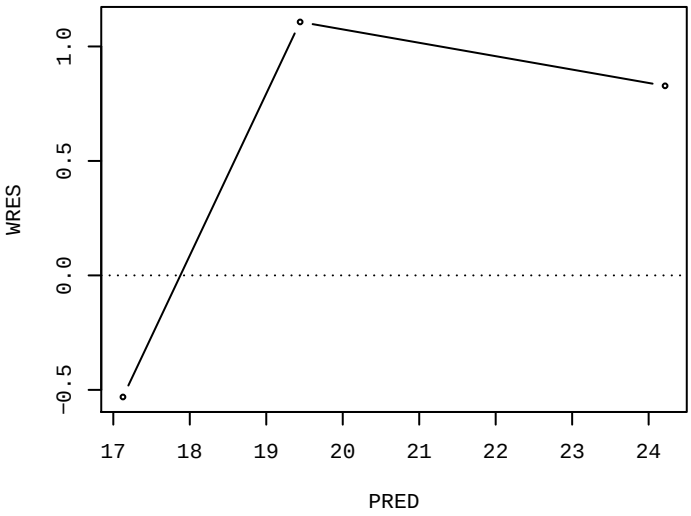


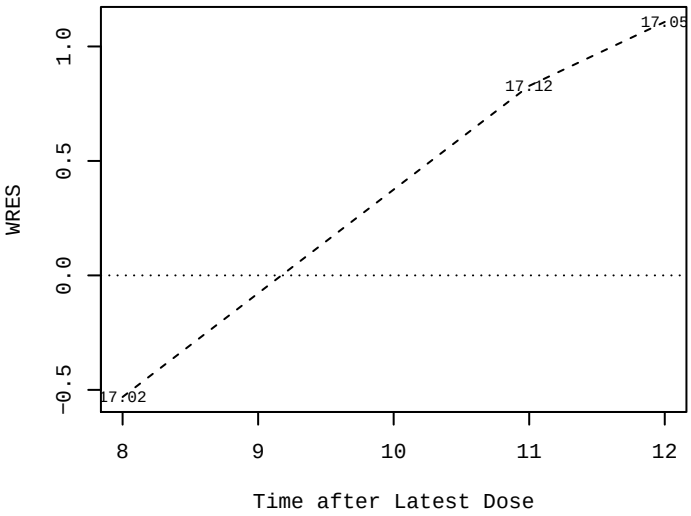


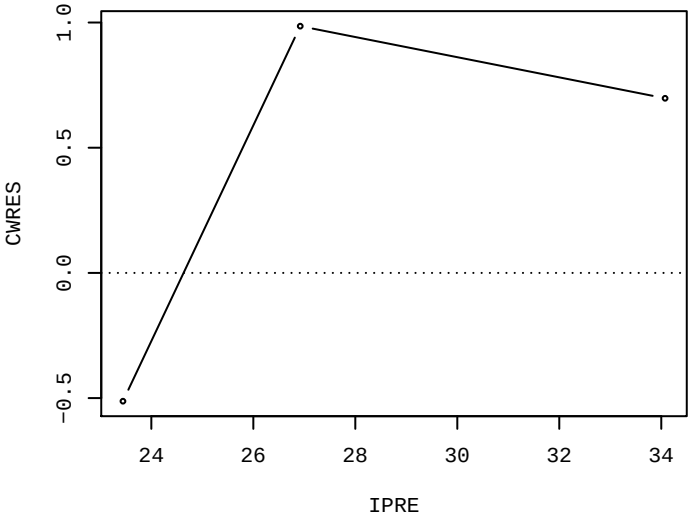


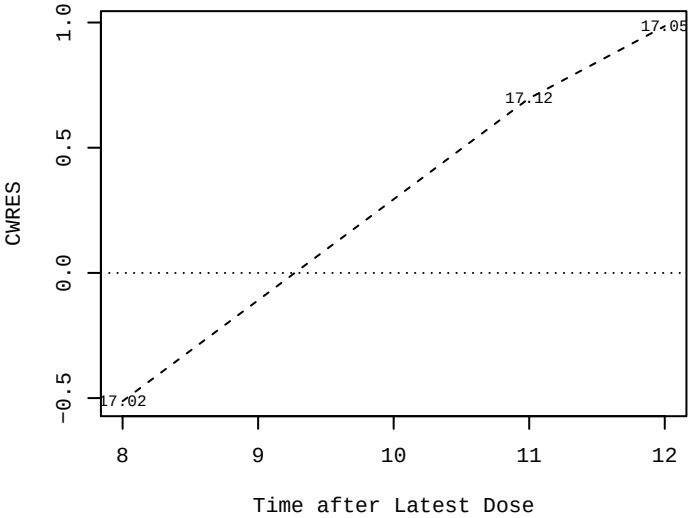
Individiual Residual Curve, ID = 17

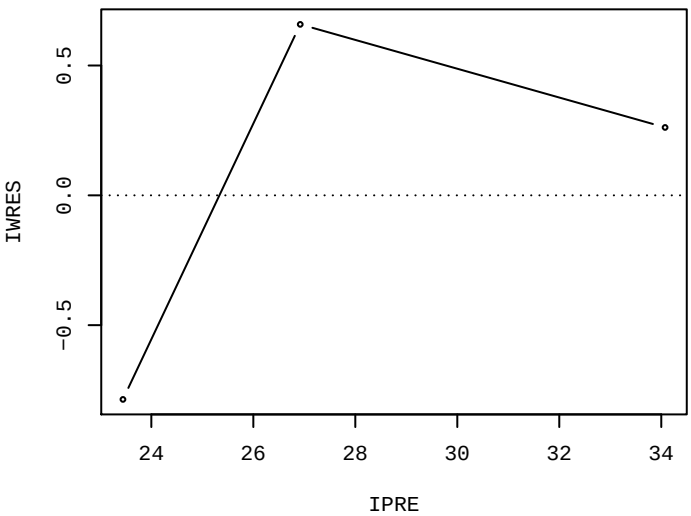
IOFV = 12.0853 , OFV per DV = 4.0284 , Run Test(CWRES) p = 1

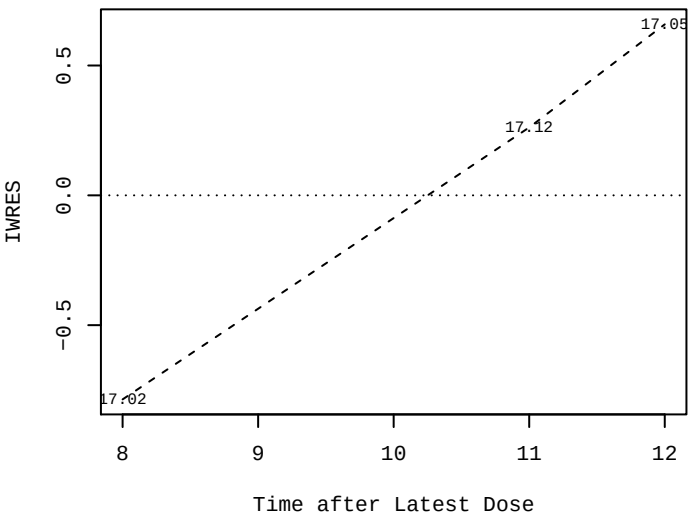






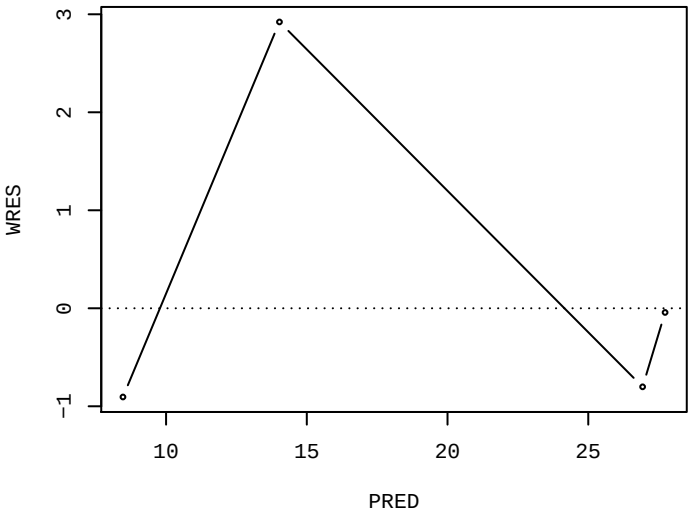


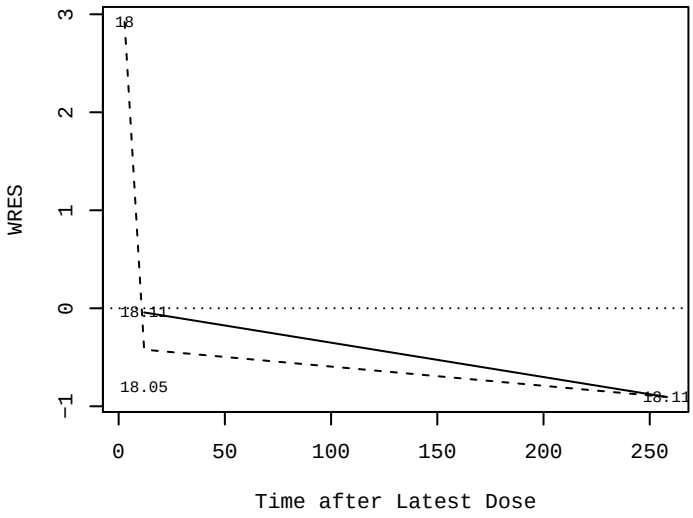


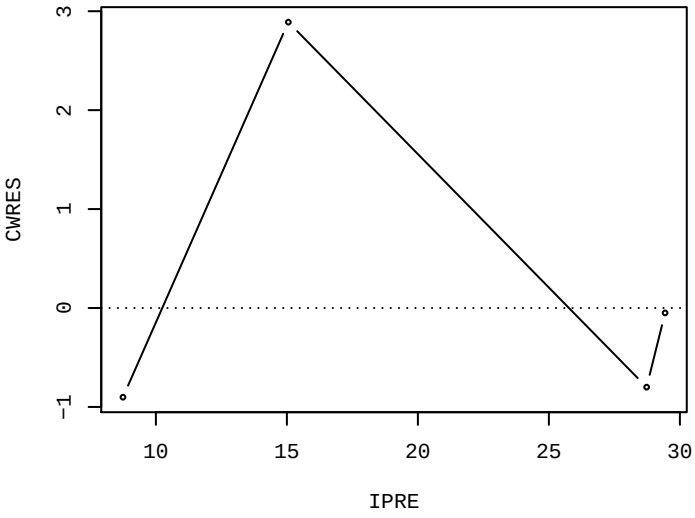


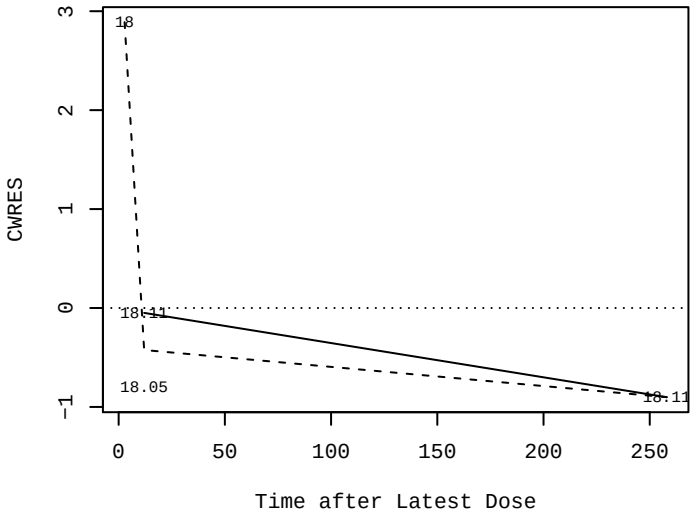
Individiual Residual Curve, ID = 18

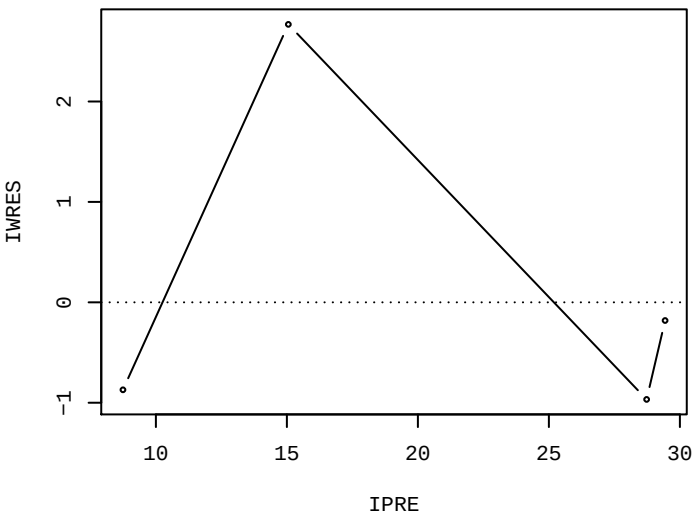
IOFV = 21.6332 , OFV per DV = 5.4083 , Run Test(CWRES) p = 0.5

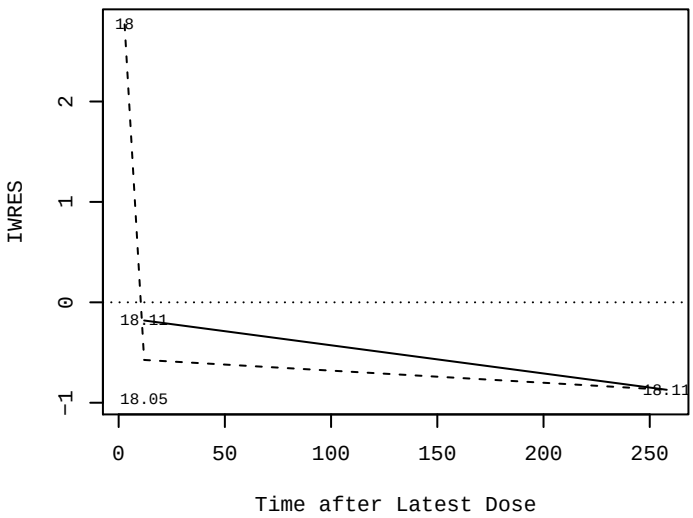






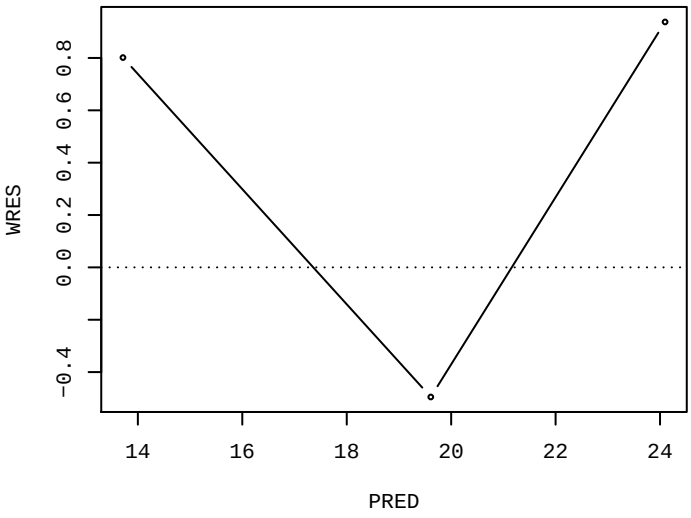


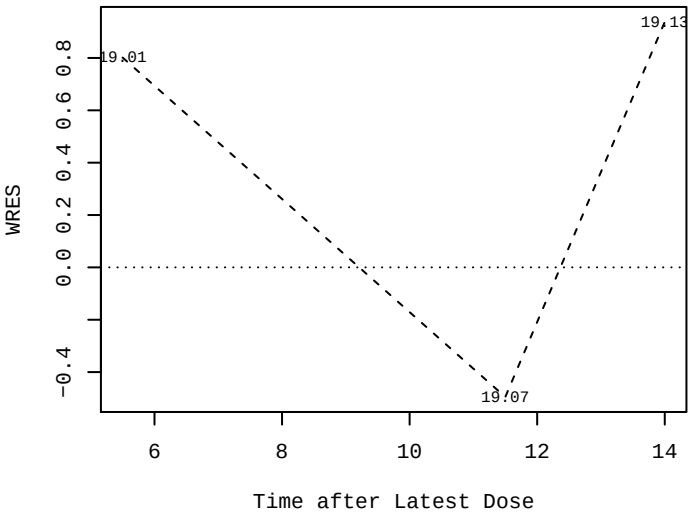


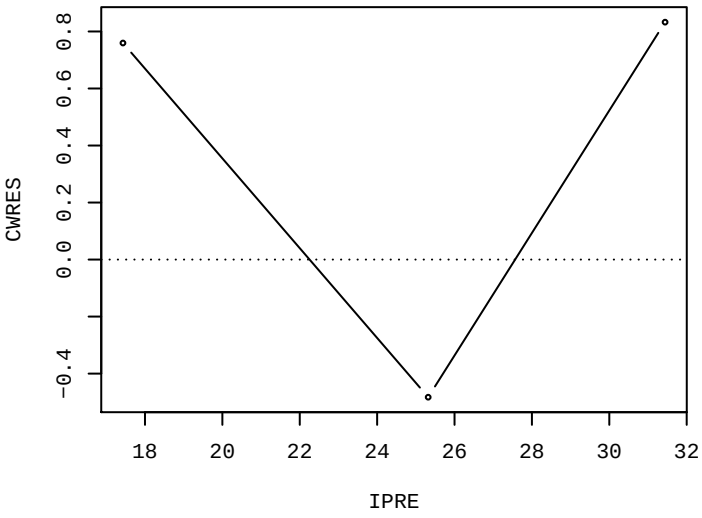


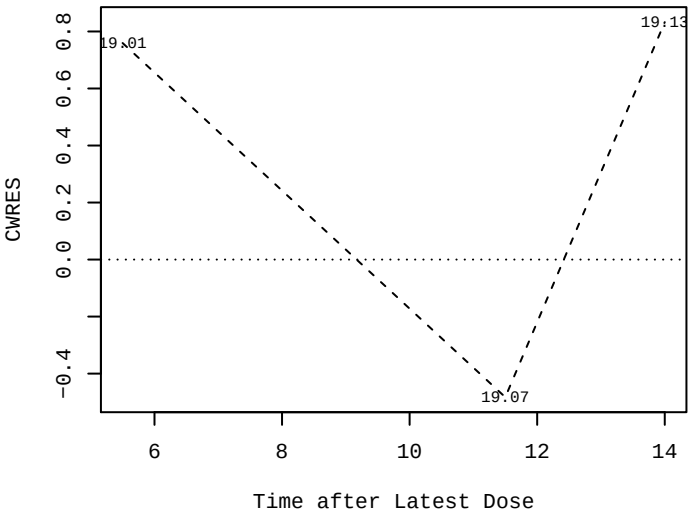
Individiual Residual Curve, ID = 19

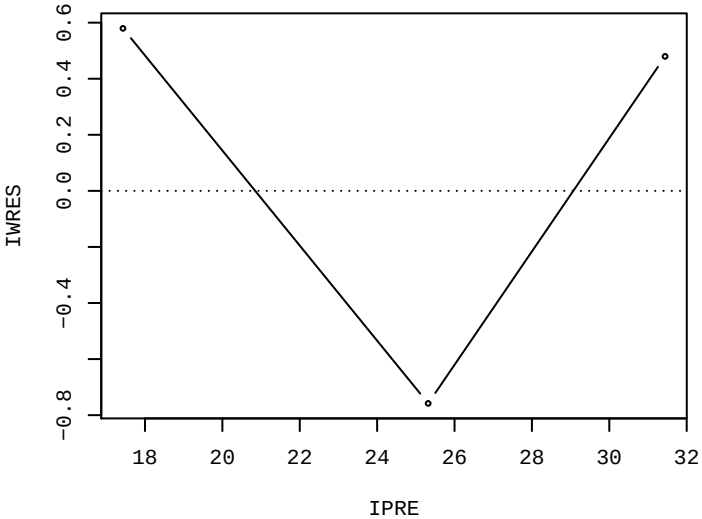
IOFV = 11.4475 , OFV per DV = 3.8158 , Run Test(CWRES) p = 0.333

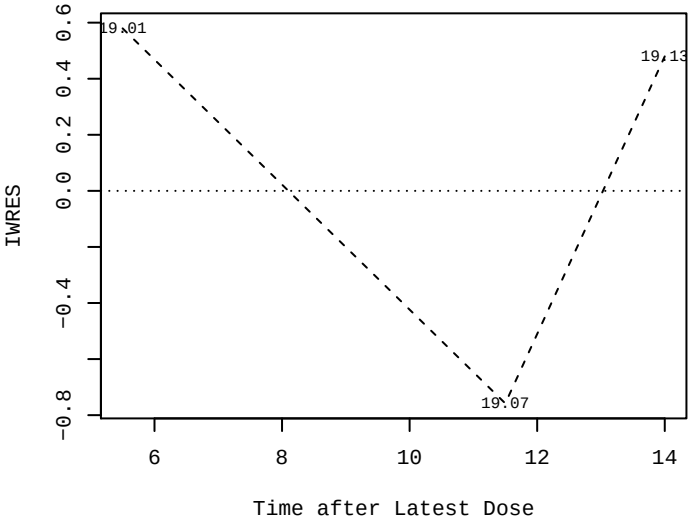






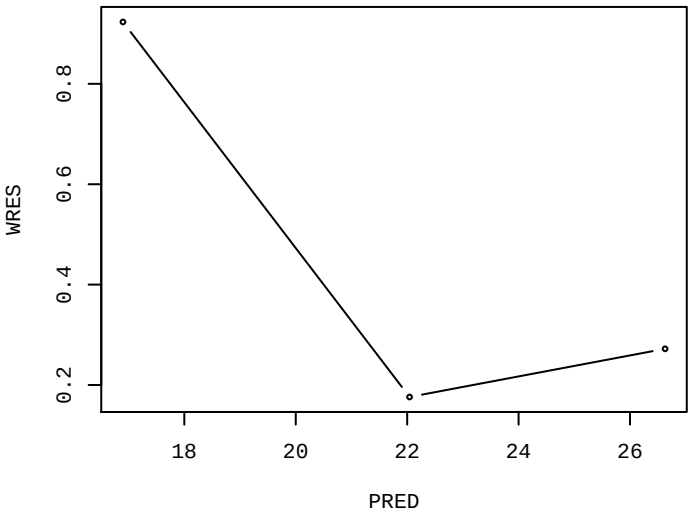


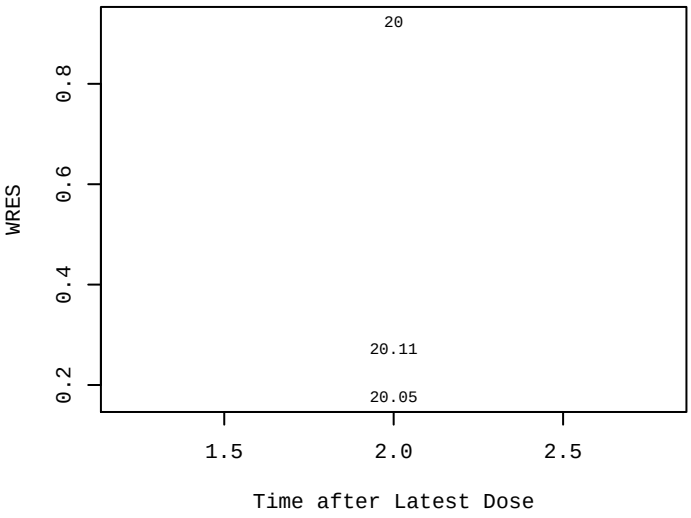


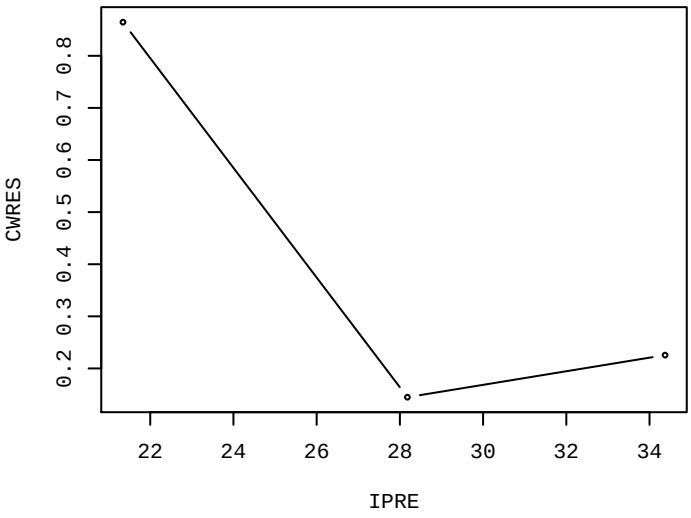


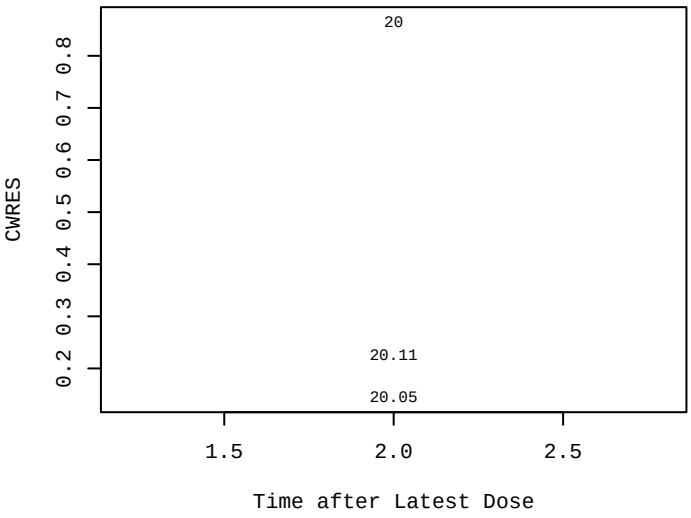
Individiual Residual Curve, ID = 20

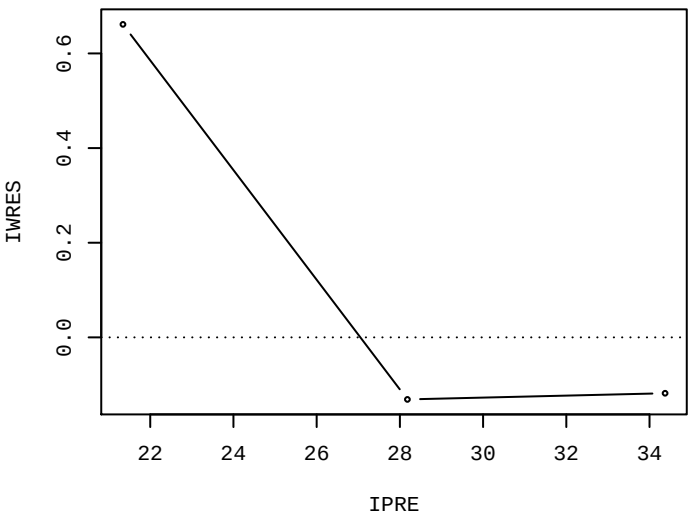
IOFV = 11.1432 , OFV per DV = 3.7144 , Run Test(CWRES) p = 0.25

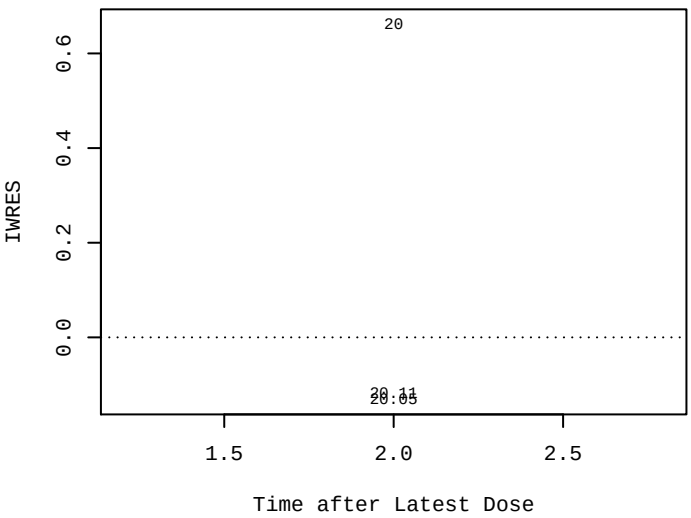








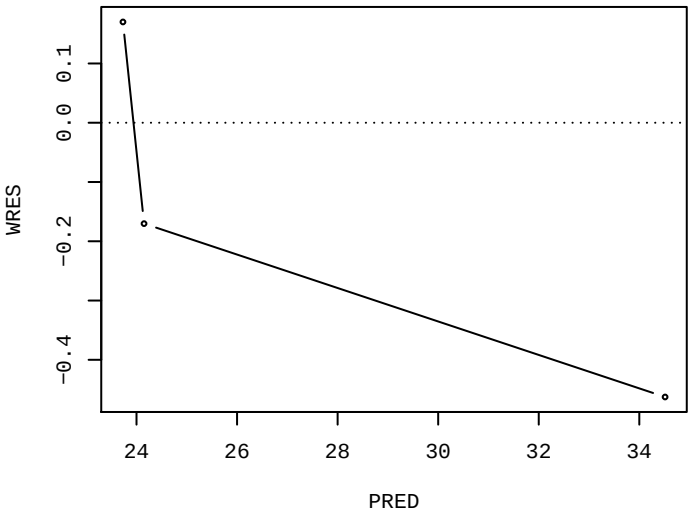


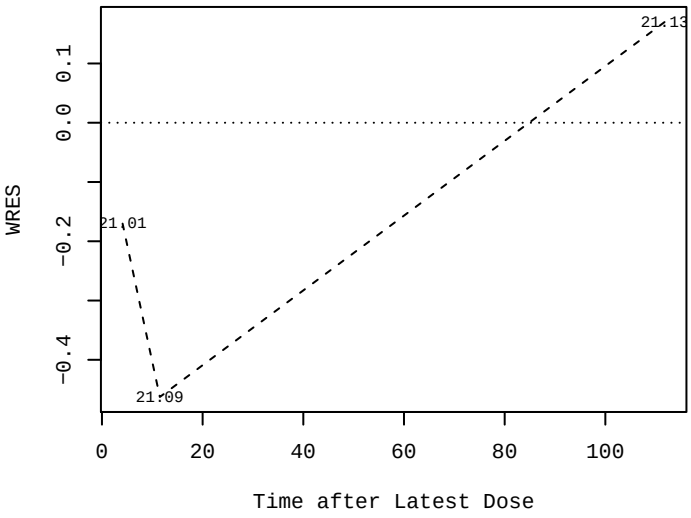


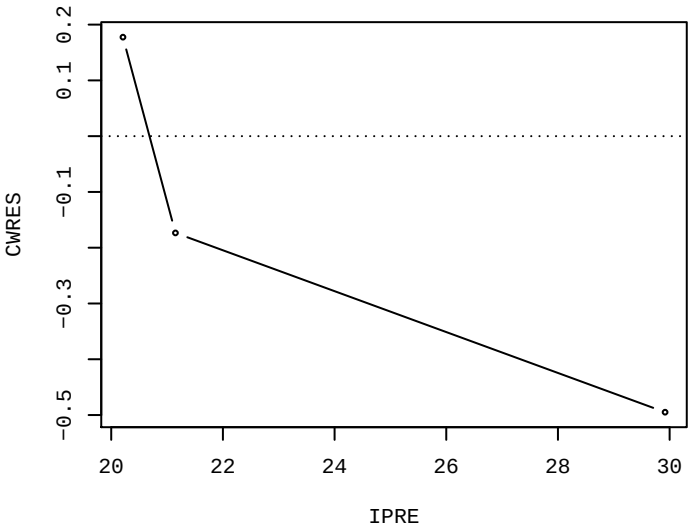
*Fractional number means dosing occasion.

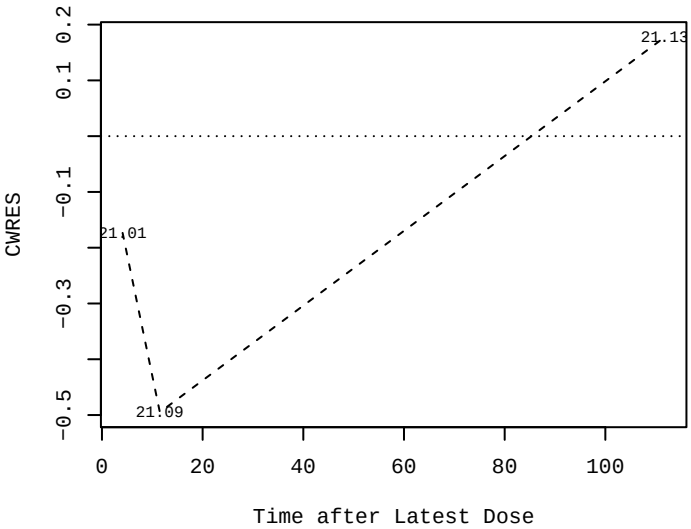
Individiual Residual Curve, ID = 21

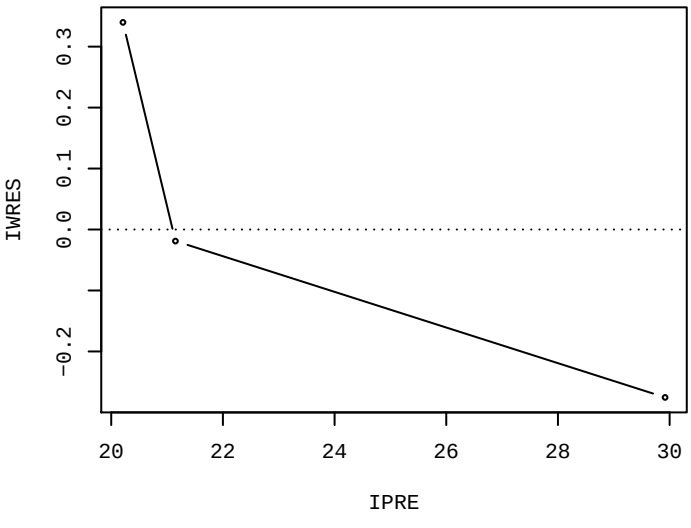
IOFV = 10.2705 , OFV per DV = 3.4235 , Run Test(CWRES) p = 1

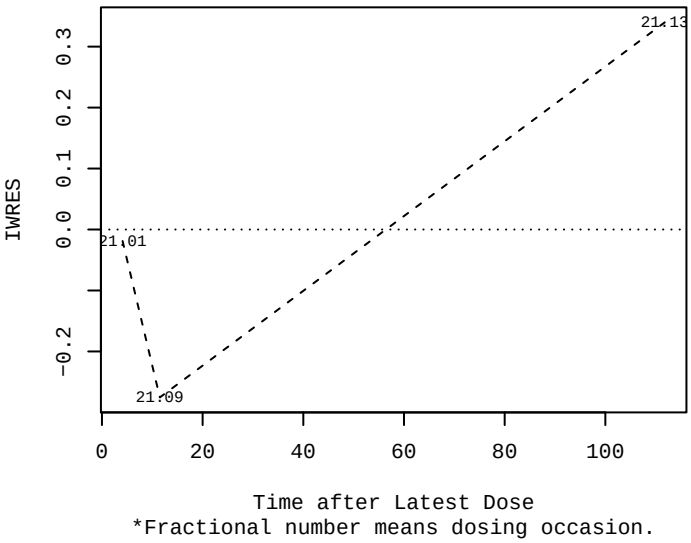








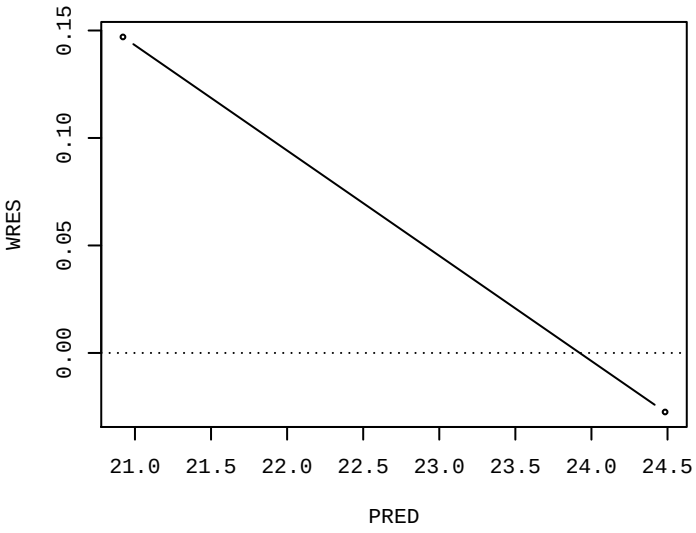


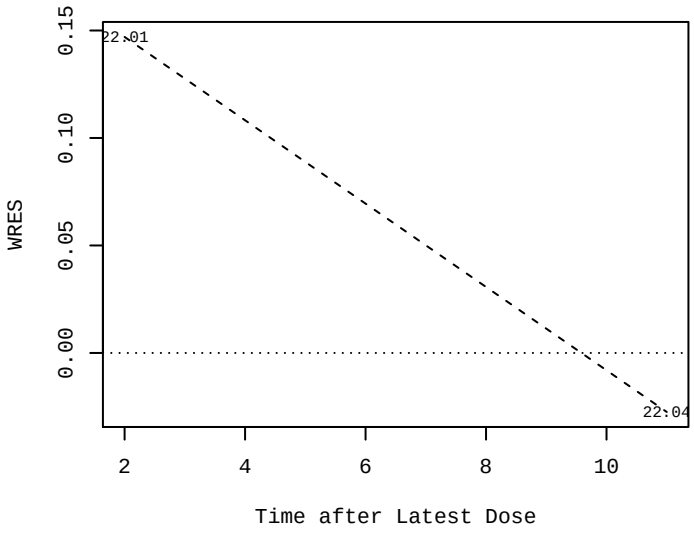


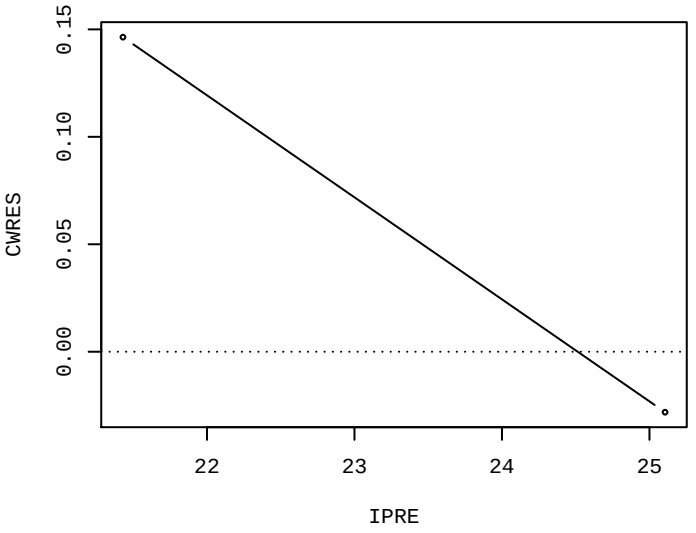
*Fractional number means dosing occasion.

