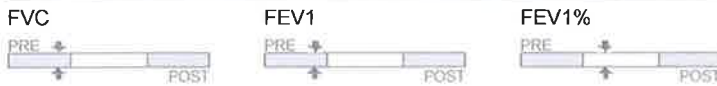


Pulmonary Function Test Results

Visit date 3/30/2017

Patient code	██████████	Age	65
Surname	██████	Gender	Female
Name	██████	Height, cm	176
Date of birth	██████	Weight, kg	82
Ethnic group	Caucasian	BMI	26.47
Smoke		Pack-Year	
Patient group			

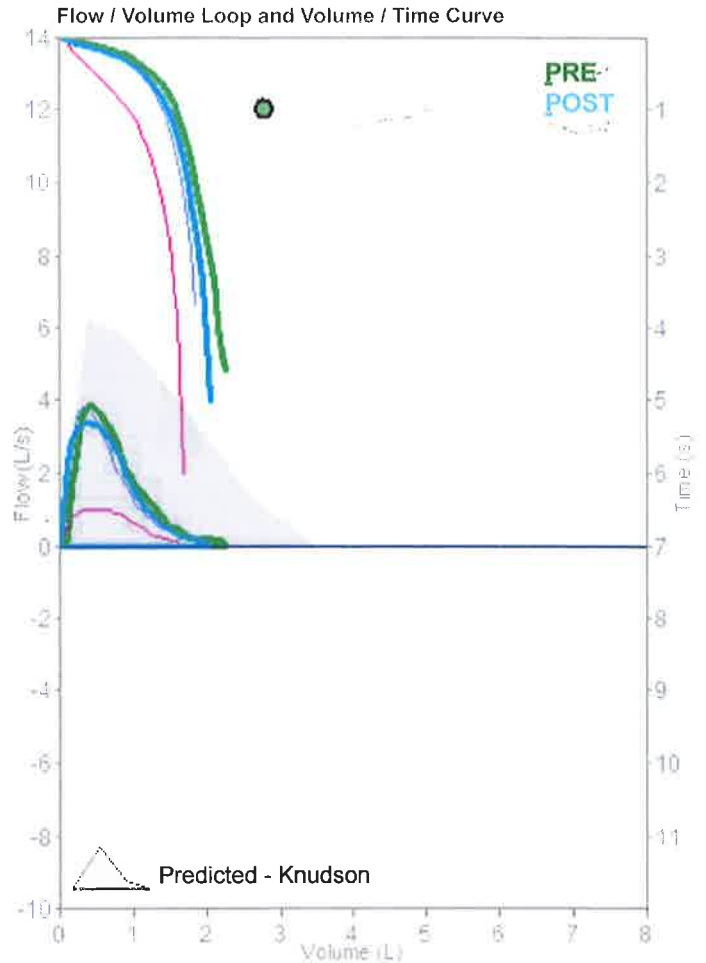
Interpretation



Moderate Restriction
No Significant Bronchodil.

Best values from all loops

Parameters	LLN	ULN	PRE	%Pred	Z-score	POST	%Chg
FVC L	2.73	4.32	2.27	64	-2.59	2.10	-7
FEV1 L	2.14	3.43	1.60	57	-3.04	1.49	-7
FEV1% %	64.1	87.5	70.50	93	-0.75	71.00	-1
PEF L/s	3.62	8.91	3.91	62	-1.47	4.15	6



PRE Trial date 3/30/2017 1:07:05 PM

Parameters	LLN	ULN	Pred	PRE # 1	%Pred	Z-score	PRE # 2	PRE # 3	POST#1	%Pred	%Chg
FVC L	2.73	4.32	3.52	2.27	64	-2.59	1.94	1.70	2.07	59	-9
FEV1 L	2.14	3.43	2.79	1.60	57	-3.04	1.42	0.98	1.49	53	-7
FEV1/VC %	64.1	87.5	75.8	70.5	93	-0.75	73.2	57.6	72.0	95	2
FEV1/FVC %	64.1	87.5	75.8	70.5	93	-0.75	73.2	57.6	72.0	95	2
PEF L/s	3.62	8.91	6.26	3.91	62	-1.47	3.83	1.04	3.39	54	-13
FEF2575 L/s	1.46	4.27	2.87	1.09	38	-2.08	1.11	0.75	1.09	38	0
ELA Years			65	127	195		137	160	133	205	5
FET s			6.00	4.58	76		3.91	6.03	5.01	84	9
EVol mL				160			40	70	40		-75
FIVC L	2.73	4.32	3.52								

BTPS 1.097 24 °C 75.2 °F

Conclusion / Medical report

Quality Report

C

Repeatable PEF

Signature

Instrument used
Minispir II S/N C00898

Pulmonary Function Test Results

Visit date 2/16/2017

Patient code	██████████	Age	7
Surname	██████████	Gender	Male
Name	██████████	Height, cm	133
Date of birth	██████████	Weight, kg	25
Ethnic group	Caucasian	BMI	14.13
Smoke	No smoker	Pack-Year	
Patient group			

