INTERPRETAZIONE DELLA SPIROMETRIA

STADIAZIONE DELL'OSTRUZIONE

LIEVE	**VEMS <100% e ≤ 70%**
MODERATA	**VEMS < 70% e ≥ 60% del predetto**
MODERATAMENTE GRAVE	**VEMS < 60% e ≥ 50% del predetto**
GRAVE	**VEMS < 50% e ≥ 34% del predetto**
MOLTO GRAVE	**VEMS < 34% del predetto**

STADIAZIONE DELLA RESTRIZIONE

Basata sulla CPT:	**Se la CPT non è stata misurata si considera la riduzione della CV e si parla di "restrizione dell'escursione volumetrica dei polmoni"**
LIEVE: **CPT < predetto ma ≥ 70%**	**LIEVE:** **CV < predetto ma ≥ 70%**
MODERATA: **CPT 60-70% predetto**	**MODERATA:** **CV 60-70% predetto**
MODERATAMENTE GRAVE: **CPT < 60% predetto**	**MODERATAMENTE GRAVE:** **CV 50-60% predetto**
	GRAVE: **CV 50-34% predetto**
	MOLTO GRAVE: **CV < 34% predetto**

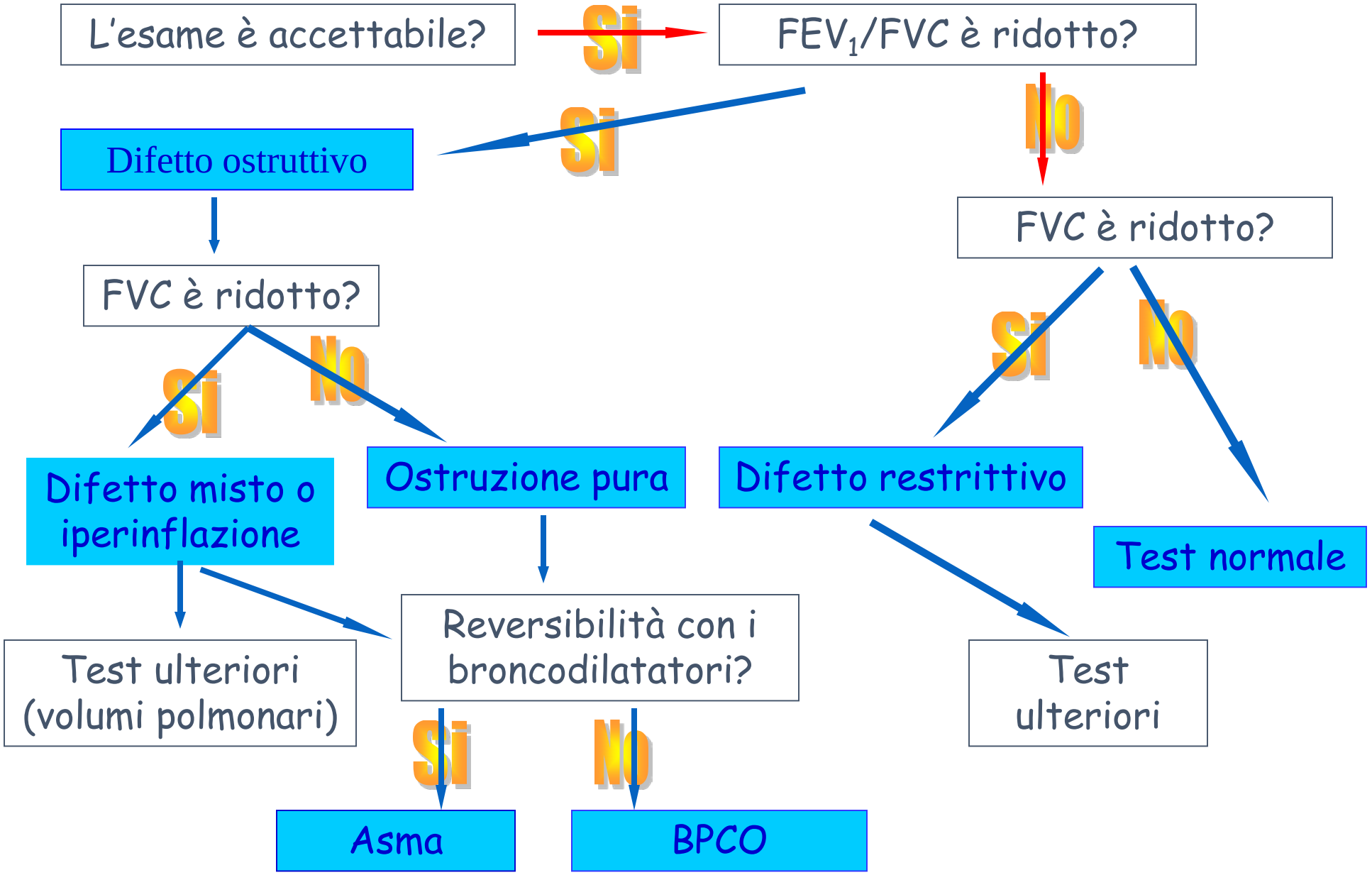
TEST DI REVERSIBILITA'

