

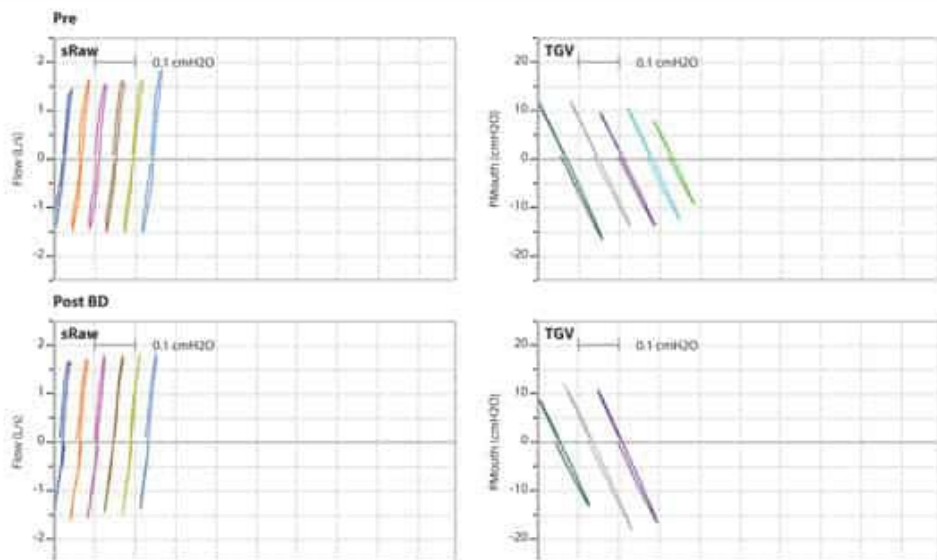


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Visit Date  
**28/03/2013**  
Protocol ID  
**17/10/2018**

Name	SUBJECT DEMO		Sex	Male	Age	46	Weight (kg)	76.00	Height (cm)	178.0
Company	COSMED		DOB	04/03/1967	Sex	Male	Smoking habit	No	Dg/Live	
Occupation	demo subject		Physician	Mr. Q	Dr. House					
Ethnic	Caucasian	ERS/VECS (Body Plethysmography)								

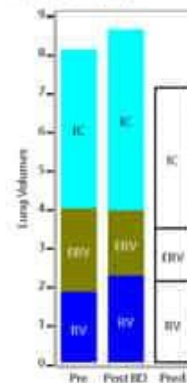
TGV/RAW post BD at 15:54 (Pre) - 16:09 (Post BD)



Name	SUBJECT DEMO		Sex	Male	Age	46	Weight (kg)	76.00	Height (cm)	178.0
Protocol	04/03/1967		ERS/VECS (Body Plethysmography)							

PRE POST BD (Salbutamol) 400 mcg

		Meas.	Normal Range	Pred	% Pred	z score	Meas.	Change	% Change	% Pred	z score
sRaw	cmH2O/s	5.21	< 12.00	-	-	-	4.98	-0.23	-4	-	-
Raw	cmH2O*s/L	1.35	< 2.24	-	-	-	1.35	-0.11	-8	-	-
sGaw	l/cmH2O/s	0.20	> 0.08	-	-	-	0.22	0.02	8	-	-
Gaw	l/cmH2O/s	0.77	> 0.45	-	-	-	0.87	0.09	12	-	-
FRCP(pleth)	L	4.02	2.50 - 4.48	3.49	115	0.88	3.86	-0.06	-1	113	0.78
Raw Tot	cmH2O*s/L	2.44	< 3.06	-	-	-	1.96	-0.47	-19	-	-
Raw ins	cmH2O*s/L	2.06	-	-	-	-	2.14	0.09	4	-	-
Raw exp	cmH2O*s/L	1.47	-	-	-	-	1.60	-0.07	-4	-	-
ERV	L	2.16	-	1.38	157	-	1.68	-0.48	-22	122	-
IC	L	4.12	-	3.65	113	-	4.70	0.58	14	129	-
VC	L	6.28	3.51 - 5.21	4.36	144	-	6.39	0.11	2	146	-
TLC(Pleth)	L	8.13	5.99 - 8.29	7.14	114	1.42	8.66	0.52	6	121	2.17
RV(Pleth)	L	1.85	1.44 - 2.79	2.11	88	-0.63	2.27	0.42	22	107	0.38
RV/TLC(Pleth)	%	22.8	22.9 - 40.9	31.9	71	-1.67	26.2	3.4	15	82	-1.04
FRCP(Pleth)/TLC(Pleth)	%	48	42 - 65	53	92	-0.61	46	-4	-7	85	-1.15



