



Life Support Team – Data Tracking Table



Examples and Practice

Circle One:

Oxygen (O₂)

Carbon Dioxide (CO₂)

Column	A	B	C	D	E	F	G
Table Headings	UTC	Content of O ₂ or CO ₂	(Graph this column) Partial Pressure of O ₂ or CO ₂	Change in O ₂ or CO ₂	Rate	Direction of Change	Time to Criticality**
Units	24 Hour Clock	%	mmHg	mmHg	mmHg per hour		hours
Calculations	From Data	From Data	$C = 760 \times B/100$	$D = \text{Current C} - \text{Previous C}$	$E = D/0.33$	Look at the graph and check one	$G = \frac{\text{Critical Value} - C}{E}$
Examples and Practice	15:00	0.35	2.66	n/a	n/a	n/a	n/a
	15:20	0.57	4.33	1.67	5.06	toward	0.64
	15:40	0.37	2.81	-1.52	-4.61	away	n/a
	16:00	0.80	6.08	3.27	9.91	toward	0.15
	16:20	1.20	9.12	3.04	9.21	critical	n/a
	16:40	1.40	10.64	1.52	4.61	critical	n/a
	17:00	0.90	6.84	-3.80	-11.52	away	n/a
	17:20	1.80	13.68	6.84	20.73	critical	n/a
	17:40	0.95	7.22	-6.46	-19.57	away	n/a
	18:00	0.74	5.62	-1.60	-4.85	away	n/a
	18:20	0.51	3.88	-1.74	-5.27	away	n/a

Note: Round all calculations to two decimal places. Critical Value for O₂ is 115 mmHg. Critical Value for CO₂ is 7.6 mmHg.