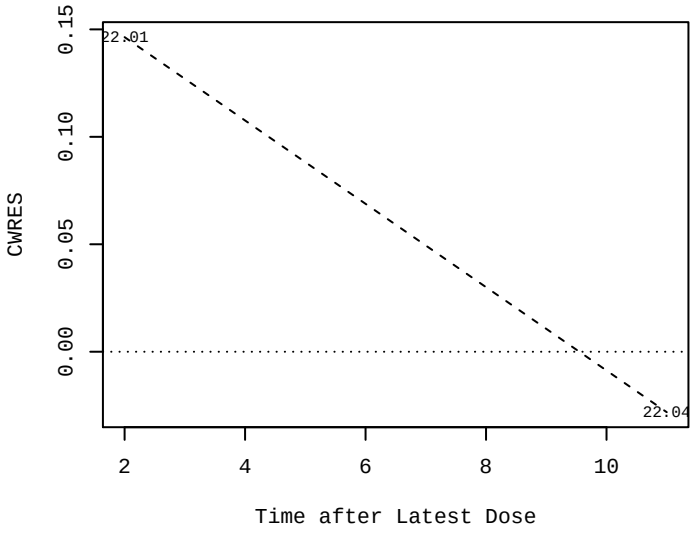
Individiual Residual Curve, ID = 22

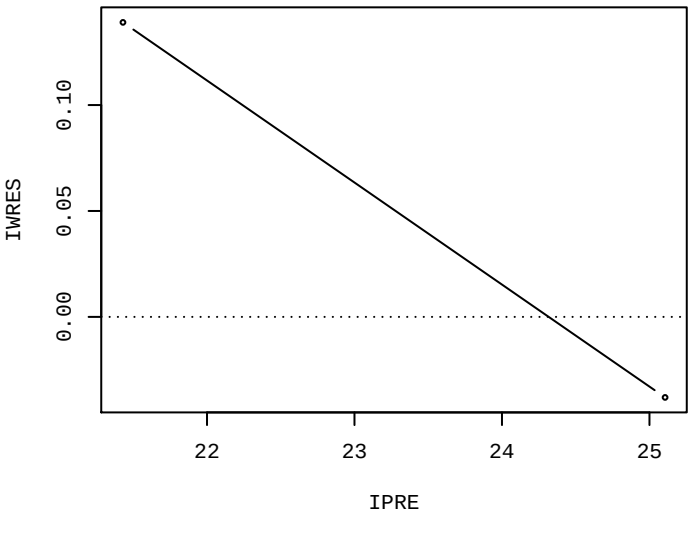
IOFV = 7.26079 , OFV per DV = 3.6304 , Run Test(CWRES) p = 1

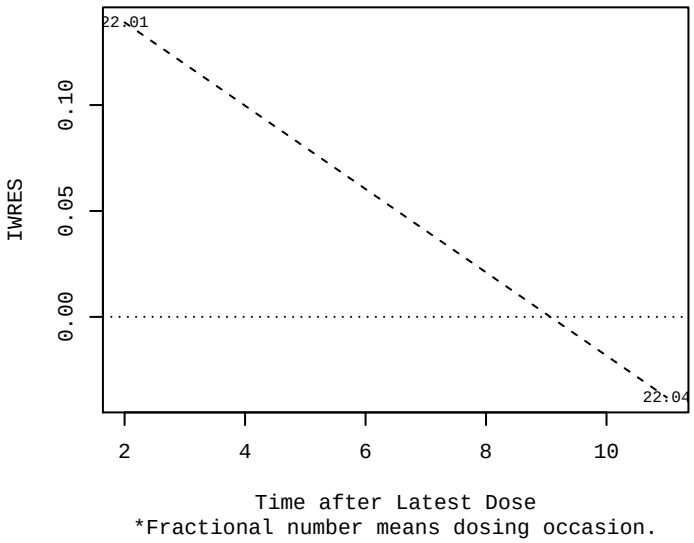








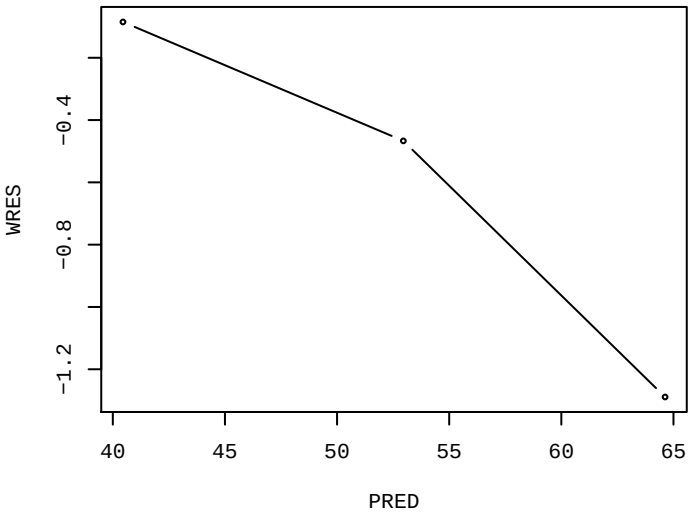


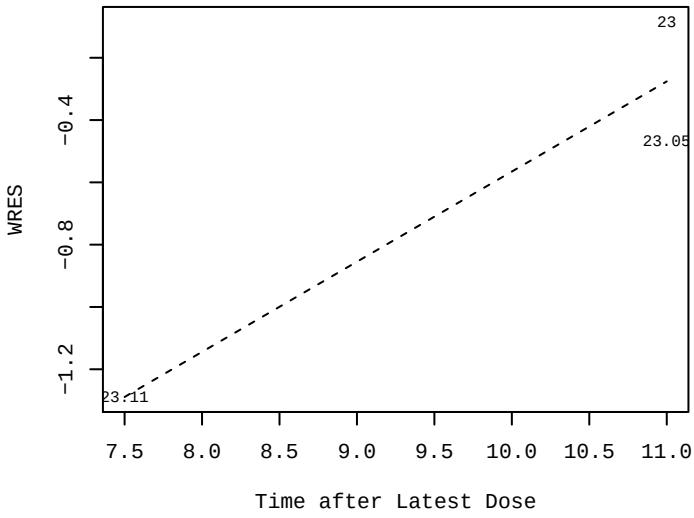


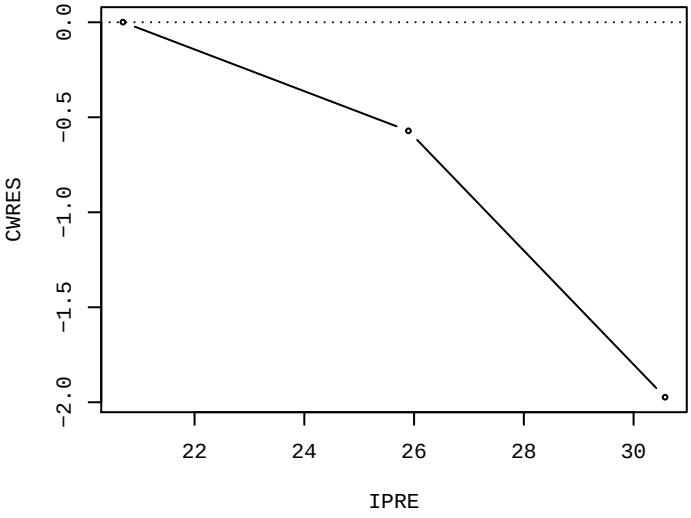
*Fractional number means dosing occasion.

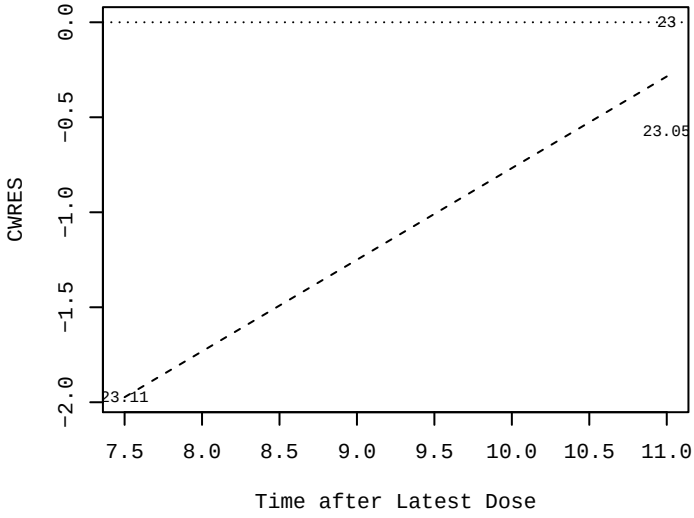
Individiual Residual Curve, ID = 23

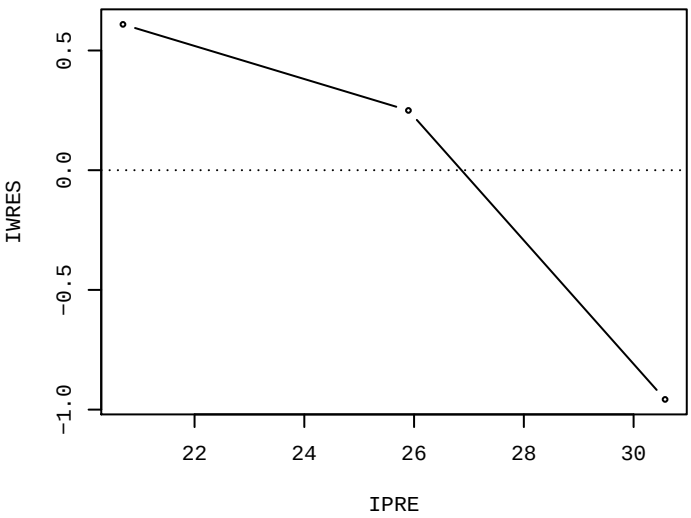
IOFV = 14.3126 , OFV per DV = 4.7709 , Run Test(CWRES) p = 1

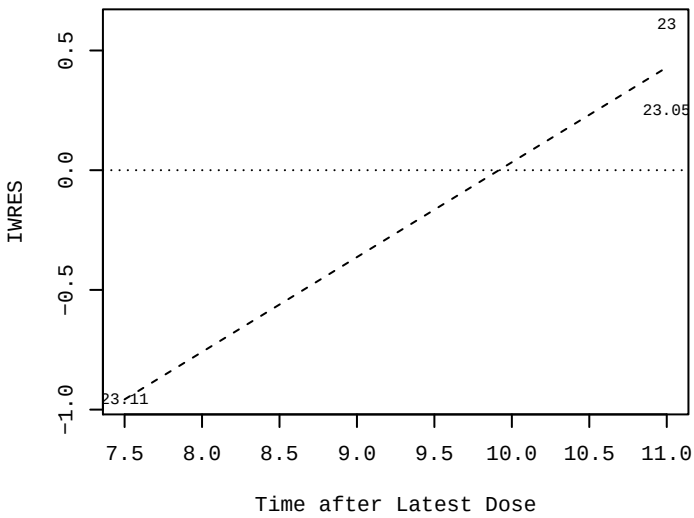








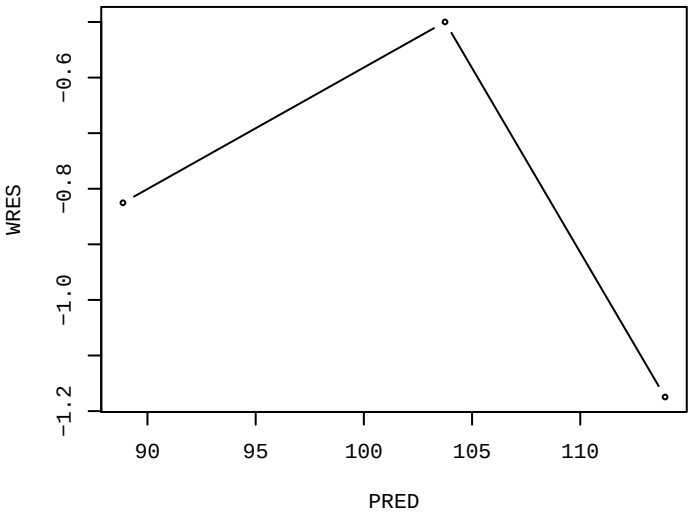


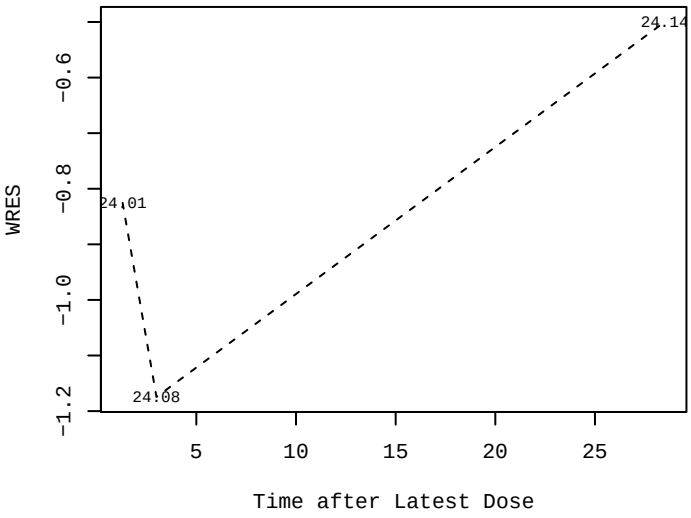


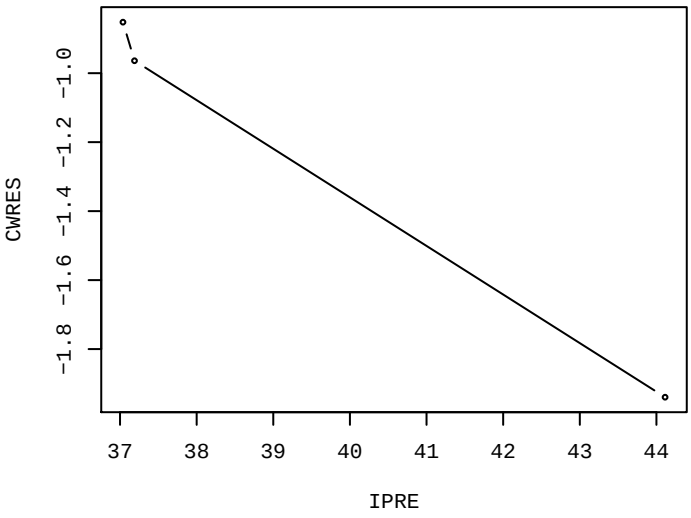
*Fractional number means dosing occasion.

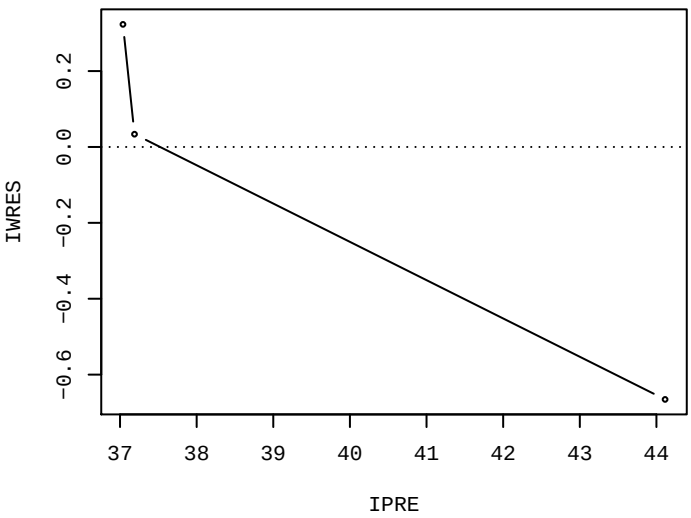
Individiual Residual Curve, ID = 24

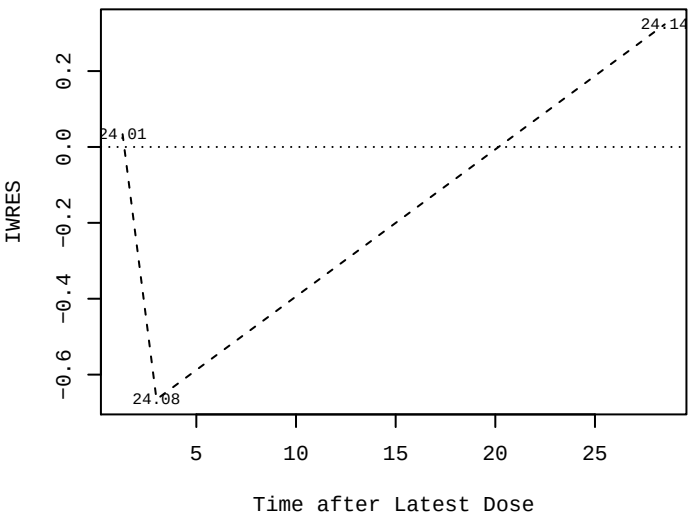
IOFV = 17.2406 , OFV per DV = 5.7469 , Run Test(CWRES) p = 0.25







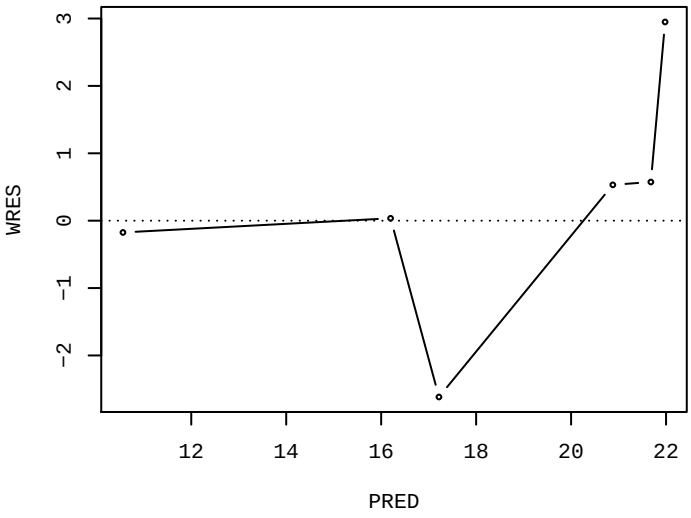


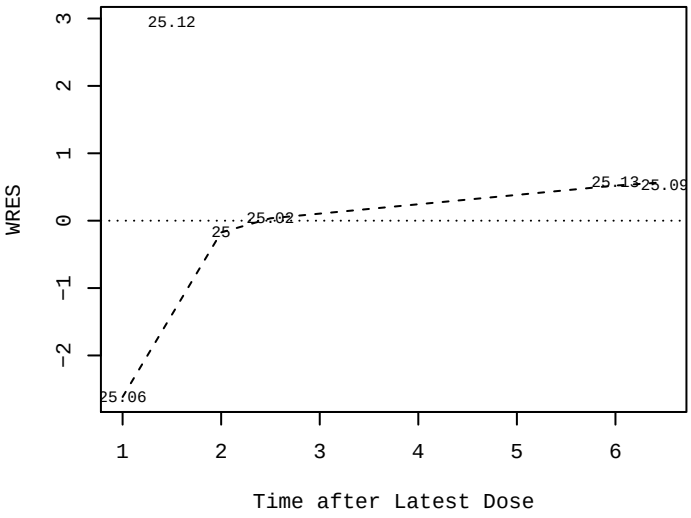


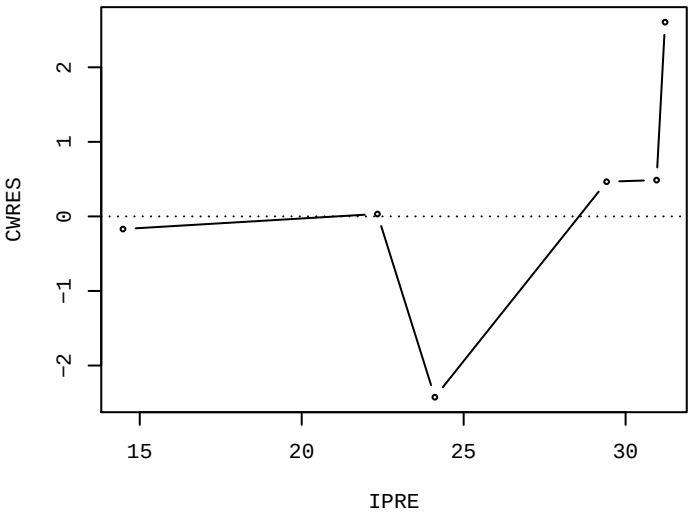
*Fractional number means dosing occasion.

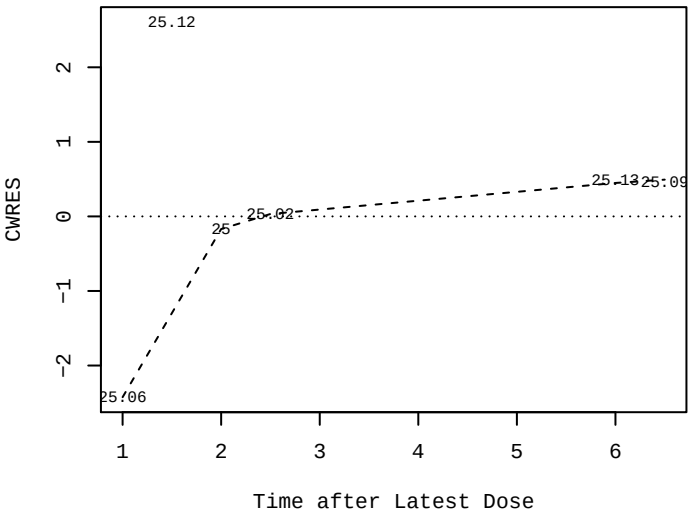
Individiual Residual Curve, ID = 25

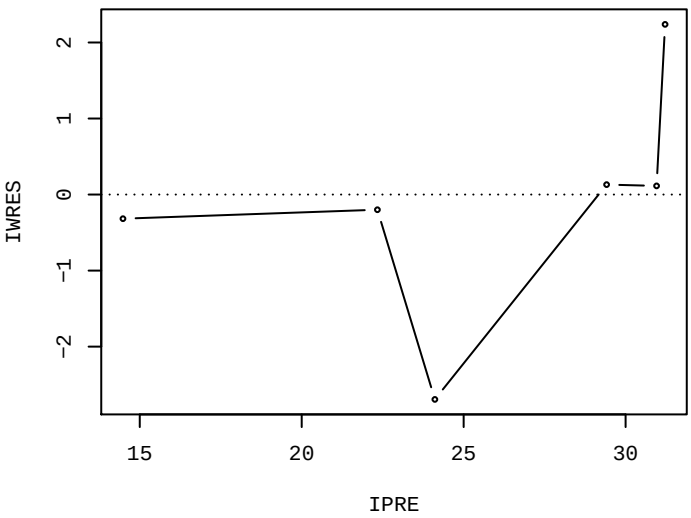
IOFV = 30.062 , OFV per DV = 5.0103 , Run Test(CWRES) p = 0.6

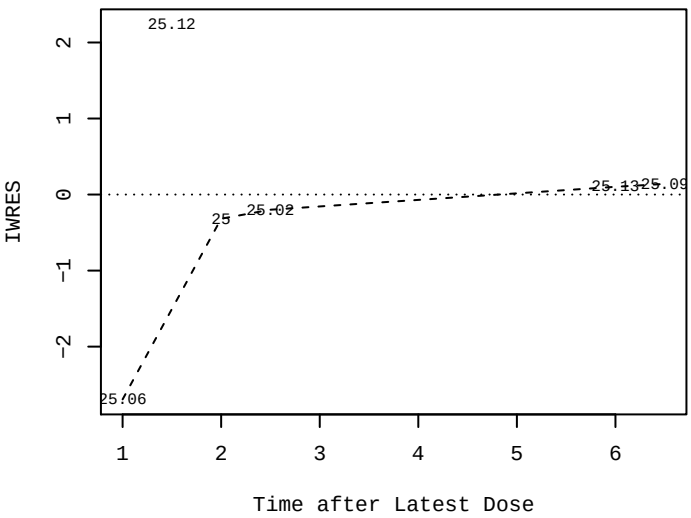








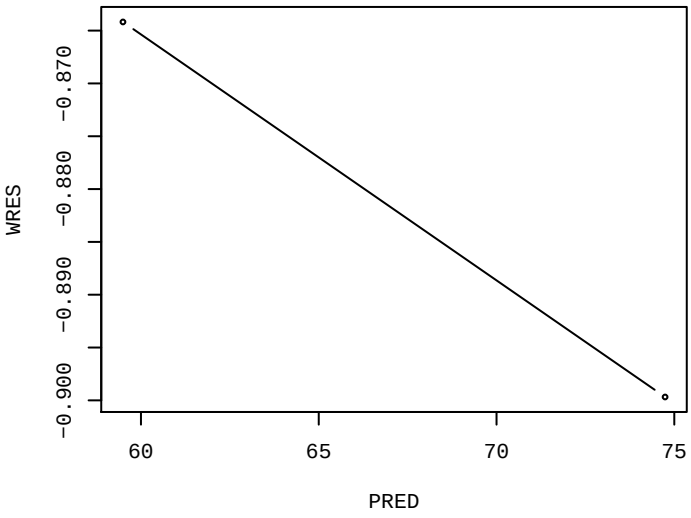


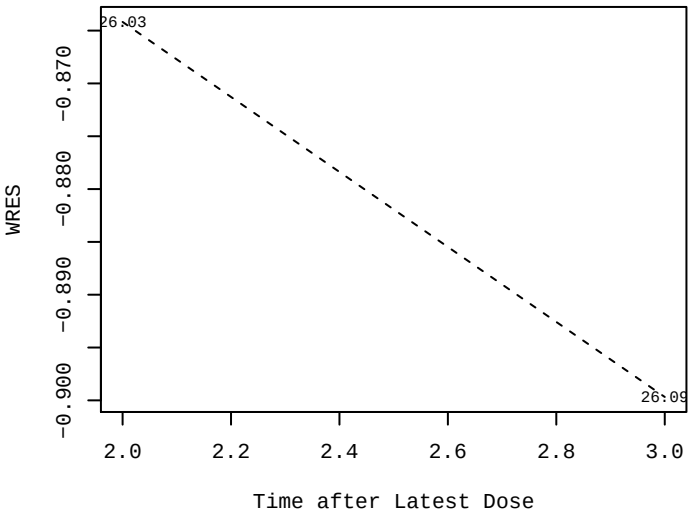


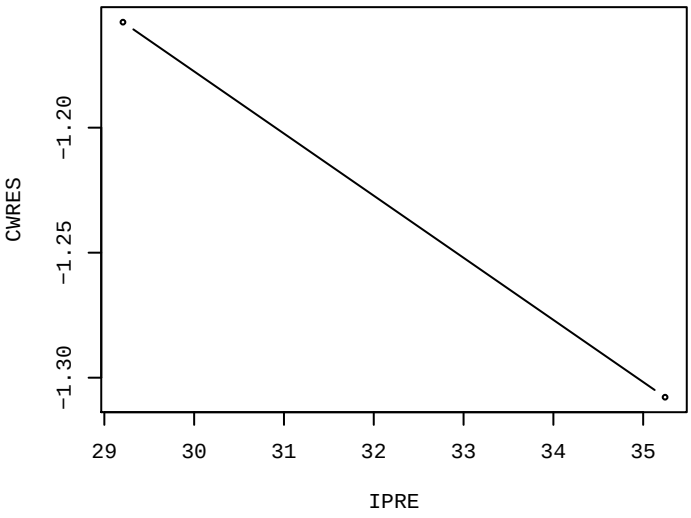
*Fractional number means dosing occasion.

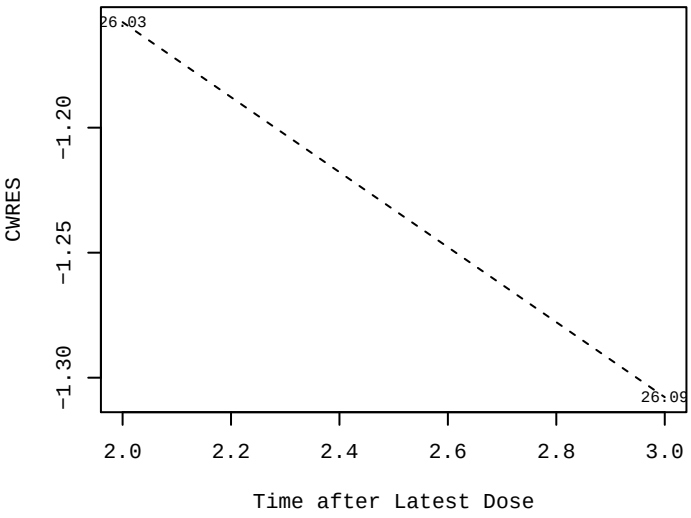
Individiual Residual Curve, ID = 26

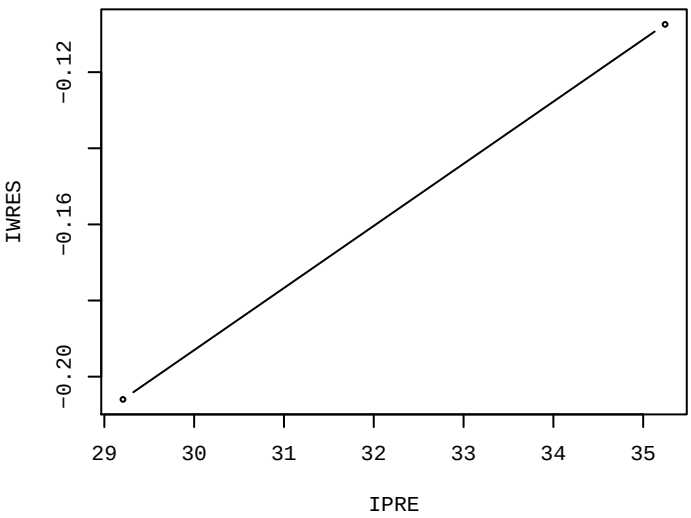
IOFV = 11.2696 , OFV per DV = 5.6348 , Run Test(CWRES) p = 0.5

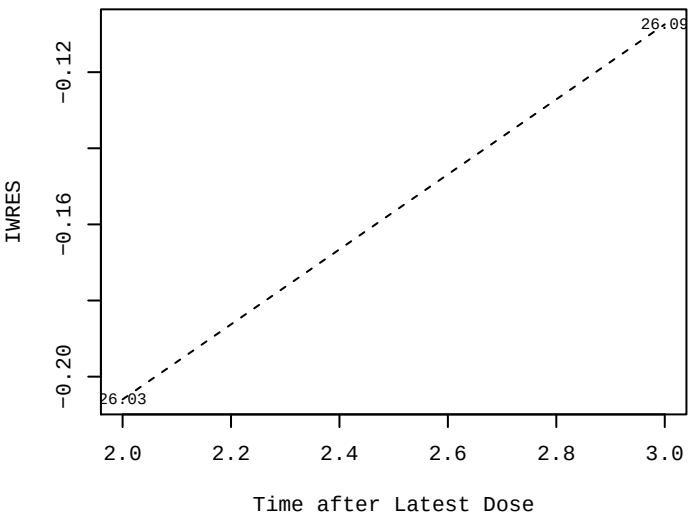






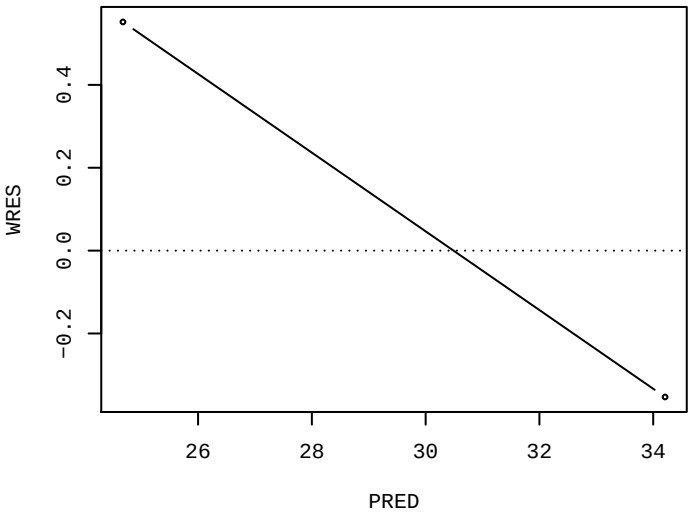


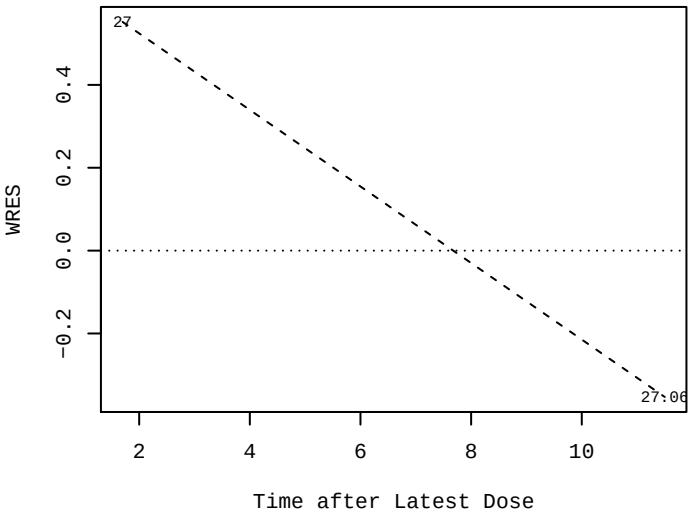


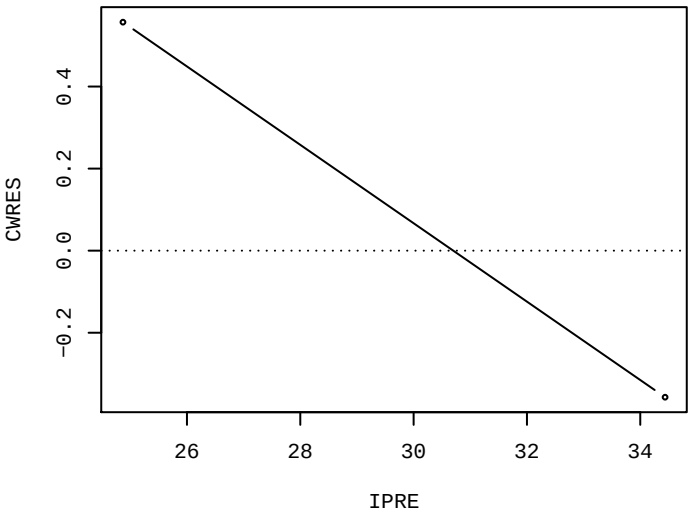


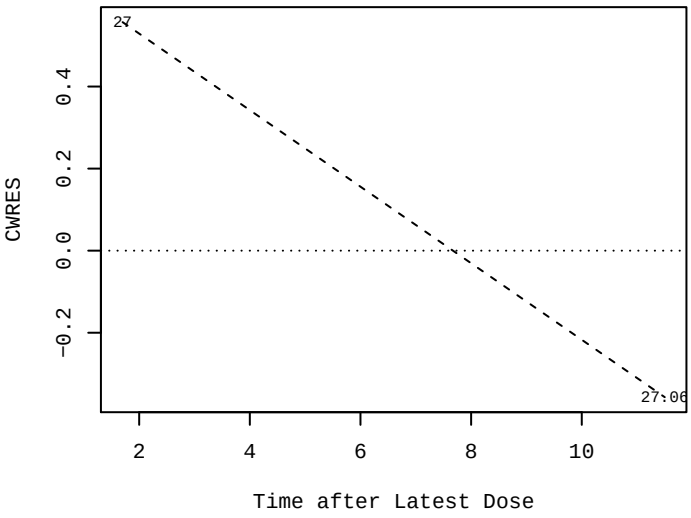
Individiual Residual Curve, ID = 27

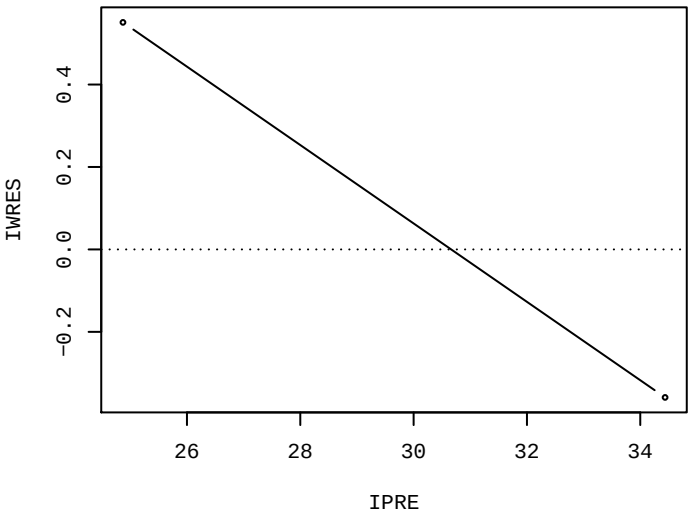
IOFV = 8.36004 , OFV per DV = 4.18 , Run Test(CWRES) p = 1

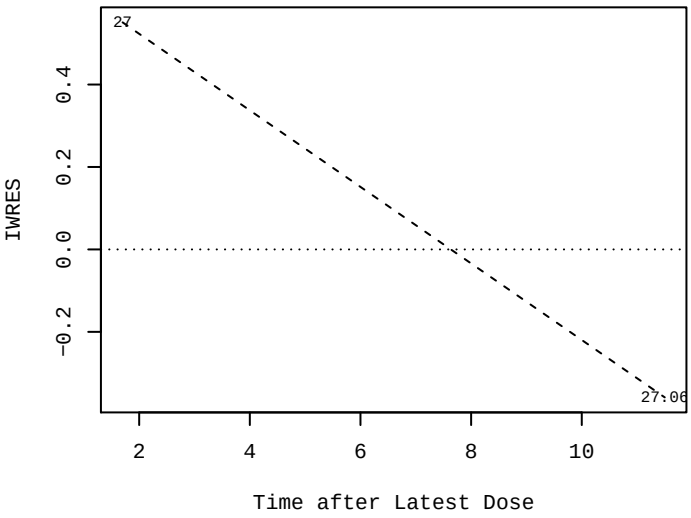








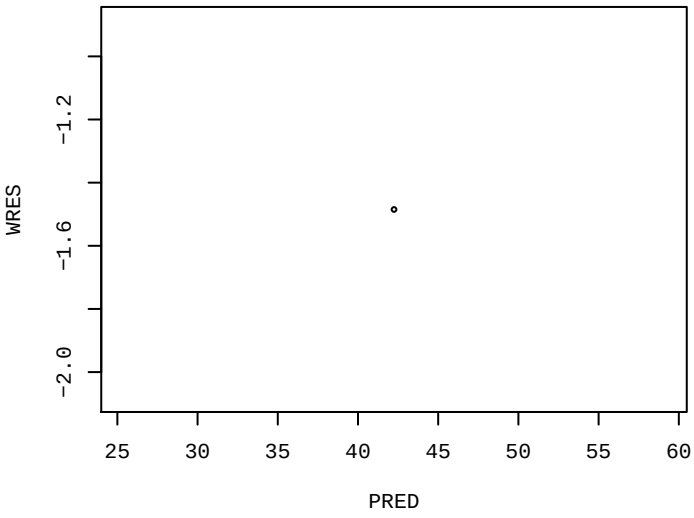


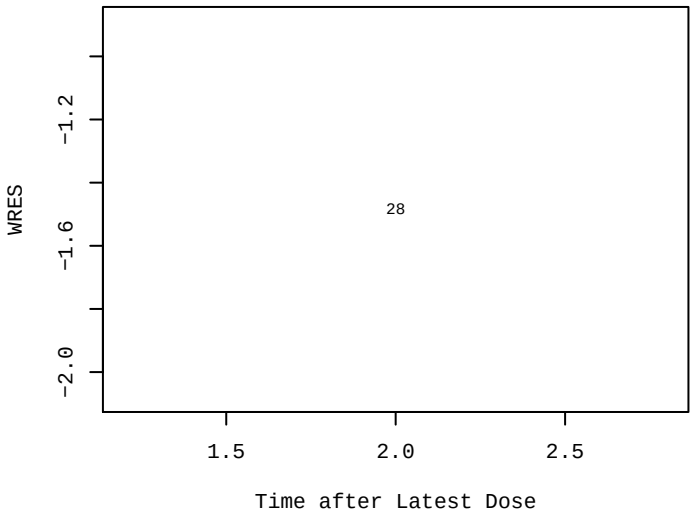


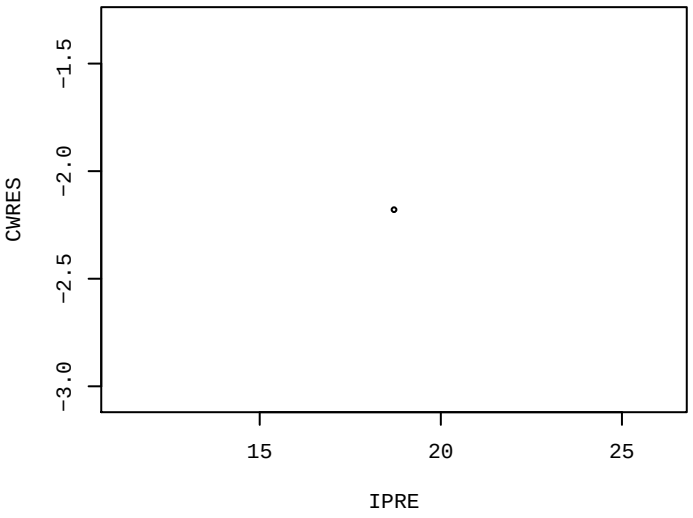
*Fractional number means dosing occasion.