Operator OC Pre: A Y C R S T Operator OC Post: X B C D E F



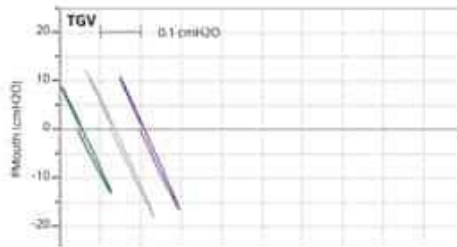
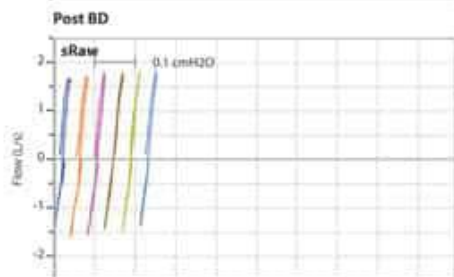
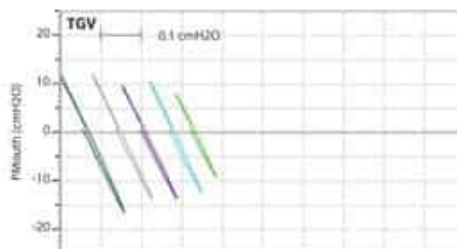
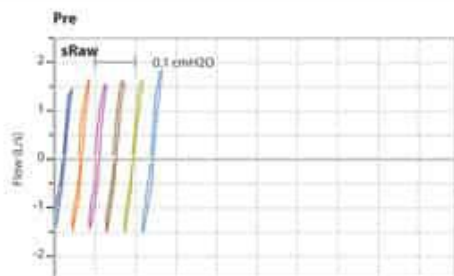
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Occupation	demo subject		Physician	Mr. Q	Dr. House					
Ethnic	Caucasian		Test	ERS/VECS (Body Plethysmography)						

TGV/RAW post BD

at 15:54 (Pre) - 16:09 (Post BD)

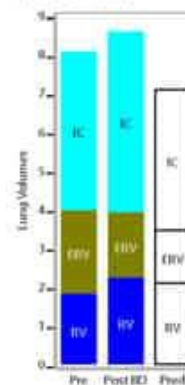


Name	SUBJECT DEMO		Sex	Male	Age	46	Weight (kg)	76.00	Height (cm)	178.0
Protocol	04/03/1967		Test	ERS/VECS (Body Plethysmography)						

PRE

POST BD (Salbutamol) 400 mcg

		Meas.	Normal Range	Pred	% Pred	z score	Meas.	Change	% Change	% Pred	z score
sRaw	cmH2O*s	5.21	< 12.00	-	-	-	4.98	-0.23	-4	-	-
Raw	cmH2O*s/L	1.35	< 2.24	-	-	-	1.35	-0.11	-8	-	-
sGaw	l/cmH2O/s	0.20	> 0.08	-	-	-	0.22	0.02	8	-	-
Gaw	l/cmH2O/s	0.77	> 0.45	-	-	-	0.87	0.09	12	-	-
FRCP(pleth)	L	4.02	2.50 - 4.48	3.49	115	0.88	3.86	-0.06	-1	113	0.78
Raw Tot	cmH2O*s/L	2.44	< 3.06	-	-	-	1.96	-0.47	-19	-	-
Raw ins	cmH2O*s/L	2.06	-	-	-	-	2.14	0.09	4	-	-
Raw exp	cmH2O*s/L	1.67	-	-	-	-	1.60	-0.07	-4	-	-
ERV	L	2.16	-	1.38	157	-	1.68	-0.48	-22	122	-
IC	L	4.12	-	3.65	113	-	4.70	0.58	14	129	-
VC	L	6.28	3.51 - 5.21	4.36	144	-	6.39	0.11	2	146	-
TLC(Pleth)	L	8.13	5.99 - 8.29	7.14	114	1.42	8.66	0.52	6	121	2.17
RV(Pleth)	L	1.85	1.44 - 2.79	2.11	88	-0.63	2.27	0.42	22	107	0.38
RV/TLC(Pleth)	%	22.8	22.9 - 40.9	31.9	71	-1.67	26.2	3.4	15	82	-1.04
FRCP(Pleth)/TLC(Pleth)	%	48	42 - 65	53	92	-0.61	46	-4	-7	85	-1.15