Life Support Team – Data Tracking Table



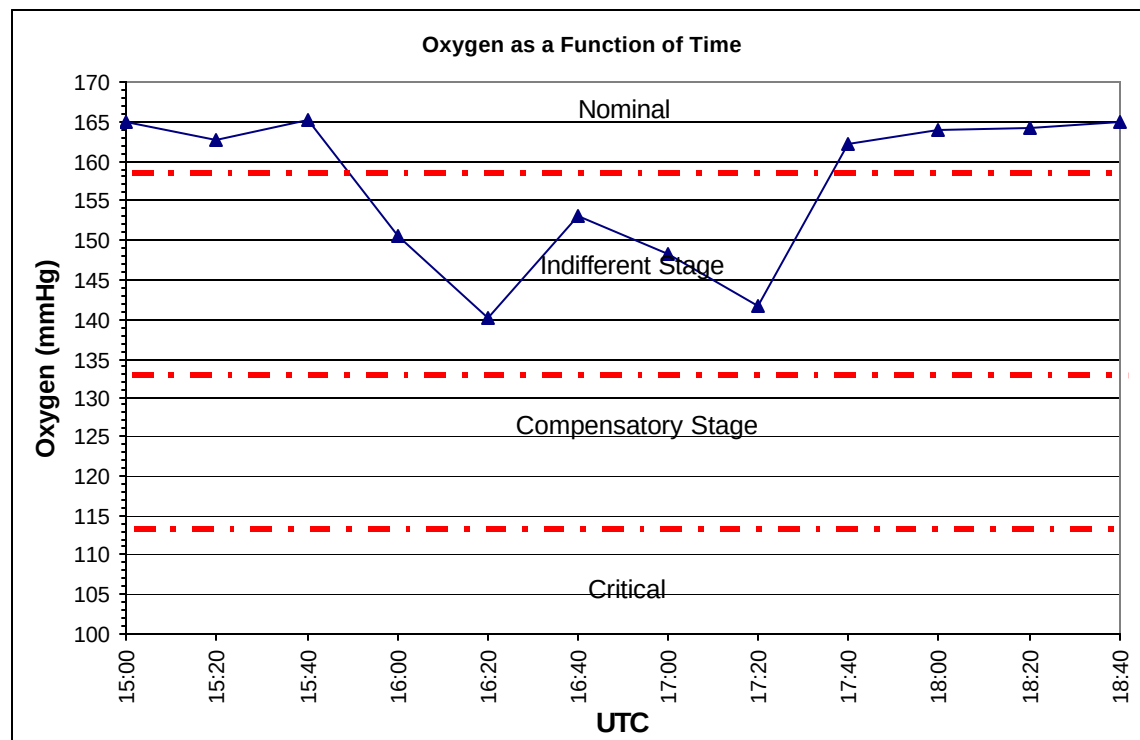
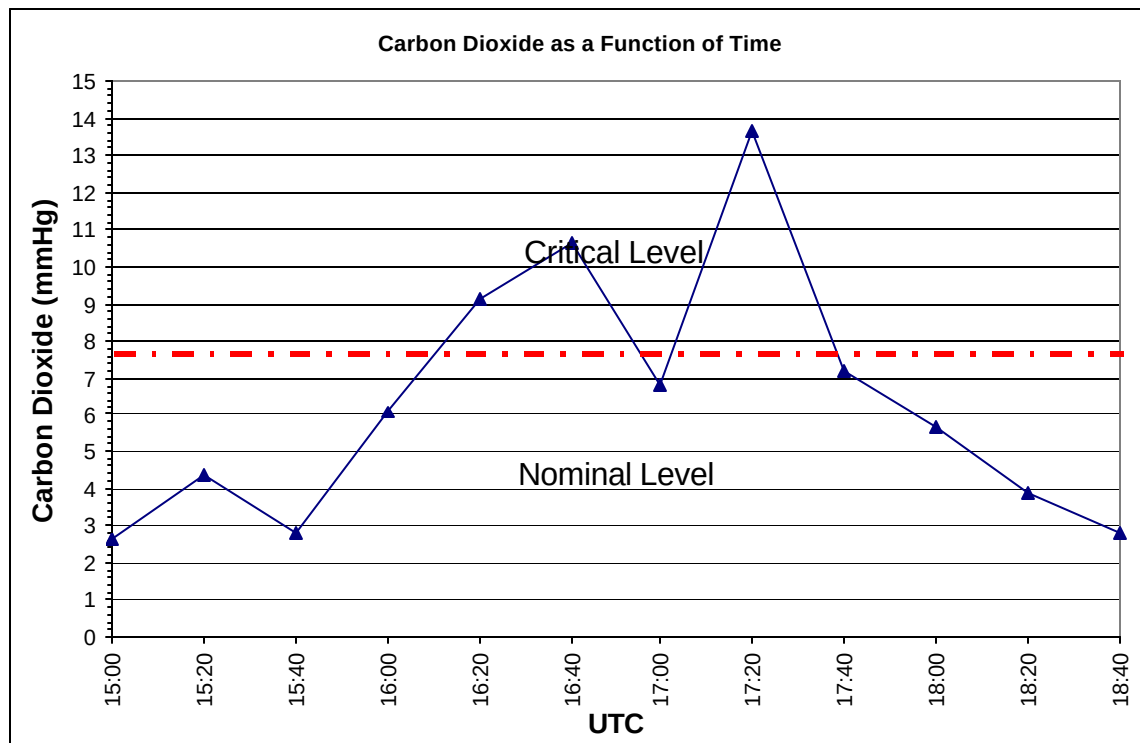
Examples and Practice

Circle One: Oxygen (O²) Carbon Dioxide (CO²)

Column	A	B	C (Graph this column)	D	E	F	G
Table Headings	UTC	Content of O ₂ or CO ₂	Partial Pressure of O ₂ or CO ₂	Change in O ₂ or CO ₂	Rate	Direction of Change	Time to Criticality**
Units	24 Hour Clock	%	mmHg	mmHg	mmHg per hour		hours
Calculations	From Data	From Data	C = 760 x B/100	D = Current C - Previous C	E = D/0.33	Look at the graph and check one	G = <u>Critical Value-C</u> E
Examples and Practice	15:00	21.70	164.92	n/a	n/a	n/a	n/a
	15:20	21.42	162.79	-2.13	-6.45	toward	7.41
	15:40	21.75	165.30	2.51	7.61	away	n/a
	16:00	19.80	150.48	-14.82	-44.91	toward	0.79
	16:20	18.45	140.22	-10.26	-31.09	toward	0.81
	16:40	20.15	153.14	12.92	39.15	away	n/a
	17:00	19.50	148.20	-4.94	-14.97	toward	2.22
	17:20	18.65	141.74	-6.46	-19.58	toward	1.37
	17:40	21.33	162.11	20.37	61.73	away	n/a
	18:00	21.56	163.86	1.75	5.30	away	n/a
	18:20	21.60	164.16	0.30	0.91	away	n/a

Note: Round all calculations to two decimal places. Critical Value for O₂ is 115 mmHg. Critical Value for CO₂ is 7.6 mmHg.