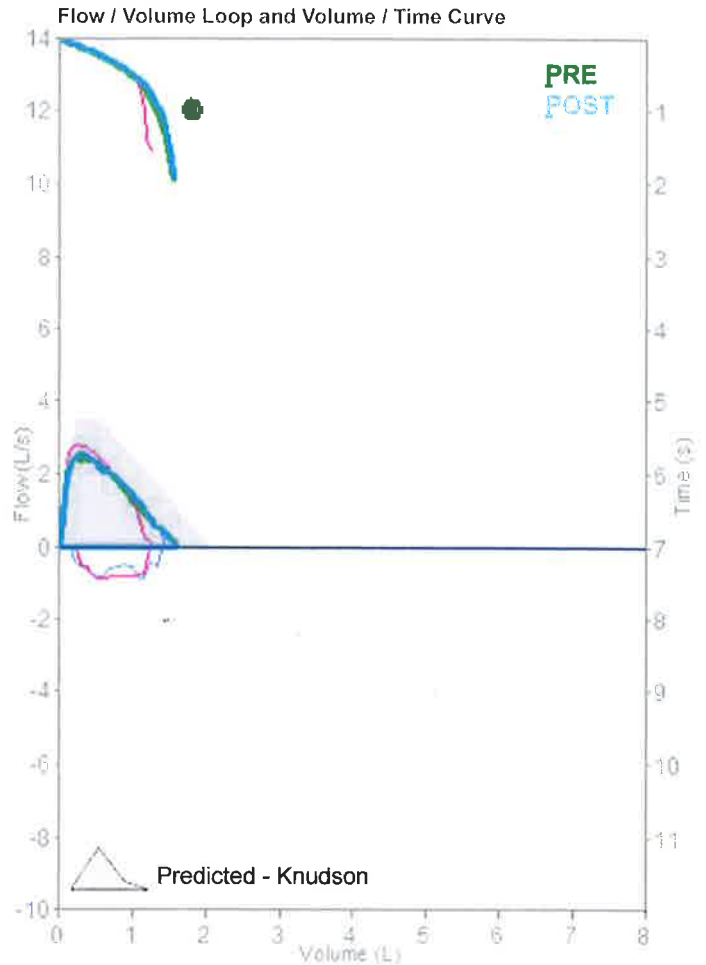
Interpretation



Mild Restriction
No Significant Bronchodil.

Best values from all loops

Parameters	LLN	ULN	PRE	%Pred	Z-score	POST	%Chg
FVC L	1.48	2.65	1.56	76	-1.43	1.59	2
FEV1 L	1.36	2.26	1.39	77	-1.55	1.40	1
FEV1% %	80.1	101.4	89.10	98	-0.25	88.10	-1
PEF L/s	0.76	6.20	2.84	82	-0.38	2.52	-11



PRE Trial date 2/16/2017 3:01:57 PM

Parameters		LLN	ULN	Pred	PRE # 1	%Pred	Z-score	PRE # 2	PRE # 3	POST#1	%Pred	%Chg
FVC	L	1.48	2.65	2.06	1.56	76	-1.43	1.41	1.27	1.57	76	1
FEV1	L	1.36	2.26	1.81	1.39	77	-1.55	1.36	1.20	1.40	77	1
FEV1/VC	%	80.0	101.4	90.7								
FEV1/FVC	%	80.1	101.4	90.7	89.1	98	-0.25	96.5	94.5	89.2	98	0
PEF	L/s	0.76	6.20	3.48	2.47	71	-0.61	2.56	2.84	2.52	72	2
FEF2575	L/s	1.14	3.21	2.18	1.69	78	-0.77	2.00	2.34	1.71	79	1
ELA	Years			7								
FET	s			6.00	1.94	32		1.13	1.57	1.93	32	-1
EVol	mL							30		30		
FIVC	L	1.48	2.65	2.06				1.20	0.97			

BTPS 1.092 25 °C 77 °F

Conclusion / Medical report

Quality Report C
Repeatable FEV1, Repeatable PEF

Signature

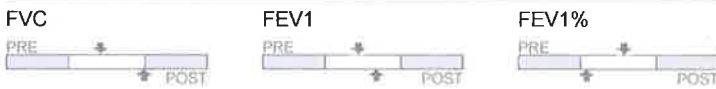
Instrument used
Minispir II S/N C00898

Pulmonary Function Test Results

Visit date 4/20/2017

Patient code	██████████	Age	67
Surname	██████████	Gender	Female
Name	██████████	Height, cm	161
Date of birth	██████████	Weight, kg	83
Ethnic group	Caucasian	BMI	32.02
Smoke	No smoker	Pack-Year	
Patient group			

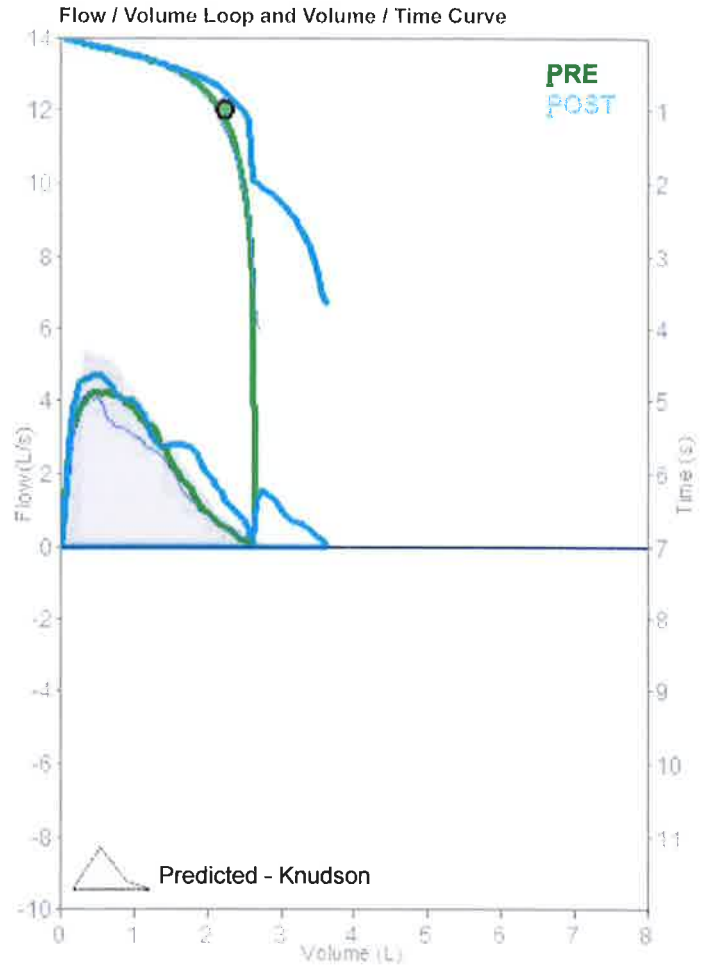
Interpretation



Mild Obstruction
Significant Bronchodil. (FEV1 >= 80%Pred.)