Operator OC Pre:

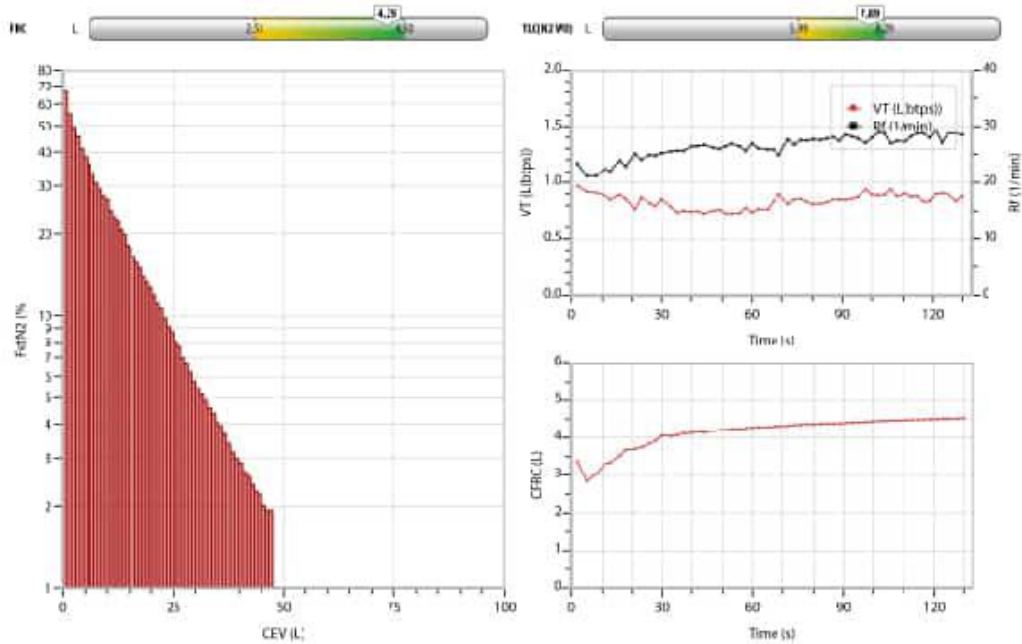
A B C D E F

Operator OC Post:

A B C D E F

Name: <b>SUBJECT DEMO</b>		ID: <b>---</b>	Gender: <b>Male</b>	Age: <b>49</b>	Weight (kg): <b>77.00</b>	Height (cm): <b>178.0</b>
Company: <b>COSMED</b>		D.O.B: <b>04/03/1967</b>	SSN: <b>---</b>	BMI (kg/m <sup>2</sup> ): <b>24.3</b>	Smoke: <b>---</b>	Teeth: <b>---</b>
Occupation: <b>demo subject</b>		Operator: <b>Mr. Hyde</b>	Physician: <b>Dr. Jekyll</b>			
Ethnic: <b>Caucasian</b>	Room: <b>---</b>	Set: <b>ERS 93 (N2WO) (Nitrogen Washout (Multi and Single Breath))</b>				