Practice Data





Life Support Team – Data Tracking Table



For the Mission

Circle One:

Oxygen (O²)

Carbon Dioxide (CO²)

Column Table Headings Units Calculations	A	B	C (Graph this column) Partial Pressure of O ₂ or CO ₂	D	E	F	G
	UTC	Content of O ₂ or CO ₂	Partial Pressure of O ₂ or CO ₂	Change in O ₂ or CO ₂	Rate	Direction of Change	Time to Criticality**
	24 Hour Clock	%	mmHg	mmHg	mmHg per hour		hours
	From Data	From Data	C = 760 x B/100	D = Current C - Previous C	E = D/0.33	Look at the graph and check one	G = <u>Critical Value-C</u> E
For the Mission	15:00	0.37	2.81	n/a	n/a	n/a	n/a
	15:20	0.45	3.42	0.61	1.85	toward	2.26
	15:40	0.58	4.41	0.99	3.00	toward	1.06
	16:00	0.80	6.08	1.67	5.06	toward	0.30
	16:20	1.05	7.98	1.90	5.76	critical	n/a
	16:40	1.19	9.04	1.06	3.21	critical	n/a
	17:00	1.62	12.31	3.27	9.91	critical	n/a
	17:20	1.80	13.68	1.37	4.15	critical	n/a
	17:40	0.95	7.22	-6.46	-19.58	away	n/a
	18:00	0.74	5.62	-1.60	-4.85	away	n/a
	18:20	0.51	3.88	-1.74	-5.27	away	n/a
	18:40	0.37	2.81	-1.07	-3.24	away	n/a

Note: Round all calculations to two decimal places. Critical Value for O₂ is 115 mmHg. Critical Value for CO₂ is 7.6 mmHg.