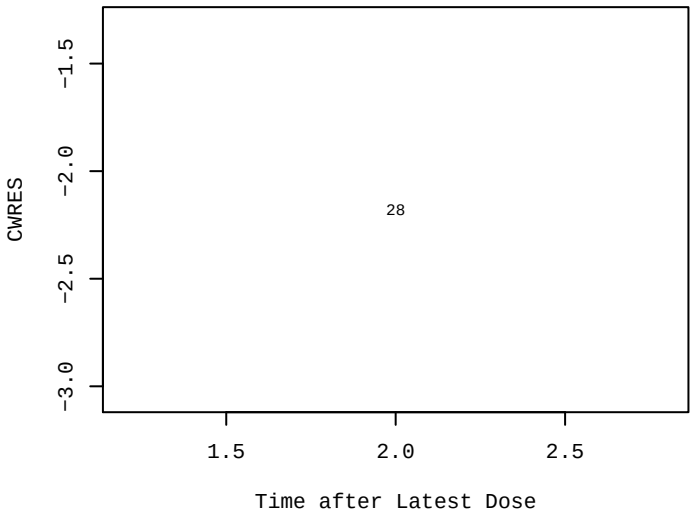
Individiual Residual Curve, ID = 28

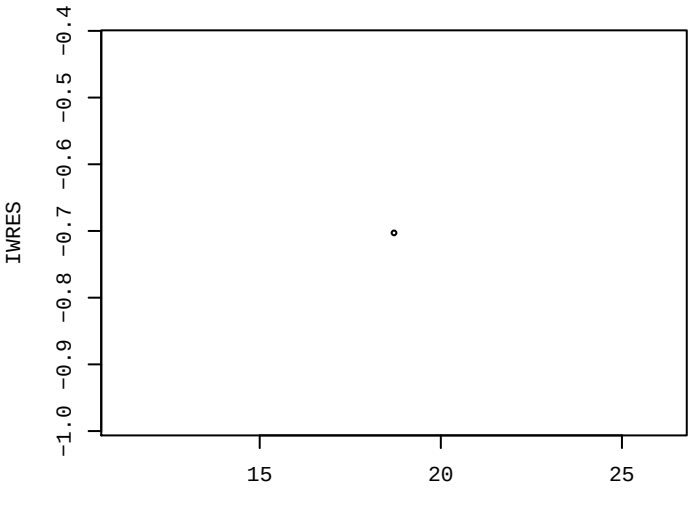
IOFV = 8.86448 , OFV per DV = 8.8645 , Run Test(CWRES) p = 1

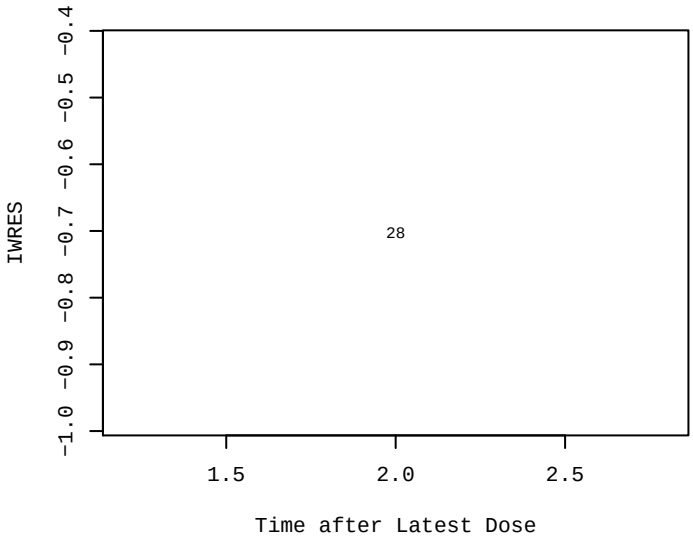








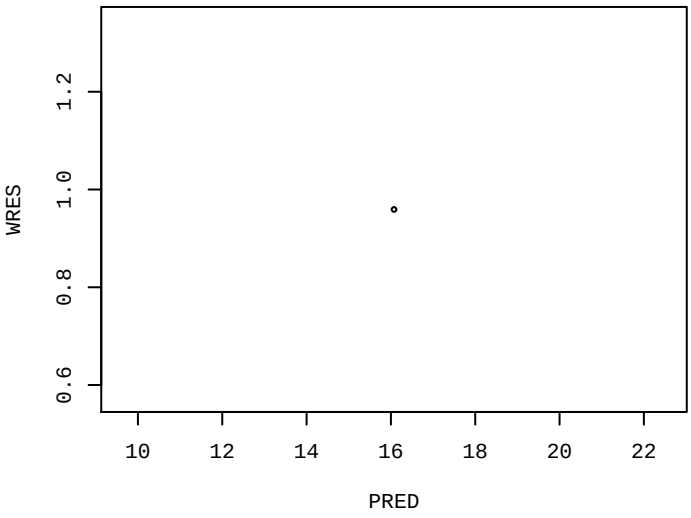


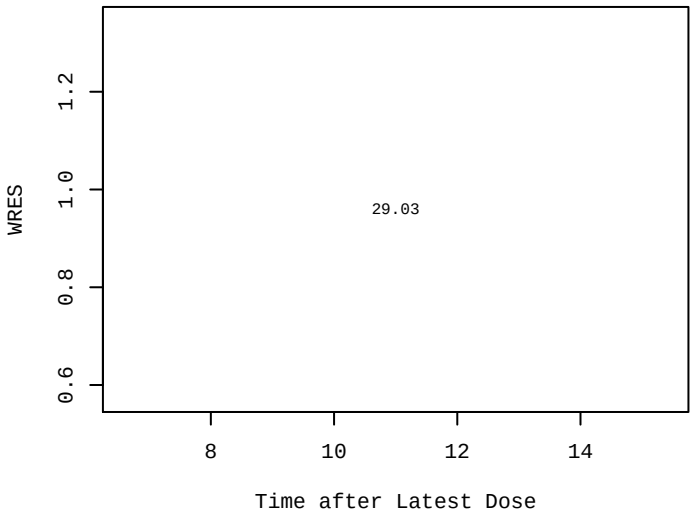


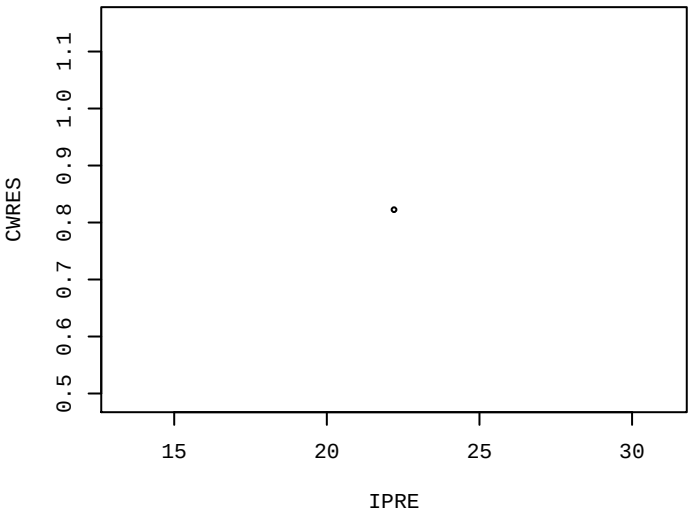
*Fractional number means dosing occasion.

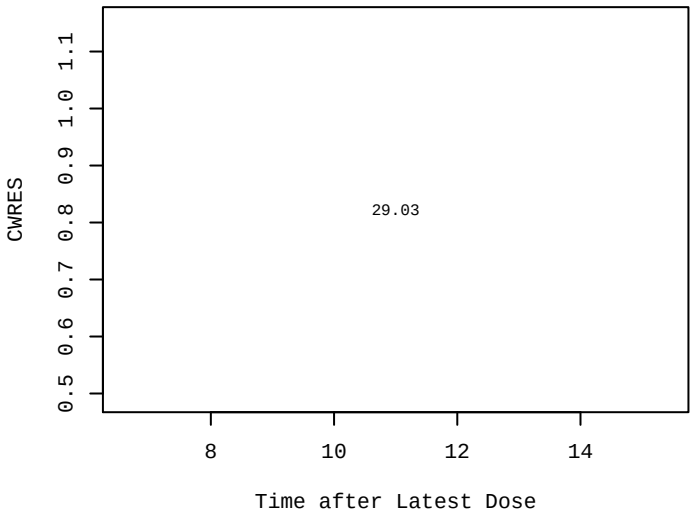
Individiual Residual Curve, ID = 29

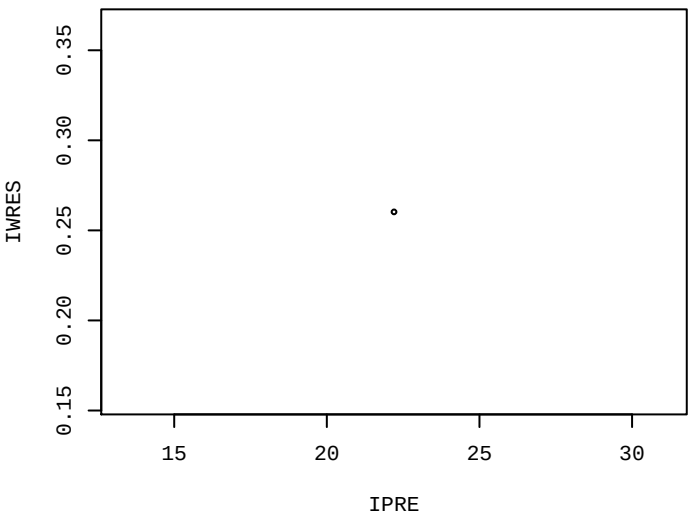
IOFV = 5.19262 , OFV per DV = 5.1926 , Run Test(CWRES) p = 1

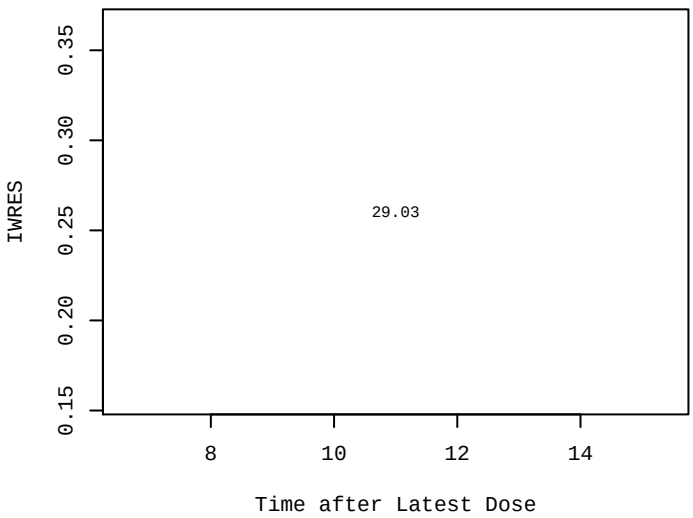








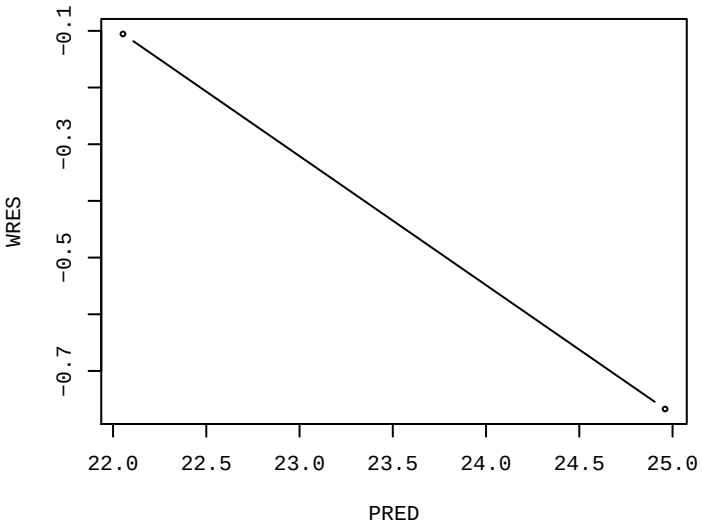


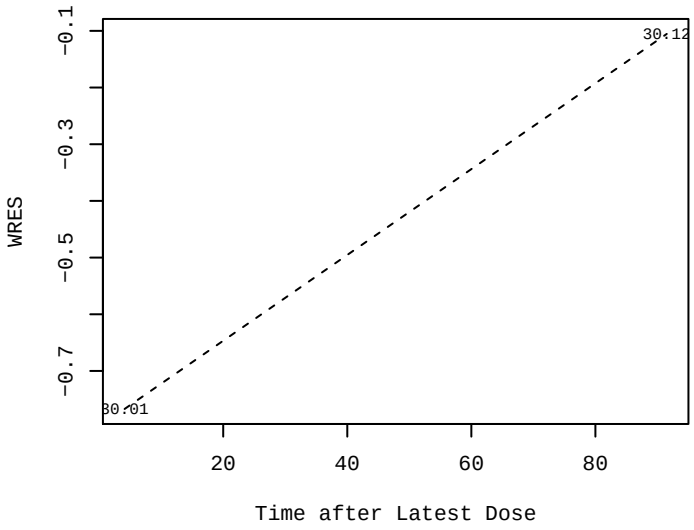


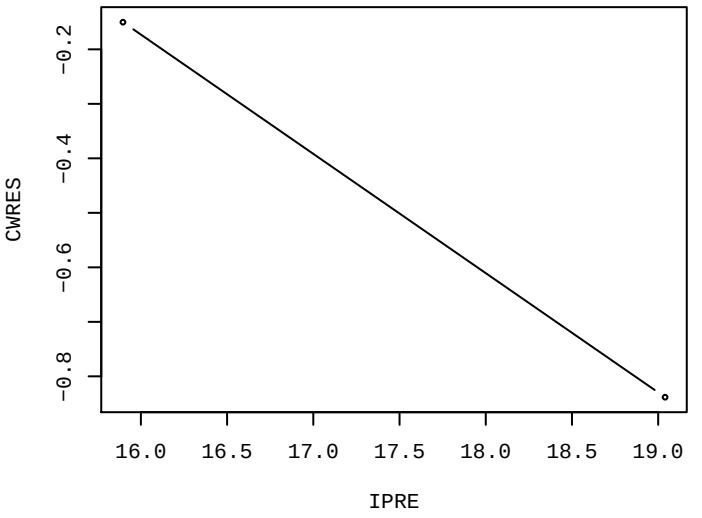
*Fractional number means dosing occasion.

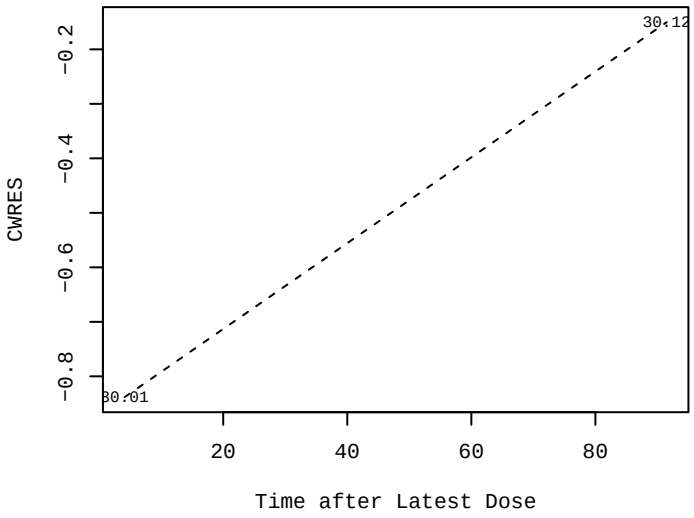
Individiual Residual Curve, ID = 30

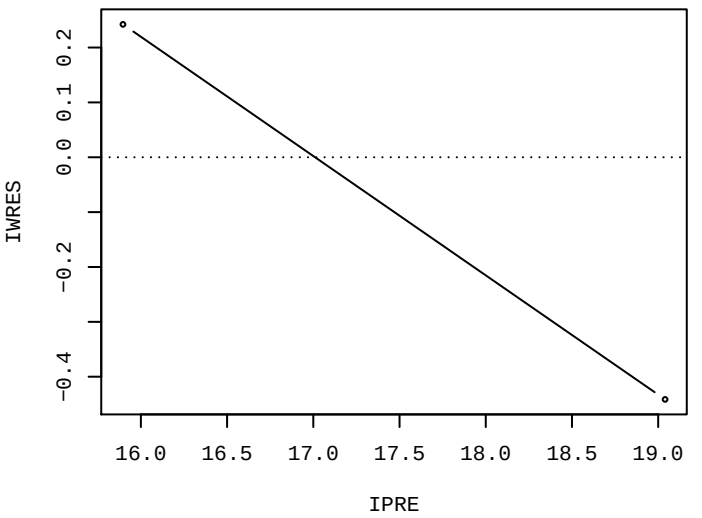
IOFV = 7.48013 , OFV per DV = 3.7401 , Run Test(CWRES) p = 0.5

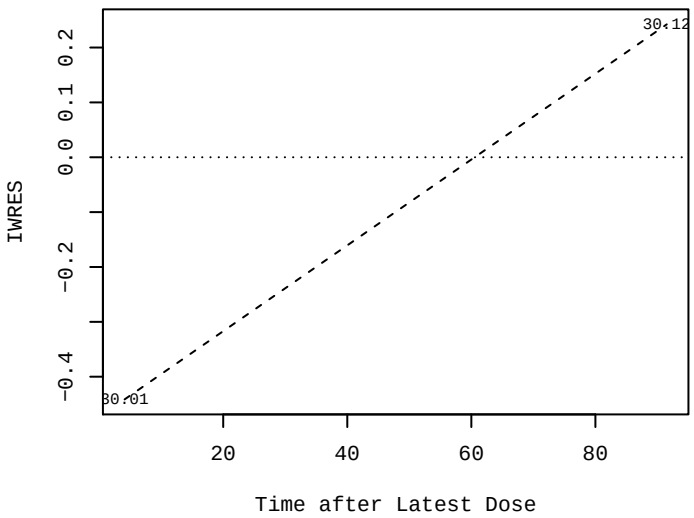








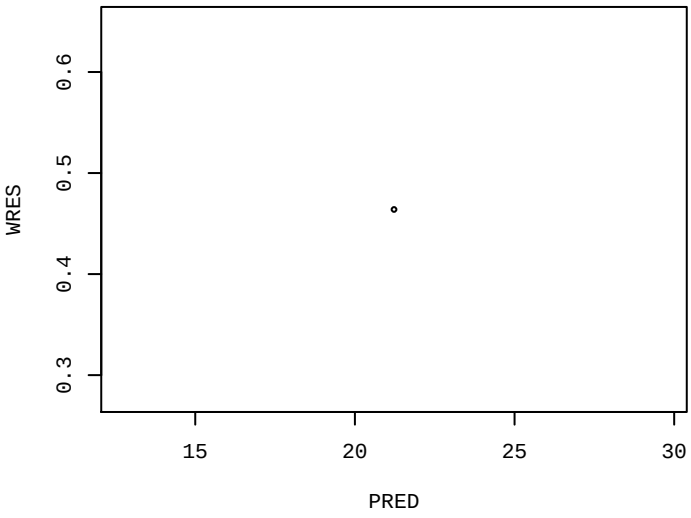


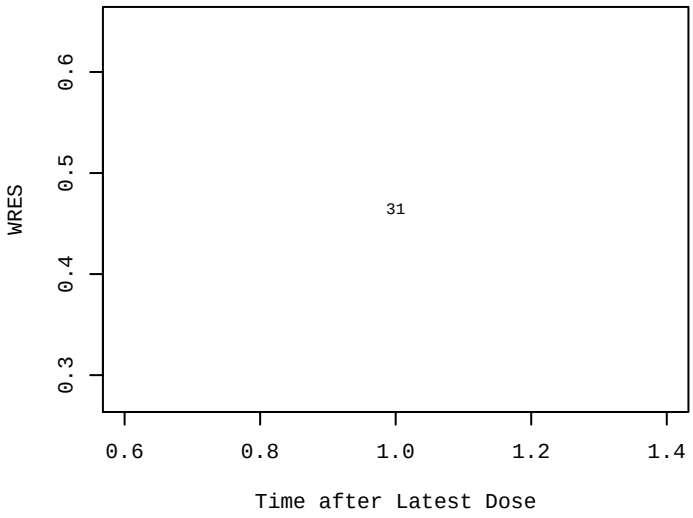


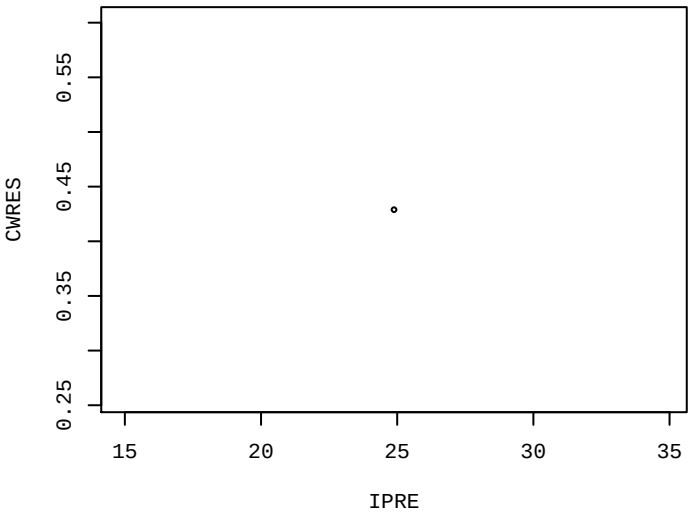
*Fractional number means dosing occasion.

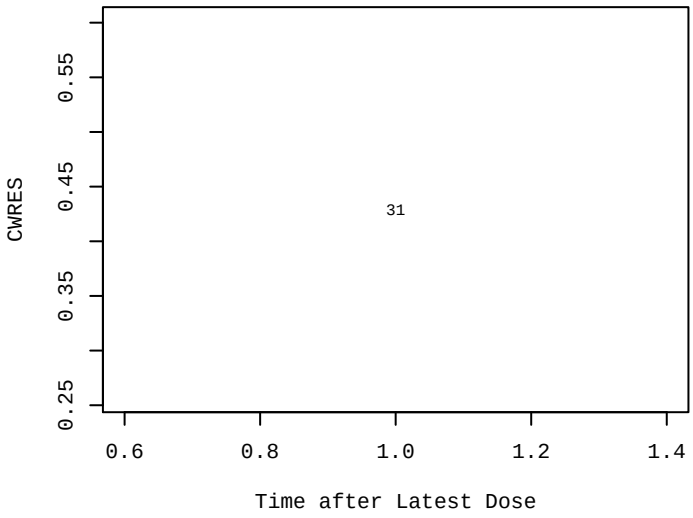
Individiual Residual Curve, ID = 31

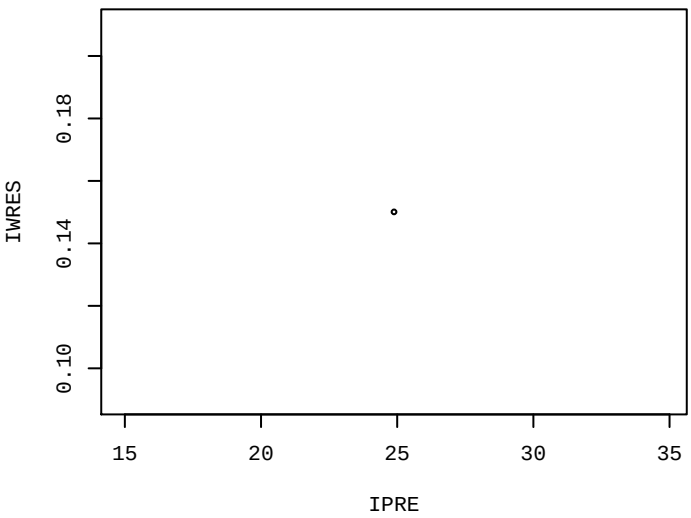
IOFV = 4.83175 , OFV per DV = 4.8318 , Run Test(CWRES) p = 1

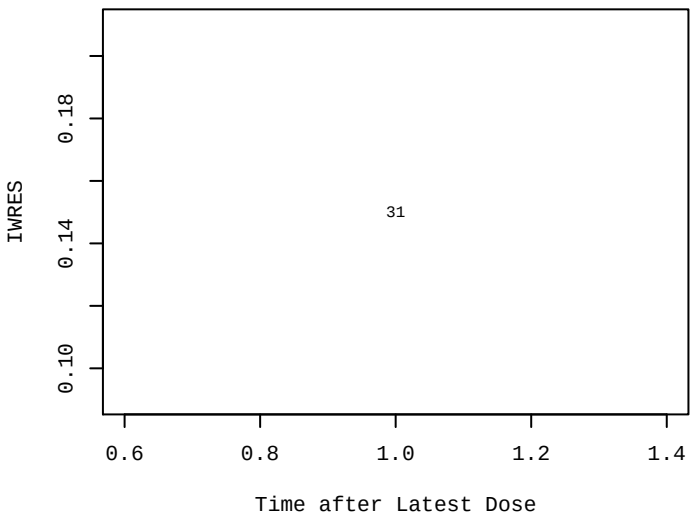








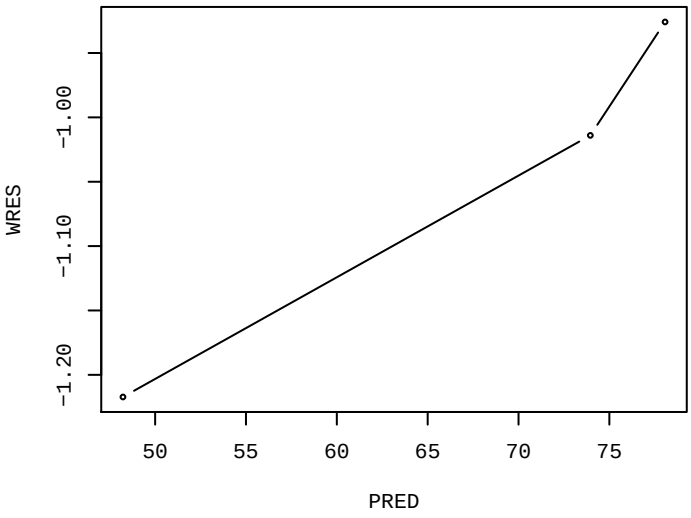


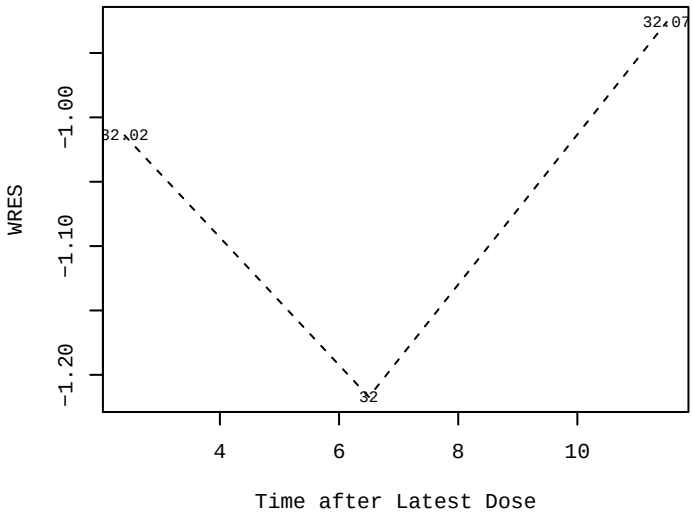


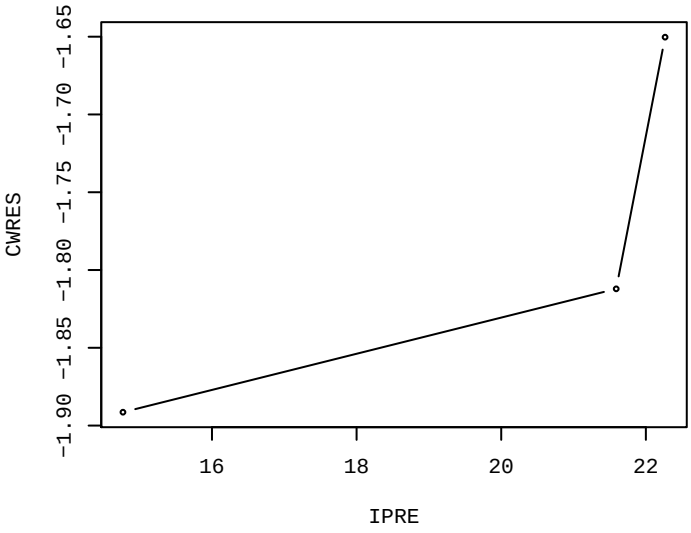
*Fractional number means dosing occasion.

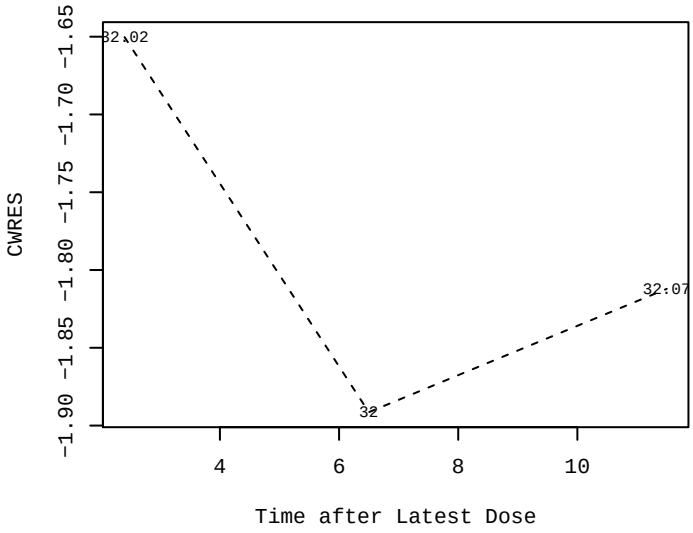
Individiual Residual Curve, ID = 32

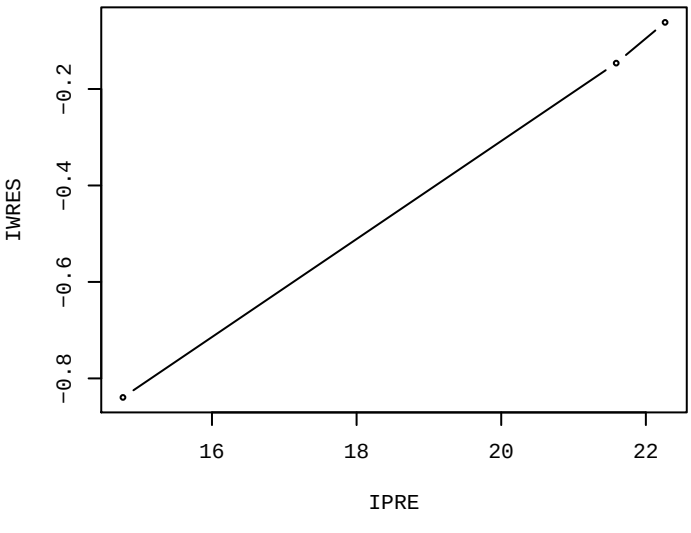
IOFV = 18.7671 , OFV per DV = 6.2557 , Run Test(CWRES) p = 0.25

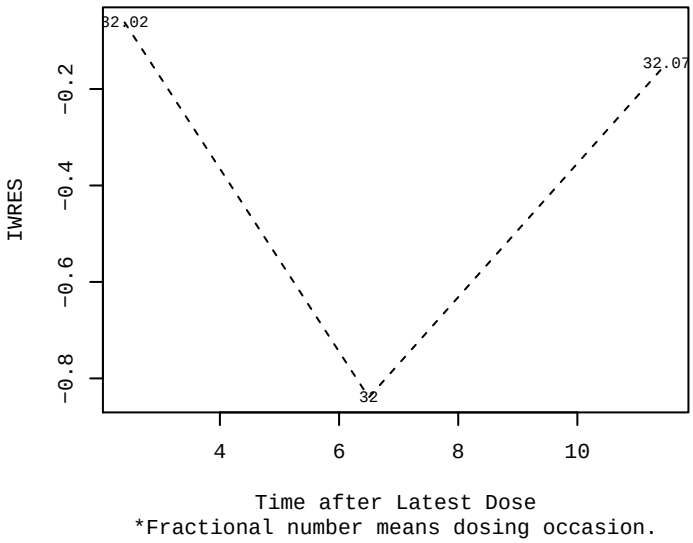








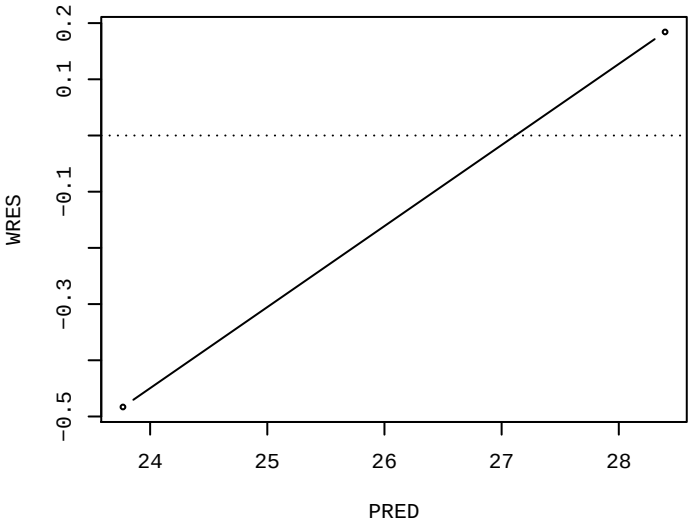


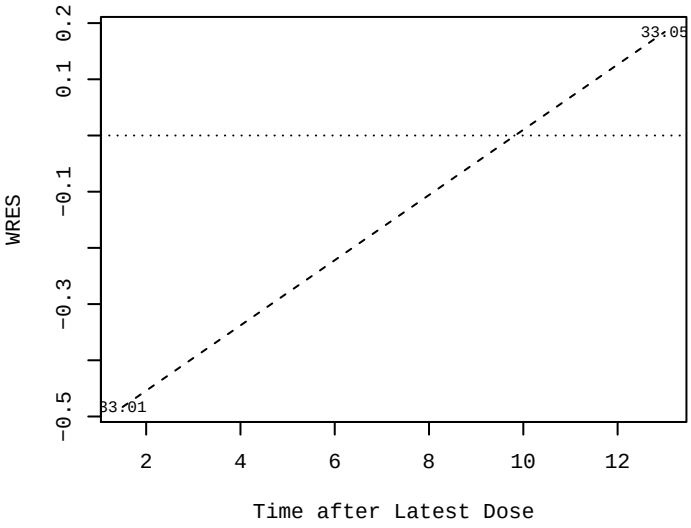


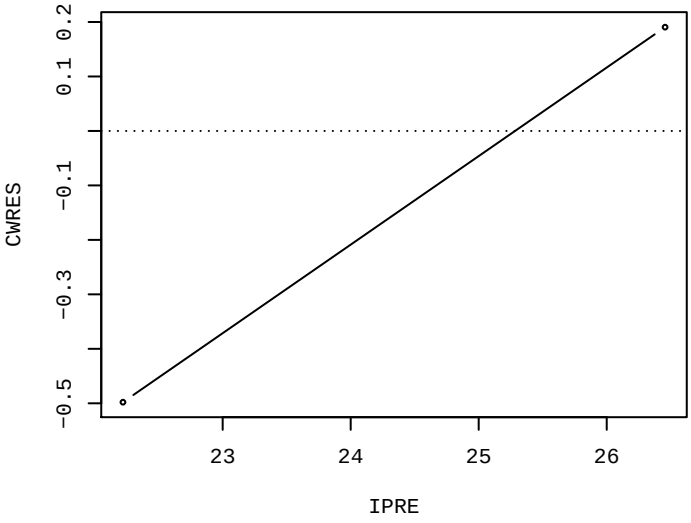
*Fractional number means dosing occasion.