Best values from all loops

Parameters	LLN	ULN	PRE	%Pred	Z-score	POST	%Chg
FVC L	2.03	3.62	2.68	95	-0.29	3.61	35
FEV1 L	1.61	2.89	2.16	96	-0.23	2.49	15
FEV1% %	67.3	90.7	80.60	102	0.23	69.00	-14
PEF L/s	2.84	8.12	4.33	79	-0.72	4.99	15



PRE Trial date 4/20/2017 2:05:02 PM

Parameters	LLN	ULN	Pred	PRE # 1	%Pred	Z-score	PRE # 2	PRE # 3	POST#1	%Pred	%Chg
FVC L	2.03	3.62	2.82	2.65	94	-0.35	2.68		3.61	128	36
FEV1 L	1.61	2.89	2.25	2.16	96	-0.23	2.08		2.49	111	15
FEV1/VC %	67.3	90.7	79.0								
FEV1/FVC %	67.3	90.7	79.0	81.5	103	0.36	77.6		69.0	87	-15
PEF L/s	2.84	8.12	5.48	4.33	79	-0.72	4.19		4.74	87	9
FEF2575 L/s	0.95	3.76	2.35	2.36	100	0.01	1.95		1.42	60	-40
ELA Years			67	72	107		76		67	100	-7
FET s			6.00	6.77	113		4.06		3.66	61	-46
EVol mL				60			150		50		-17
FIVC L	2.03	3.62	2.82								

BTPS 1.078 28 °C 82.4 °F

Conclusion / Medical report

Quality Report A

Repeatable FVC, Repeatable FEV1, Repeatable PEF

Signature

Instrument used
Minispir II S/N C00898

Pulmonary Function Test Results

Visit date 12/14/2016

Patient code	██████████	Age	76
Surname	██████	Gender	Female
Name	██████████	Height, cm	157
Date of birth	██████████	Weight, kg	40
Ethnic group	Caucasian	BMI	16.23
Smoke		Pack-Year	
Patient group			

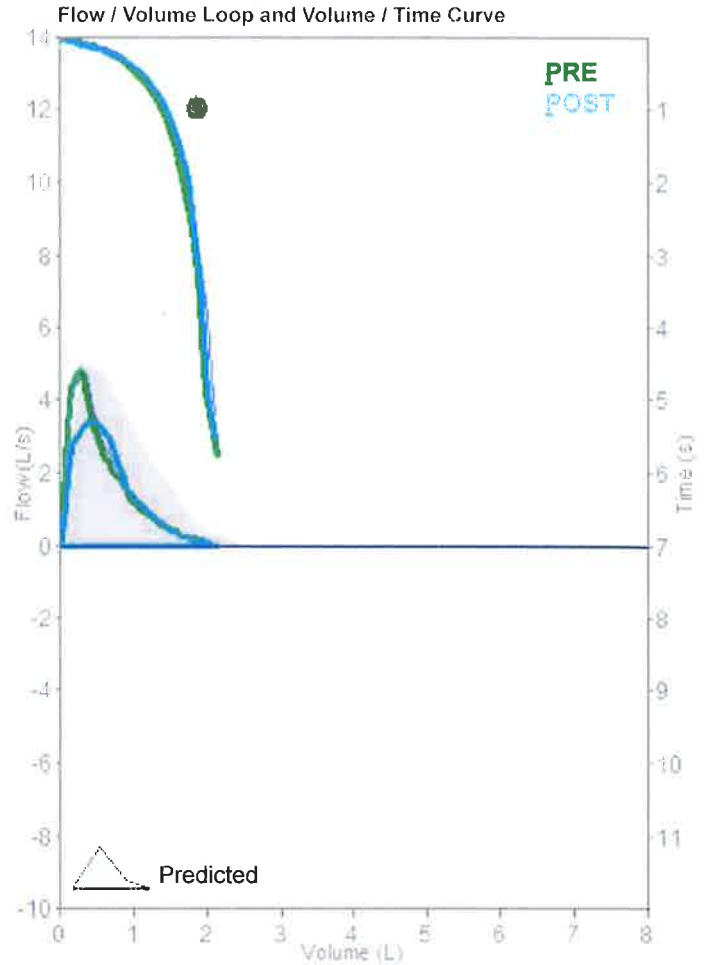
Interpretation



Mild Obstruction
 No Significant Bronchodil.
 WARNING: FEF2575 PRE = 55%Pred.

Best values from all loops

Parameters	LLN	ULN	PRE	%Pred	Z-score	POST	%Chg
FVC L	1.53	3.42	2.13	86	-0.60	2.12	0
FEV1 L	1.26	2.50	1.46	78	-1.12	1.45	-1
FEV1% %	66.7	89.8	68.50	88	-1.38	68.40	0
PEF L/s	2.42	7.70	4.86	96	-0.12	3.46	-29



PRE Trial date 12/14/2016 10:07:00 AM

Parameters		LLN	ULN	Pred	PRE # 1	%Pred	Z-score	PRE # 2	PRE # 3	POST#1	%Pred	%Chg
FVC	L	1.53	3.42	2.48	2.13	86	-0.60	2.10		2.12	86	0
FEV1	L	1.26	2.50	1.88	1.46	78	-1.12	1.46		1.45	77	-1
FEV1/VC	%	66.7	89.8	78.2								
FEV1/FVC	%	66.7	89.8	78.2	68.5	88	-1.38	69.5		68.4	87	0
PEF	L/s	2.42	7.70	5.06	4.84	96	-0.14	4.86		3.46	68	-29
FEF2575	L/s	0.51	2.88	1.70	0.94	55	-1.05	0.98		0.92	54	-2
ELA	Years			76	87	114		87		87	114	0
FET	s			6.00	5.75	96		5.22		5.55	93	-3
EVol	mL							60		40		
FIVC	L	1.53	3.42	2.48								

BTPS 1.092 25 °C 77 °F

Conclusion / Medical report

Quality Report A

Repeatable FVC, Repeatable FEV1, Repeatable PEF

Signature

Instrument used
 Minispir II S/N C00898

- Pulmonary Function Test Results

Visit date 10/31/2016

Patient code	██████████	Age	37
Surname	██████	Gender	Male
Name	██████	Height, cm	181
Date of birth	██████	Weight, kg	74
Ethnic group	Caucasian	BMI	22.59
Smoke	No smoker	Pack-Year	
Patient group			