Life Support Team – Data Tracking Table



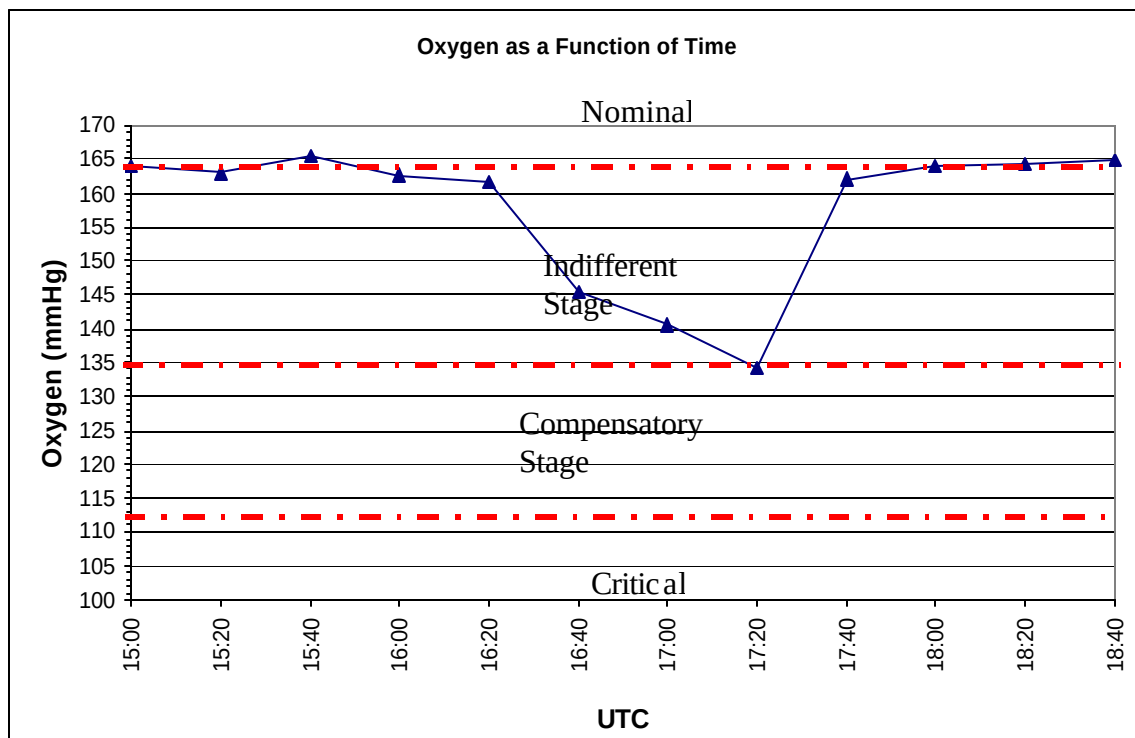
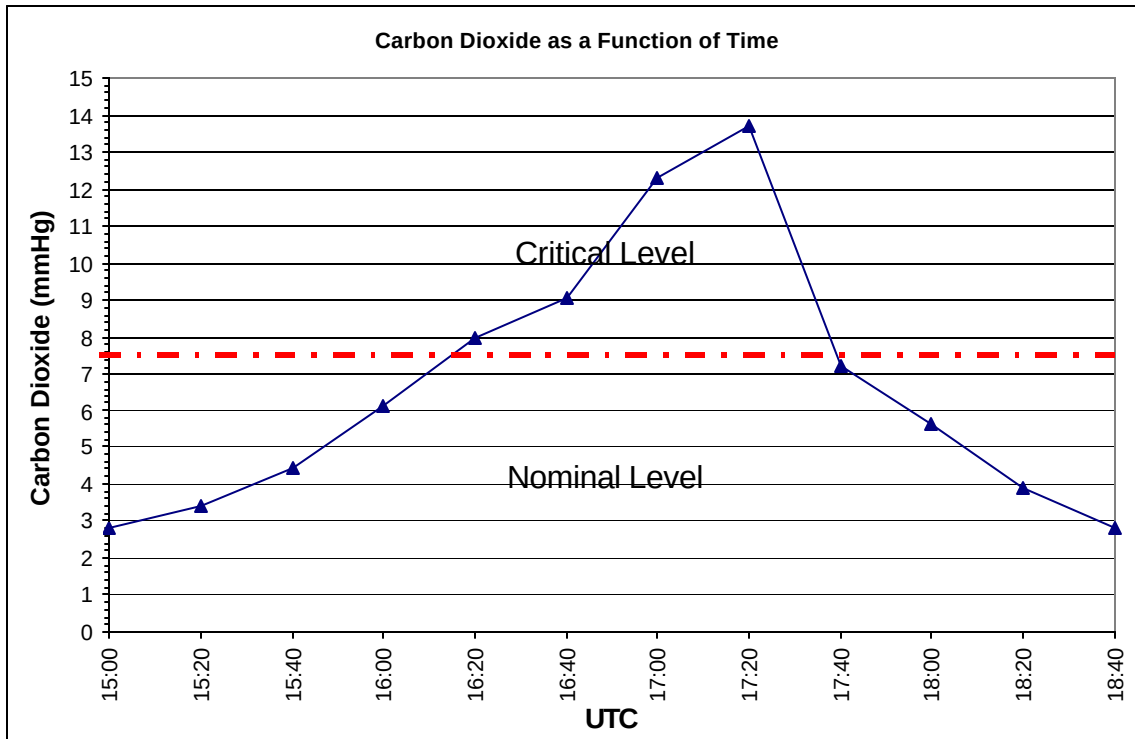
For the Mission

Circle One: **Oxygen (O²)** Carbon Dioxide (CO²)

Column Table Headings Units Calculations	A	B	C (Graph this column) Partial Pressure of O ₂ or CO ₂	D	E	F	G
	UTC	Content of O ₂ or CO ₂	Partial Pressure of O ₂ or CO ₂	Change in O ₂ or CO ₂	Rate	Direction of Change	Time to Criticality**
	24 Hour Clock	%	mmHg	mmHg	mmHg per hour		hours
	From Data	From Data	C = 760 x B/100	D = Current C - Previous C	E = D/0.33	Look at the graph and check one	G = <u>Critical Value-C</u> E
For the Mission	15:00	21.56	163.86	n/a	n/a	n/a	n/a
	15:20	21.42	162.79	-1.07	-3.24	toward	14.75
	15:40	21.75	165.30	2.51	7.61	away	n/a
	16:00	21.40	162.64	-2.66	-8.06	toward	5.91
	16:20	21.29	161.80	-0.84	-2.55	toward	18.35
	16:40	19.15	145.54	-16.26	-49.27	toward	0.62
	17:00	18.50	140.60	-4.94	-14.97	toward	1.71
	17:20	17.65	134.14	-6.46	-19.58	toward	0.98
	17:40	21.33	162.11	27.97	84.76	away	n/a
	18:00	21.56	163.86	1.75	5.30	away	n/a
	18:20	21.60	164.16	0.30	0.91	away	n/a
	18:40	21.70	164.92	0.76	2.30	away	n/a

Note: Round all calculations to two decimal places. Critical Value for O₂ is 115 mmHg. Critical Value for CO₂ is 7.6 mmHg.

