

# Multi M1

-0.693147181 30		N <sub>2</sub> Tissue Compartments											
Copyright (C) 1998 Benton P. Zwart		5	10	20	40	80	120	160	320	480	640	T1/2	
Initial Tissue PN <sub>2</sub>	21.782	2.2990	2.0083	1.7060	1.3905	1.2726	1.2619	1.2548	1.2350	1.2208	1.2137	Slope	
Safety Enhancement (20-100)	0	103.60	87.58	72.42	58.08	52.08	50.83	48.33	47.24	46.74	46.24	Intercept	
Local Barometer (mmHg)	635	2.2990	2.0083	1.7060	1.3905	1.2726	1.2619	1.2548	1.2350	1.2208	1.2137	Safety Slope	
Initial Steady State FiO <sub>2</sub>	0.21	103.60	87.58	72.42	58.08	52.08	50.83	48.33	47.24	46.74	46.24	Safety Intercept	
Depth Gauge Must = 0 at Surface of Water!													
Linear Transition Time	0.00	2.3	21.78	21.78	21.78	21.78	21.78	21.78	21.78	21.78	21.78	21.78	PN <sub>2</sub> (t)
Transition O <sub>2</sub> Fraction	0.21												
Calculated Target PN <sub>2</sub>	72.342	238.39	205.31	172.42	139.58	126.67	124.79	121.86	119.61	118.28	117.36	Nxt Seg Ms	
Initial PN <sub>2</sub> Inspired	21.782	238.39	205.31	172.42	139.58	126.67	124.79	121.86	119.61	118.28	117.36	Safety Ms	
Target - Initial	50.56	216.61	183.53	150.64	117.80	104.89	103.00	100.08	97.83	96.49	95.58	Buffer	
Segment 1 Conditions													
Segment Depth (FSW)	64	71.15	64.56	52.51	40.68	32.33	29.08	27.36	24.65	23.72	23.24	PN <sub>2</sub> (t)	
Segment Time (Min)	27	125.92	107.04	88.93	71.53	64.37	63.01	60.42	59.13	58.50	57.93	Nxt Seg Ms	
Inspired O <sub>2</sub> Fraction	0.21	125.92	107.04	88.93	71.53	64.37	63.01	60.42	59.13	58.50	57.93	Safety Ms	
Calculated PN <sub>2</sub>	72.342	54.77	42.48	36.42	30.85	32.05	33.93	33.06	34.48	34.78	34.69	Buffer	
58.57													
Linear Transition Time	1.60	1.6											
Transition O <sub>2</sub> Fraction	0.21	66.60	63.07	52.46	40.99	32.61	29.30	27.54	24.75	23.78	23.29	PN <sub>2</sub> (t)	
Calculated Target PN <sub>2</sub>	33.632	59.32	43.98	36.47	30.54	31.77	33.71	32.88	34.38	34.72	34.64	Buffer	
Initial PN <sub>2</sub> Inspired	72.342												
Target - Initial	-38.71												
Segment 2 Conditions													
Segment Depth (FSW)	15	55.38	57.54	50.60	40.62	32.63	29.38	27.62	24.81	23.83	23.32	PN <sub>2</sub> (t)	
Segment Time (Min)	3	90.41	76.14	62.75	50.22	44.92	43.75	41.34	40.37	39.95	39.49	Nxt Seg Ms	
Inspired O <sub>2</sub> Fraction	0.21	90.41	76.14	62.75	50.22	44.92	43.75	41.34	40.37	39.95	39.49	Safety Ms	
Calculated PN <sub>2</sub>	33.632	35.03	18.59	12.15	9.60	12.28	14.37	13.72	15.56	16.12	16.17	Buffer	
9.57													
Linear Transition Time	0.00	0.5											
Transition O <sub>2</sub> Fraction	0.21	55.38	57.54	50.60	40.62	32.63	29.38	27.62	24.81	23.83	23.32	PN <sub>2</sub> (t)	
Calculated Target PN <sub>2</sub>	21.782	35.03	18.59	12.15	9.60	12.28	14.37	13.72	15.56	16.12	16.17	Buffer	
Initial PN <sub>2</sub> Inspired	33.632												
Target - Initial	-11.85												
Segment 3 Conditions													
Segment Depth (FSW)	0	55.38	57.54	50.60	40.62	32.63	29.38	27.62	24.81	23.83	23.32	PN <sub>2</sub> (t)	
Segment Time (Min)	0	90.41	76.14	62.75	50.22	44.92	43.75	41.34	40.37	39.95	39.49	Nxt Seg Ms	
Inspired O <sub>2</sub> Fraction	0.21	90.41	76.14	62.75	50.22	44.92	43.75	41.34	40.37	39.95	39.49	Safety Ms	
Calculated PN <sub>2</sub>	21.782	35.03	18.59	12.15	9.60	12.28	14.37	13.72	15.56	16.12	16.17	Buffer	
-5.43													
Linear Transition Time	0.00	0.0											
Transition O <sub>2</sub> Fraction	0.21	55.38	57.54	50.60	40.62	32.63	29.38	27.62	24.81	23.83	23.32	PN <sub>2</sub> (t)	
Calculated Target PN <sub>2</sub>	21.782	35.03	18.59	12.15	9.60	12.28	14.37	13.72	15.56	16.12	16.17	Buffer	
Initial PN <sub>2</sub> Inspired	21.782												
Target - Initial	0												
Segment 4 Conditions													
Segment Depth (FSW)	0	55.38	57.54	50.60	40.62	32.63	29.38	27.62	24.81	23.83	23.32	PN <sub>2</sub> (t)	
Segment Time (Min)	0	90.41	76.14	62.75	50.22	44.92	43.75	41.34	40.37	39.95	39.49	Nxt Seg Ms	
Inspired O <sub>2</sub> Fraction	0.21	90.41	76.14	62.75	50.22	44.92	43.75	41.34	40.37	39.95	39.49	Safety Ms	
Calculated PN <sub>2</sub>	21.782	35.03	18.59	12.15	9.60	12.28	14.37	13.72	15.56	16.12	16.17	Buffer	
-5.43													
Linear Transition Time	0.00	0.0											
Transition O <sub>2</sub> Fraction	0.21	55.38	57.54	50.60	40.62	32.63	29.38	27.62	24.81	23.83	23.32	PN <sub>2</sub> (t)	
Calculated Target PN <sub>2</sub>	21.782	35.03	18.59	12.15	9.60	12.28	14.37	13.72	15.56	16.12	16.17	Buffer	