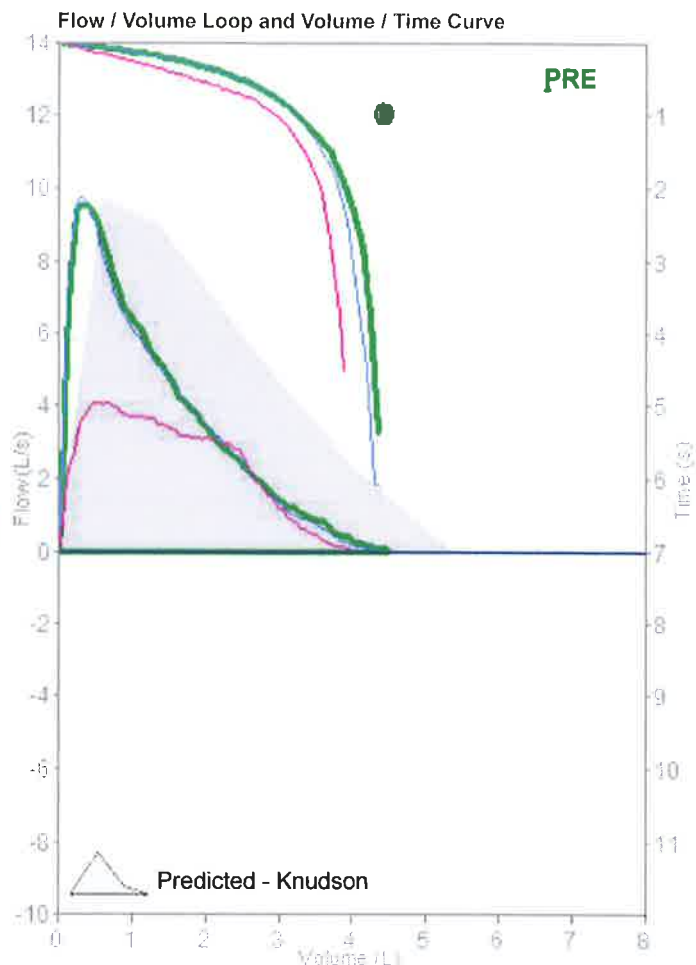
Interpretation



Normal Spirometry
WARNING: FEF2575 PRE = 55%Pred.

Best values from all loops

Parameters	LLN	ULN	PRE	%Pred	Z-score	POST	%Chg
FVC L	4.34	6.44	4.49	83	-1.41		
FEV1 L	3.58	5.30	3.32	75	-2.14		
FEV1% %	72.3	92.6	73.90	90	-1.38		
PEF L/s	6.31	13.15	9.78	101	0.03		



PRE Trial date 10/31/2016 4:39:19 PM

Parameters	LLN	ULN	Pred	PRE # 1	%Pred	Z-score	PRE # 2	PRE # 3	POST#1	%Pred	%Chg
FVC L	4.34	6.44	5.39	4.49	83	-1.41	4.40	3.97			
FEV1 L	3.58	5.30	4.44	3.32	75	-2.14	3.26	3.02			
FEV1/VC %	72.3	92.6	82.4	73.9	90	-1.38	74.1	76.1			
FEV1/FVC %	72.3	92.6	82.4	73.9	90	-1.38	74.1	76.1			
PEF L/s	6.31	13.15	9.73	9.55	98	-0.08	9.78	4.11			
FEF2575 L/s	2.84	6.40	4.62	2.56	55	-1.90	2.51	2.79			
ELA Years			37	75	203		77	86			
FET s			6.00	5.61	94		6.10	4.99			
EVOL mL				60			50	80			
FIVC L	4.34	6.44	5.39								

BTPS 1.082 27 °C 80.6 °F

Conclusion / Medical report

Quality Report B

Repeatable FVC, Repeatable FEV1, Repeatable PEF

Signature

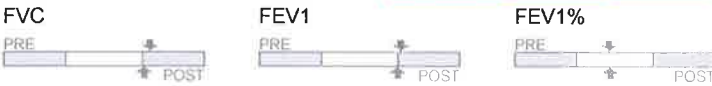
Instrument used
Minispir II S/N C00898

Pulmonary Function Test Results

Visit date 5/24/2017

Patient code	██████████	Age	49
Surname	██████████	Gender	Female
Name	██████████	Height, cm	160
Date of birth	██████████	Weight, kg	86
Ethnic group	Caucasian	BMI	33.59
Smoke	Ex-smoker	Pack-Year	30
Patient group			

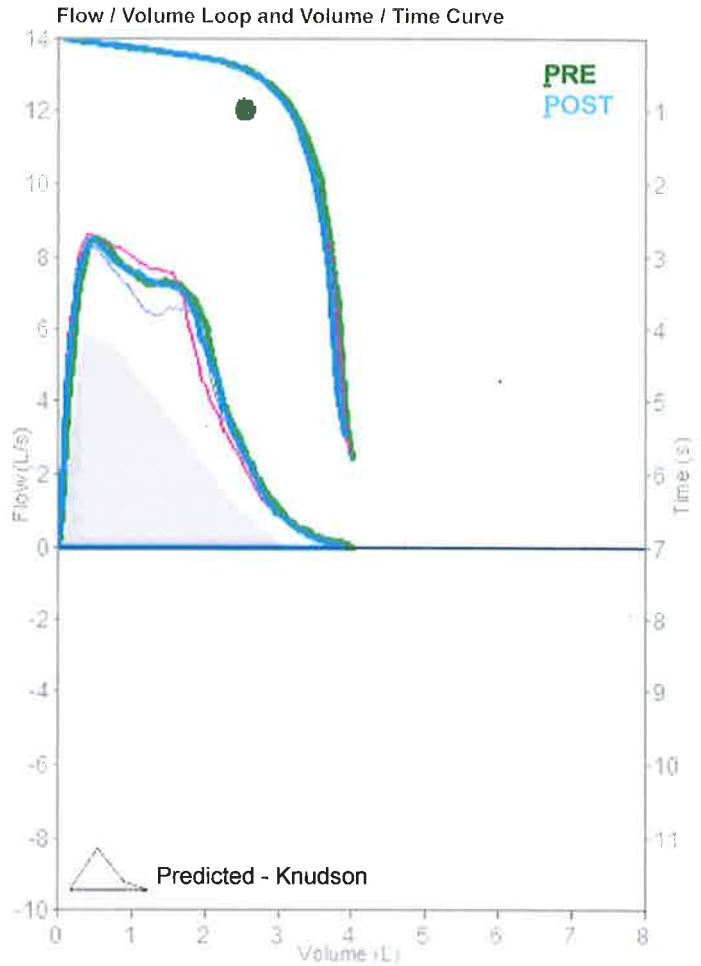
Interpretation



Normal Spirometry
No Significant Bronchodil.