Mission Data





Radiation Team – Data Tracking Table



Circle One:

TEPC1 (Portable)

TEPC2 (Stationary)

Column	A	B	C (Graph this column)	D	E	F (Graph this column and compare to tables in the Reference Guide)
Table Headings	UTC	20 min Dose Total	Cumulative Dose	Dose Rate	Time to Criticality	24 hour Projected Total
Units	24 Hour Clock	rems	rems	rem/hr	hours	rems
Calculations	From Data	From Data	C= B+ Previous C	$D = \frac{B}{0.33}$	$E = \frac{100 - C}{D}$	$F = (D \times 24) + C$
Examples and Practice	15:00	0.43	0.43	1.30	76.59	31.63
	15:20	0.58	1.01	1.76	56.24	43.25
	15:40	1.67	2.68	5.06	19.23	124.12
	16:00	3.56	6.24	10.79	8.69	265.20
	16:20	5.01	11.25	15.18	5.85	375.57
	16:40	4.20	15.45	12.73	6.64	320.97
	17:00	1.83	17.28	5.55	14.90	150.48

Note: Round all calculations to two decimal places.

Column	A	B	C (Graph this column)	D	E	F (Graph this column and compare to tables in the Reference Guide)
Table Headings	UTC	20 min Dose Total	Cumulative Dose	Dose Rate	Time to Criticality	24 hour Projected Total
Units	24 Hour Clock	rems	rems	rem/hr	hours	rems
Calculations	From Data	From Data	C= B+ Previous C	$D = \frac{B}{0.33}$	$E = \frac{100 - C}{D}$	$F = (D \times 24) + C$
For the Mission	15:00	0.24	0.24	0.73	136.66	17.76
	15:20	0.89	1.13	2.70	36.62	65.93
	15:40	1.47	2.60	4.45	21.89	109.40
	16:00	1.35	3.95	4.09	23.48	102.11
	16:20	1.91	5.86	5.79	16.26	144.82
	16:40	2.00	7.86	6.06	15.20	153.30
	17:00	3.45	11.31	10.45	8.49	262.11
	17:20	2.55	13.86	7.73	11.14	199.38
	17:40	1.99	15.85	6.03	13.96	160.57
	18:00	2.04	17.89	6.18	13.29	166.21
	18:20	1.58	19.47	4.79	16.81	134.43
	18:40	1.07	20.54	3.24	24.52	98.30
	19:00	0.24	20.78	0.73	108.52	38.30
	19:20	0.89	21.67	2.70	29.01	86.47

Note: Round all calculations to two decimal places.