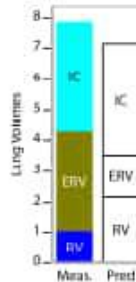
**N2 Multi-Breath Washout** @ 12:42



**N2 Multi-Breath Washout Results**

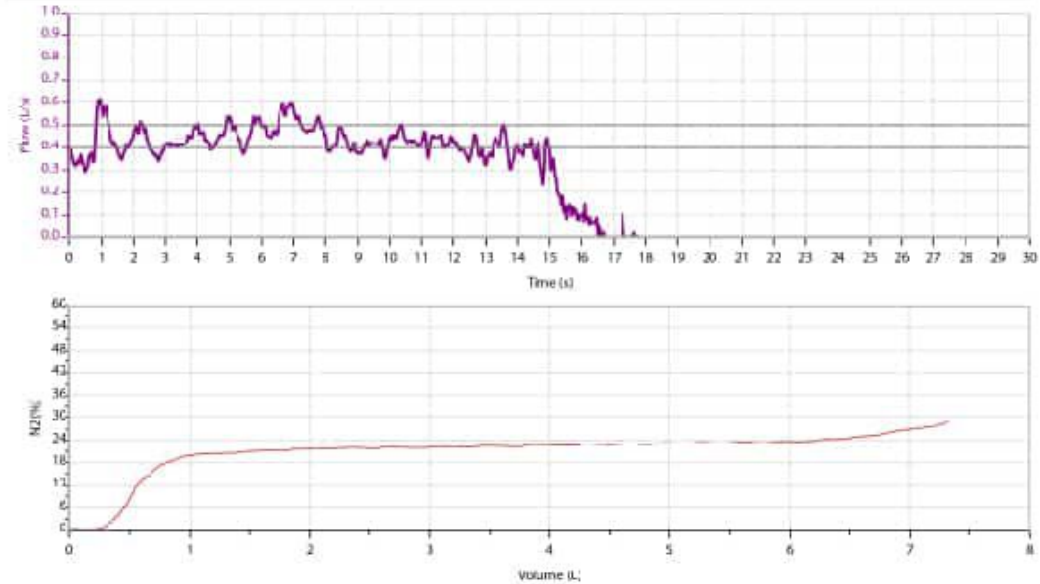
	Meas.	Normal Range	Pred	% Pred	z score	
FRC	L	4.29	2.53 - 4.30	3.52	122	1.29
TLC(N2 WO)	L	7.89	5.99 - 8.29	7.14	110	1.07
RV(N2 WO)	L	1.05	1.51 - 2.35	2.18	48	-2.76
RV/TLC(N2 WO)	%	13.3	24.1 - 41.1	33.1	40	-3.63
FRC/TLC(N2 WO)	%	54.3	43.0 - 65.2	54.1	100	0.04
LCI	---	8.16	5.82 - 6.91	6.37	128	5.44
VC	L	6.84	3.94 - 6.13	3.03	136	2.70

System QC: **D** Barely Passing  
Operator QC: **D**



Name: <b>SUBJECT DEMO</b>		ID: <b>---</b>	Gender: <b>Male</b>	Age: <b>49</b>	Weight (kg): <b>77.00</b>	Height (cm): <b>178.0</b>
Company: <b>COSMED</b>		D.O.B: <b>04/03/1967</b>	SSN: <b>---</b>	BMI (kg/m <sup>2</sup> ): <b>24.3</b>	Smoke: <b>---</b>	Teeth: <b>---</b>
Occupation: <b>demo subject</b>		Operator: <b>Mr. Hyde</b>	Physician: <b>Dr. Jekyll</b>			
Ethnic: <b>Caucasian</b>	Room: <b>---</b>	Set: <b>ERS 93 (N2WO) (Nitrogen Washout (Multi and Single Breath))</b>				

**N2 Single-Breath Washout** @ 12:47



**N2 Single-Breath Washout Results**

	Meas.	Normal Range	Pred	% Pred	z score
CV	mL	920	---	---	---
VL(CV)	mL	7330	---	---	---
CV/VC(CV)%	%	12.55	---	18.06	70
CC	L	1.97	---	---	---
SII	%/L	0.4788	---	---	---
V_I	mL	120	---	---	---
V_II	mL	1070	---	---	---
V_III	mL	6410	---	---	---
ΔN2	%	3.43	---	1.20	286

System QC: **F** Failing  
Operator QC: **F**



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Test date: 19/02/2015  
Report date: 04/08/2015

Name	SUBJECT DEMO		Gender	Female	Age	67	Height (kg)	52.0	Weight (kg)	160
Company	COSMED		DOB	04/03/1947	SN	---	HR Regm <sup>2</sup>	203	Smoker	No
Occupation	demo subject		Technician	---	Physician	Mr. U	Years	---	Cap/Day	---
Ethnic	Caucasian	Room	CPET	Wasserman (Exercise Testing (Clinical))						

Exercise (SP Panel) @ 15.01

Test Information

Test Duration:	15:03	Max Effort Confirmed:	No	PR (mmHg):	768
Exercise Duration:	09:24	Reason for test:	Exercise Capacity	RH_amb(%):	36
Subject type:	Clinical	Reason for stopping test:	Leg fatigue	RH_How(%):	100
Test type:	Maximal	Test Purpose:	Educational	Flowm. Temp. (°C):	34.0
Test Position:	Sitting	ECG Response:	Normal	HTPS Exp. (---):	1.020
Ergometer:	Ergoline900	Flowmeter:	Turbine 28mm	BTPS Ins. (---):	1.100
Protocol Name:	None	Amb. Temp. (°C):	24.0	SPD (---):	0.8354