Best values from all loops

Parameters	LLN	ULN	PRE	%Pred	Z-score	POST	%Chg
FVC L	2.29	3.88	4.02	130	1.94	3.92	-2
FEV1 L	1.92	3.20	3.25	127	1.77	3.19	-2
FEV1% %	71.2	94.5	80.80	98	-0.29	81.40	1
PEF L/s	3.24	8.52	8.63	147	1.71	8.95	4



PRE Trial date 5/24/2017 1:55:28 PM

Parameters	LLN	ULN	Pred	PRE # 1	%Pred	Z-score	PRE # 2	PRE # 3	POST#1	%Pred	%Chg
FVC L	2.29	3.88	3.08	4.02	130	1.94	3.98	3.96	3.91	127	-3
FEV1 L	1.92	3.20	2.56	3.25	127	1.77	3.20	3.17	3.19	125	-2
FEV1/VC %	71.2	94.5	82.8								
FEV1/FVC %	71.2	94.5	82.8	80.8	98	-0.29	80.4	80.1	81.6	99	1
PEF L/s	3.24	8.52	5.88	8.53	145	1.65	8.26	8.63	8.49	144	0
FEF2575 L/s	1.48	4.29	2.88	3.67	127	0.93	3.40	3.23	3.68	128	0
ELA Years			49	49	100		49	49	49	100	0
FET s			6.00	5.79	97		5.83	5.71	5.47	91	-6
EVol mL				80			80	60	80		0
FIVC L	2.29	3.88	3.08								

BTPS 1.092 25 °C 77 °F

Conclusion / Medical report

Quality Report

A

Repeatable FVC, Repeatable FEV1, Repeatable PEF

Signature

Instrument used
Minispir II S/N C00898

Pulmonary Function Test Results

Visit date 10/28/2016

Patient code	██████████	Age	11
Surname	██████████	Gender	Male
Name	██████████	Height, cm	138
Date of birth	██████████	Weight, kg	29
Ethnic group	Caucasian	BMI	15.23
Smoke	No smoker	Pack-Year	
Patient group			

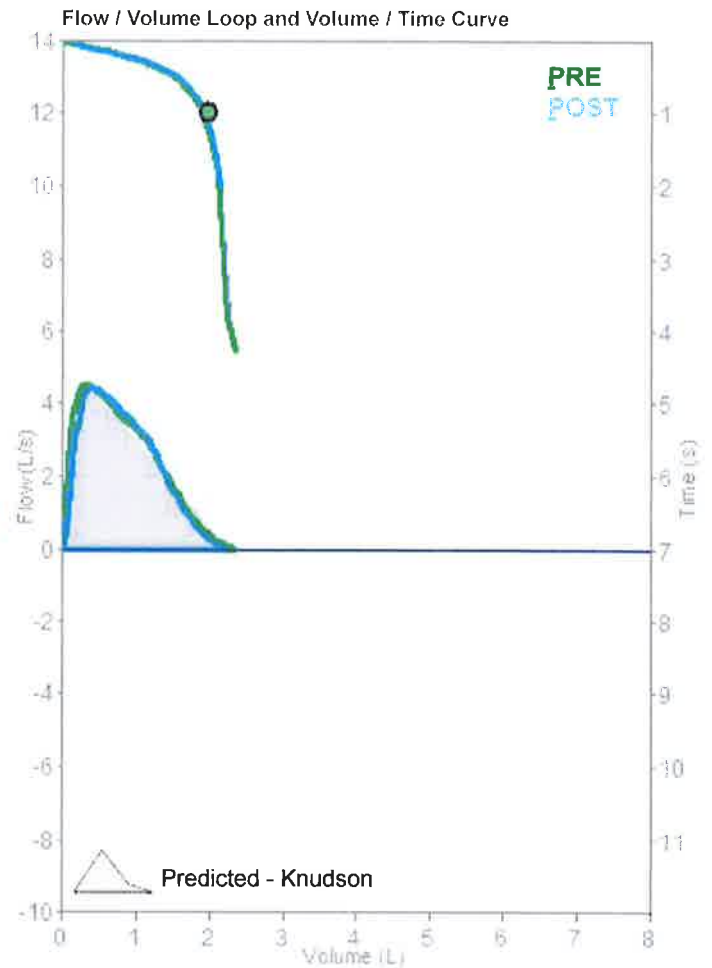
Interpretation



Normal Spirometry
No Significant Bronchodil.

Best values from all loops

Parameters	LLN	ULN	PRE	%Pred	Z-score	POST	%Chg
FVC L	1.69	2.85	2.34	103	0.20	2.21	-6
FEV1 L	1.54	2.44	1.96	99	-0.10	1.91	-3
FEV1% %	79.2	100.5	83.80	93	-0.94	86.40	3
PEF L/s	1.81	7.25	4.53	100	0.00	4.46	-2



PRE Trial date 10/28/2016 4:22:55 PM

Parameters	LLN	ULN	Pred	PRE # 1	%Pred	Z-score	PRE # 2	PRE # 3	POST#1	%Pred	%Chg
FVC L	1.69	2.85	2.27	2.34	103	0.20	2.27		2.21	97	-6
FEV1 L	1.54	2.44	1.99	1.96	99	-0.10	1.92		1.91	96	-3
FEV1/VC %	79.2	100.6	89.9								
FEV1/FVC %	79.2	100.5	89.9	83.8	93	-0.94	84.6		86.4	96	3
PEF L/s	1.81	7.25	4.53	4.53	100	0.00	4.38		4.46	98	-2
FEF2575 L/s	1.31	3.38	2.34	2.38	102	0.06	2.29		2.57	110	8
ELA Years				11							
FET s			6.00	4.26	71		3.95		2.69	45	-37
EVol mL							40		70		
FIVC L	1.69	2.85	2.27								