Radiation Team – Data Tracking Table



Circle One: **TEPC1 (Portable)** **TEPC2 (Stationary)**

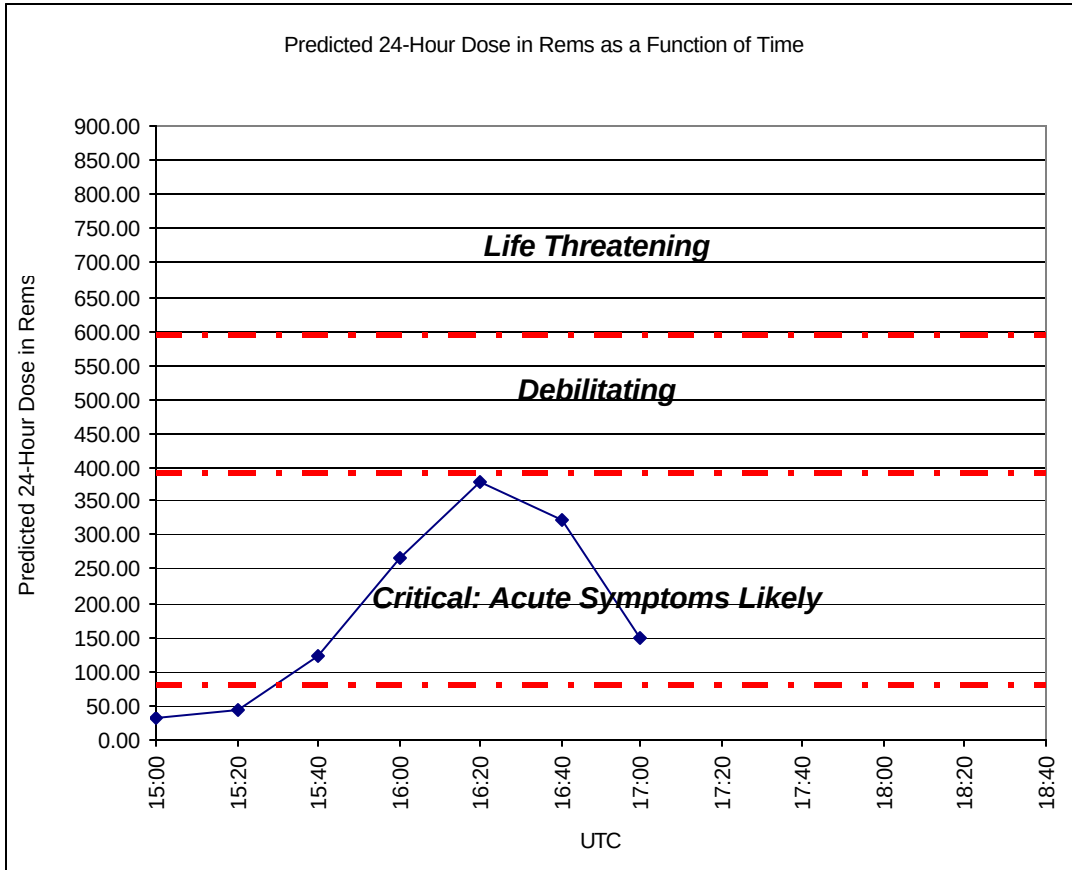
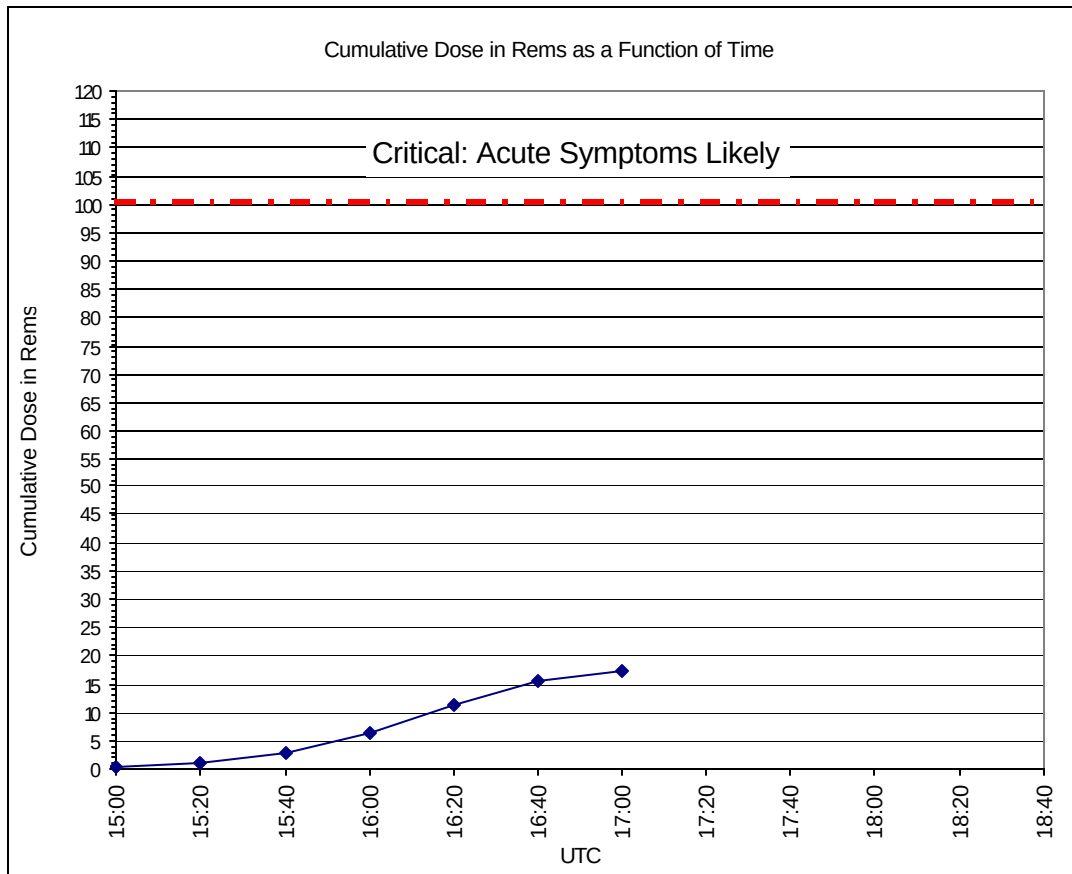
Column	A	B	C (Graph this column)	D	E	F (Graph this column and compare to tables in the Reference Guide)
Table Headings	UTC	20 min Dose Total	Cumulative Dose	Dose Rate	Time to Criticality	24 hour Projected Total
Units	24 Hour Clock	rems	rems	rem/hr	hours	rems
Calculations	From Data	From Data	C = B + Previous C	$D = \frac{B}{0.33}$	$E = \frac{100 - C}{D}$	F = (D X 24) + C
Examples and Practice	15:00	0.43	0.43	1.30	76.59	31.63
	15:20	0.58	1.01	1.76	56.24	43.25
	15:40	1.67	2.68	5.06	19.23	124.12
	16:00	3.56	6.24	10.79	8.69	265.20
	16:20	5.01	11.25	15.18	5.85	375.57
	16:40	4.20	15.45	12.73	6.64	320.97
	17:00	1.83	17.28	5.55	14.90	150.48