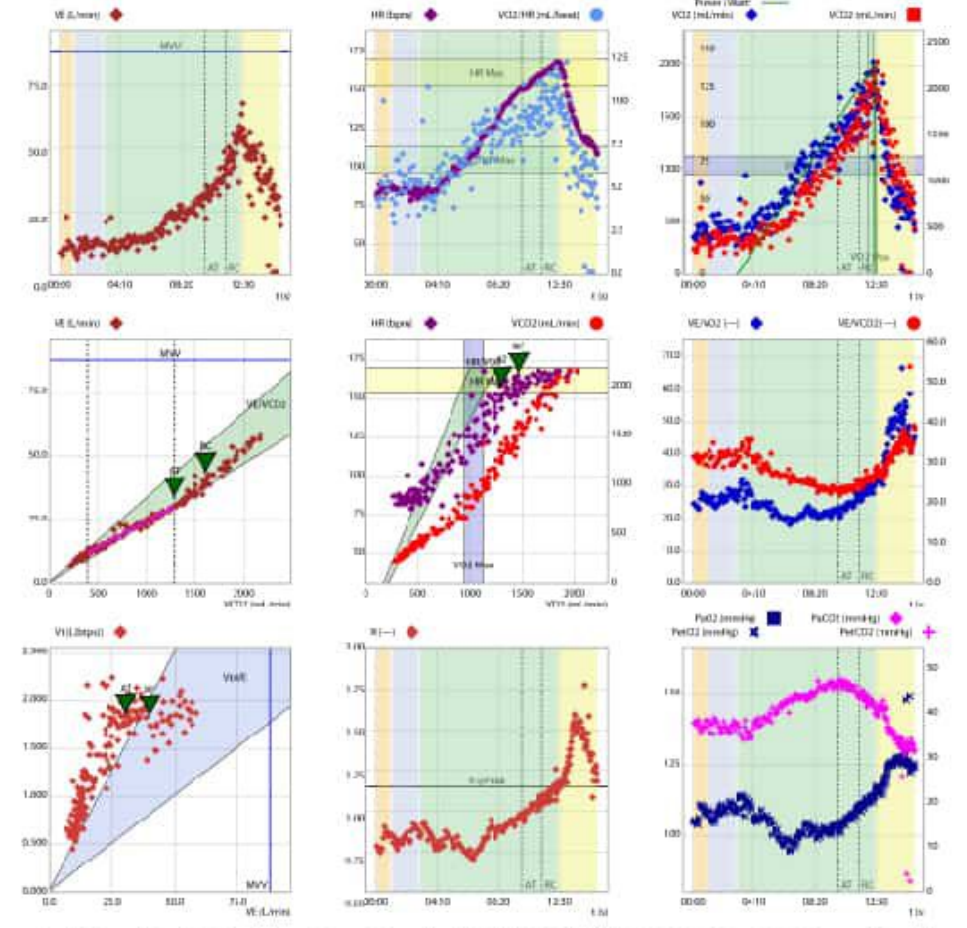


Interpretation  
At peak of exercise respiratory exchange ratio is 1.13, heart rate is 110% of predicted. Subject did not achieve maximal effort. Maximum oxygen uptake is 1723 mL/min (152% of the predicted value) indicating a normal Aerobic Exercise Capacity. Anaerobic threshold has been identified at 1304 mL/min and at 115% of the VO2max predicted (76% of measured VO2max), which is normal. VE/VO2 slope is 20.3 and VE/VO2@AT is 23.7, which are both within normal range. This indicates a normal ventilatory efficiency. Breathing Reserve at peak exercise is 38.8%, which is normal. This indicates an absence of exercise ventilatory limitation. Heart rate reserve is 2 bpm, which is normal. Heart rate recovery after 1 minute is 36 bpm, which is normal. VO2/WR slope is 10.00 mL/min/Watt. This indicates a normal aerobic work efficiency. Oxygen pulse at peak exercise is 10.3 mL/beat, corresponding to 138% of predicted which is normal. SpO2 during exercise did not significantly decrease. Exercise ECG response is normal.