BTPS 1.082 27 °C 80.6 °F

Conclusion / Medical report

Quality Report **A**

Repeatable FVC, Repeatable FEV1, Repeatable PEF

Signature

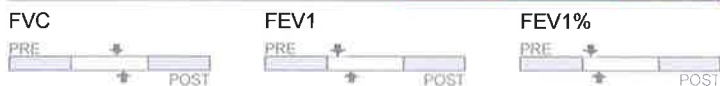
Instrument used
Minispir II S/N C00898

Pulmonary Function Test Results

Visit date 11/17/2016

Patient code	██████████	Age	22
Surname	██████████	Gender	Male
Name	██████████	Height, cm	188
Date of birth	██████████	Weight, kg	78
Ethnic group	Caucasian	BMI	22.07
Smoke	Ex-smoker	Pack-Year	9
Patient group			

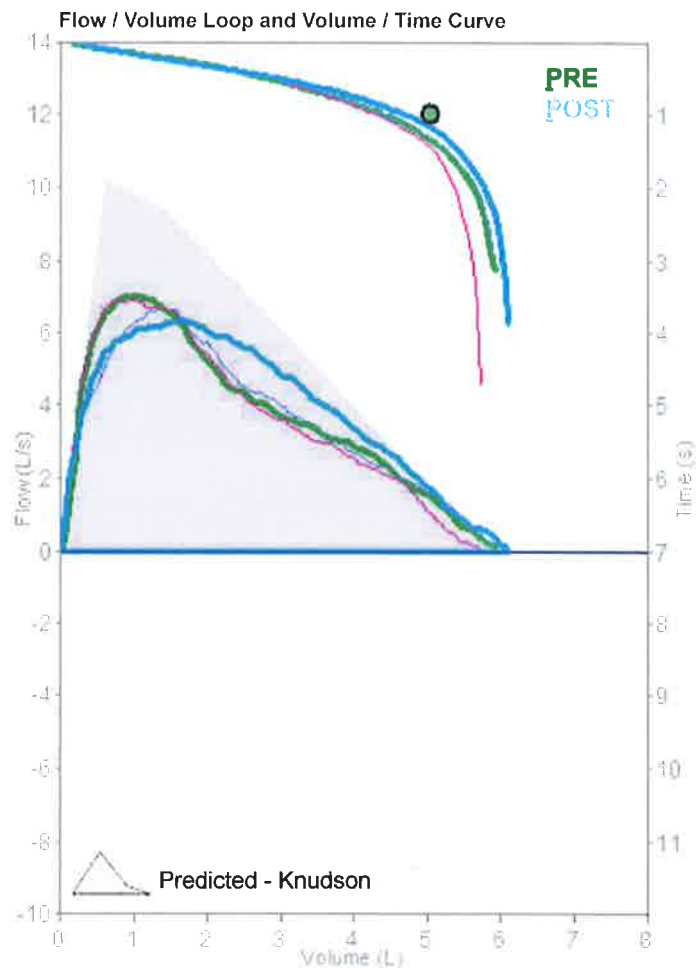
Interpretation



Normal Spirometry
No Significant Bronchodil.

Best values from all loops

Parameters	LLN	ULN	PRE	%Pred	Z-score	POST	%Chg
FVC L	5.06	6.61	5.95	102	0.25	6.11	3
FEV1 L	4.30	5.77	4.50	89	-1.21	4.78	6
FEV1% %	73.7	95.0	75.60	90	-1.36	78.20	3
PEF L/s	7.54	12.98	7.03	69	-1.95	6.51	-7



PRE Trial date 11/17/2016 3:15:15 PM

Parameters	LLN	ULN	Pred	PRE # 1	%Pred	Z-score	PRE # 2	PRE # 3	POST#1	%Pred	%Chg
FVC L	5.06	6.61	5.83	5.95	102	0.25	5.95	5.73	6.11	105	3
FEV1 L	4.30	5.77	5.04	4.50	89	-1.21	4.50	4.37	4.78	95	6
FEV1/VC %	73.7	95.0	84.4								
FEV1/FVC %	73.7	95.0	84.4	75.6	90	-1.36	75.6	76.3	78.2	93	3
PEF L/s	7.54	12.98	10.26	7.03	69	-1.95	6.72	6.97	6.42	63	-9
FEF2575 L/s	3.96	7.20	5.58	3.88	70	-1.73	3.92	3.81	4.55	82	17
ELA Years				22							
FET s			6.00	3.13	52		2.99	4.71	3.86	64	23
EVOL mL				170			250	160	210		24
FIVC L	5.06	6.61	5.83								

BTPS 1.082 27 °C 80.6 °F

Conclusion / Medical report

Quality Report

A

Repeatable FVC, Repeatable FEV1, Repeatable PEF

Signature

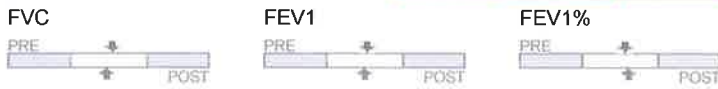
Instrument used
Minispir II S/N C00898

Pulmonary Function Test Results

Visit date 11/14/2016

Patient code ██████████ Age 40
 Surname ██████████ Gender Female
 Name ██████████ Height, cm 174
 Date of birth ██████████ Weight, kg 80
 Ethnic group Caucasian BMI 26.42
 Smoke Pack-Year
 Patient group