# Multi M1

Initial PN<sub>2</sub> Inspired 21.782  
Target - Initial 0

## Segment 5 Conditions

Segment Depth (FSW)	0	55.38	57.54	50.60	40.62	32.63	29.38	27.62	24.81	23.83	23.32	PN <sub>2</sub> (t)
Segment Time (Min)	0	90.41	76.14	62.75	50.22	44.92	43.75	41.34	40.37	39.95	39.49	Nxt Seg Ms
Inspired O <sub>2</sub> Fraction	0.21	90.41	76.14	62.75	50.22	44.92	43.75	41.34	40.37	39.95	39.49	Safety Ms
Calculated PN <sub>2</sub>	21.782	35.03	18.59	12.15	9.60	12.28	14.37	13.72	15.56	16.12	16.17	Buffer

-5.43

Linear Transition Time	0.00	0.0										
Transition O <sub>2</sub> Fraction	0.21	55.38	57.54	50.60	40.62	32.63	29.38	27.62	24.81	23.83	23.32	PN <sub>2</sub> (t)
Calculated Target PN <sub>2</sub>	21.782	35.03	18.59	12.15	9.60	12.28	14.37	13.72	15.56	16.12	16.17	Buffer
Initial PN <sub>2</sub> Inspired	21.782											
Target - Initial	0											