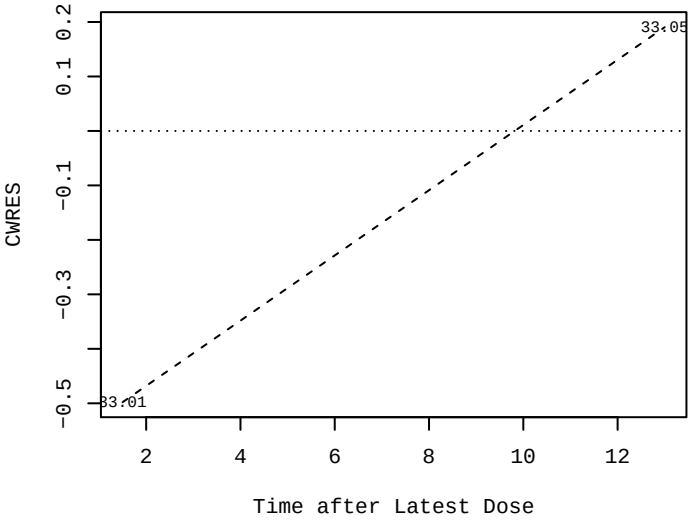
Individiual Residual Curve, ID = 33

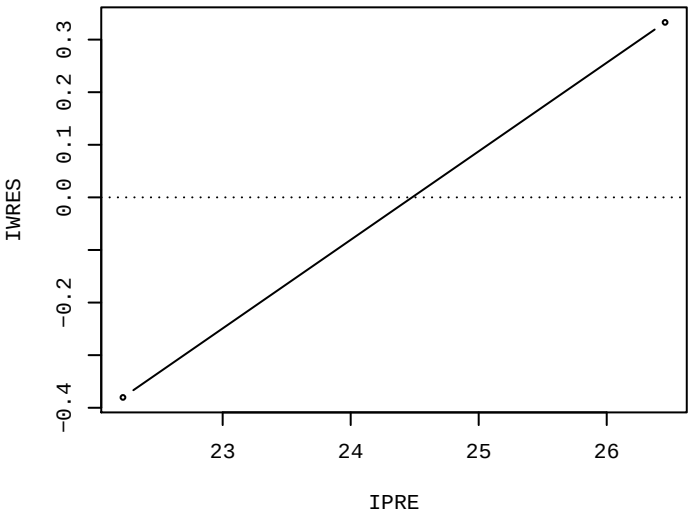
IOFV = 7.6568 , OFV per DV = 3.8284 , Run Test(CWRES) p = 1

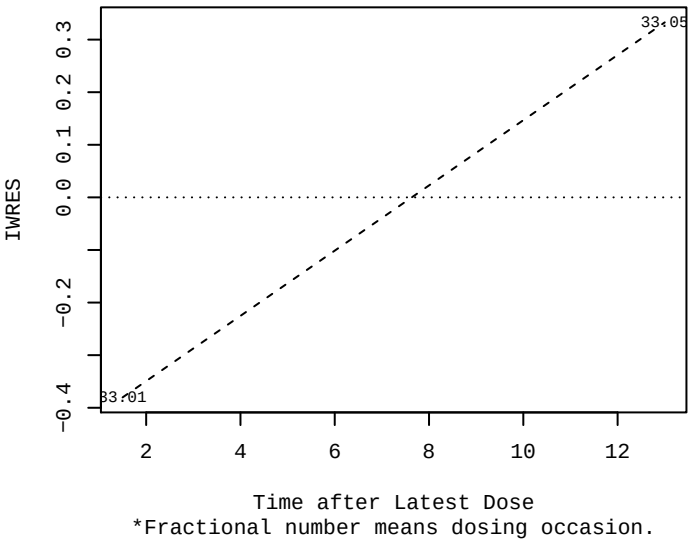








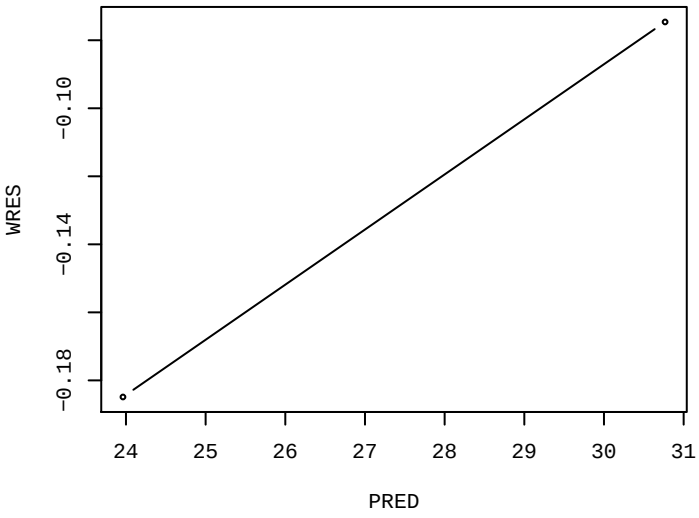


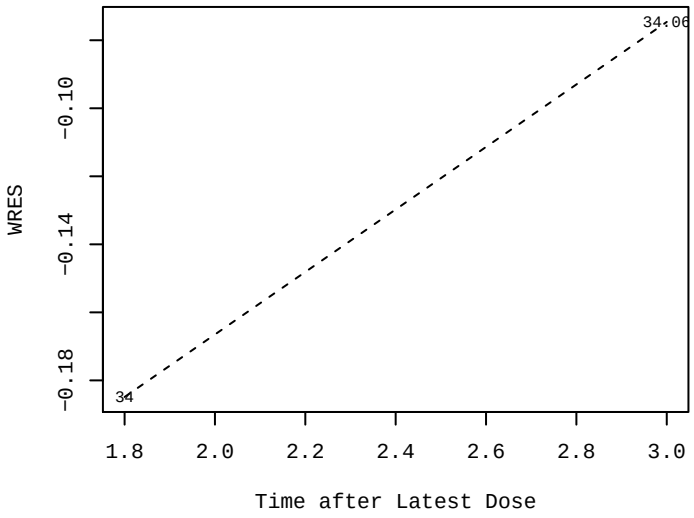


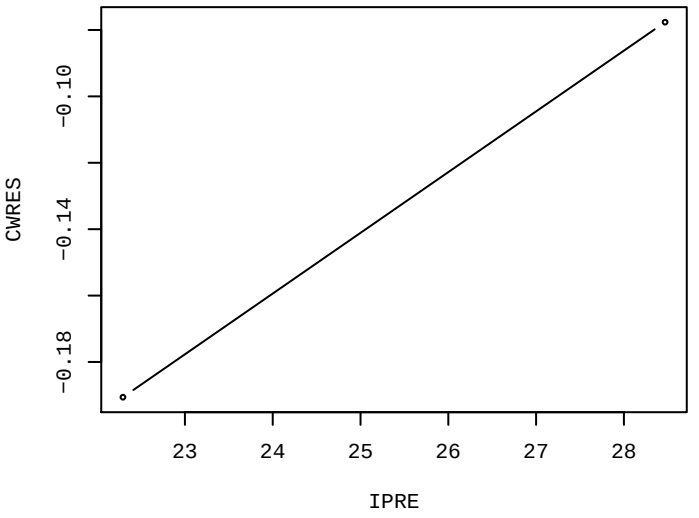
*Fractional number means dosing occasion.

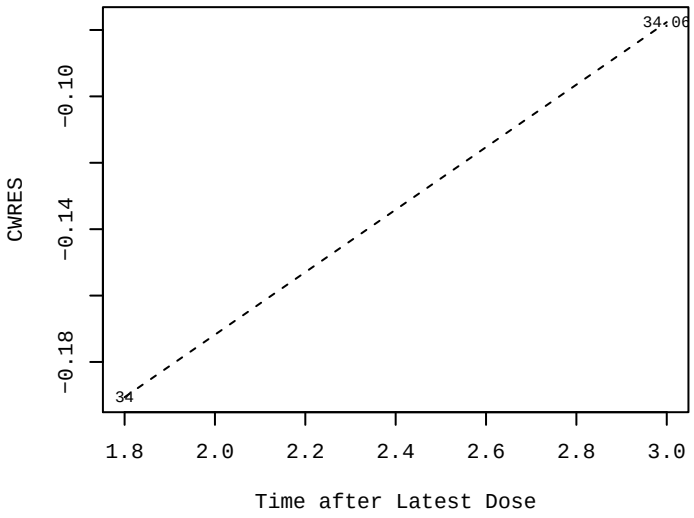
Individiual Residual Curve, ID = 34

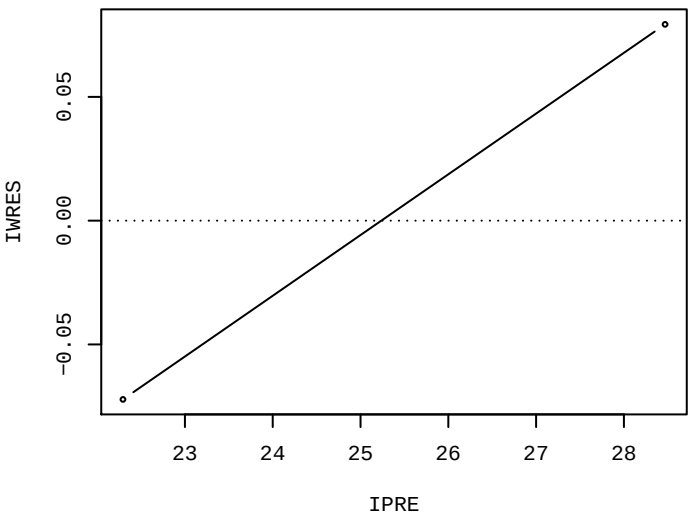
IOFV = 7.54757 , OFV per DV = 3.7738 , Run Test(CWRES) p = 0.5

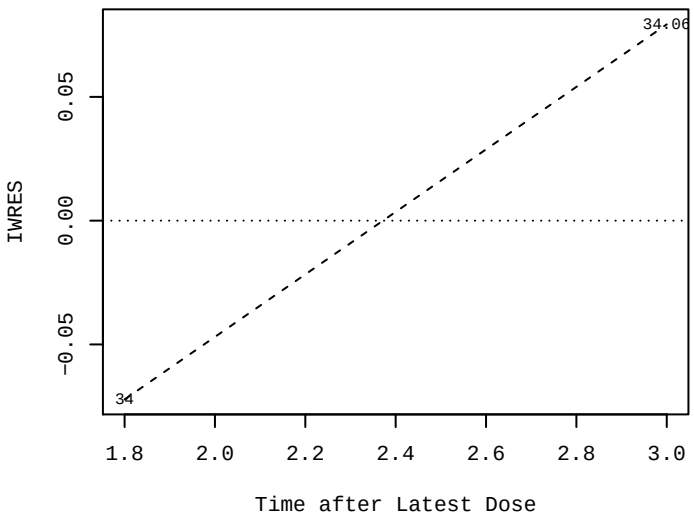






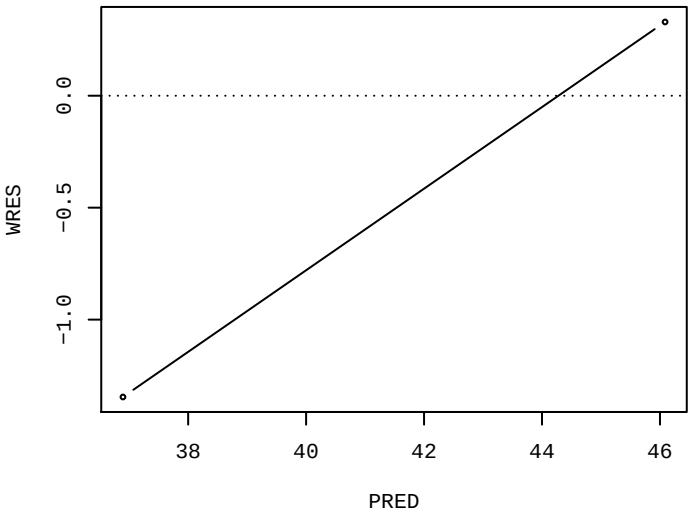


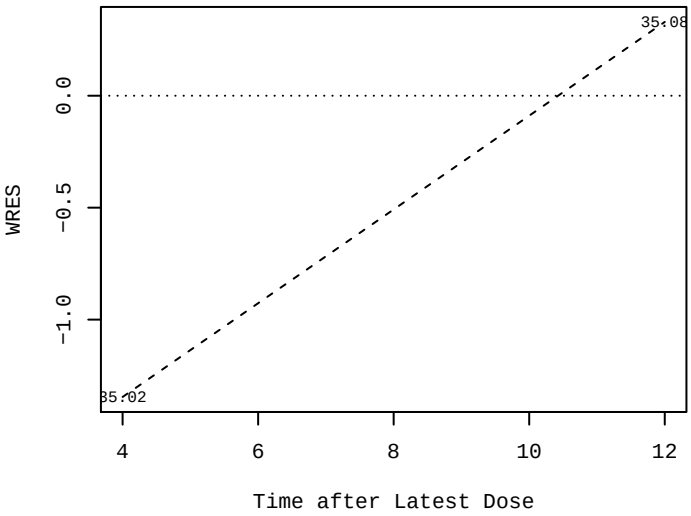


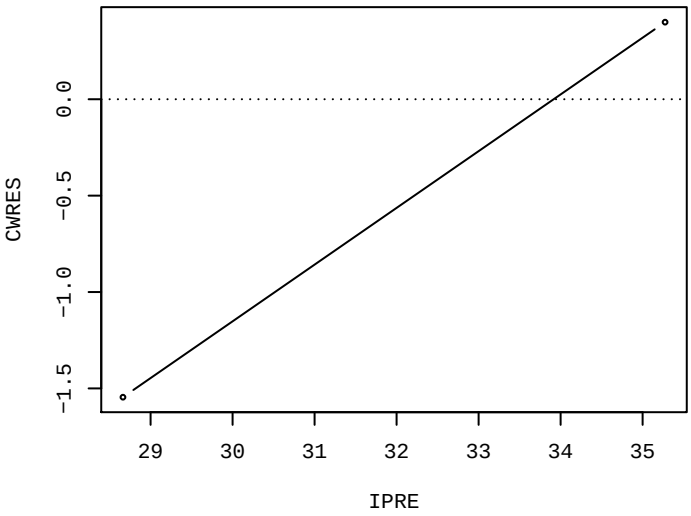


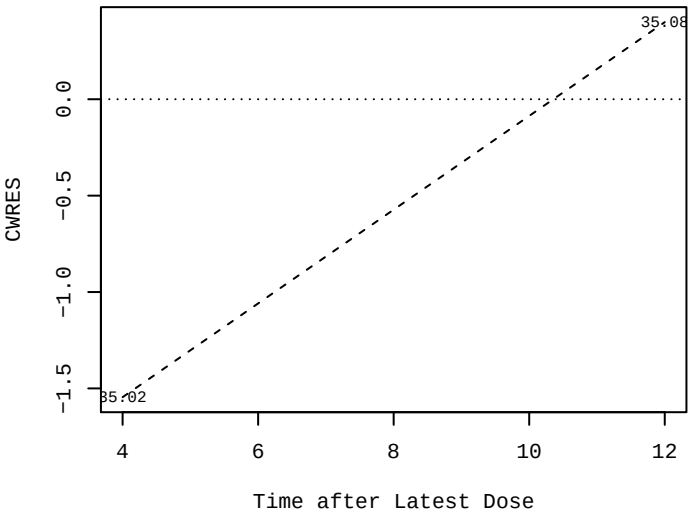
Individiual Residual Curve, ID = 35

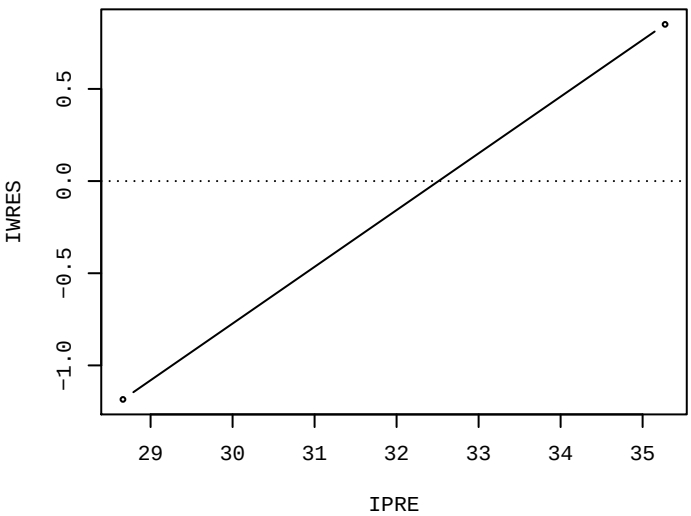
IOFV = 10.7121 , OFV per DV = 5.356 , Run Test(CWRES) p = 1

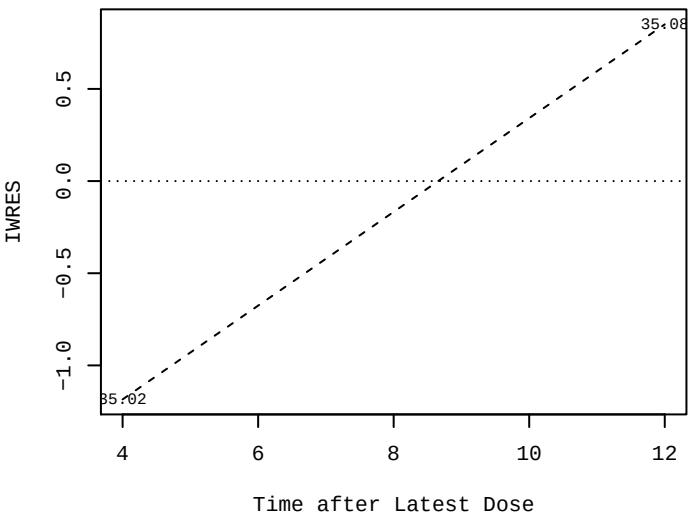








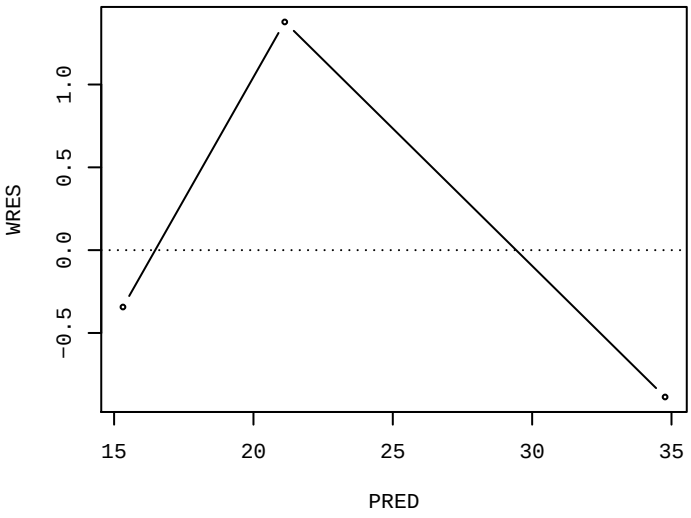


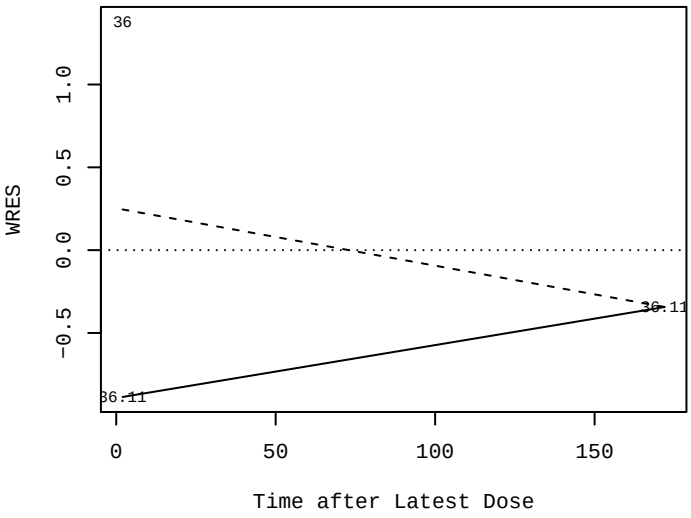


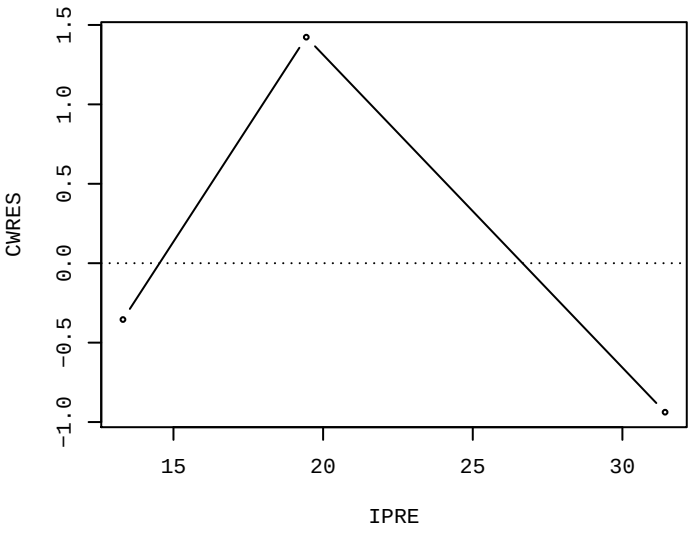
*Fractional number means dosing occasion.

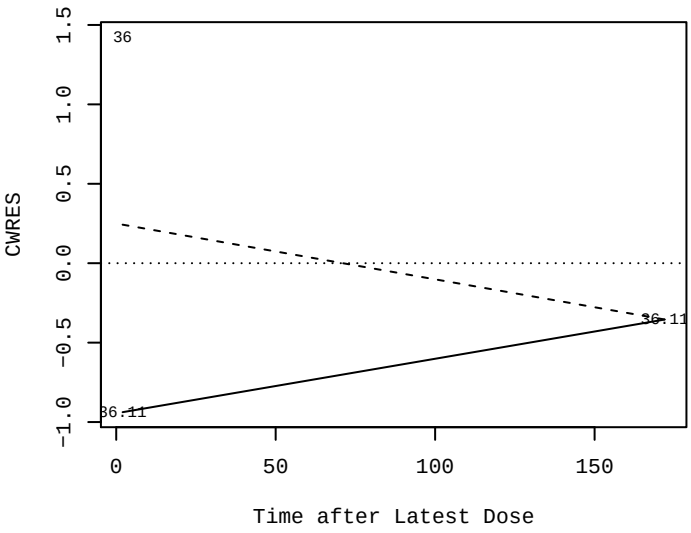
Individiual Residual Curve, ID = 36

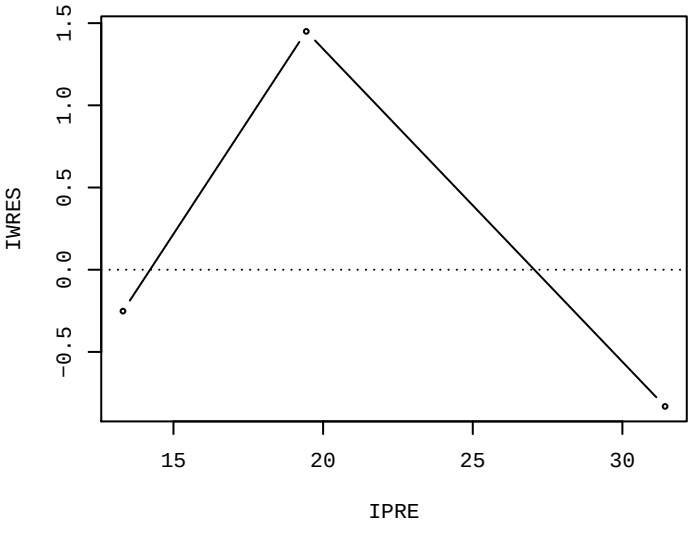
IOFV = 12.701 , OFV per DV = 4.2337 , Run Test(CWRES) p = 1

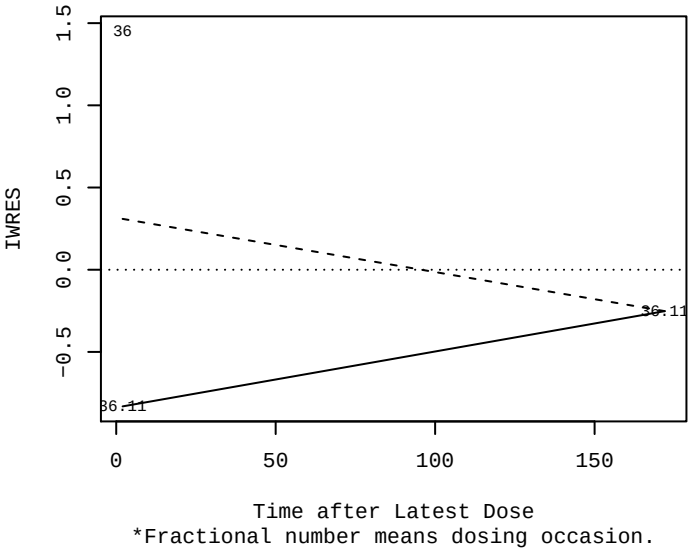








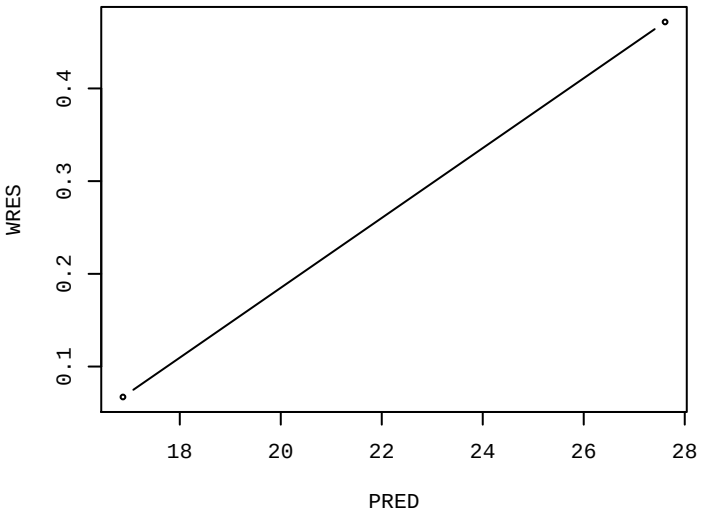


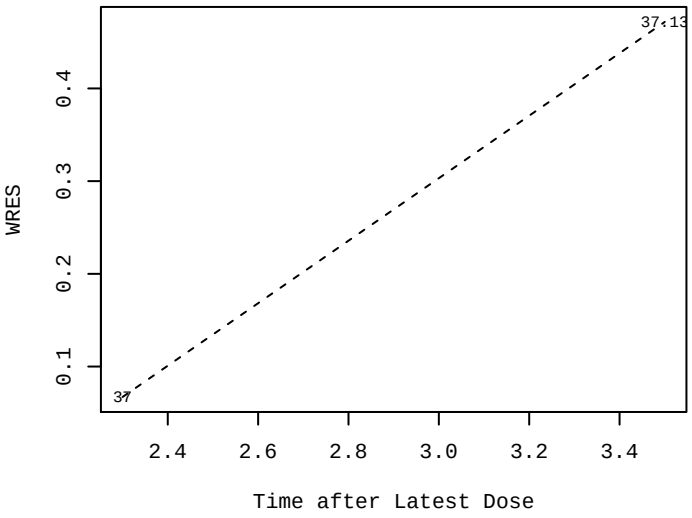


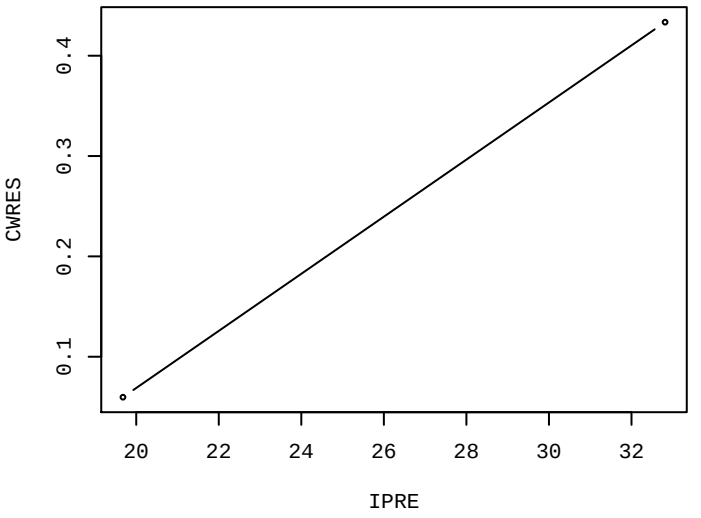
*Fractional number means dosing occasion.

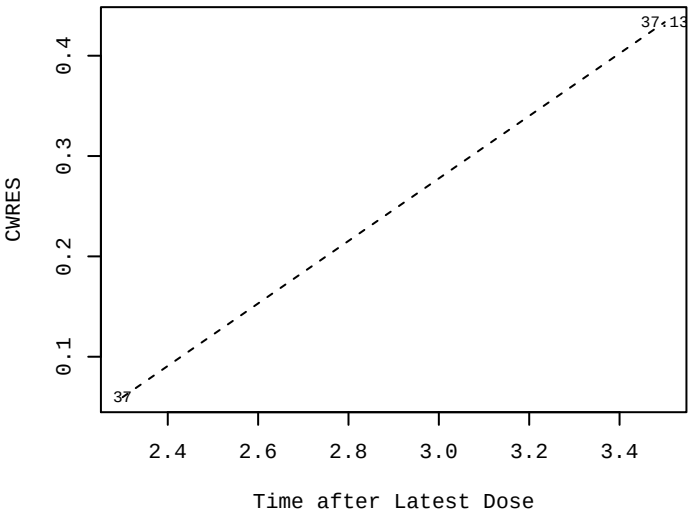
Individiual Residual Curve, ID = 37

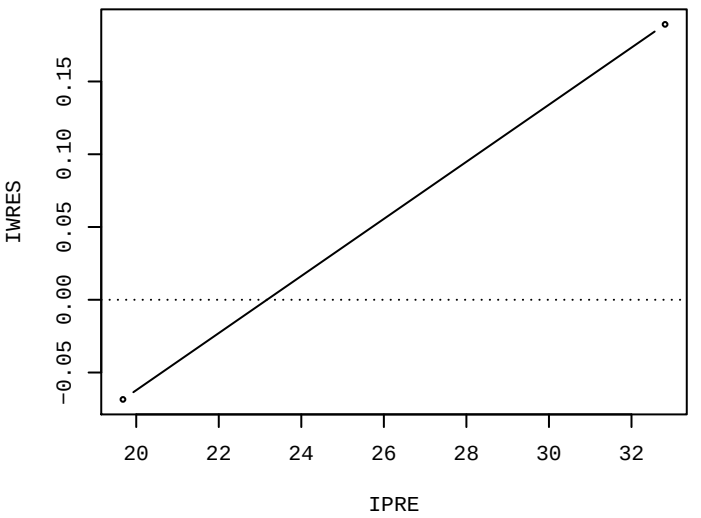
IOFV = 7.85162 , OFV per DV = 3.9258 , Run Test(CWRES) p = 0.5

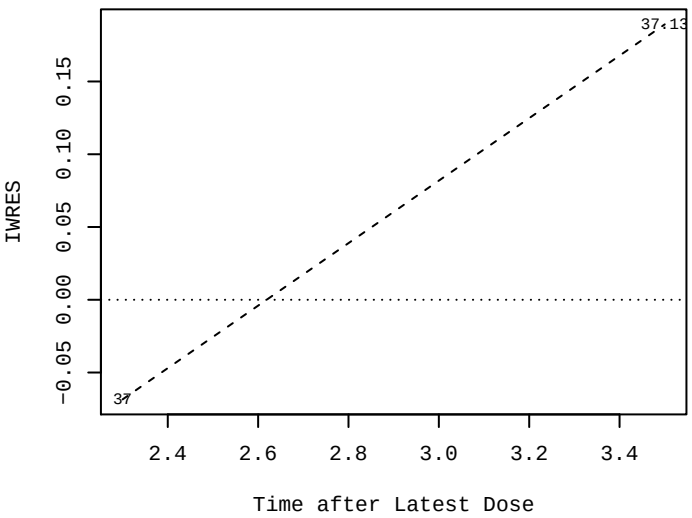






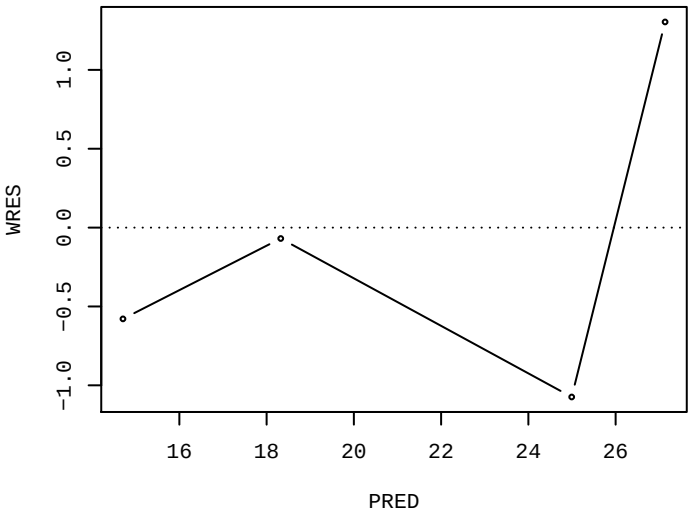


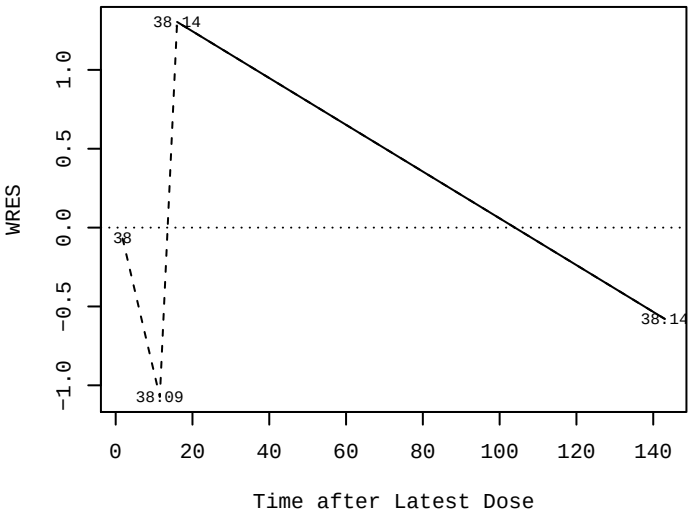


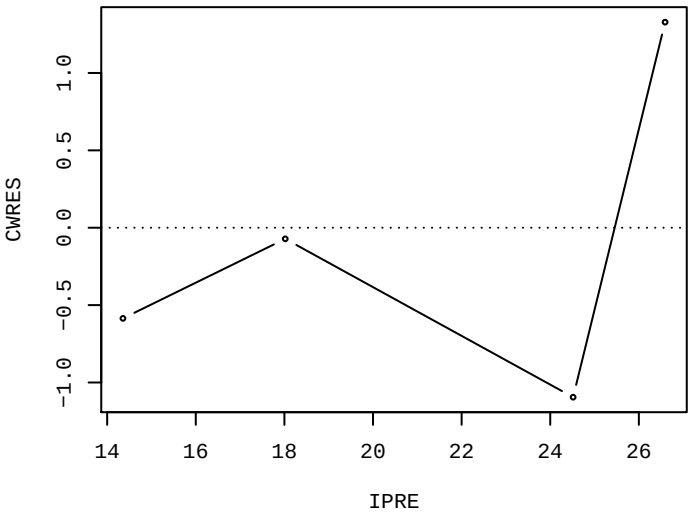


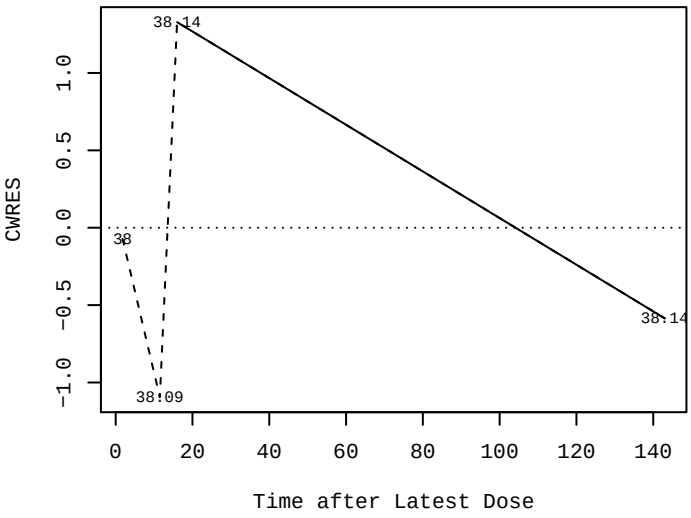
Individiual Residual Curve, ID = 38

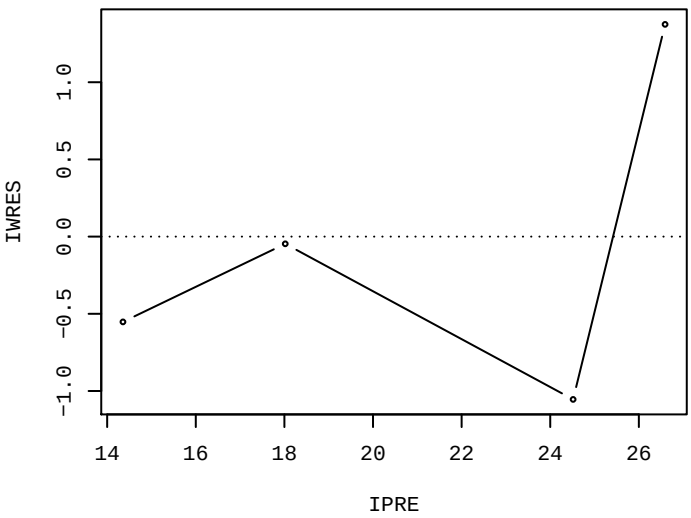
IOFV = 15.131 , OFV per DV = 3.7828 , Run Test(CWRES) p = 0.5