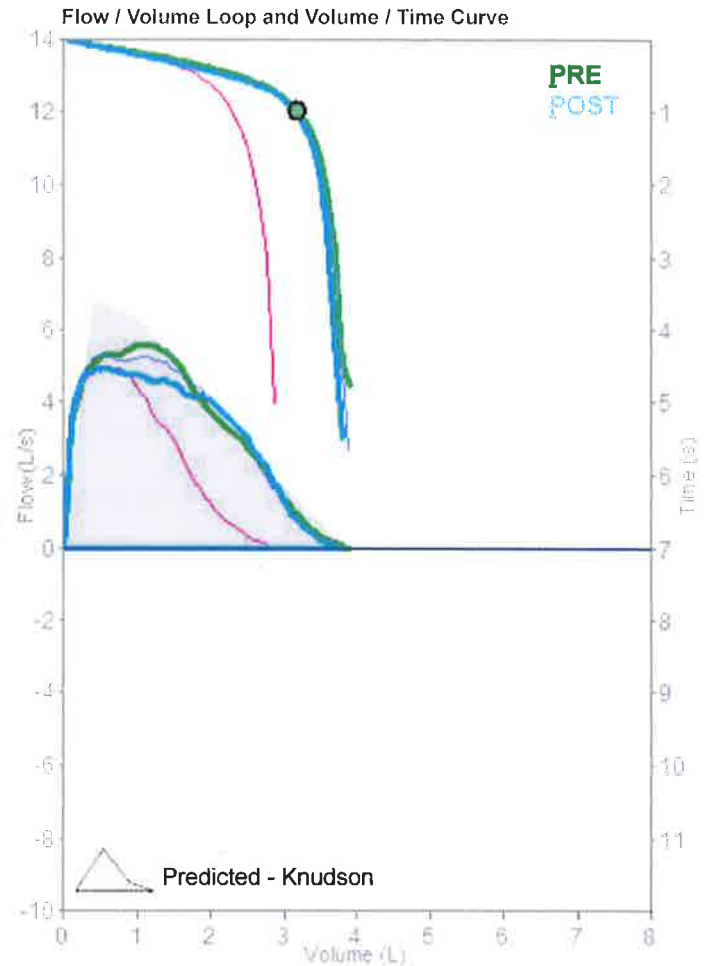
Interpretation



Normal Spirometry
 No Significant Bronchodil.

Best values from all loops

Parameters	LLN	ULN	PRE	%Pred	Z-score	POST	%Chg
FVC L	3.06	4.65	3.91	101	0.12	3.80	-3
FEV1 L	2.55	3.84	3.23	101	0.09	3.19	-1
FEV1% %	69.6	92.9	82.60	102	0.19	83.90	2
PEF L/s	4.15	9.43	5.66	83	-0.70	4.98	-12



PRE Trial date 11/14/2016 10:53:06 AM

Parameters	LLN	ULN	Pred	PRE # 1	%Pred	Z-score	PRE # 2	PRE # 3	POST#1	%Pred	%Chg
FVC L	3.06	4.65	3.85	3.91	101	0.12	3.88	2.89	3.80	99	-3
FEV1 L	2.55	3.84	3.20	3.23	101	0.09	3.19	2.32	3.19	100	-1
FEV1/VC %	69.6	92.9	81.3	82.6	102	0.19	82.2	80.3	83.9	103	2
FEV1/FVC %	69.6	92.9	81.3	82.6	102	0.19	82.2	80.3	83.9	103	2
PEF L/s	4.15	9.43	6.79	5.66	83	-0.70	5.33	5.00	4.98	73	-12
FEF2575 L/s	2.17	4.98	3.58	3.70	103	0.14	3.64	2.39	3.74	105	1
ELA Years			40	40	100		40	86	40	100	0
FET s			6.00	4.77	80		5.67	5.04	5.49	92	15
EVol mL				90			50	60	50		-44
FIVC L	3.06	4.65	3.85						2.63	68	

BTPS 1.097 24 °C 75.2 °F

Conclusion / Medical report

Quality Report

A

Repeatable FVC, Repeatable FEV1, Repeatable PEF

Signature

Instrument used
 Minispir II S/N C00898

- Pulmonary Function Test Results

Visit date 5/12/2017

Patient code	██████████	Age	41
Surname	██████████	Gender	Female
Name	██████████	Height, cm	174
Date of birth	██████████	Weight, kg	87
Ethnic group	Caucasian	BMI	28.74
Smoke	No smoker	Pack-Year	
Patient group			

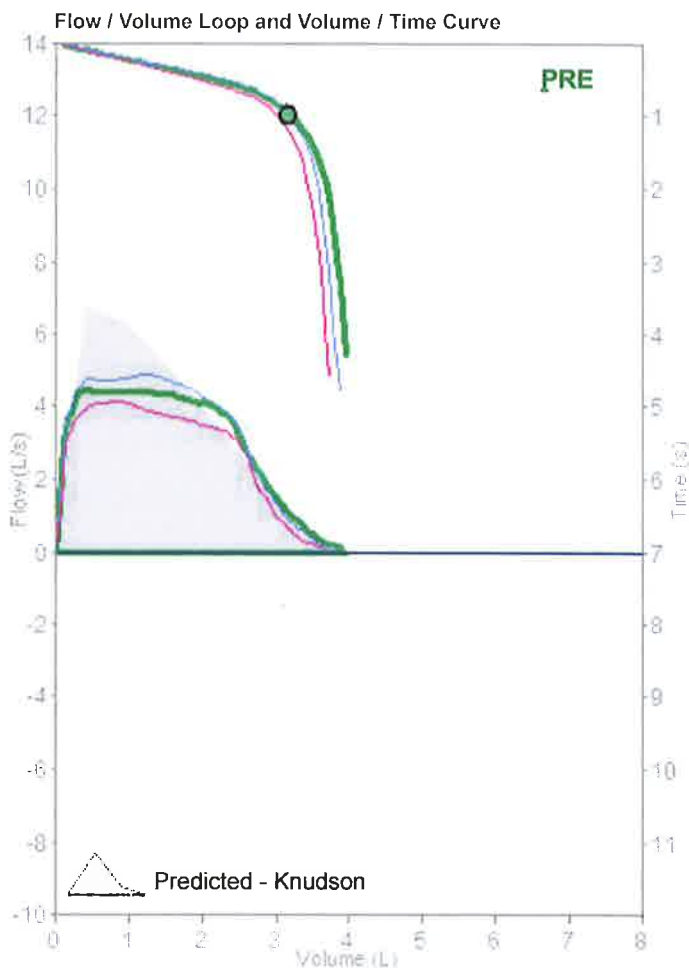
Interpretation



Normal Spirometry

Best values from all loops

Parameters	LLN	ULN	PRE	%Pred	Z-score	POST	%Chg
FVC	L	3.04	4.63	3.97	103	0.27	
FEV1	L	2.53	3.82	3.23	102	0.14	
FEV1%	%	69.4	92.7	81.40	100	0.05	
PEF	L/s	4.13	9.41	4.94	73	-1.14	