## Segment 6 Conditions

Segment Depth (FSW)	0	55.38	57.54	50.60	40.62	32.63	29.38	27.62	24.81	23.83	23.32	PN <sub>2</sub> (t)
Segment Time (Min)	0	90.41	76.14	62.75	50.22	44.92	43.75	41.34	40.37	39.95	39.49	Nxt Seg Ms
Inspired O <sub>2</sub> Fraction	0.21	90.41	76.14	62.75	50.22	44.92	43.75	41.34	40.37	39.95	39.49	Safety Ms
Calculated PN <sub>2</sub>	21.782	35.03	18.59	12.15	9.60	12.28	14.37	13.72	15.56	16.12	16.17	Buffer

-5.43

Linear Transition Time	0.00	0.0										
Transition O <sub>2</sub> Fraction	0.21	55.38	57.54	50.60	40.62	32.63	29.38	27.62	24.81	23.83	23.32	PN <sub>2</sub> (t)
Calculated Target PN <sub>2</sub>	21.782	35.03	18.59	12.15	9.60	12.28	14.37	13.72	15.56	16.12	16.17	Buffer
Initial PN <sub>2</sub> Inspired	21.782											
Target - Initial	0											

## Final Depth (FSW)

Final Depth (FSW)	0											
Final Air PN <sub>2</sub>	21.8											
Total Dive Time (Min)	31.6											
Residual PN <sub>2</sub> (mm-min)	7504.8	168.001	357.58	576.307	753.45	868.14	911.17	933.682	968.758	980.811	986.907	
Residual PN <sub>2</sub> Index (mm)	4.0026											