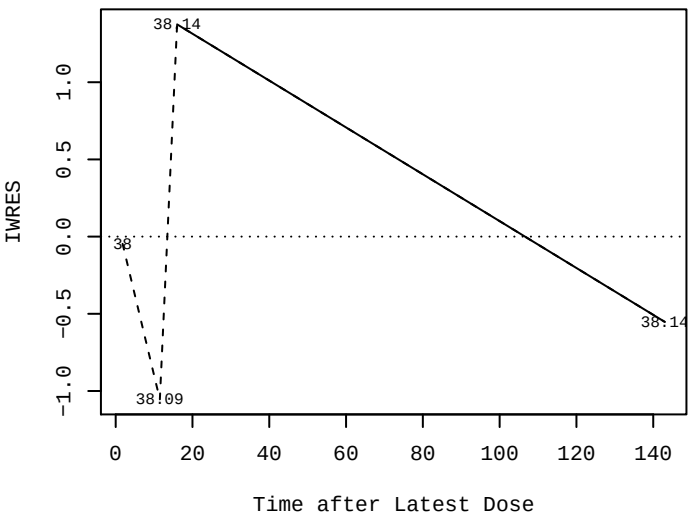








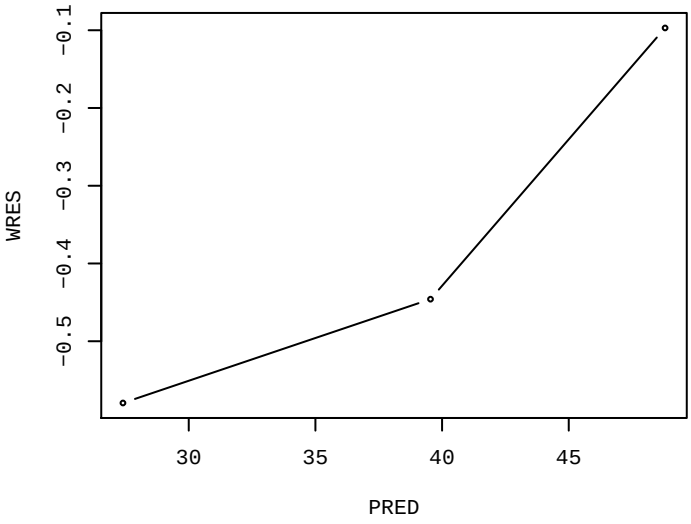


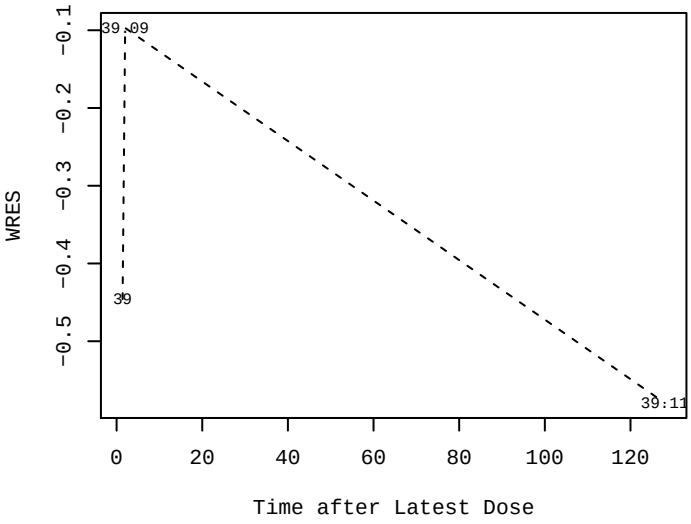


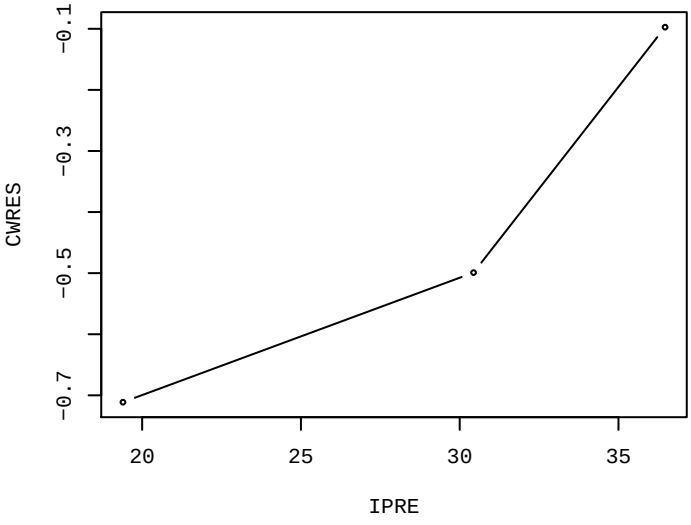
*Fractional number means dosing occasion.

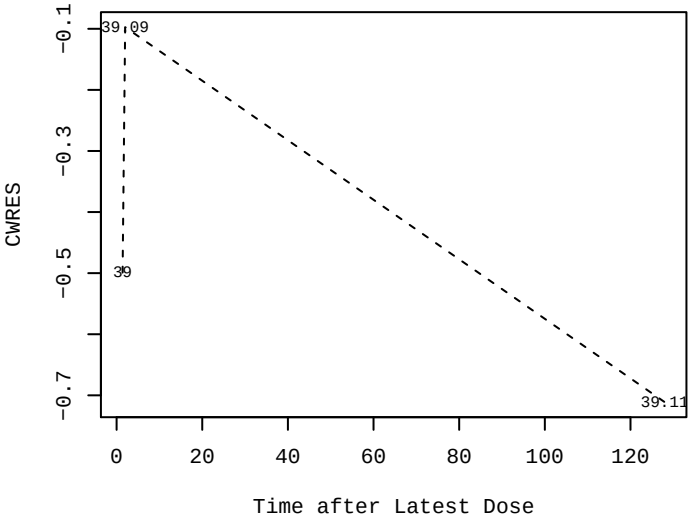
Individiual Residual Curve, ID = 39

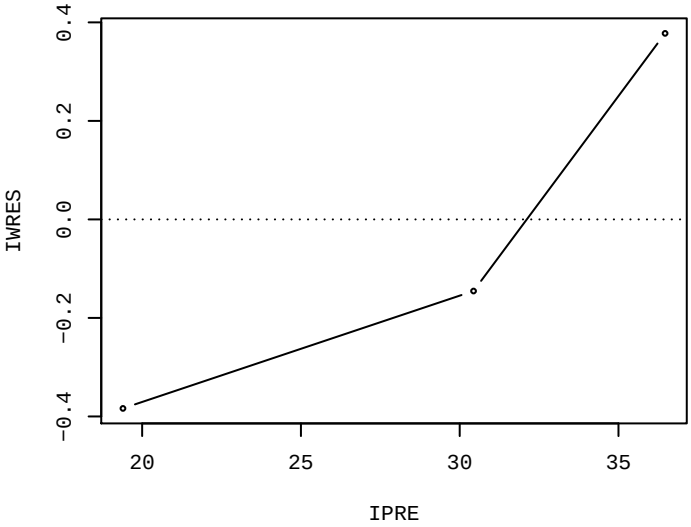
IOFV = 11.4078 , OFV per DV = 3.8026 , Run Test(CWRES) p = 0.25

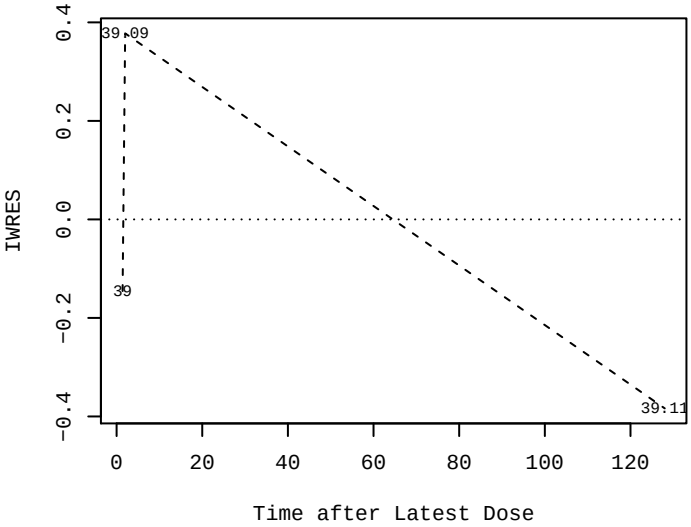








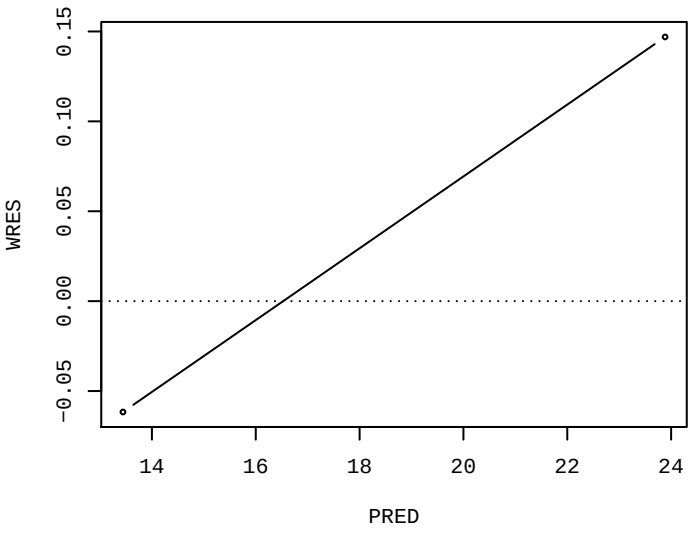


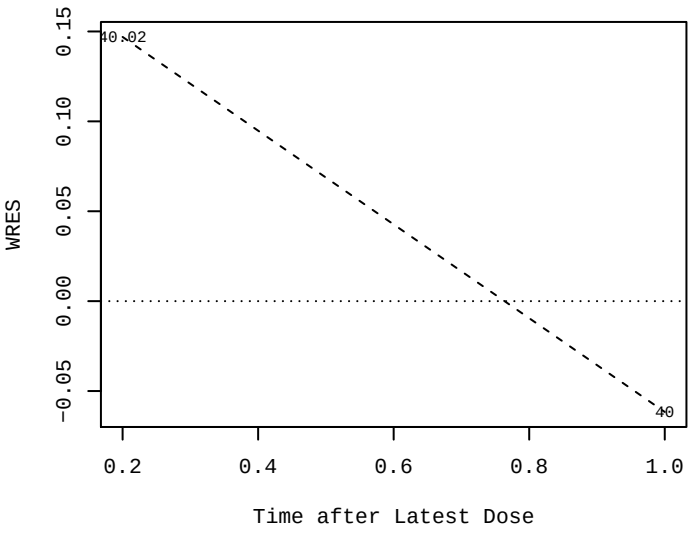


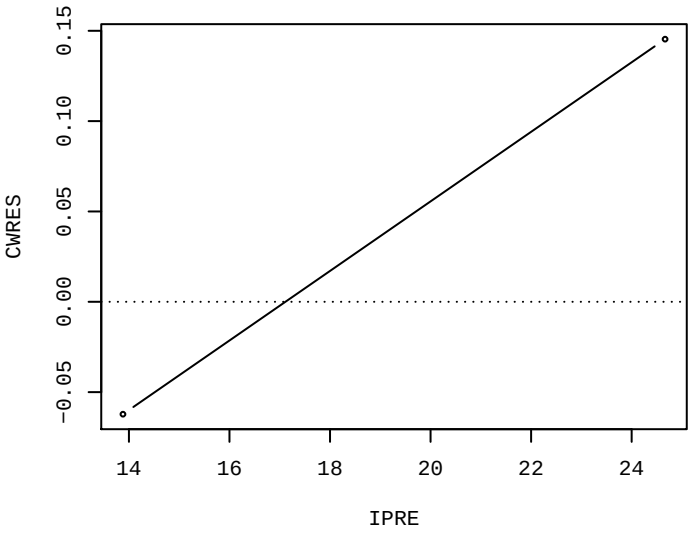
*Fractional number means dosing occasion.

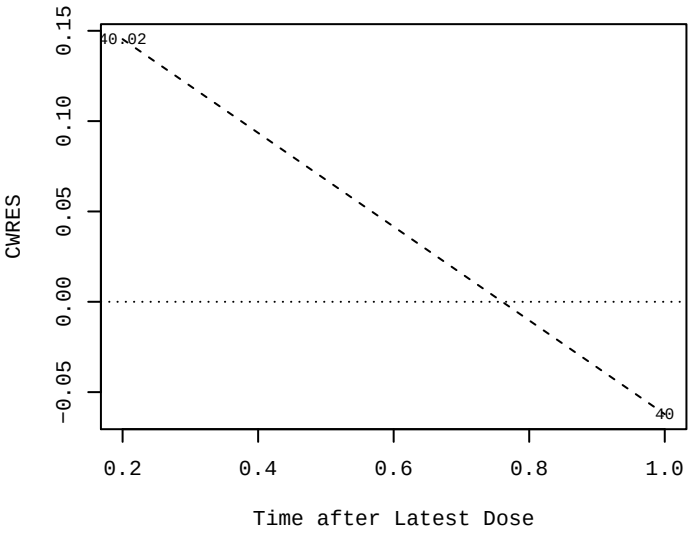
Individiual Residual Curve, ID = 40

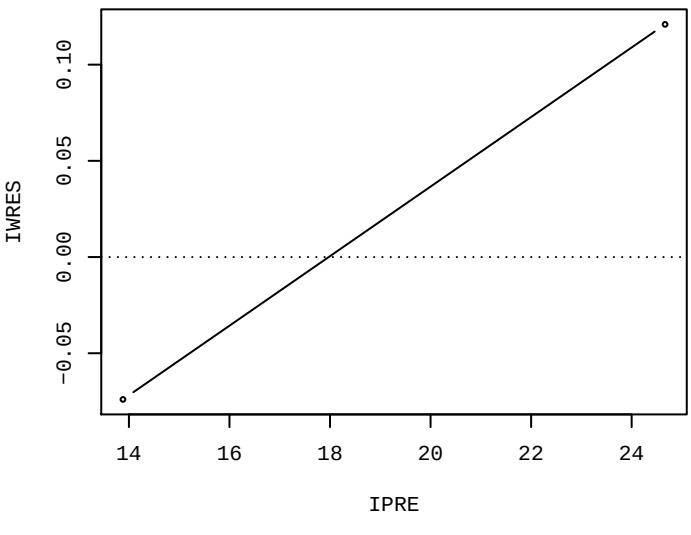
IOFV = 6.76564 , OFV per DV = 3.3828 , Run Test(CWRES) p = 1

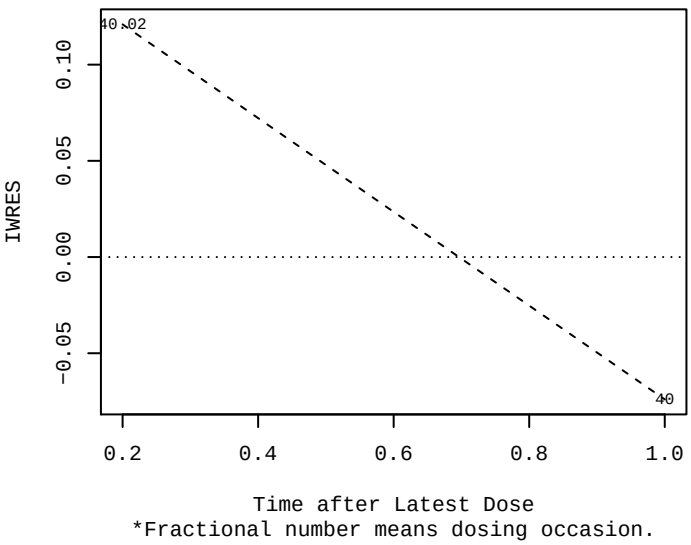








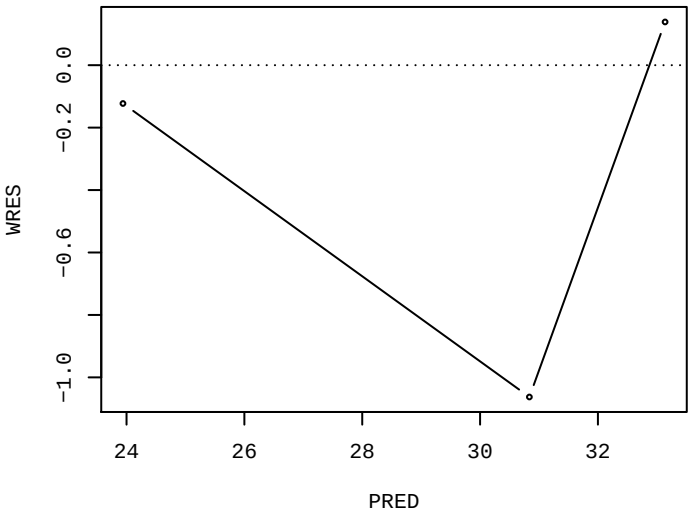


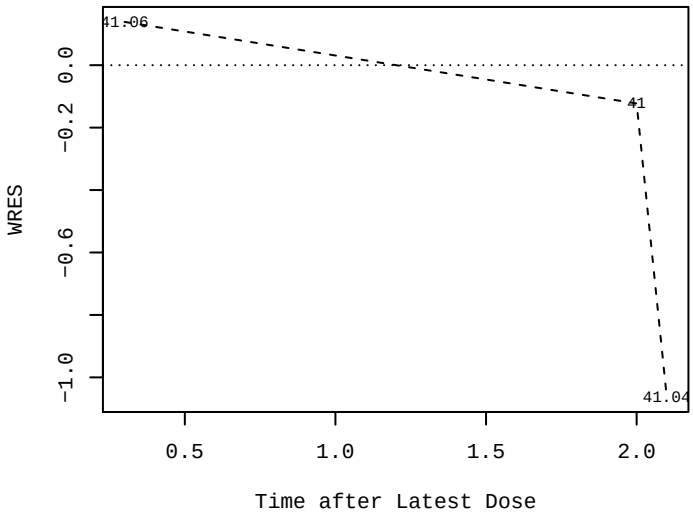


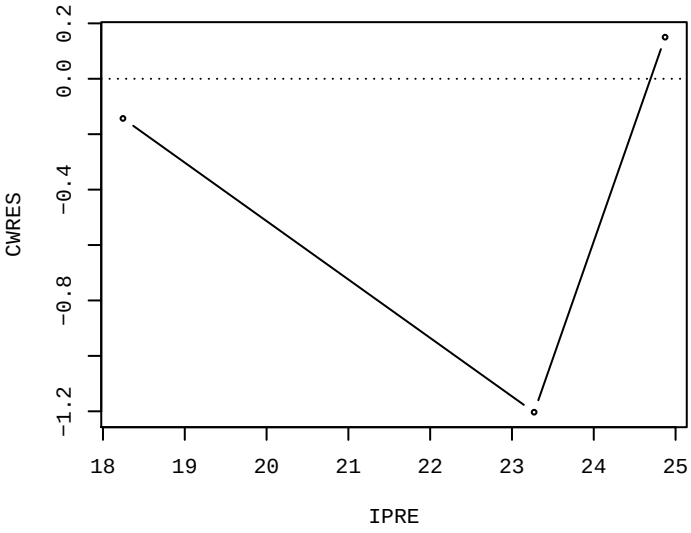
*Fractional number means dosing occasion.

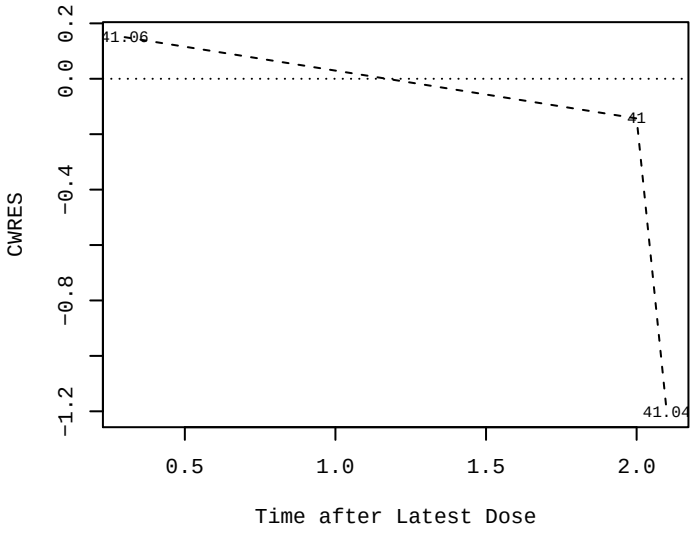
Individiual Residual Curve, ID = 41

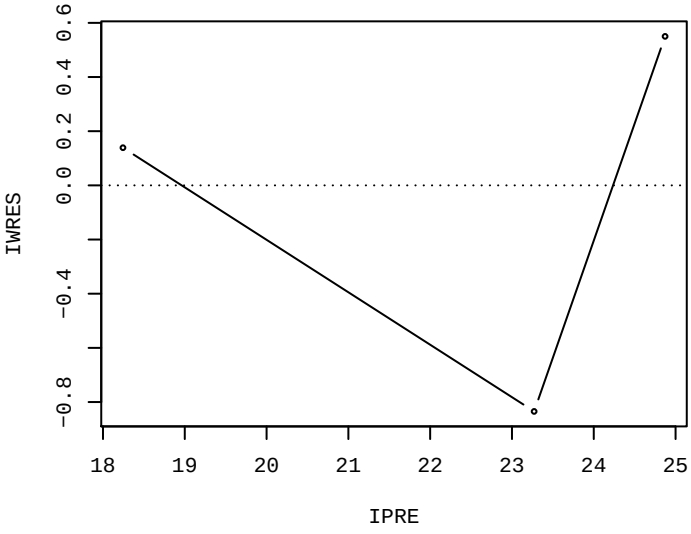
IOFV = 10.987 , OFV per DV = 3.6623 , Run Test(CWRES) p = 1

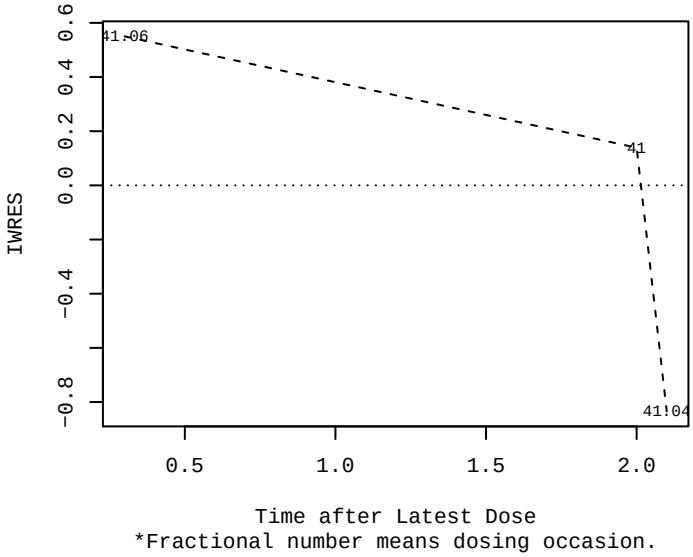








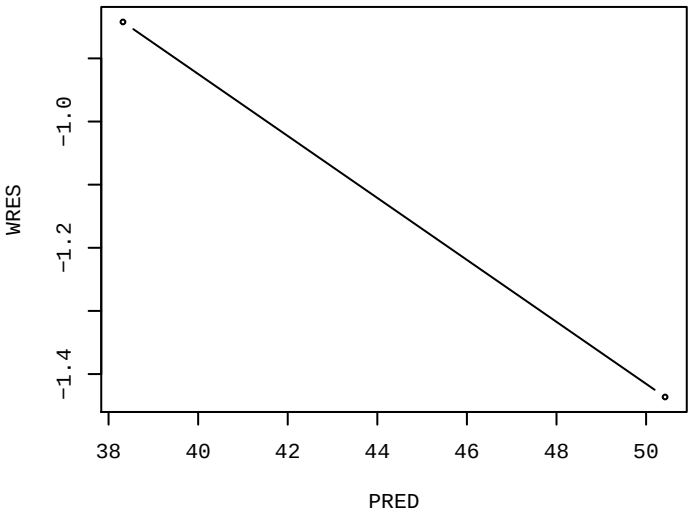


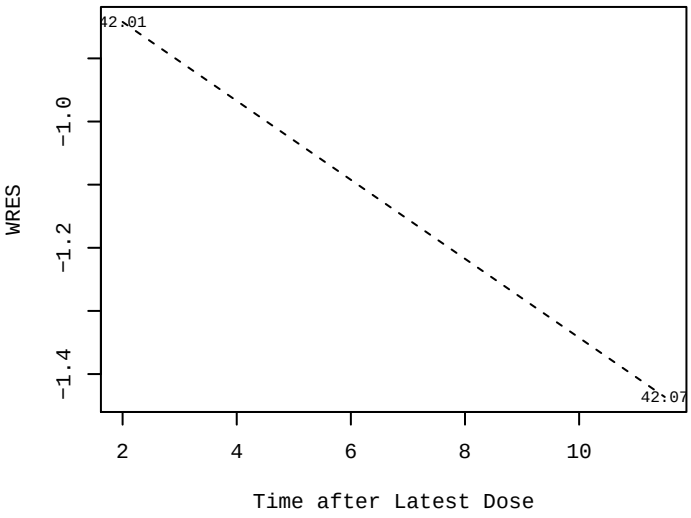


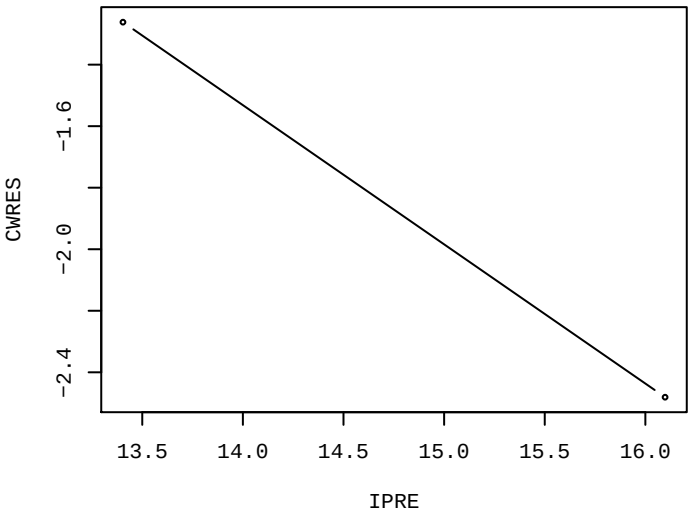
*Fractional number means dosing occasion.

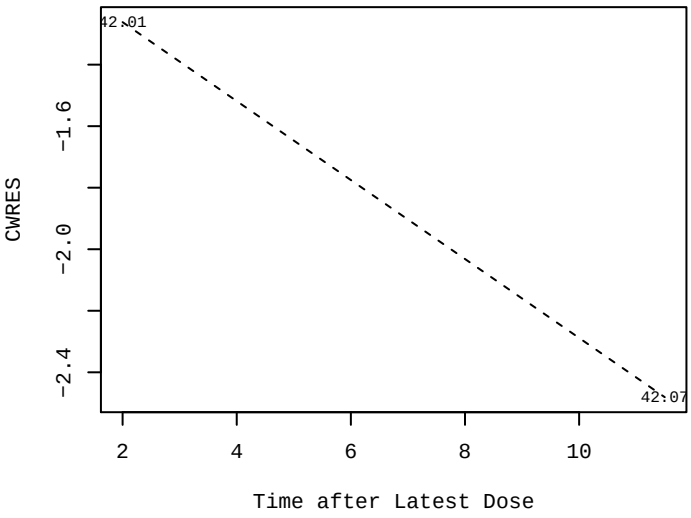
Individiual Residual Curve, ID = 42

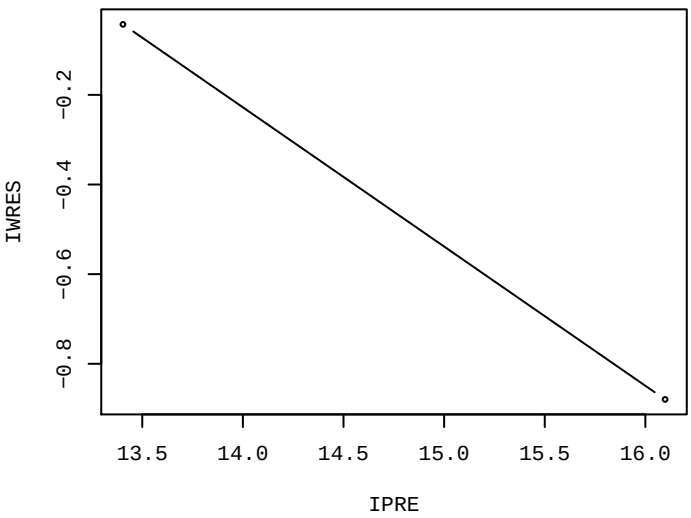
IOFV = 13.9911 , OFV per DV = 6.9956 , Run Test(CWRES) p = 0.5

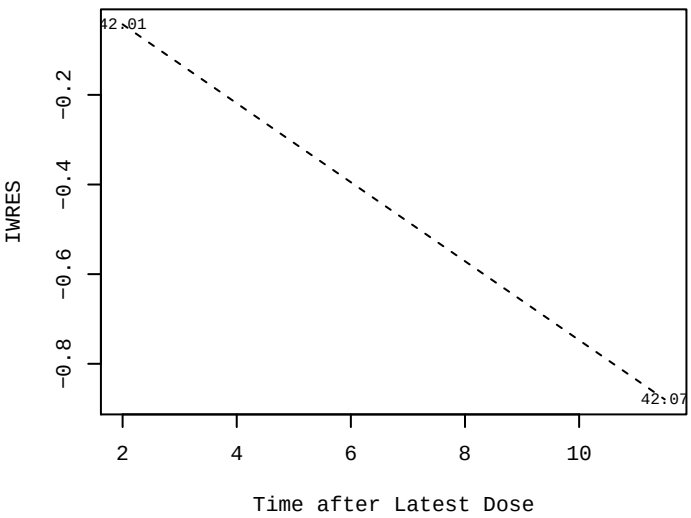








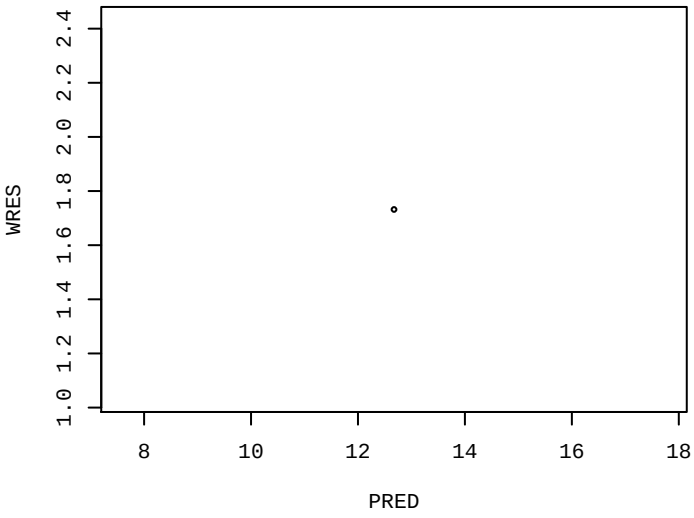


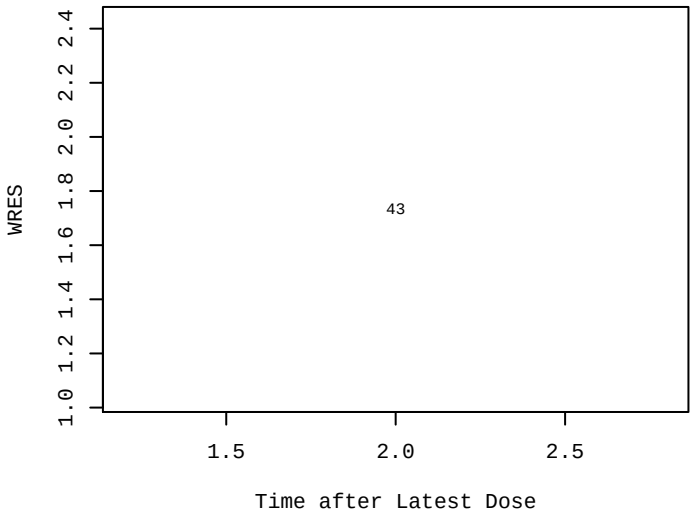


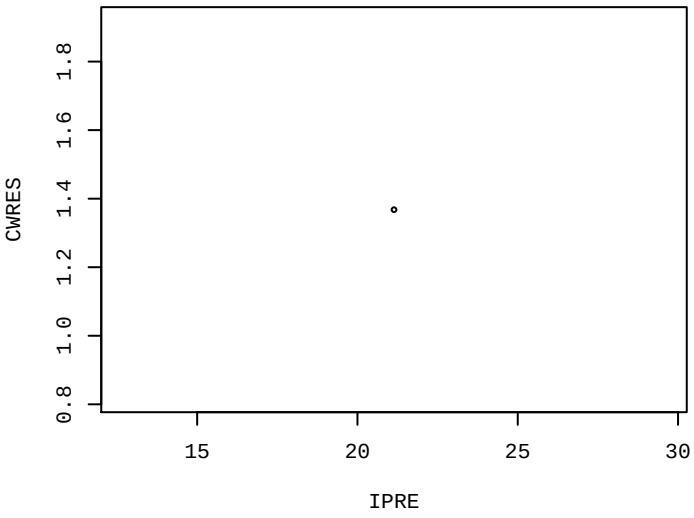
*Fractional number means dosing occasion.