Note: Round all calculations to two decimal places.

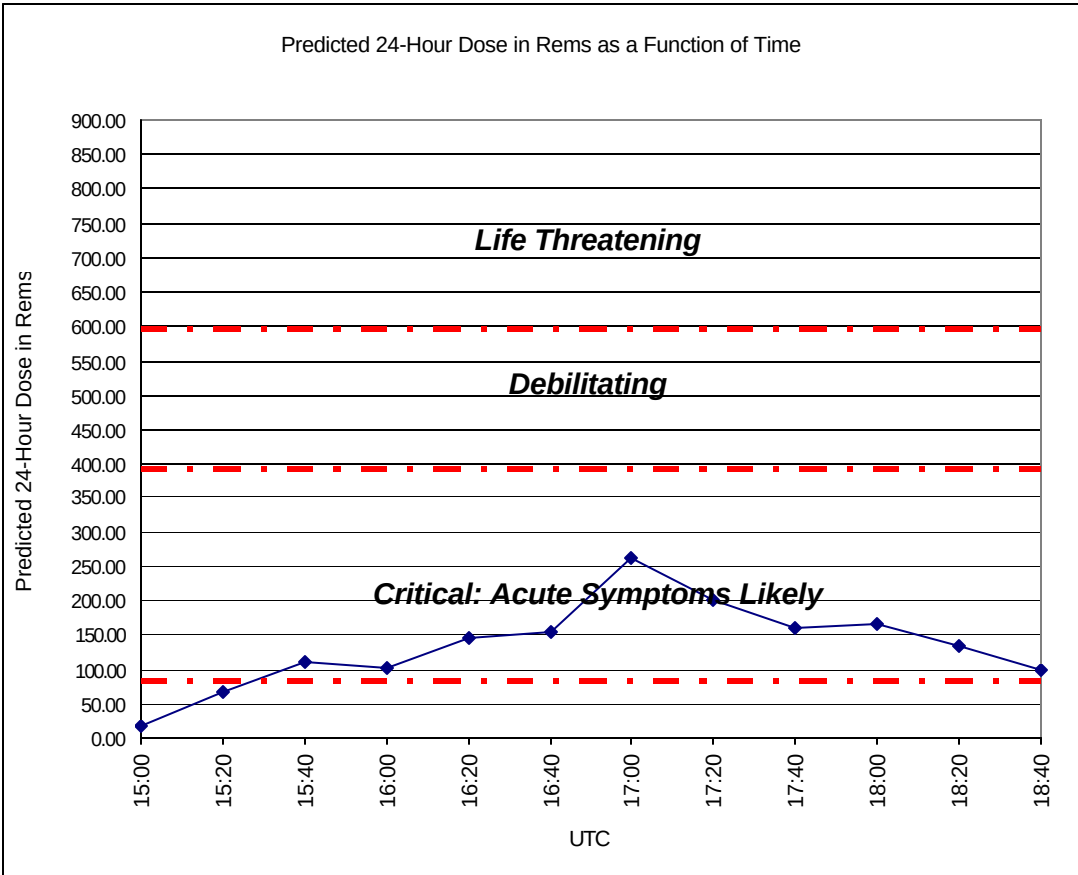
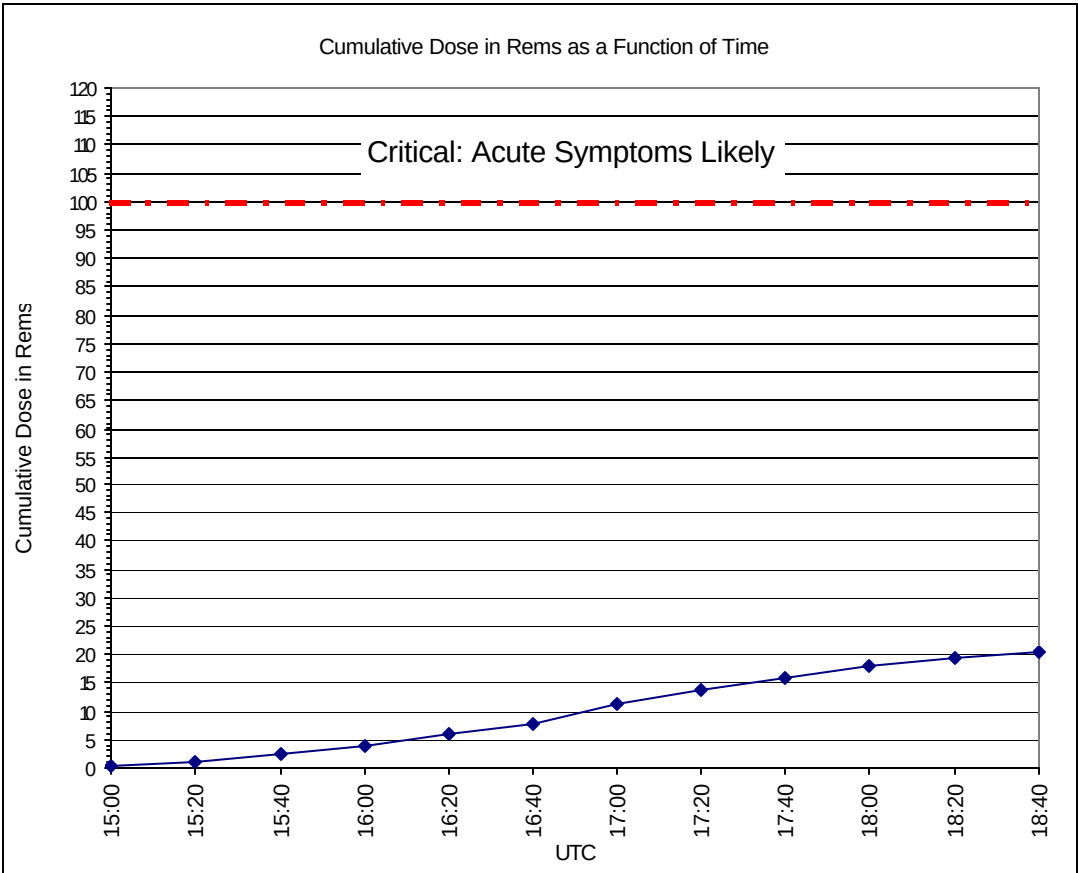
Column	A	B	C (Graph this column)	D	E	F (Graph this column and compare to tables in the Reference Guide)
Table Headings	UTC	20 min Dose Total	Cumulative Dose	Dose Rate	Time to Criticality	24 hour Projected Total
Units	24 Hour Clock	rems	rems	rem/hr	hours	rems
Calculations	From Data	From Data	C = B + Previous C	$D = \frac{B}{0.33}$	$E = \frac{100 - C}{D}$	F = (D X 24) + C
For the Mission	15:00	0.74	0.74	2.24	44.31	54.5
	15:20	0.77	1.51	2.33	42.27	57.43
	15:40	1.52	3.03	4.61	21.03	113.67
	16:00	1.31	4.34	3.97	24.10	99.62
	16:20	6.23	10.57	18.88	4.74	463.69
	16:40	8.96	19.53	27.15	2.96	671.13
	17:00	11.00	30.53	33.33	2.08	830.45
	17:20	11.64	42.17	35.27	1.64	888.65
	17:40	10.64	52.81	32.24	1.46	820.57
	18:00	7.56	60.37	22.91	1.73	610.21
	18:20	5.09	65.46	15.42	2.24	435.54
	18:40	2.94	68.40	8.91	3.55	282.24
	19:00	0.74	69.14	2.24	13.79	122.90
	19:20	0.77	69.91	2.33	12.93	125.83

Note: Round all calculations to two decimal places.

Practice TEPC 1 & 2



Mission Day TEPC1



Mission Day TEPC2