-5.43

Torr Estimator: Alt (0-20000') = 6200 Torr = 601.77 Equiv = -6.87 FSW

## Multi M2

-0.693147181		30	N <sub>2</sub> Tissue Compartments										
RNT for Seg1 Depth	21.8		5	10	20	40	80	120	160	320	480	640	T1/2
Surface Interval (Min)	83		2.2990	2.0083	1.7060	1.3905	1.2726	1.2619	1.2548	1.2350	1.2208	1.2137	Slope
Safety Enhancement (20-100)	0		103.60	87.58	72.42	58.08	52.08	50.83	48.33	47.24	46.74	46.24	Intercept
Local Barometer (mmHg)	635		2.2990	2.0083	1.7060	1.3905	1.2726	1.2619	1.2548	1.2350	1.2208	1.2137	Safety Slope
Surface Interval FiO2	0.21		103.60	87.58	72.42	58.08	52.08	50.83	48.33	47.24	46.74	46.24	Safety Intercept
		26.48	73.13	Depth Gauge Must = 0 at Surface of Water!									
RNT Loading			70.62	61.77	48.98	37.91	30.61	27.85	26.40	24.43	23.65	23.22	
Linear Transition Time	0.00	2.2	70.62	61.77	48.98	37.91	30.61	27.85	26.40	24.43	23.65	23.22	PN <sub>2</sub> (t)
Transition O <sub>2</sub> Fraction	0.21												
Calculated Target PN <sub>2</sub>	73.13		240.69	207.32	174.13	140.97	127.94	126.05	123.11	120.84	119.50	118.57	Nxt Seg Ms
Initial PN <sub>2</sub> Inspired	21.78		240.69	207.32	174.13	140.97	127.94	126.05	123.11	120.84	119.50	118.57	Safety Ms
Target - Initial	51.35		170.07	145.55	125.15	103.06	97.33	98.20	96.71	96.41	95.85	95.35	Buffer
Segment 1 Conditions			Enter Segment Time Only! I Have Already Added The RNT!!										
Segment Depth (FSW)	65		73.03	70.83	62.25	49.49	38.29	33.48	30.83	26.79	25.27	24.45	PN <sub>2</sub> (t)
Segment Time (Min)	23	45	125.92	107.04	88.93	71.53	64.37	63.01	60.42	59.13	58.50	57.93	Nxt Seg Ms
Inspired O <sub>2</sub> Fraction	0.21	TBT	125.92	107.04	88.93	71.53	64.37	63.01	60.42	59.13	58.50	57.93	Safety Ms
Calculated PN <sub>2</sub>	73.13		52.89	36.22	26.68	22.04	26.08	29.53	29.58	32.34	33.23	33.48	Buffer
59.57													
Linear Transition Time	1.70	1.7											
Transition O <sub>2</sub> Fraction	0.21		67.85	68.57	61.65	49.58	38.50	33.67	31.00	26.89	25.34	24.50	PN <sub>2</sub> (t)
Calculated Target PN <sub>2</sub>	33.63		58.07	38.48	27.28	21.95	25.87	29.34	29.42	32.24	33.16	33.42	Buffer
Initial PN <sub>2</sub> Inspired	73.13												
Target - Initial	-39.5												
Segment 2 Conditions													
Segment Depth (FSW)	15		56.21	62.01	58.89	48.77	38.38	33.67	31.03	26.94	25.37	24.53	PN <sub>2</sub> (t)
Segment Time (Min)	3		90.41	76.14	62.75	50.22	44.92	43.75	41.34	40.37	39.95	39.49	Nxt Seg Ms
Inspired O <sub>2</sub> Fraction	0.21		90.41	76.14	62.75	50.22	44.92	43.75	41.34	40.37	39.95	39.49	Safety Ms
Calculated PN <sub>2</sub>	33.63		34.20	14.13	3.86	1.45	6.54	10.07	10.31	13.44	14.58	14.96	Buffer
9.57													
Linear Transition Time	0.50	0.5											
Transition O <sub>2</sub> Fraction	0.21		54.26	60.83	58.35	48.59	38.33	33.66	31.02	26.94	25.37	24.54	PN <sub>2</sub> (t)
Calculated Target PN <sub>2</sub>	21.78		36.15	15.30	4.40	1.63	6.58	10.09	10.32	13.43	14.58	14.96	Buffer
Initial PN <sub>2</sub> Inspired	33.63												
Target - Initial	-11.85												
Segment 3 Conditions													
Segment Depth (FSW)	0		54.26	60.83	58.35	48.59	38.33	33.66	31.02	26.94	25.37	24.54	PN <sub>2</sub> (t)
Segment Time (Min)	0		90.41	76.14	62.75	50.22	44.92	43.75	41.34	40.37	39.95	39.49	Nxt Seg Ms
Inspired O <sub>2</sub> Fraction	0.21		90.41	76.14	62.75	50.22	44.92	43.75	41.34	40.37	39.95	39.49	Safety Ms
Calculated PN <sub>2</sub>	21.78		36.15	15.30	4.40	1.63	6.58	10.09	10.32	13.43	14.58	14.96	Buffer
-5.43													
Linear Transition Time	0.00	0.0											
Transition O <sub>2</sub> Fraction	0.21		54.26	60.83	58.35	48.59	38.33	33.66	31.02	26.94	25.37	24.54	PN <sub>2</sub> (t)
Calculated Target PN <sub>2</sub>	21.78		36.15	15.30	4.40	1.63	6.58	10.09	10.32	13.43	14.58	14.96	Buffer
Initial PN <sub>2</sub> Inspired	21.78												
Target - Initial	0												
Segment 4 Conditions													
Segment Depth (FSW)	0		54.26	60.83	58.35	48.59	38.33	33.66	31.02	26.94	25.37	24.54	PN <sub>2</sub> (t)
Segment Time (Min)	0		90.41	76.14	62.75	50.22	44.92	43.75	41.34	40.37	39.95	39.49	Nxt Seg Ms
Inspired O <sub>2</sub> Fraction	0.21		90.41	76.14	62.75	50.22	44.92	43.75	41.34	40.37	39.95	39.49	Safety Ms
Calculated PN <sub>2</sub>	21.78		36.15	15.30	4.40	1.63	6.58	10.09	10.32	13.43	14.58	14.96	Buffer
-5.43													
Linear Transition Time	0.00	0.0											
Transition O <sub>2</sub> Fraction	0.21		54.26	60.83	58.35	48.59	38.33	33.66	31.02	26.94	25.37	24.54	PN <sub>2</sub> (t)
Calculated Target PN <sub>2</sub>	21.78		36.15	15.30	4.40	1.63	6.58	10.09	10.32	13.43	14.58	14.96	Buffer
Initial PN <sub>2</sub> Inspired	21.78												
Target - Initial	0												