il FEV1 aumenta di > 12% e 200 ml rispetto al basale tornando a valori normali (> 80% del predetto):
DEFICIT DI TIPO OSTRUTTIVO COMPLETAMENTE REVERSIBILE

il FEV1 è aumentato del 12% o di 200 ml rispetto al valore basale ma resta < 80% del teorico e VEMS/CVF < 70:
DEFICIT DI TIPO OSTRUTTIVO PARZIALMENTE REVERSIBILE

il FEV1 aumenta < 12% o di 200 ml rispetto al valore basale:
DEFICIT VENTILATORIO NON REVERSIBILE

Flow-chart di interpretazione del tracciato spirometrico

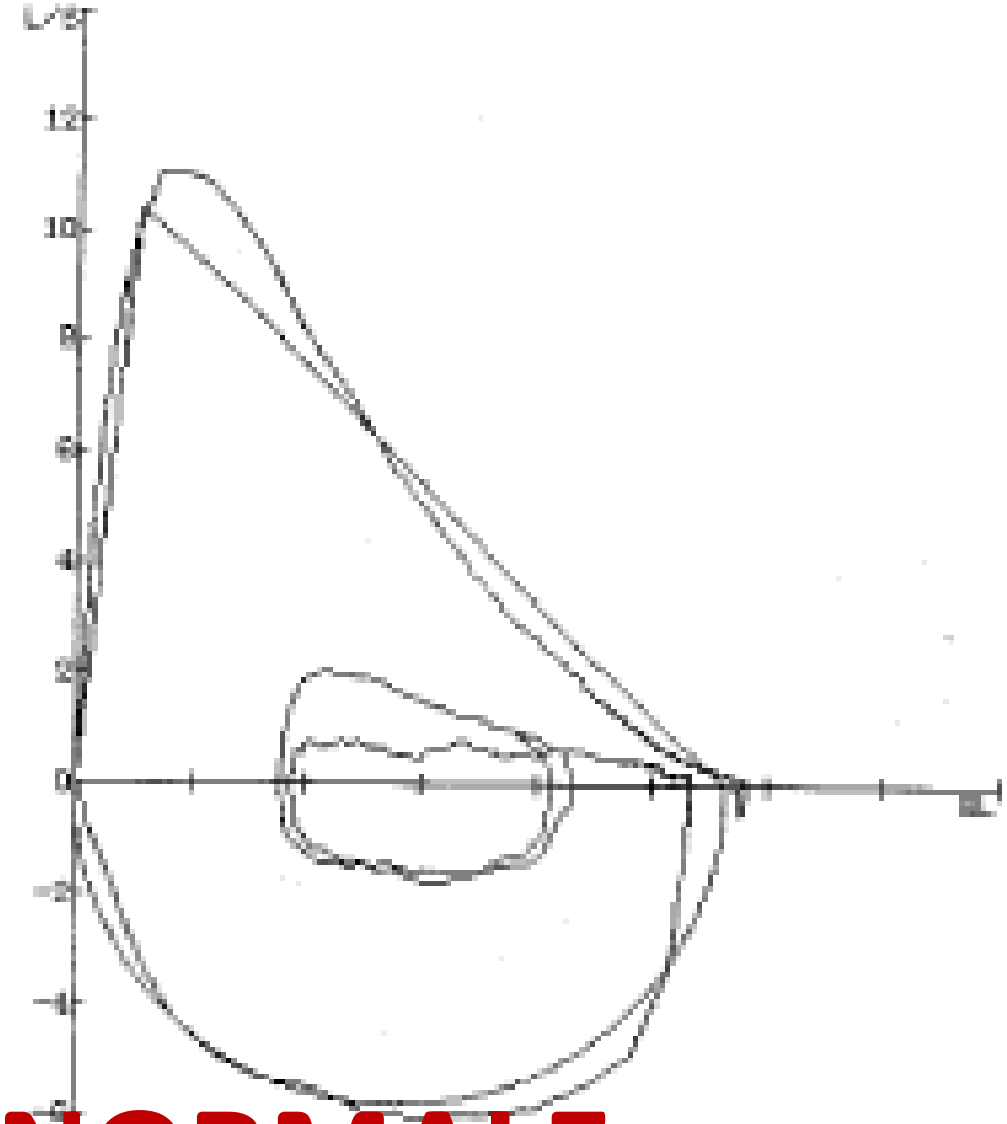


PARAMETRI		Teorico	PRE #1	%teor.
*FVC	L	4.68	5.49	117
*FEV1	L	3.64	4.54	125
*PEF	L/s	8.80	7.55	86
FVC	L	4.68	5.49	117
FEV1	L	3.64	4.54	125
FEV1/FVC	%	75.9	82.7	109
PEF	L/s	8.80	7.55	86
FEF25	L/s	7.80	7.36	94
FEF50	L/s	4.71	7.06	150
FEF75	L/s	1.85	1.99	108
FEF25-75	L/s	3.58	4.94	138
FEF75-85	L/s		1.52	