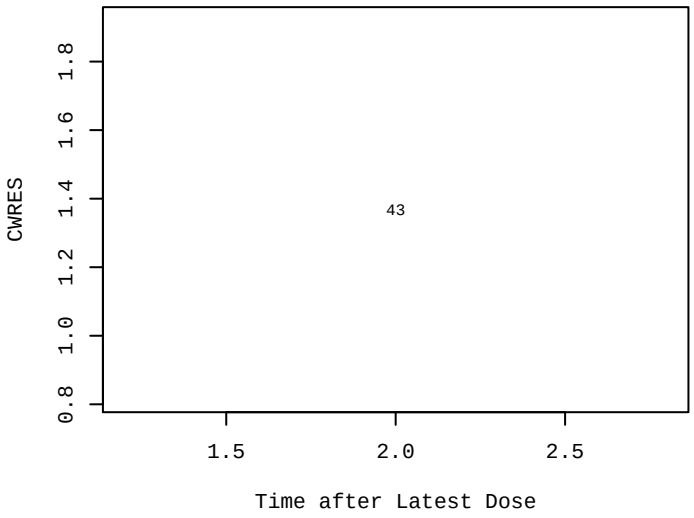
Individiual Residual Curve, ID = 43

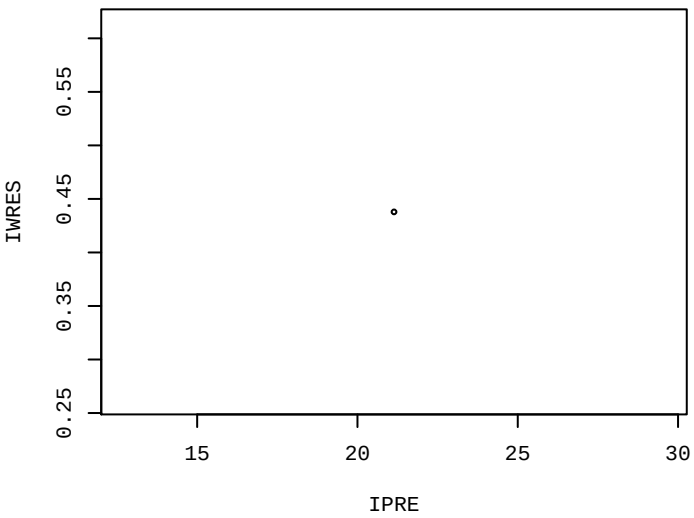
IOFV = 6.21275 , OFV per DV = 6.2128 , Run Test(CWRES) p = 1

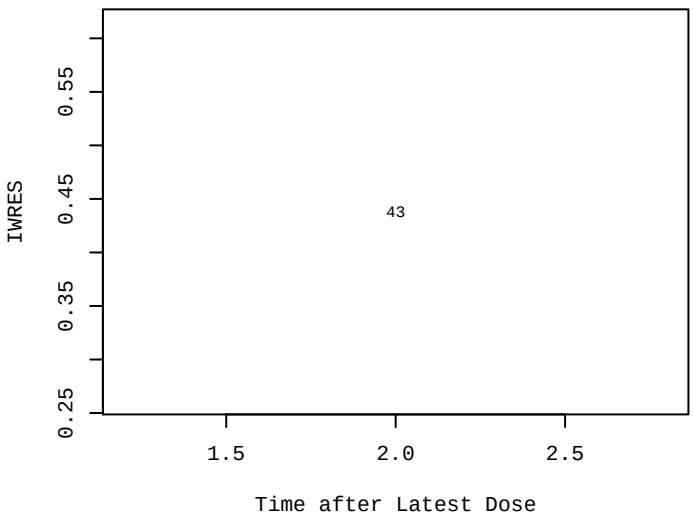








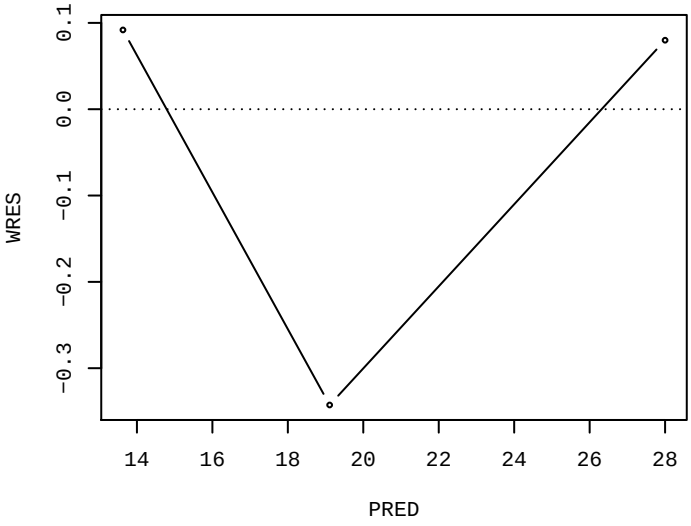


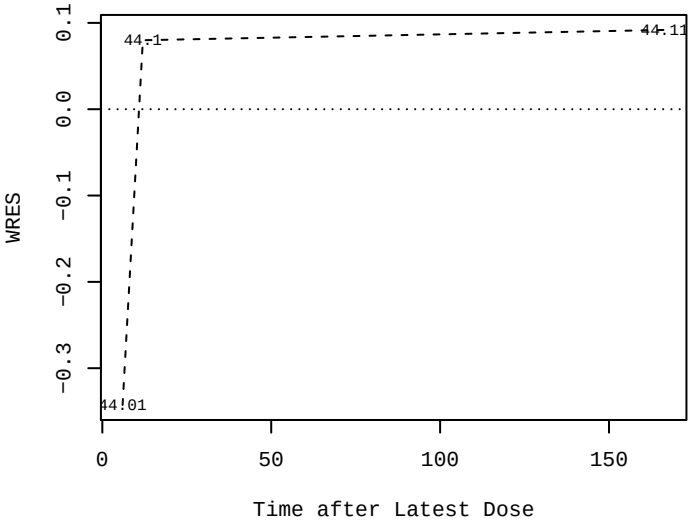


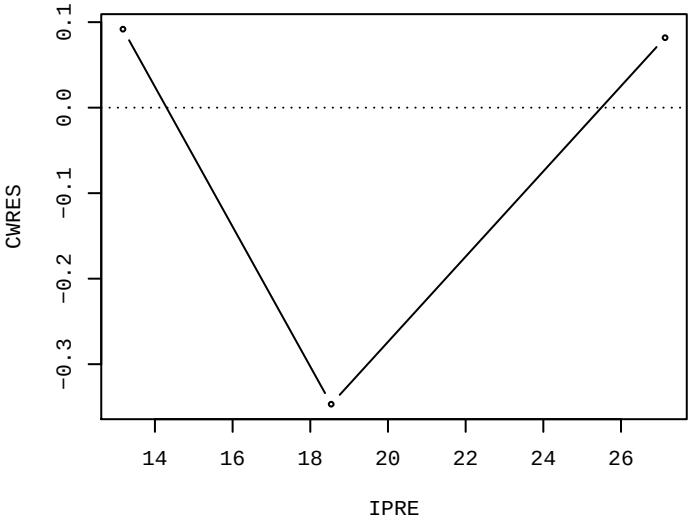
*Fractional number means dosing occasion.

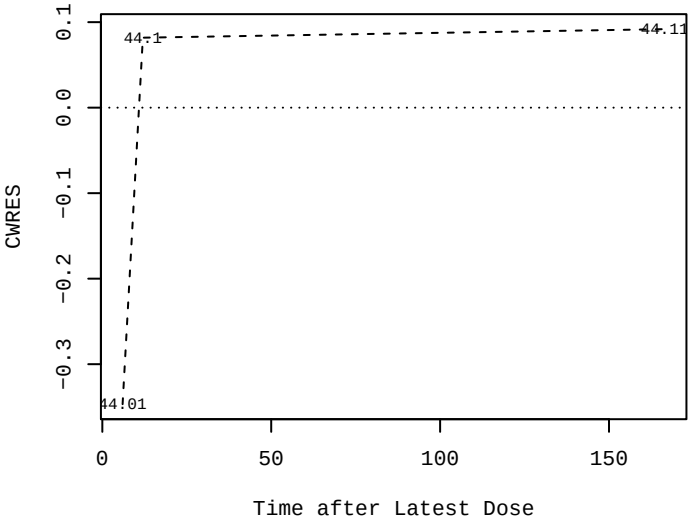
Individiual Residual Curve, ID = 44

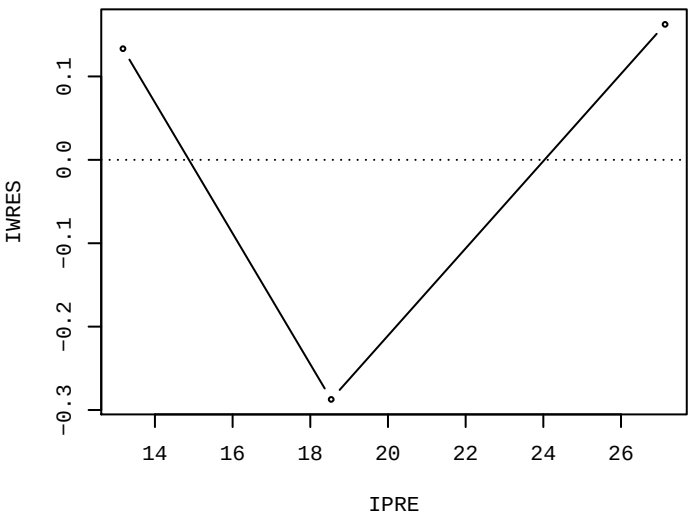
IOFV = 9.52542 , OFV per DV = 3.1751 , Run Test(CWRES) p = 1

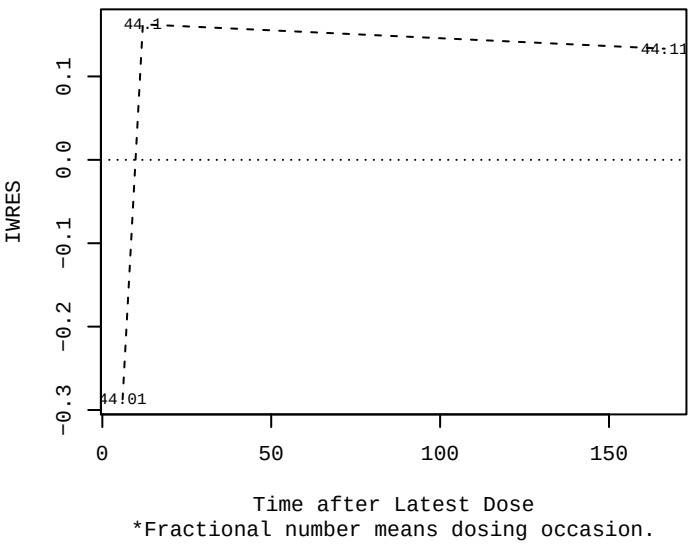








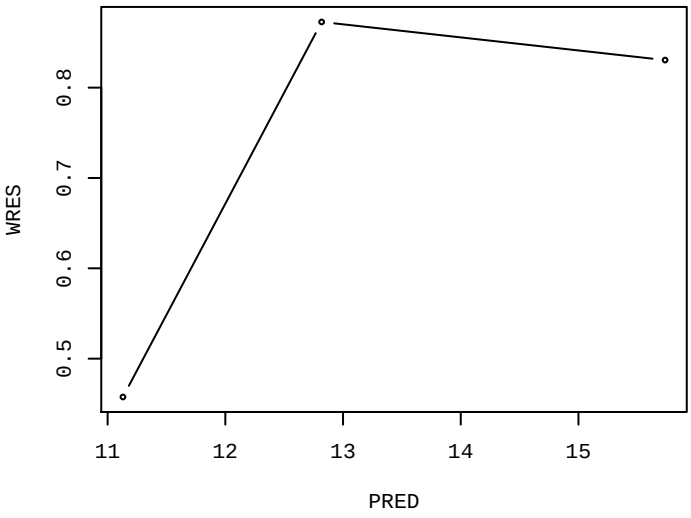


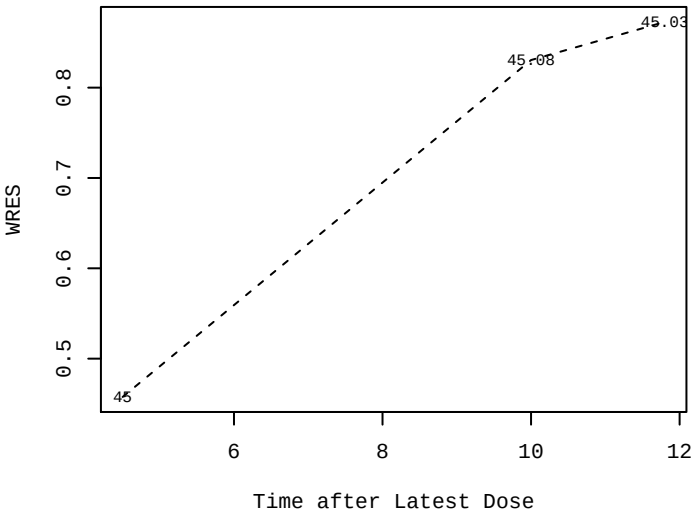


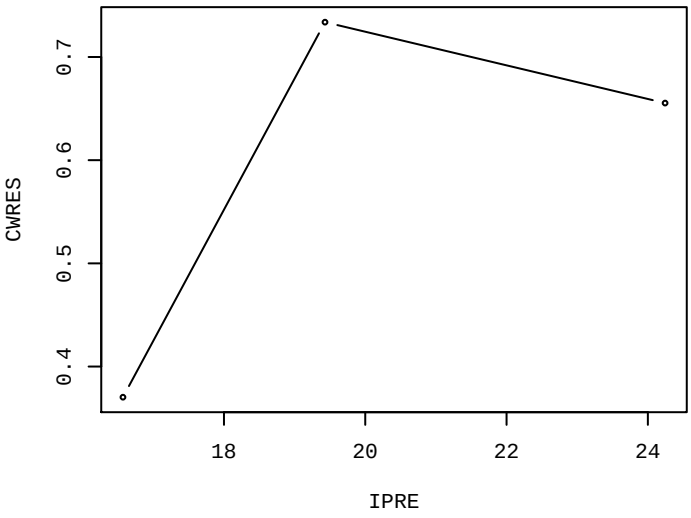
*Fractional number means dosing occasion.

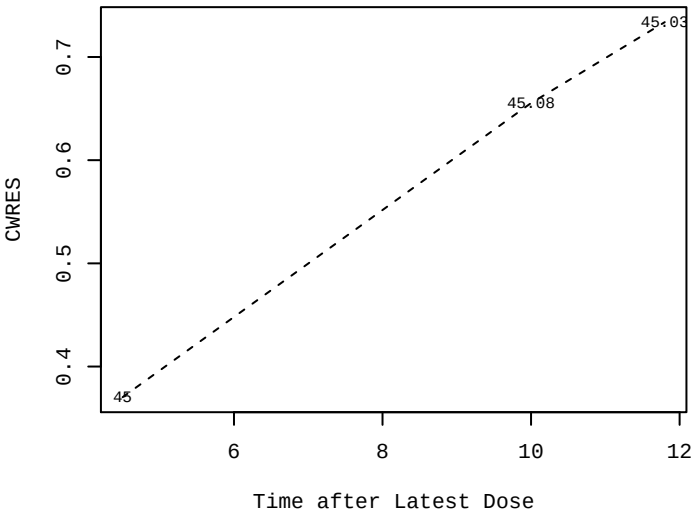
Individiual Residual Curve, ID = 45

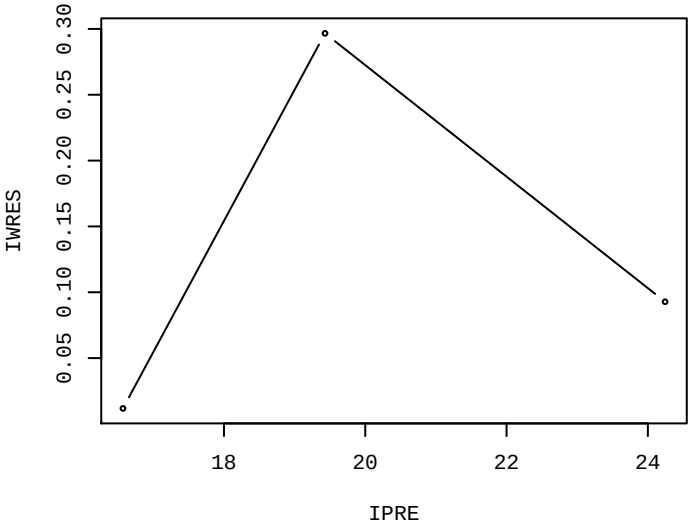
IOFV = 10.3479 , OFV per DV = 3.4493 , Run Test(CWRES) p = 0.25

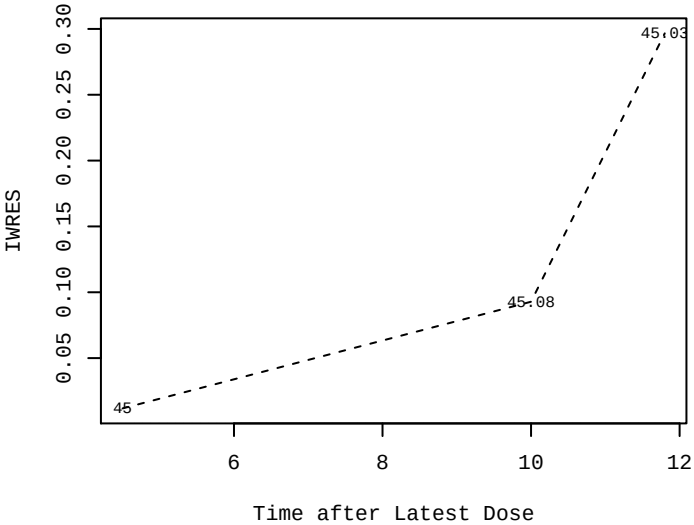








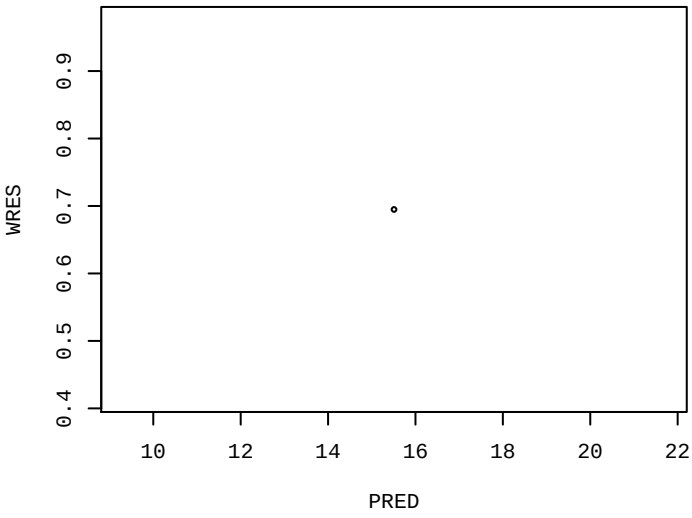


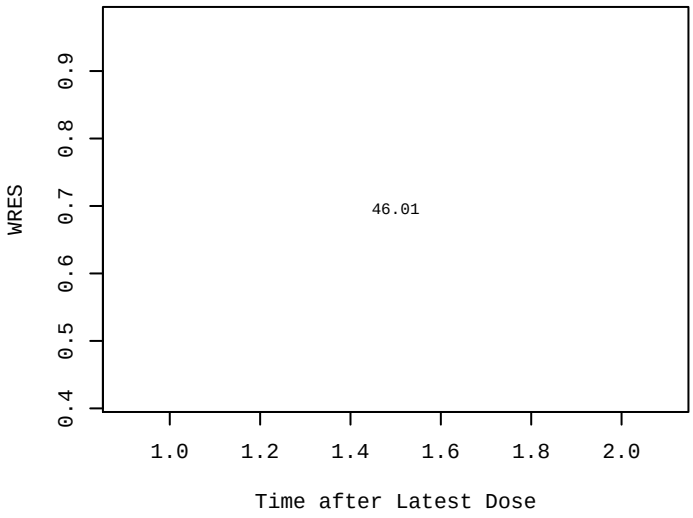


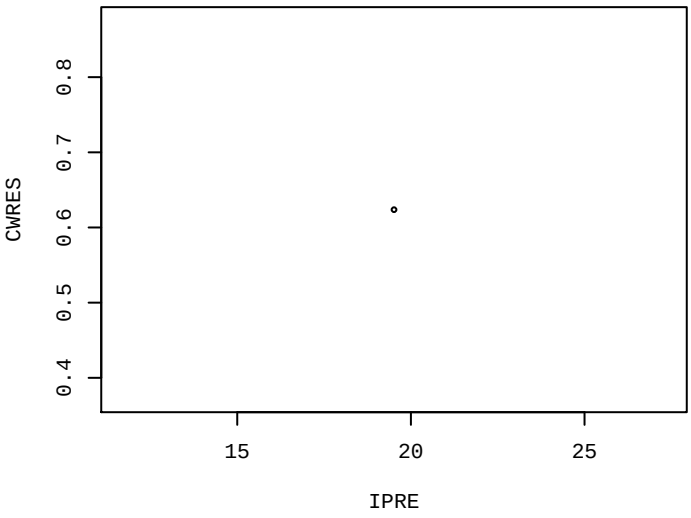
*Fractional number means dosing occasion.

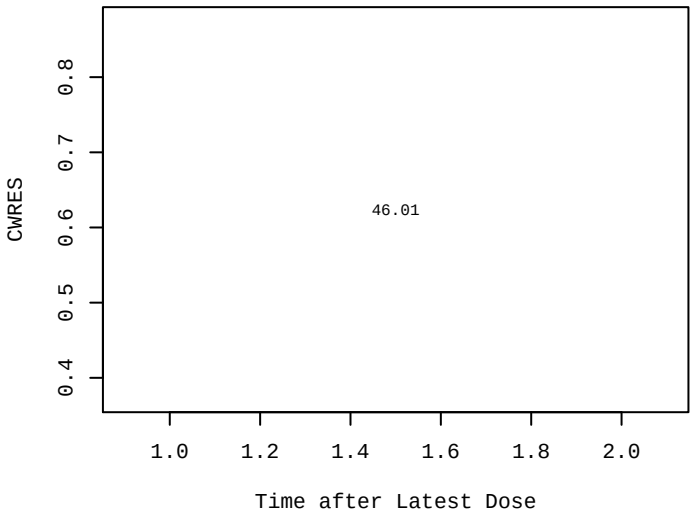
Individiual Residual Curve, ID = 46

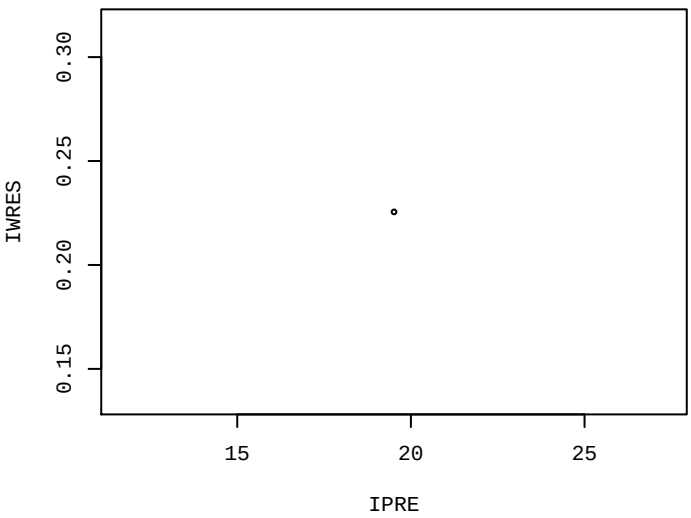
IOFV = 4.58181 , OFV per DV = 4.5818 , Run Test(CWRES) p = 1

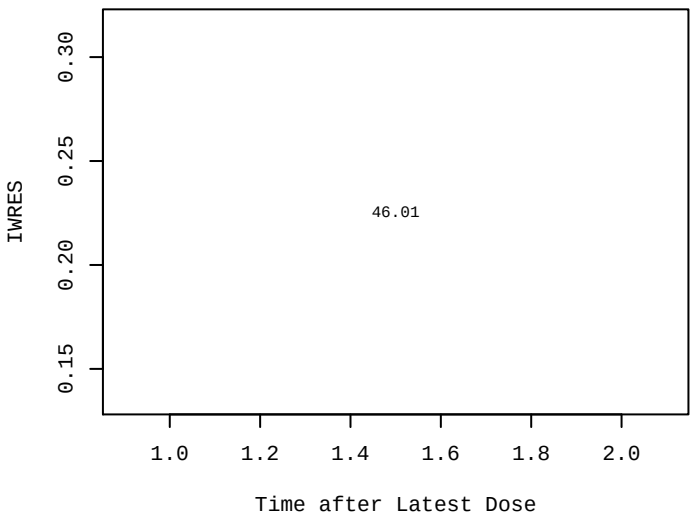








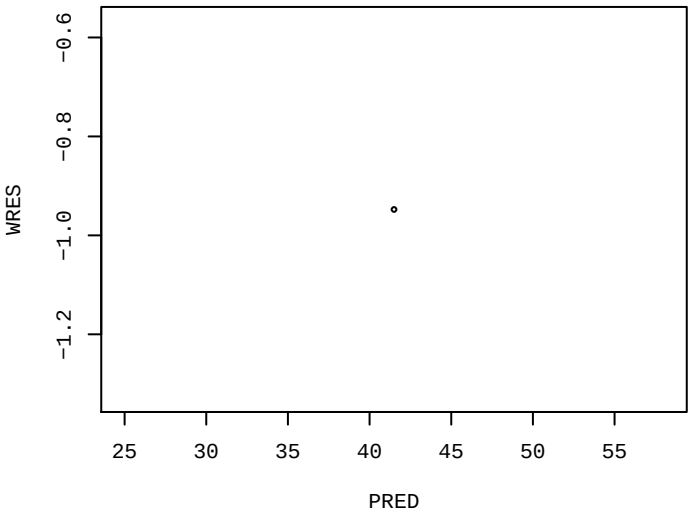


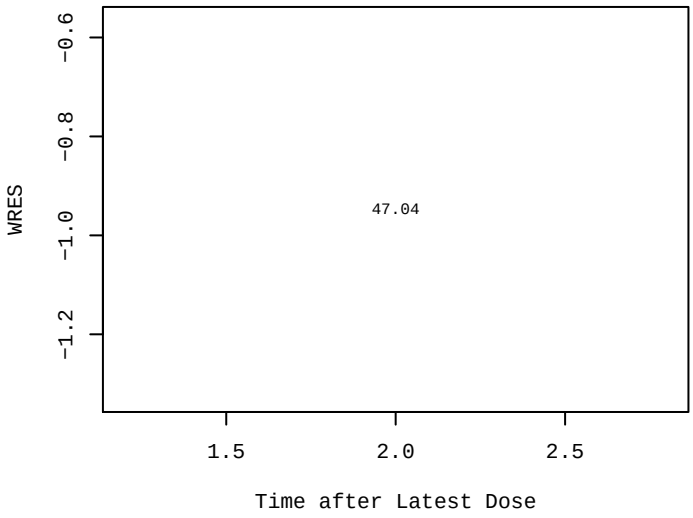


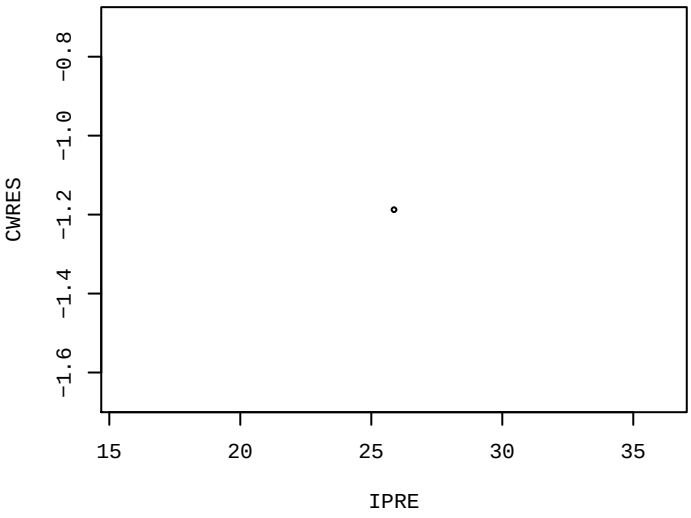
*Fractional number means dosing occasion.

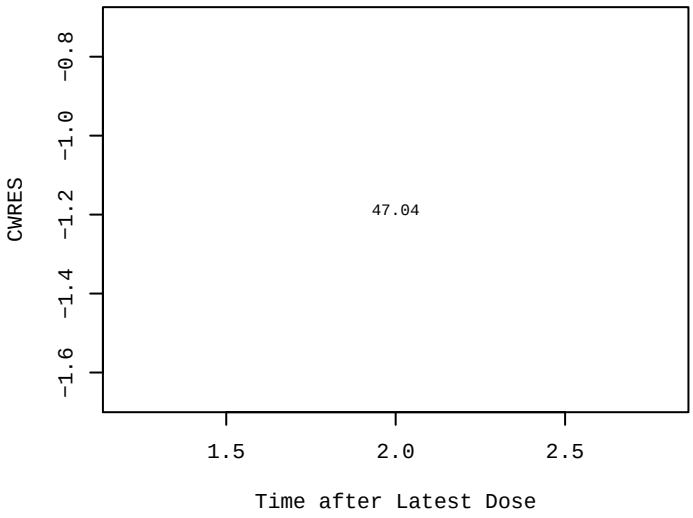
Individiual Residual Curve, ID = 47

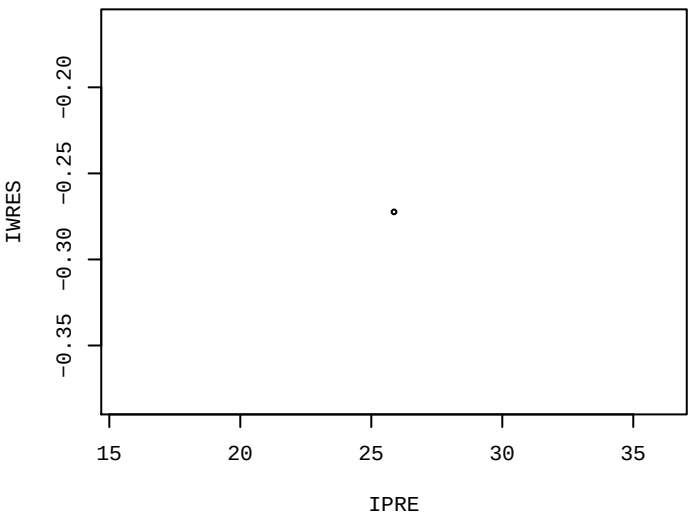
IOFV = 6.20312 , OFV per DV = 6.2031 , Run Test(CWRES) p = 1

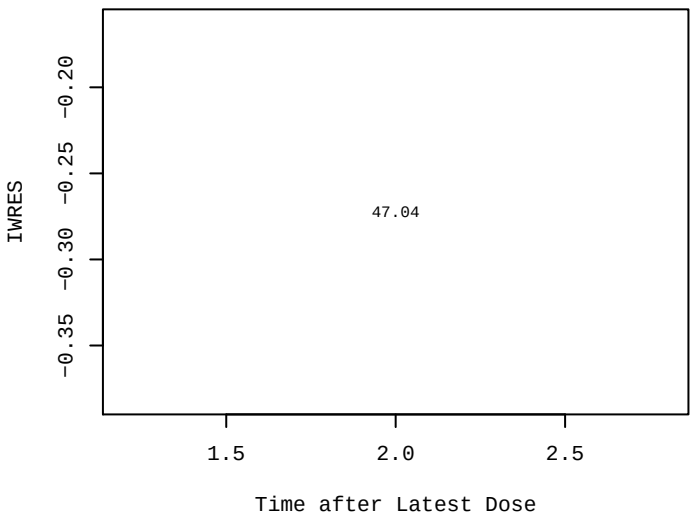








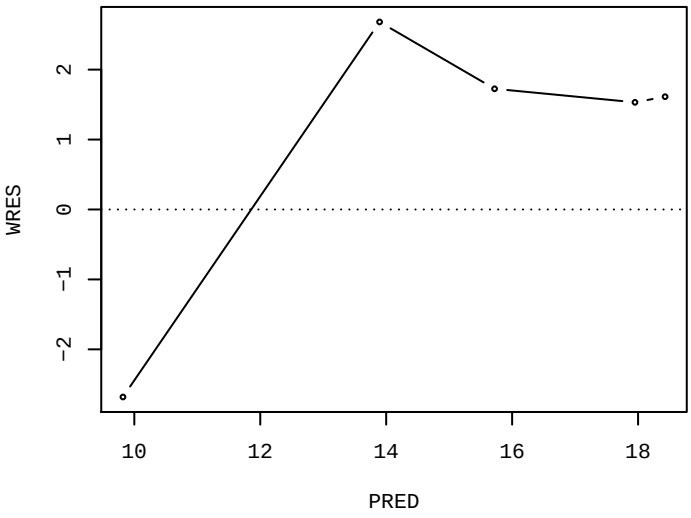


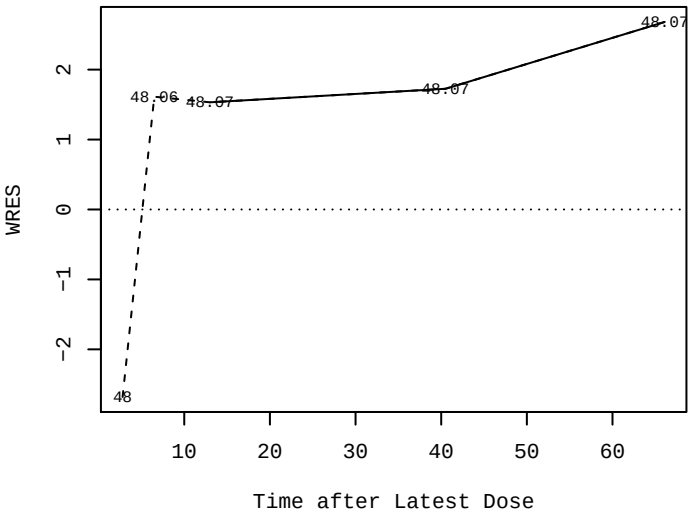


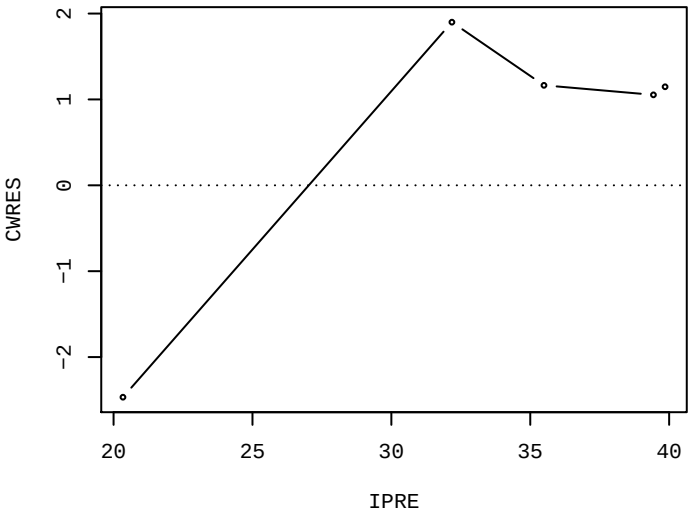
*Fractional number means dosing occasion.

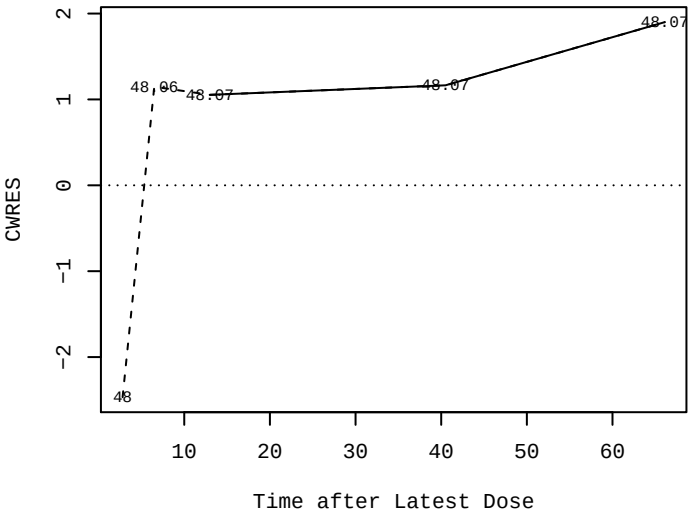
Individiual Residual Curve, ID = 48

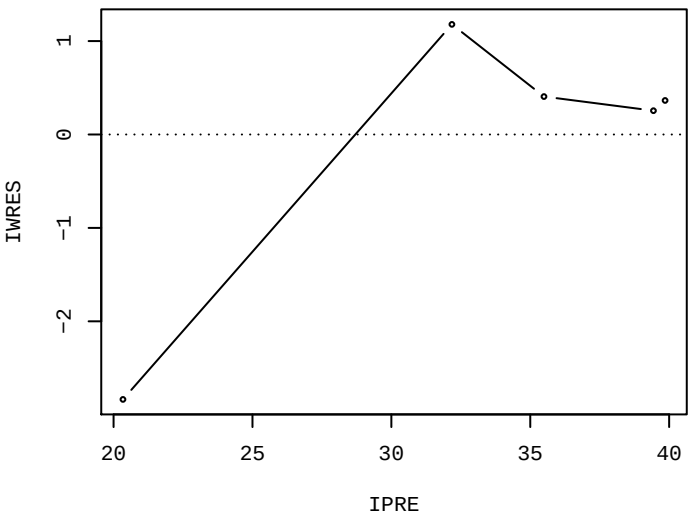
IOFV = 29.551 , OFV per DV = 5.9102 , Run Test(CWRES) p = 0.4

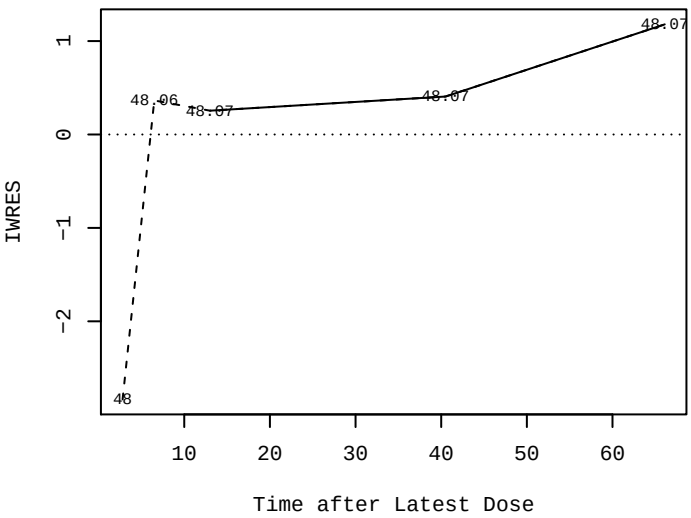








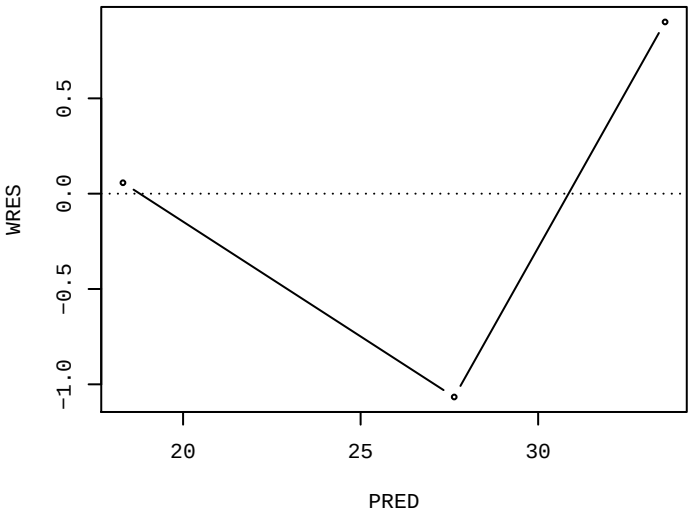


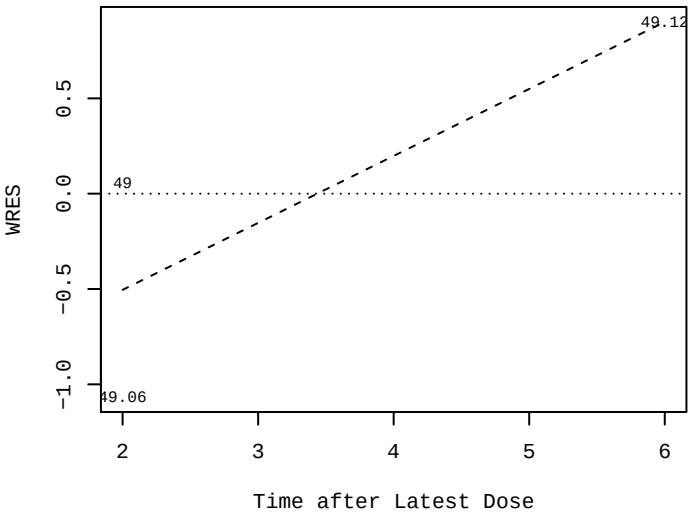


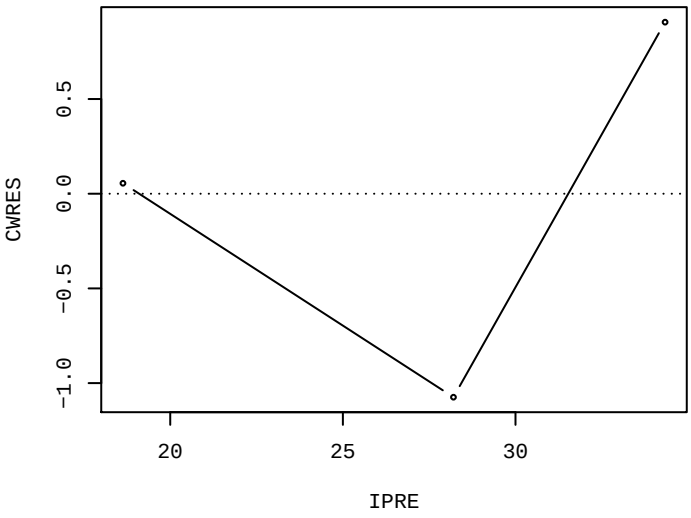
*Fractional number means dosing occasion.