## Multi M2

### Segment 5 Conditions

Segment Depth (FSW)	0	54.26	60.83	58.35	48.59	38.33	33.66	31.02	26.94	25.37	24.54	PN <sub>2</sub> (t)
Segment Time (Min)	0	90.41	76.14	62.75	50.22	44.92	43.75	41.34	40.37	39.95	39.49	Nxt Seg Ms
Inspired O <sub>2</sub> Fraction	0.21	90.41	76.14	62.75	50.22	44.92	43.75	41.34	40.37	39.95	39.49	Safety Ms
Calculated PN <sub>2</sub>	21.78	36.15	15.30	4.40	1.63	6.58	10.09	10.32	13.43	14.58	14.96	Buffer

-5.43

Linear Transition Time	0.00	0.0										
Transition O <sub>2</sub> Fraction	0.21	54.26	60.83	58.35	48.59	38.33	33.66	31.02	26.94	25.37	24.54	PN <sub>2</sub> (t)
Calculated Target PN <sub>2</sub>	21.78	36.15	15.30	4.40	1.63	6.58	10.09	10.32	13.43	14.58	14.96	Buffer
Initial PN <sub>2</sub> Inspired	21.78											
Target - Initial	0											

### Segment 6 Conditions

Segment Depth (FSW)	0	54.26	60.83	58.35	48.59	38.33	33.66	31.02	26.94	25.37	24.54	PN <sub>2</sub> (t)
Segment Time (Min)	0	90.41	76.14	62.75	50.22	44.92	43.75	41.34	40.37	39.95	39.49	Nxt Seg Ms
Inspired O <sub>2</sub> Fraction	0.21	90.41	76.14	62.75	50.22	44.92	43.75	41.34	40.37	39.95	39.49	Safety Ms
Calculated PN <sub>2</sub>	21.78	36.15	15.30	4.40	1.63	6.58	10.09	10.32	13.43	14.58	14.96	Buffer

-5.43

Linear Transition Time	0.00	0.0										
Transition O <sub>2</sub> Fraction	0.21	54.26	60.83	58.35	48.59	38.33	33.66	31.02	26.94	25.37	24.54	PN <sub>2</sub> (t)
Calculated Target PN <sub>2</sub>	21.78	36.15	15.30	4.40	1.63	6.58	10.09	10.32	13.43	14.58	14.96	Buffer
Initial PN <sub>2</sub> Inspired	21.78											
Target - Initial	0											

### Final Depth (FSW)

Final Air PN <sub>2</sub>	21.8	Torr Estimator:		Alt (0-20000') =		16500	Torr =	403.66	Equiv =	-15.47 FSW	
Total Dive Time (Min)	28.2										
Residual PN <sub>2</sub> (mm-min)	11719	162.408	390.48	731.295	1072.32	1324.09	1424.77	1478.78	1649.38	1723.43	1762.44
Residual PN <sub>2</sub> Index (mm)	6.25										

-5.43

Deco Time Estimate (Tot-Seg1) 5.2

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