Confirms Report Signature: \_\_\_\_\_

Protocol	Meas	Rest	Warm Up	AT	FC	Max	Normal	Class
<b>Power</b>	Watt	0	104	125	142	---	---	---
<b>Revelution</b>	RPM	59	57	41	54	---	---	---
<b>Metabolic</b>	Meas	Rest	Warm Up	AT	FC	Max	Normal	Class
VO2	mL/min	456	439	1304	1468	1723	> 95.1	Normal
VO2/Kg	mL/min/Kg	8.8	8.4	25.1	29.2	33.1	> 18.1	Normal
METS	---	2.5	2.4	7.2	8.1	9.5	> 5.2	Normal
R	---	0.82	0.86	0.99	1.10	1.13	> 1.10	Maximal
<b>Ventilatory</b>	Meas	Rest	Warm Up	AT	FC	Max	Normal	Class
VE/VO2 slope	---	20.3	---	---	---	---	< 33.2	Normal
OUES	mL/min/Watt	2009	---	---	---	---	> 1400	---
VE	L/min	11.7	12.0	30.5	42.1	53.7	---	---
BR	%	---	---	65.2	54.3	38.8	> 15.0	Normal
<b>Cardiovascular</b>	Meas	Rest	Warm Up	AT	FC	Max	Normal	Class
HR	bpm	85	83	152	161	168	> 138	Normal
HRR	bpm	---	---	---	---	---	< 15	Normal
HRR_1_minute	bpm	---	---	---	---	---	> 12	Normal
VO2/WR Slope	mL/min/Watt	10.00	---	---	---	---	> 8.49	Normal, Continual Rise
VO2/HR	mL/beat	5.3	5.3	8.6	9.1	10.3	> 5.5	Normal, Continual Rise Throughout Exercise
<b>Gas Exchange</b>	Meas	Rest	Warm Up	AT	FC	Max	Normal	Class
VO2@AT	mL/min	1304	---	---	---	---	> 454	Normal
PeiCO2	mmHg	38	37	46	44	40	---	---
VE/VO2	---	---	---	23.7	24.9	28.6	< 34.0	Normal

Name	SUBJECT DEMO		Gender	Female	Age	67	Weight (kg)	52.0	Height (cm)	160
DOB	04/03/1947		SN	---	Wasserman (Exercise Testing (Clinical))					



t	VO2@AT	VO2	VO2@	R	VE	BR	Vr	VO2@HR	VRVVO2	VE/VO2	PeiCO2	PeCO2	SpO2	Power	HR	RR
Time	mL/min/Kg	mL/min	mL/min	---	L/min	%	L/beat	mL/beat	---	---	mmHg	mmHg	%	Watt	bpm	---
00:03	7.1	359	289	0.78	9.2	13.1	0.698	4.2	24.9	31.7	105	38	97	0	82	Rest
00:08	7.1	359	287	0.78	9.3	13.2	0.812	4.7	24.5	31.5	106	38	97	0	84	Rest
00:13	6.5	319	258	0.76	8.2	13.7	0.600	4.0	24.3	31.9	105	38	97	0	84	Rest
00:16	7.7	402	300	0.75	9.7	16.1	0.602	4.5	24.1	32.2	105	38	97	0	89	Rest
00:20	9.2	476	363	0.76	11.1	14.6	0.764	5.4	23.4	30.6	104	39	97	0	85	Rest
00:24	8.7	434	349	0.77	10.6	16.2	0.652	5.2	23.3	30.3	106	37	97	0	85	Rest
00:30	14.0	820	724	0.82	23.1	10.7	2.148	10.1	26.3	21.5	111	36	98	0	87	Rest
00:35	7.3	330	343	0.90	10.7	11.3	0.948	4.3	28.2	31.3	110	37	98	0	85	Rest
00:39	9.4	471	425	0.87	13.5	15.5	0.870	5.8	27.5	31.8	111	37	98	0	84	Rest
00:43	7.9	372	355	0.88	11.3	13.8	0.818	4.3	27.5	31.9	110	37	98	0	84	Rest
00:48	9.0	468	407	0.87	12.1	12.0	1.013	5.4	25.9	29.8	108	39	98	0	85	Rest
00:52	8.1	422	356	0.84	11.5	14.5	0.789	4.5	27.2	32.2	109	37	98	0	85	Rest
00:57	8.9	453	393	0.85	11.7	13.3	0.883	5.4	25.3	29.8	108	39	98	0	85	Rest
01:04	7.4	332	327	0.86	9.5	8.3	1.159	4.7	25.1	29.4	107	39	98	0	85	Warmup
01:08	6.1	315	254	0.81	8.4	14.8	0.728	4.4	26.7	31.2	106	39	98	0	84	Warmup
01:14	5.1	294	221	0.84	8.2	10.5	0.659	3.0	26.2	31.3	106	38	98	0	87	Warmup
01:18	6.9	330	285	0.79	9.3	14.2	0.634	4.2	25.0	31.6	105	38	98	0	85	Warmup
01:22	11.1	577	453	0.79	14.4	17.3	0.823	6.3	23.0	31.8	103	38	98	0	80	Warmup