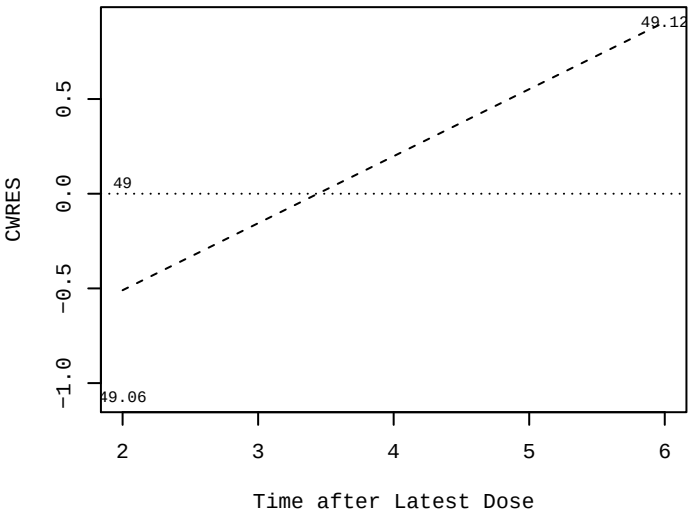
Individiual Residual Curve, ID = 49

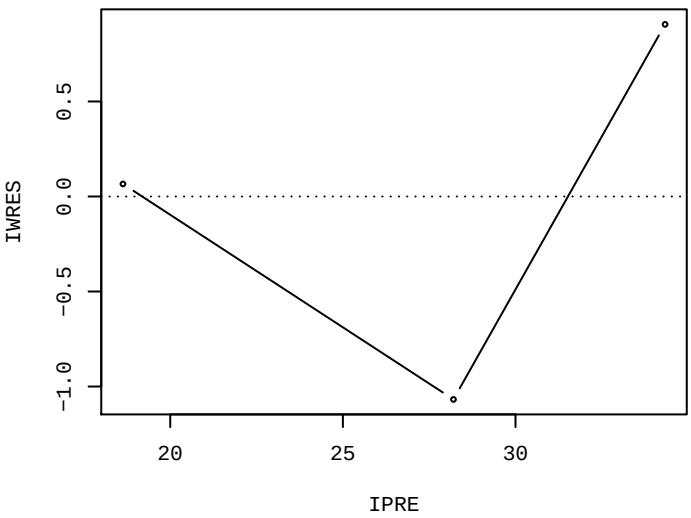
IOFV = 12.2096 , OFV per DV = 4.0699 , Run Test(CWRES) p = 0.333

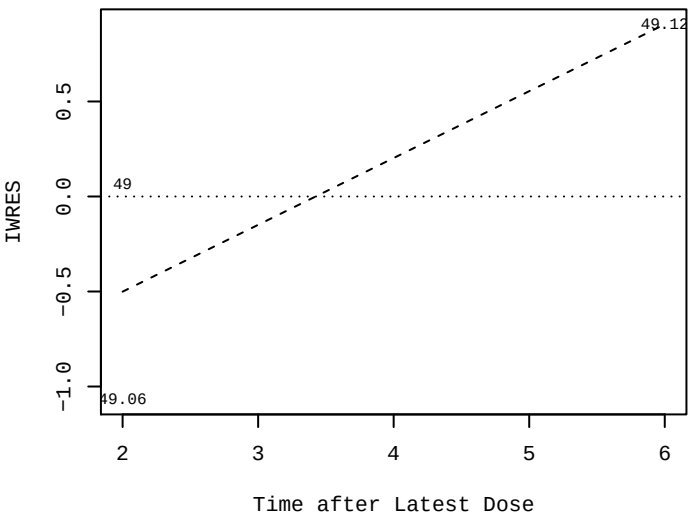






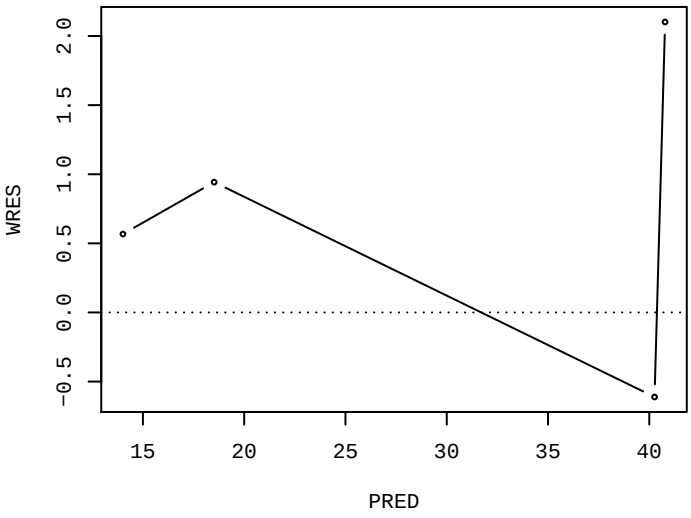


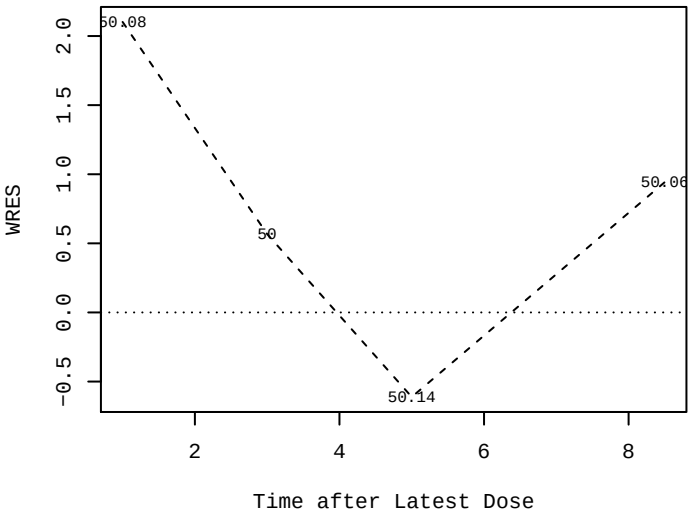


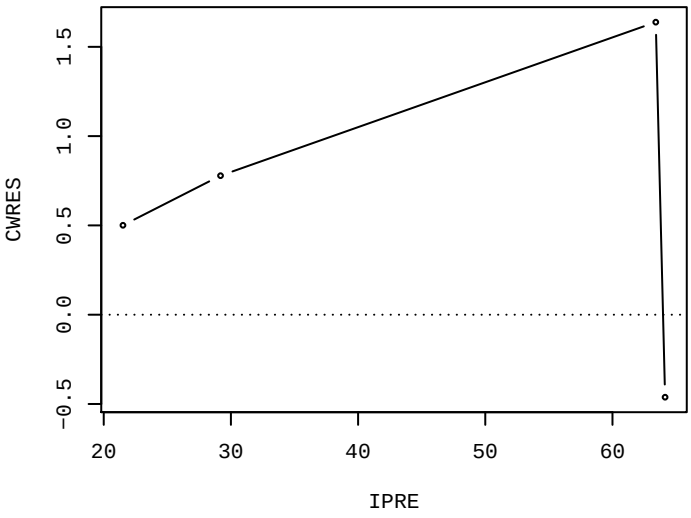


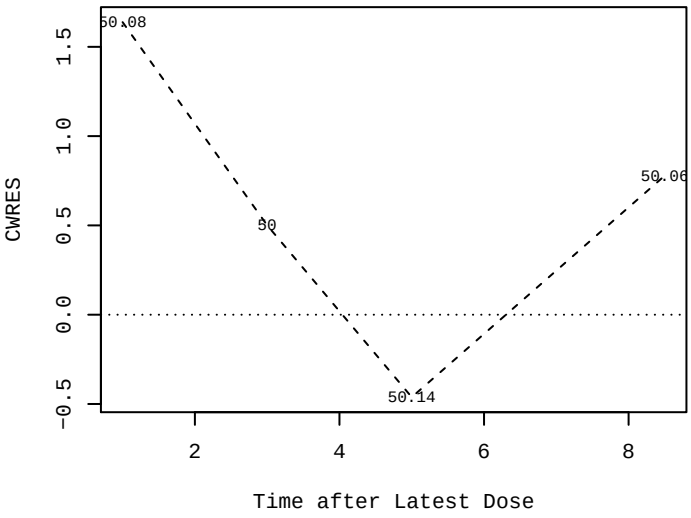
Individiual Residual Curve, ID = 50

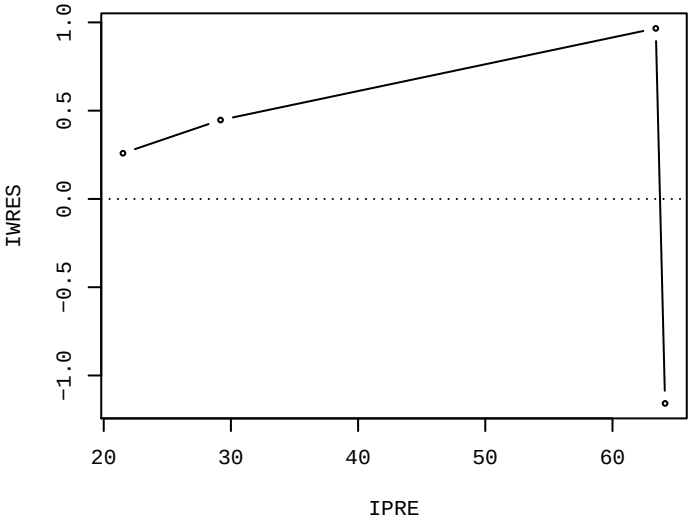
IOFV = 18.6268 , OFV per DV = 4.6567 , Run Test(CWRES) p = 0.5

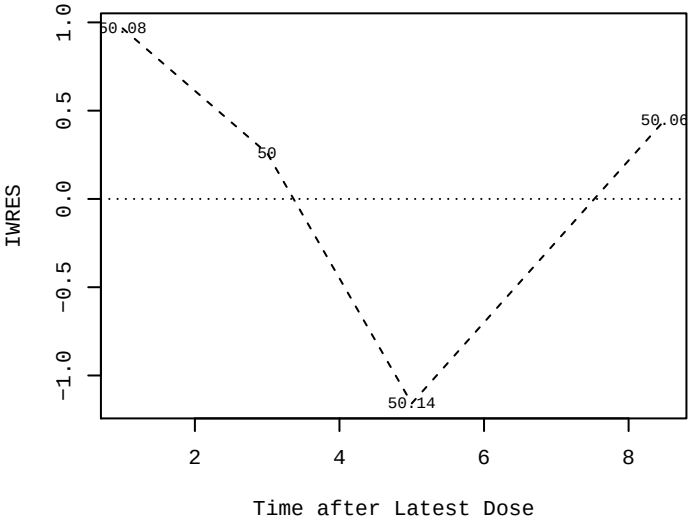






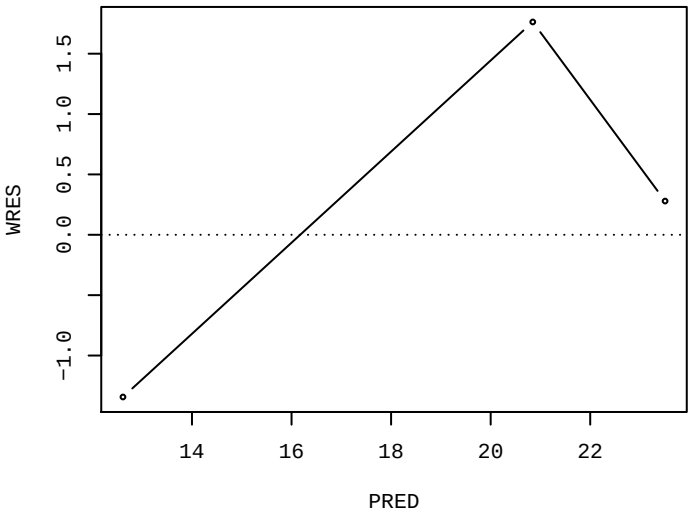


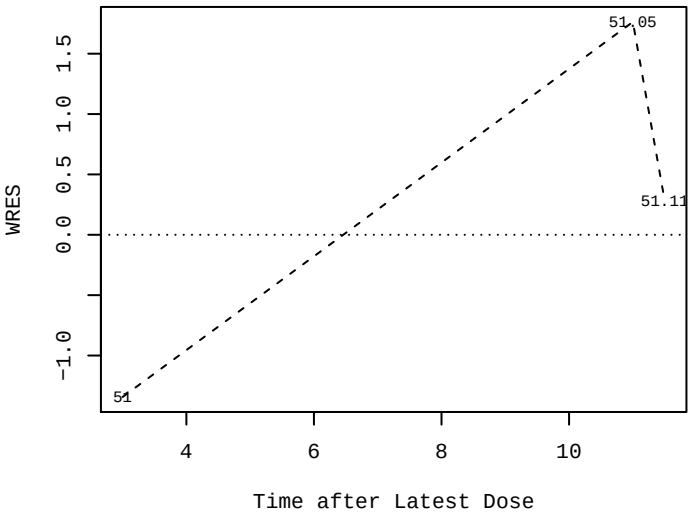


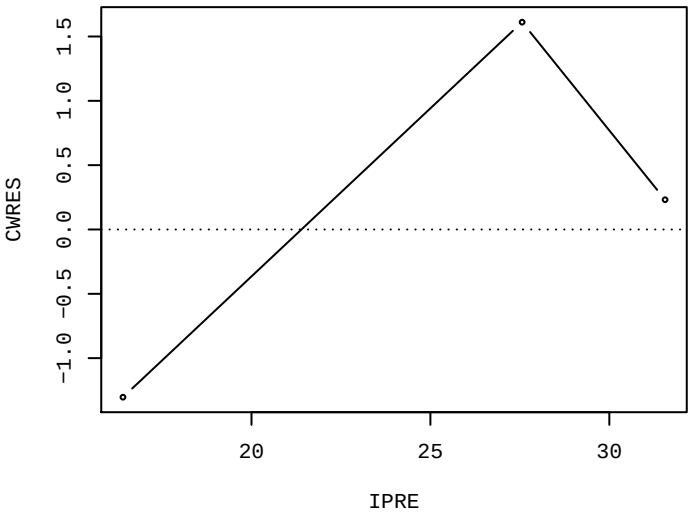


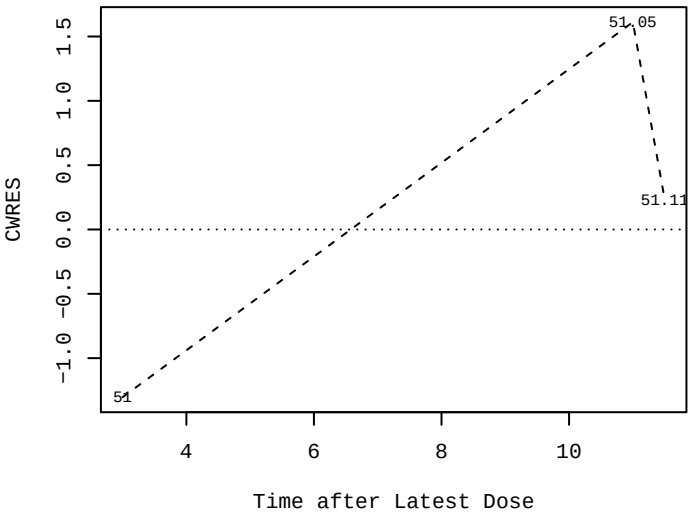
Individiual Residual Curve, ID = 51

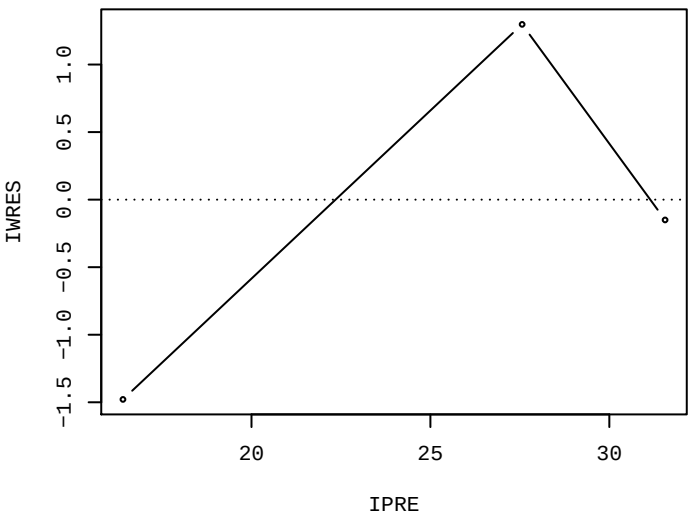
IOFV = 14.3393 , OFV per DV = 4.7798 , Run Test(CWRES) p = 1

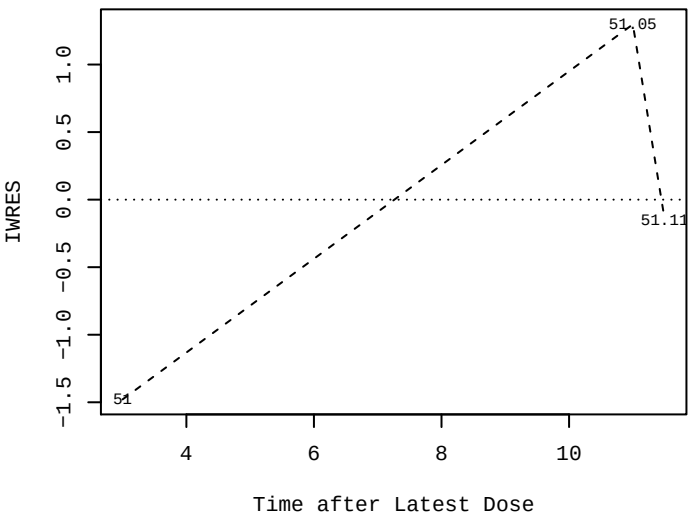








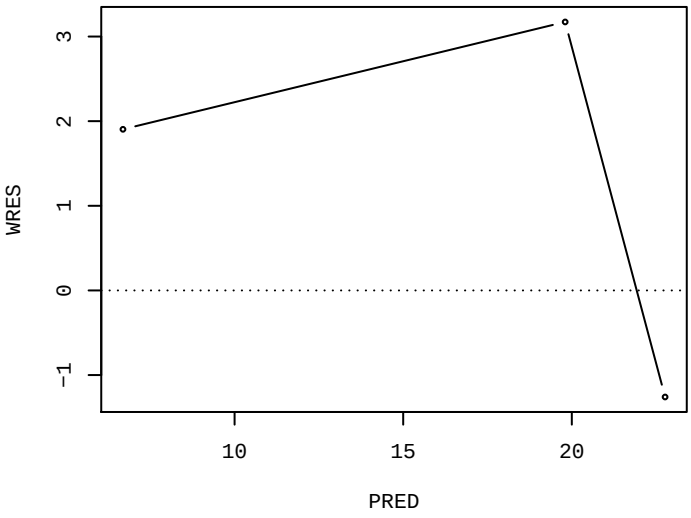


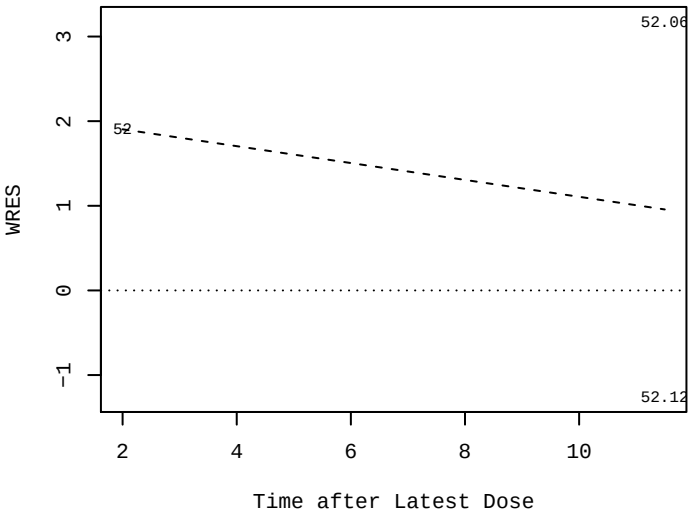


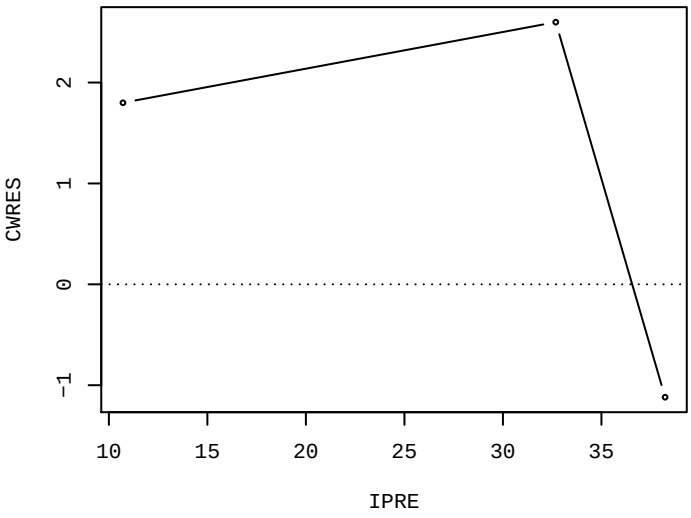
*Fractional number means dosing occasion.

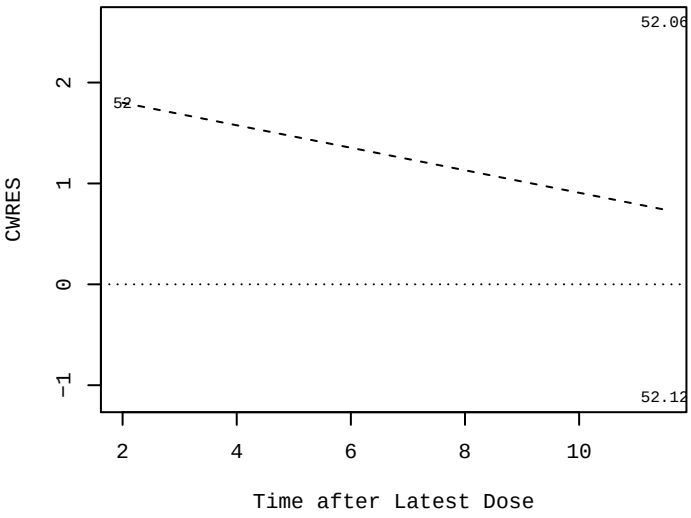
Individiual Residual Curve, ID = 52

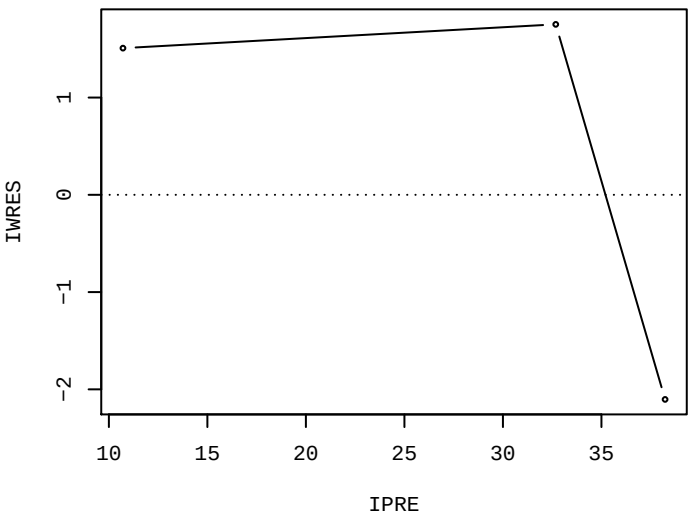
IOFV = 21.5992 , OFV per DV = 7.1997 , Run Test(CWRES) p = 1

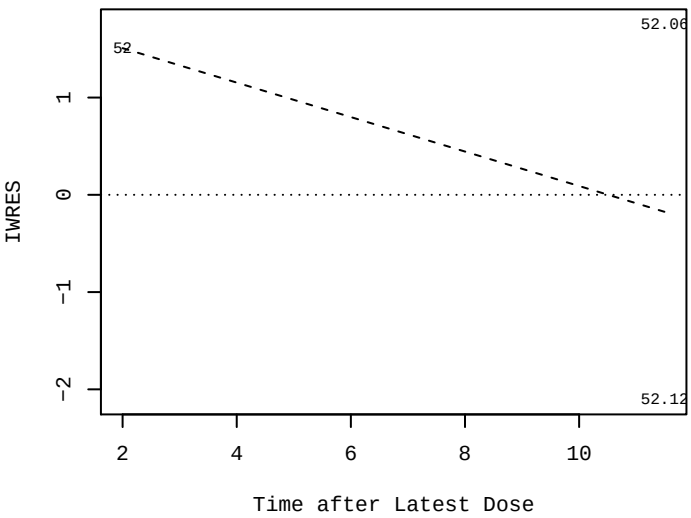








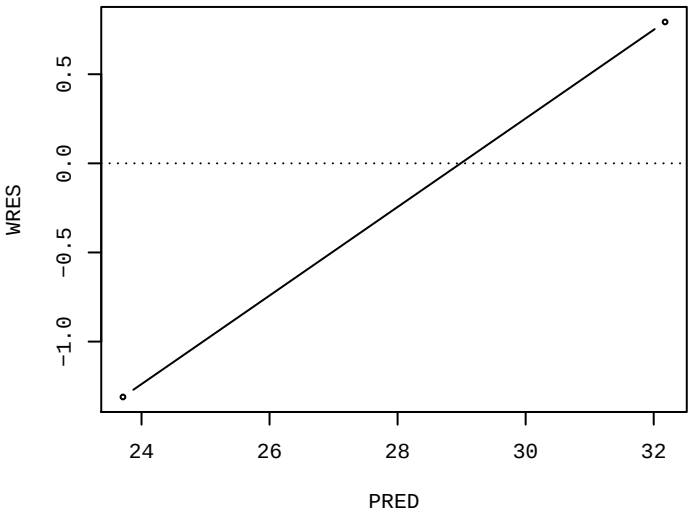


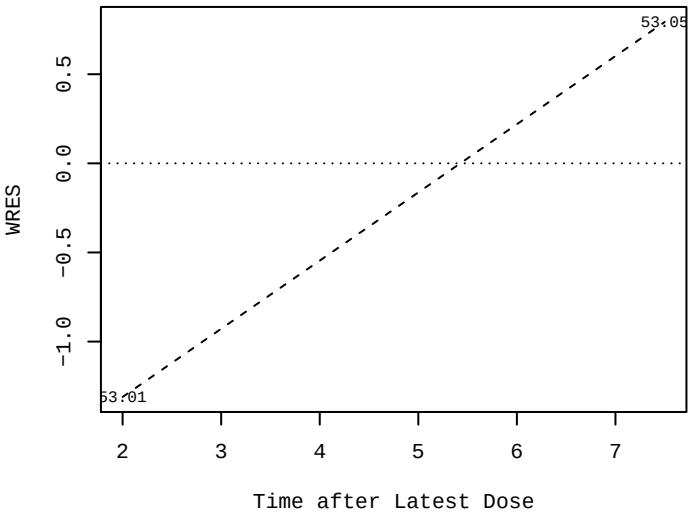


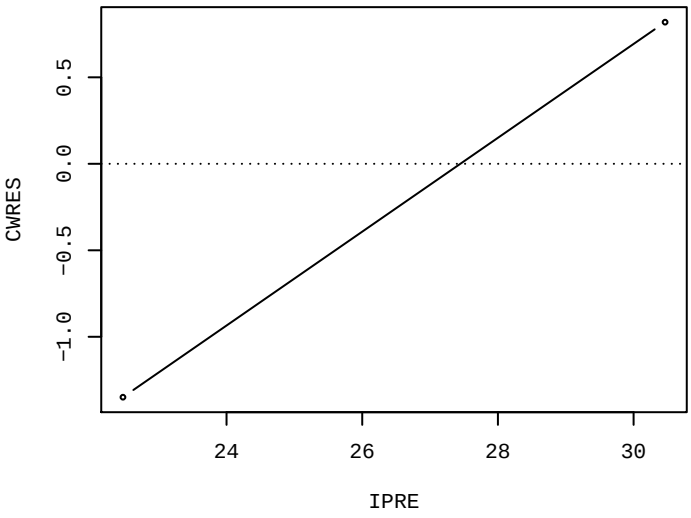
*Fractional number means dosing occasion.

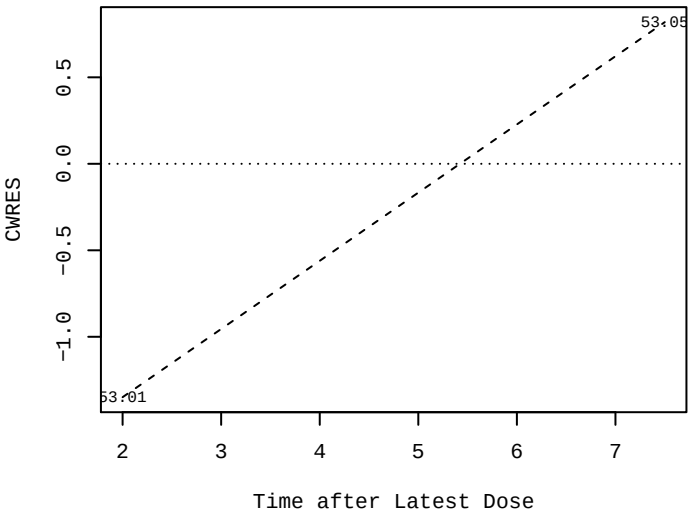
Individiual Residual Curve, ID = 53

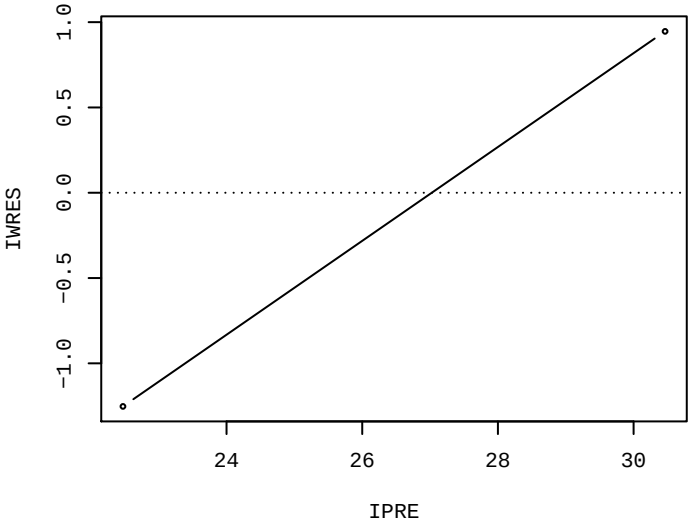
IOFV = 10.0556 , OFV per DV = 5.0278 , Run Test(CWRES) p = 1

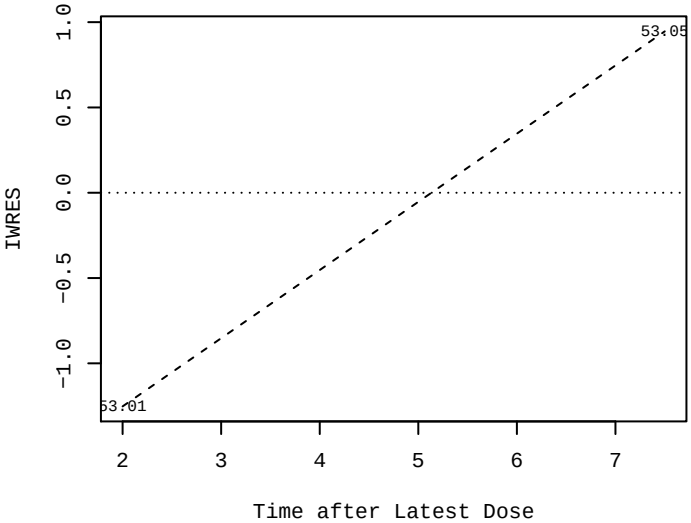








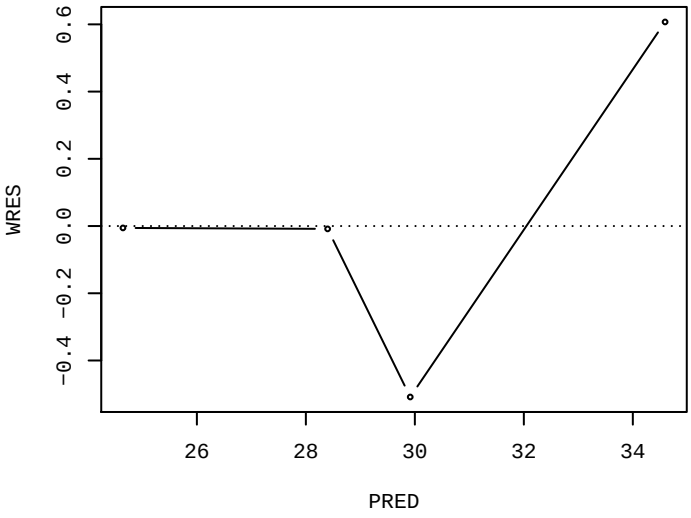


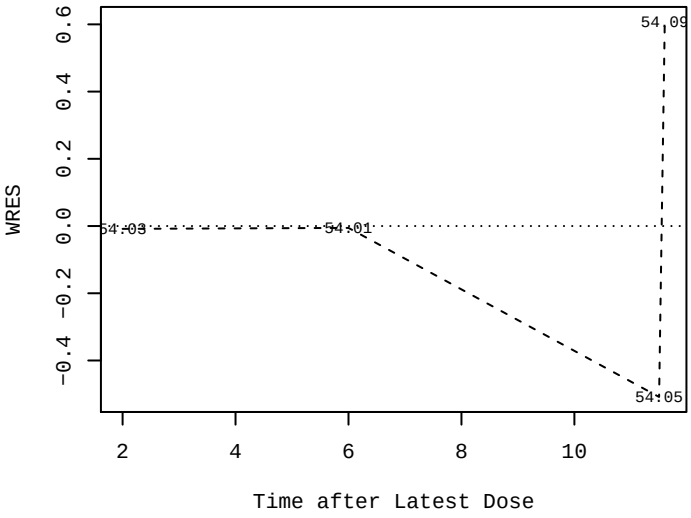


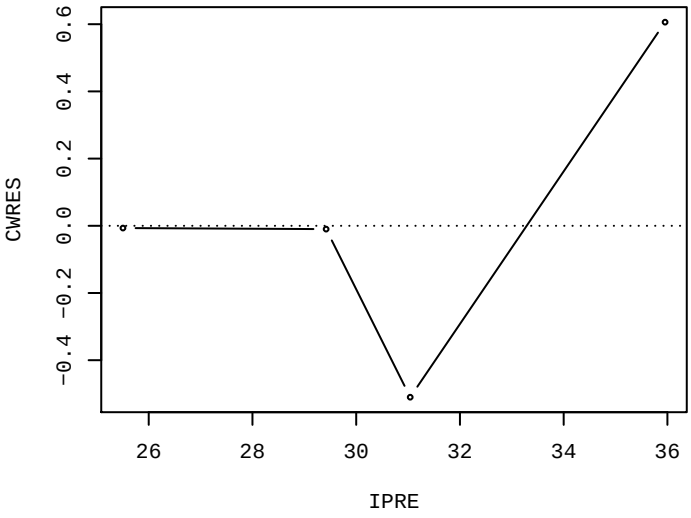
*Fractional number means dosing occasion.