PRE Trial date 5/12/2017 9:14:57 AM

Parameters		LLN	ULN	Pred	PRE # 1	%Pred	Z-score	PRE # 2	PRE # 3	POST#1	%Pred	%Chg
FVC	L	3.04	4.63	3.84	3.97	103	0.27	3.89	3.71			
FEV1	L	2.53	3.82	3.18	3.23	102	0.14	3.22	3.04			
FEV1/VC	%	69.4	92.7	81.1	81.4	100	0.05	82.8	81.9			
PEF	L/s	4.13	9.41	6.77	4.48	66	-1.42	4.94	4.17			
FEF2575	L/s	2.14	4.95	3.55	3.63	102	0.10	3.85	3.40			
ELA	Years			41	41	100		41	48			
FET	s			6.00	4.30	72		4.81	4.58			
EVol	mL				70			80	60			
FIVC	L	3.04	4.63	3.84								

BTPS 1.097 24 °C 75.2 °F

Conclusion / Medical report

Quality Report

C

Repeatable FVC, Repeatable FEV1, Repeatable PEF

Signature

Instrument used
Minispir II S/N C00898

Pulmonary Function Test Results

Visit date 12/8/2016

Patient code	██████████	Age	49
Surname	██████████	Gender	Female
Name	██████████	Height, cm	168
Date of birth	██████████	Weight, kg	84
Ethnic group	Caucasian	BMI	29.76
Smoke		Pack-Year	
Patient group			

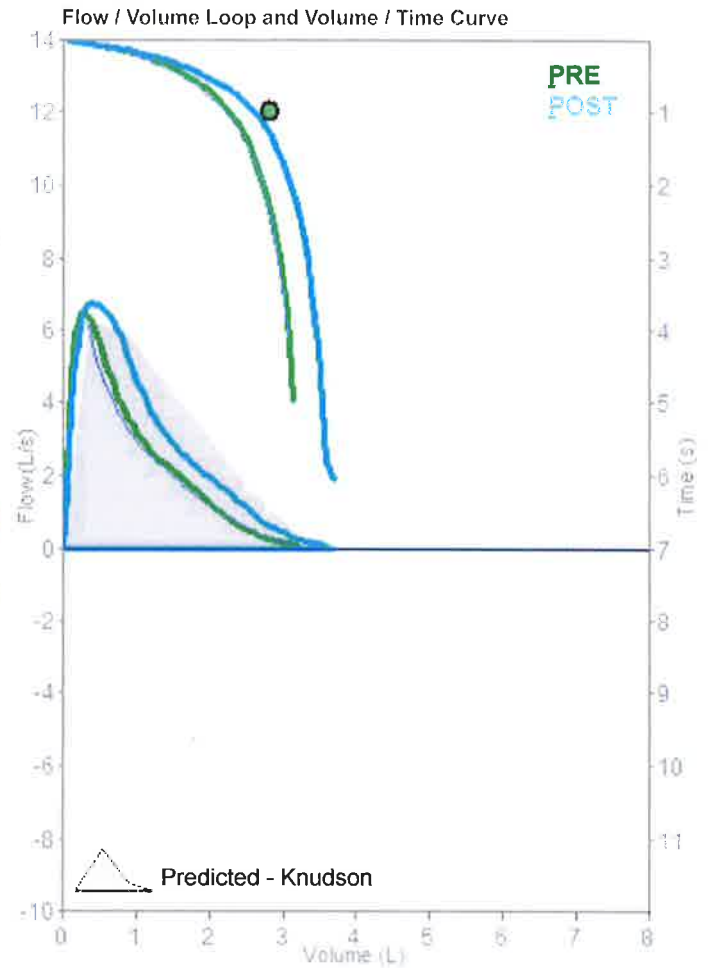
Interpretation



Mild Obstruction
 Significant Bronchodil. (FEV1 >= 80%Pred.)
 WARNING: FEF2575 PRE = 52%Pred., CHG FEF2575 = 20%

Best values from all loops

Parameters	LLN	ULN	PRE	%Pred	Z-score	POST	%Chg
FVC L	2.64	4.23	3.25	95	-0.39	3.72	14
FEV1 L	2.18	3.47	2.32	82	-1.29	2.66	15
FEV1% %	69.2	92.6	71.40	88	-1.35	71.50	0
PEF L/s	3.63	8.91	6.50	104	0.14	6.91	6



PRE Trial date 12/8/2016 2:20:58 PM

Parameters	LLN	ULN	Pred	PRE # 1	%Pred	Z-score	PRE # 2	PRE # 3	POST#1	%Pred	%Chg
FVC L	2.64	4.23	3.44	3.25	95	-0.39	3.23		3.69	107	14
FEV1 L	2.18	3.47	2.83	2.32	82	-1.29	2.26		2.66	94	15
FEV1/VC %	69.2	92.6	80.9	71.4	88	-1.35	70.0		72.1	89	1
FEV1/FVC %	69.2	92.6	80.9	71.4	88	-1.35	70.0		72.1	89	1
PEF L/s	3.63	8.91	6.27	6.50	104	0.14	6.32		6.82	109	5
FEF2575 L/s	1.72	4.53	3.12	1.61	52	-1.77	1.59		1.93	62	20
ELA Years			49	76	155		79		58	118	-24
FET s			6.00	5.30	88		4.98		6.05	101	14
EVol mL				50			40		40		-20
FIVC L	2.64	4.23	3.44								

BTPS 1.092 25 °C 77 °F

Conclusion / Medical report

Quality Report

A

Repeatable FVC, Repeatable FEV1, Repeatable PEF

Signature

Instrument used
 Minispir II S/N C00898