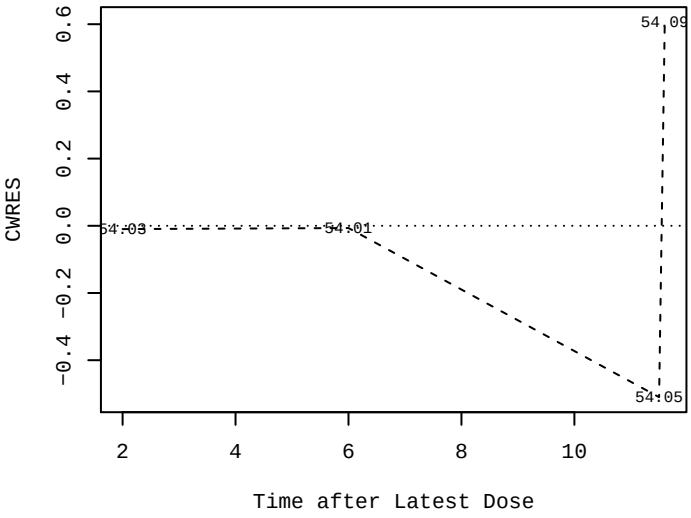
Individiual Residual Curve, ID = 54

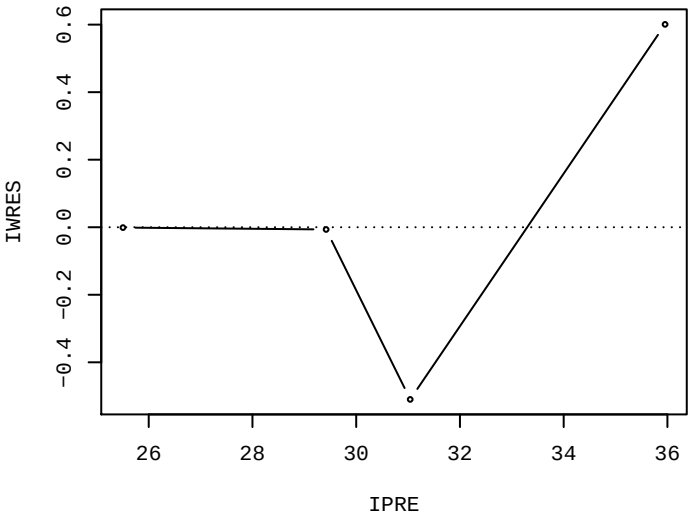
IOFV = 13.7268 , OFV per DV = 3.4317 , Run Test(CWRES) p = 0.5

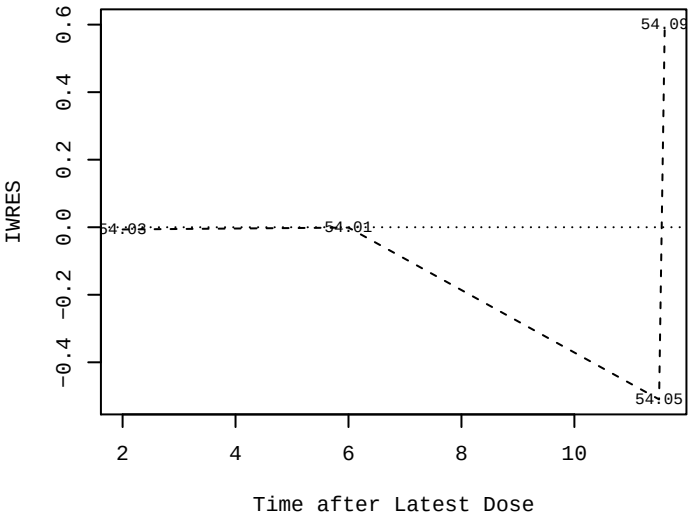








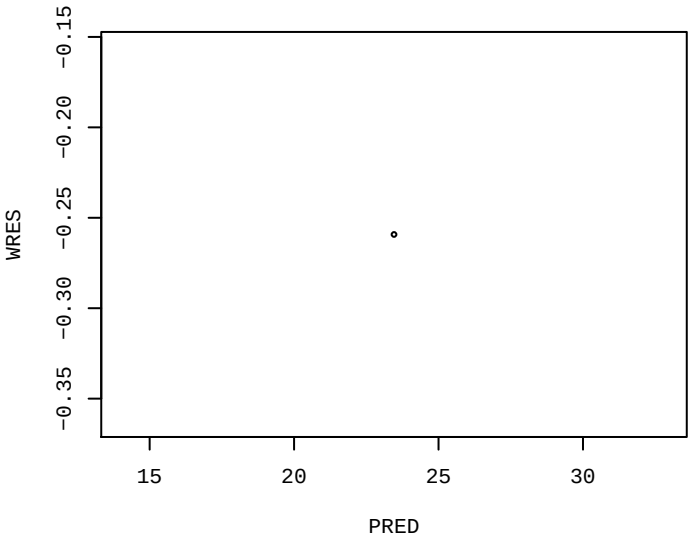


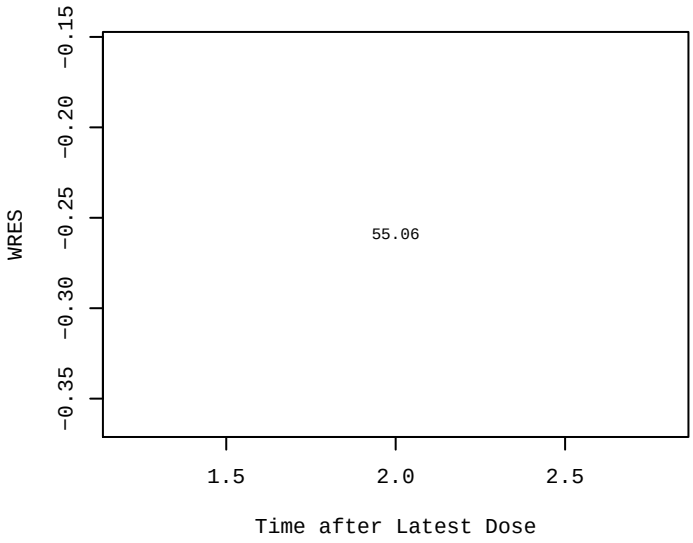


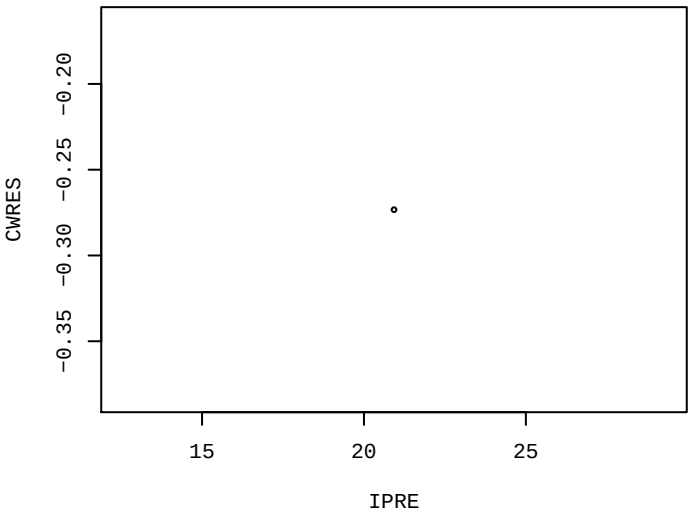
*Fractional number means dosing occasion.

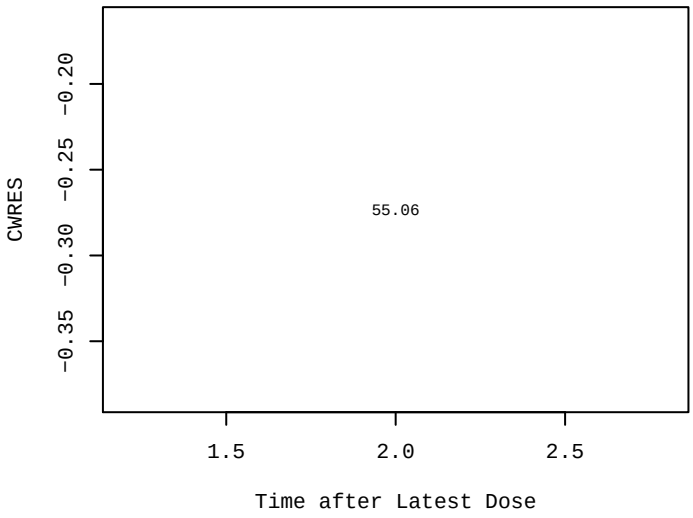
Individiual Residual Curve, ID = 55

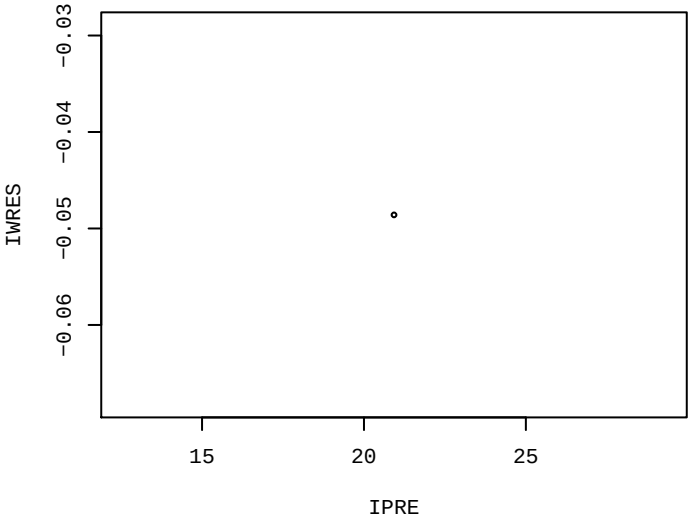
IOFV = 4.52009 , OFV per DV = 4.5201 , Run Test(CWRES) p = 1

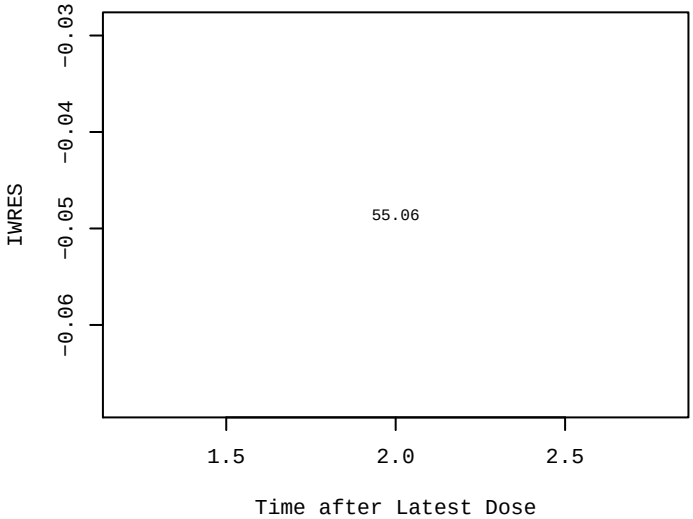








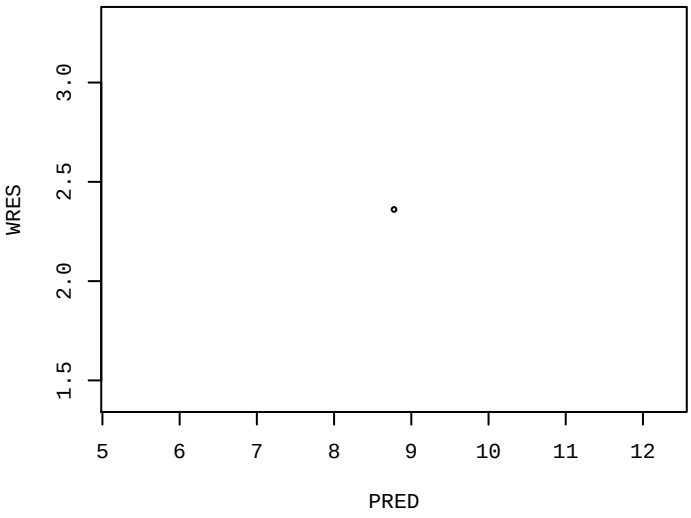


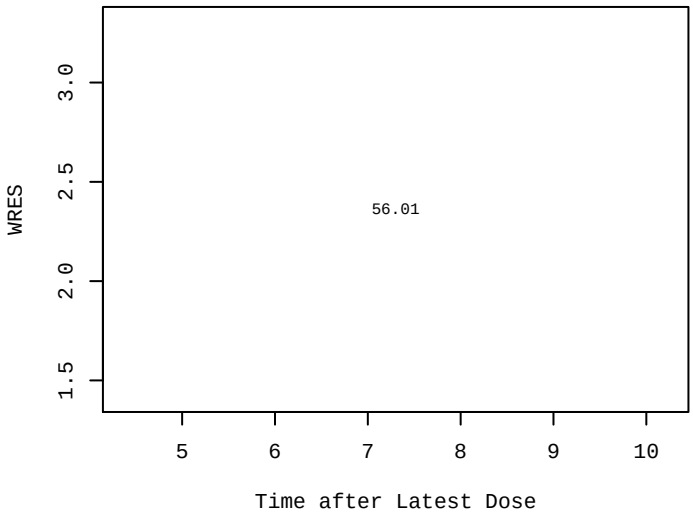


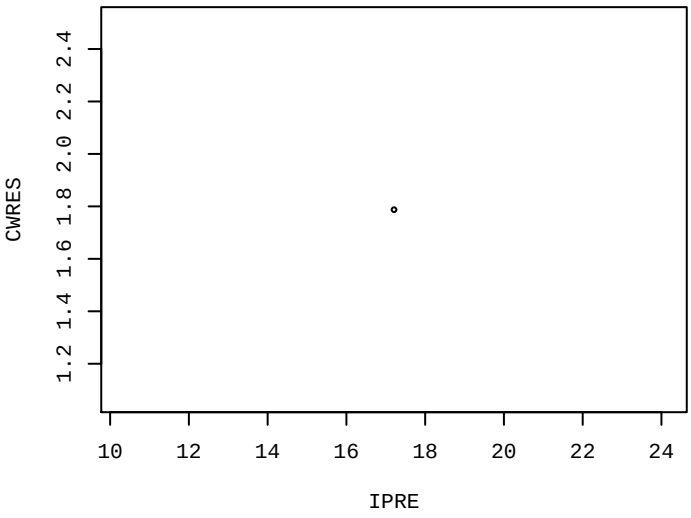
*Fractional number means dosing occasion.

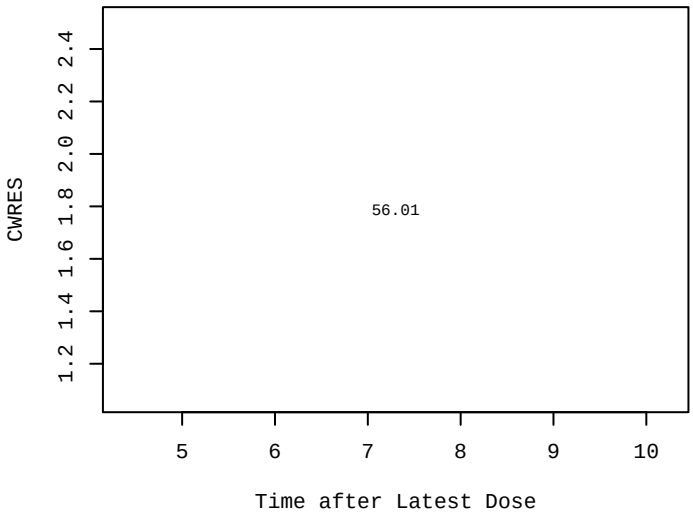
Individiual Residual Curve, ID = 56

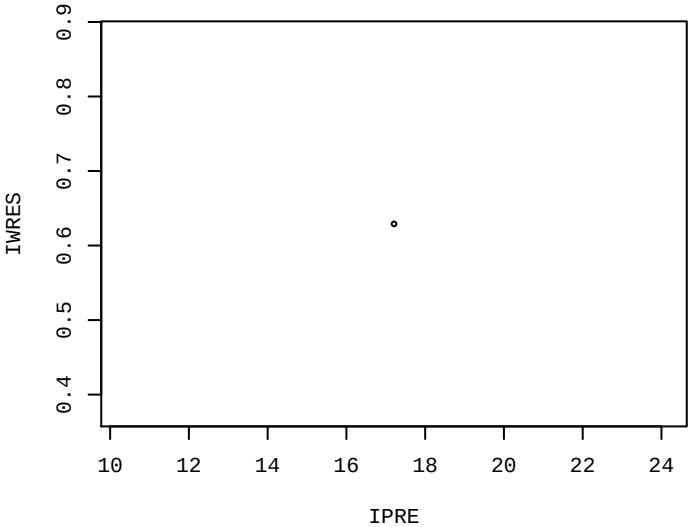
IOFV = 7.18925 , OFV per DV = 7.1893 , Run Test(CWRES) p = 1

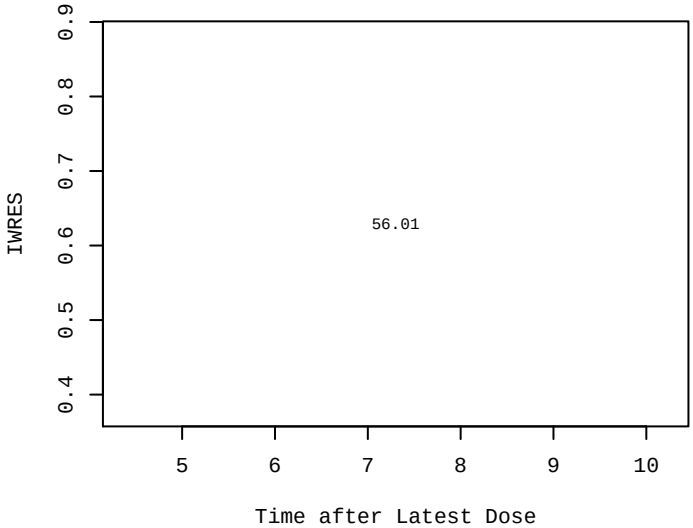








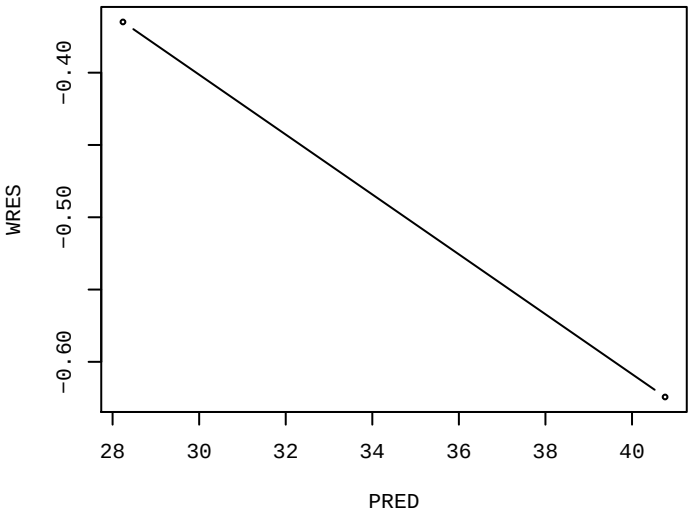


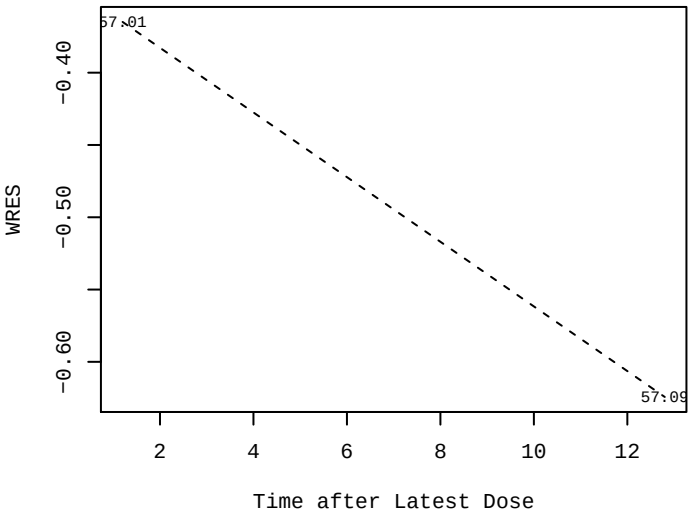


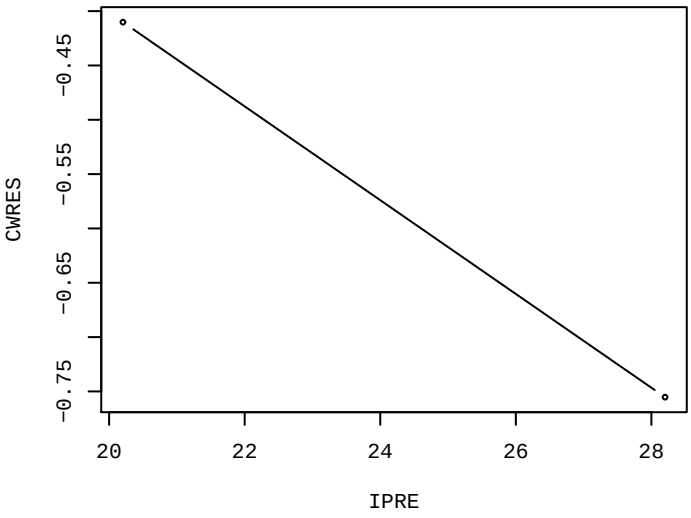
*Fractional number means dosing occasion.

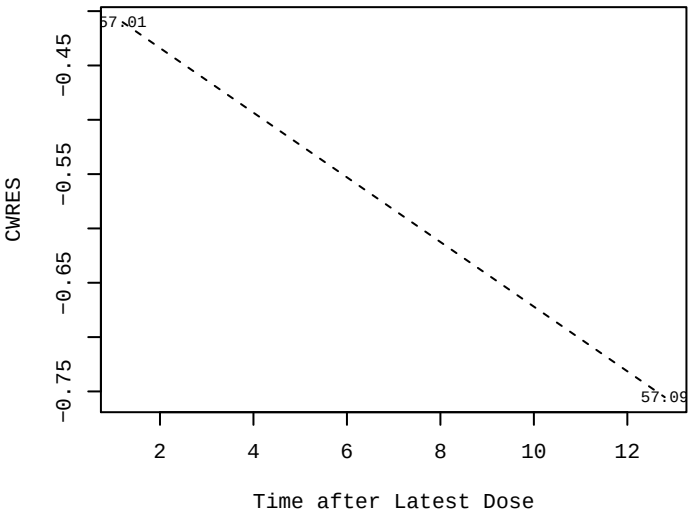
Individiual Residual Curve, ID = 57

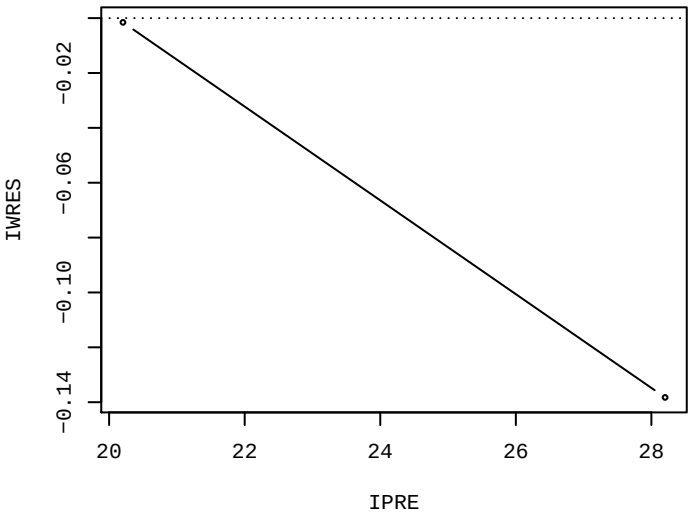
IOFV = 8.15911 , OFV per DV = 4.0796 , Run Test(CWRES) p = 0.5

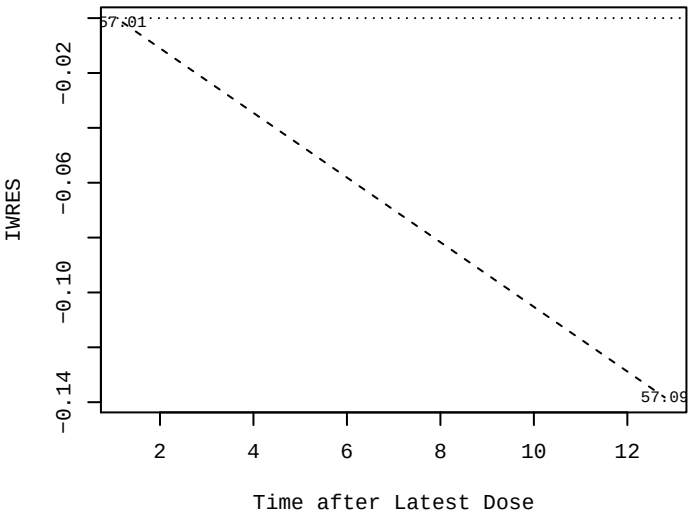








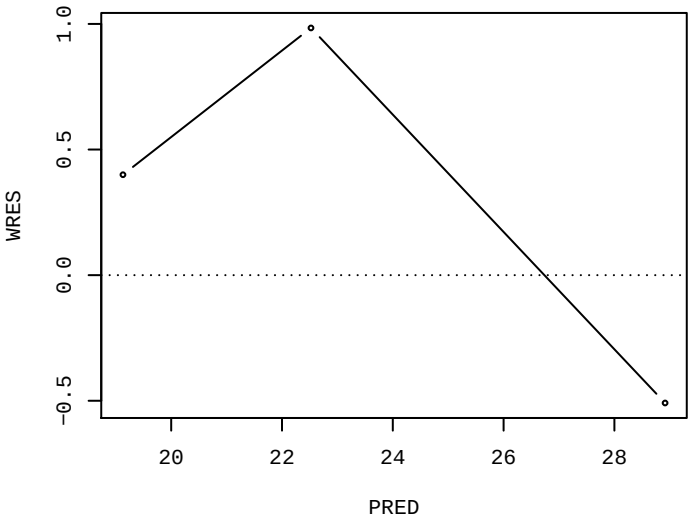


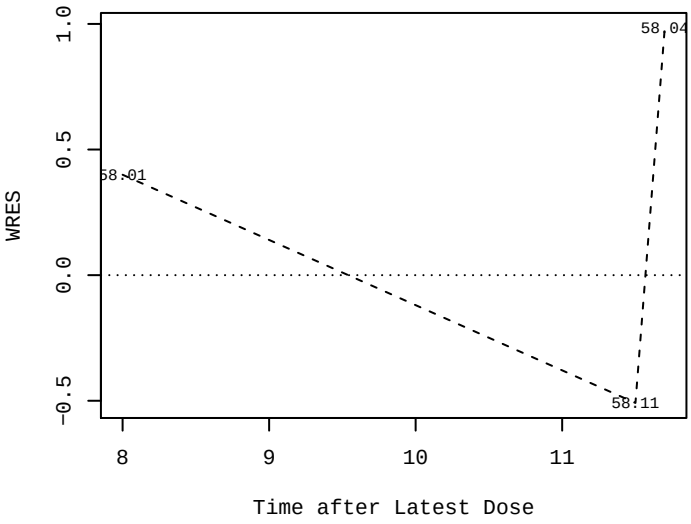


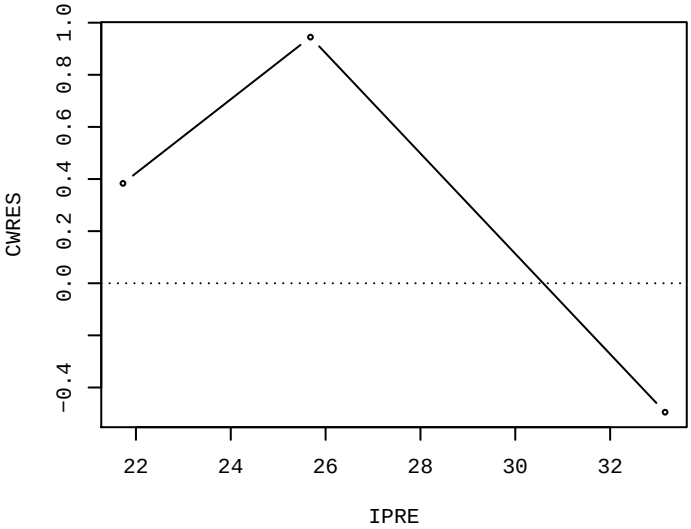
*Fractional number means dosing occasion.

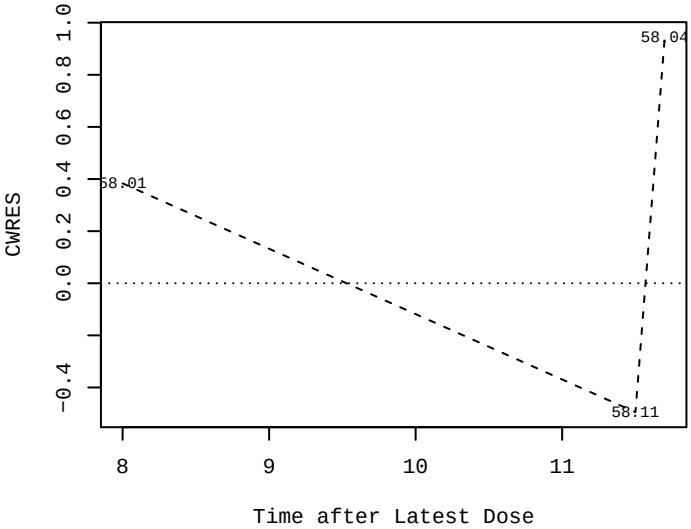
Individiual Residual Curve, ID = 58

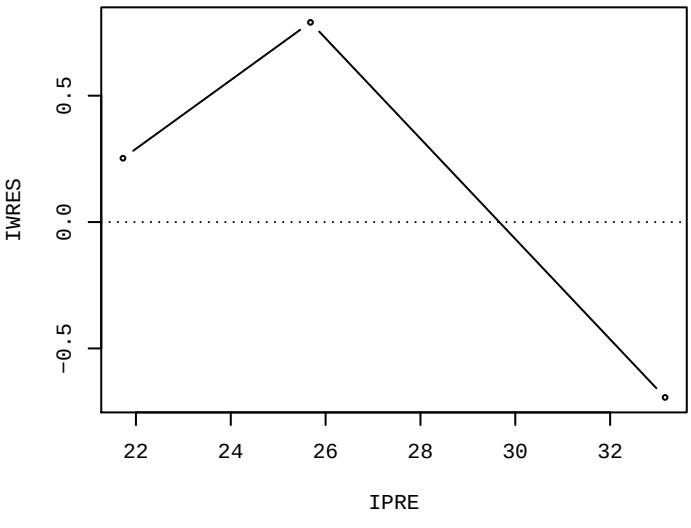
IOFV = 11.4725 , OFV per DV = 3.8242 , Run Test(CWRES) p = 1

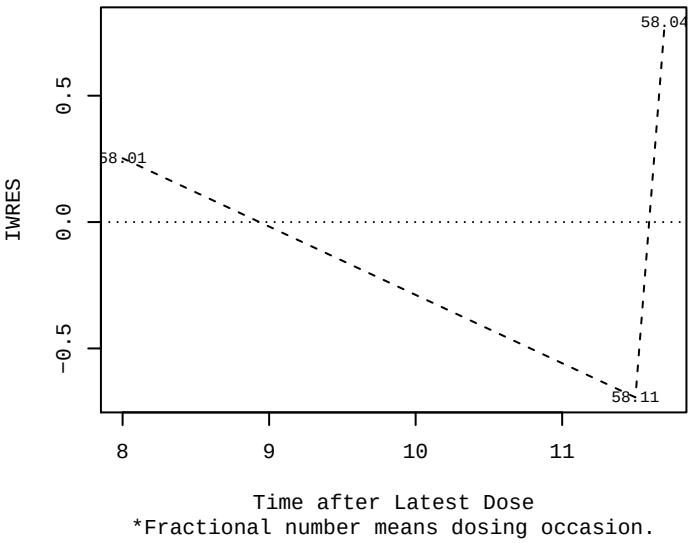






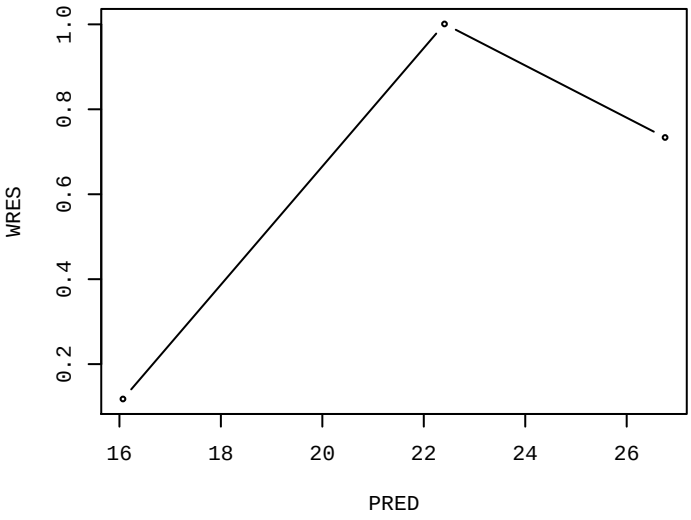


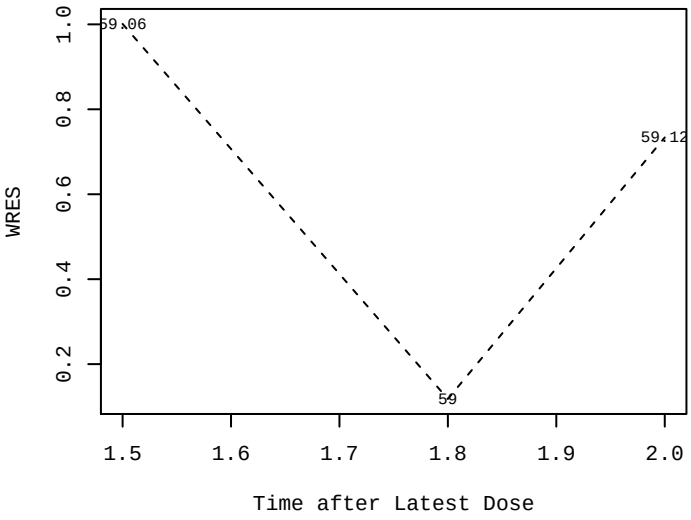


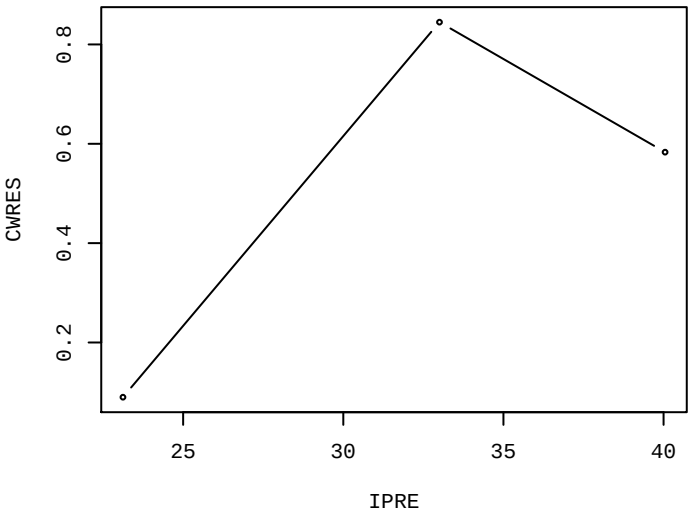


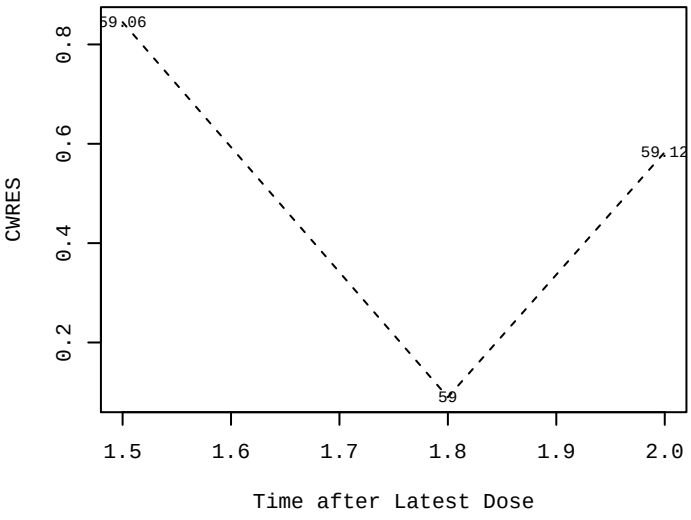
Individiual Residual Curve, ID = 59

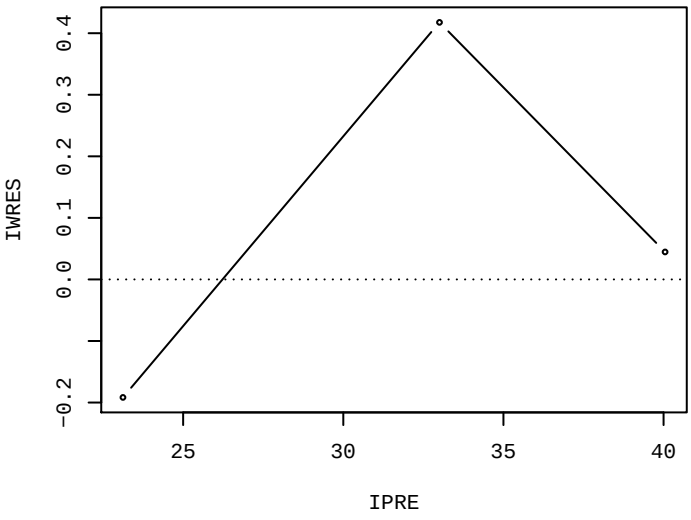
IOFV = 11.8823 , OFV per DV = 3.9608 , Run Test(CWRES) p = 0.25

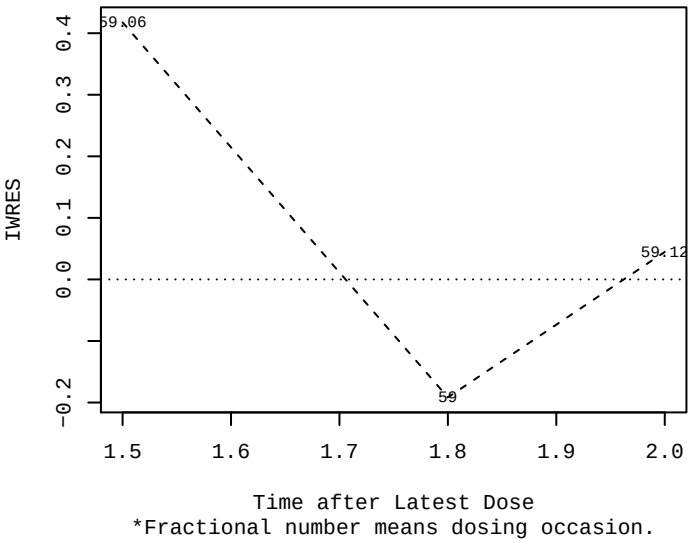












*Fractional number means dosing occasion.

Subjects with Bad Run Test Result on CWRES

None