[illegible]				
EVol	mL	0	170	
FET	s	6.00	3.94	66
PEF Time	s		0.110	
[illegible]				
FEV0.5/FVC	%		62.5	
FEV0.75	L		4.14	
FEV075/FVC	%		75.4	
FEV2	L		5.27	
FEV2/FVC	%		96.0	
FEV3	L	4.45	5.44	122
FEV3/FVC	%	95.1	99.1	104
FEV6	L	4.68	5.49	117
FEV1/FEV6	%	77.8	82.7	106
FEV1/PEF	s	0.41	0.60	146
FEV1/FEV0.5	%		132.4	
FIVC	L	4.68	4.73	101
FIV1	L	3.64	4.73	130
FIV1/FIVC	%	75.9	100.0	132
FIF25	L/s	7.97	2.65	33
FIF50	L/s		2.62	
FIF75	L/s	4.41	2.35	53
FEF50/FIF50	%		269.5	
MVV calc	L/m	131.3	158.9	121

ID.#: UI SEX: MALE
AGE: 26 YRS HT: 185 cm WT: 80 kg
RACE: WHITE 100 %

[FVC TEST]

FUNCTION	UNIT	MEAS	PRED	%PR
FVC	L	5.89	5.63	105
FEV.5	L	3.66		
FEV1	L	4.75	4.71	101
FEV3	L	5.73		
FEV1%T	%		82.6	
FEV1%G	%	80.6		
FEV3%T	%			
FEV3%G	%	97.3		
MEFR	L/S	10.00		
MMEF	L/S	4.39	5.18	85
EX TIME	S	4.16		



SPIROMETRIA NORMALE

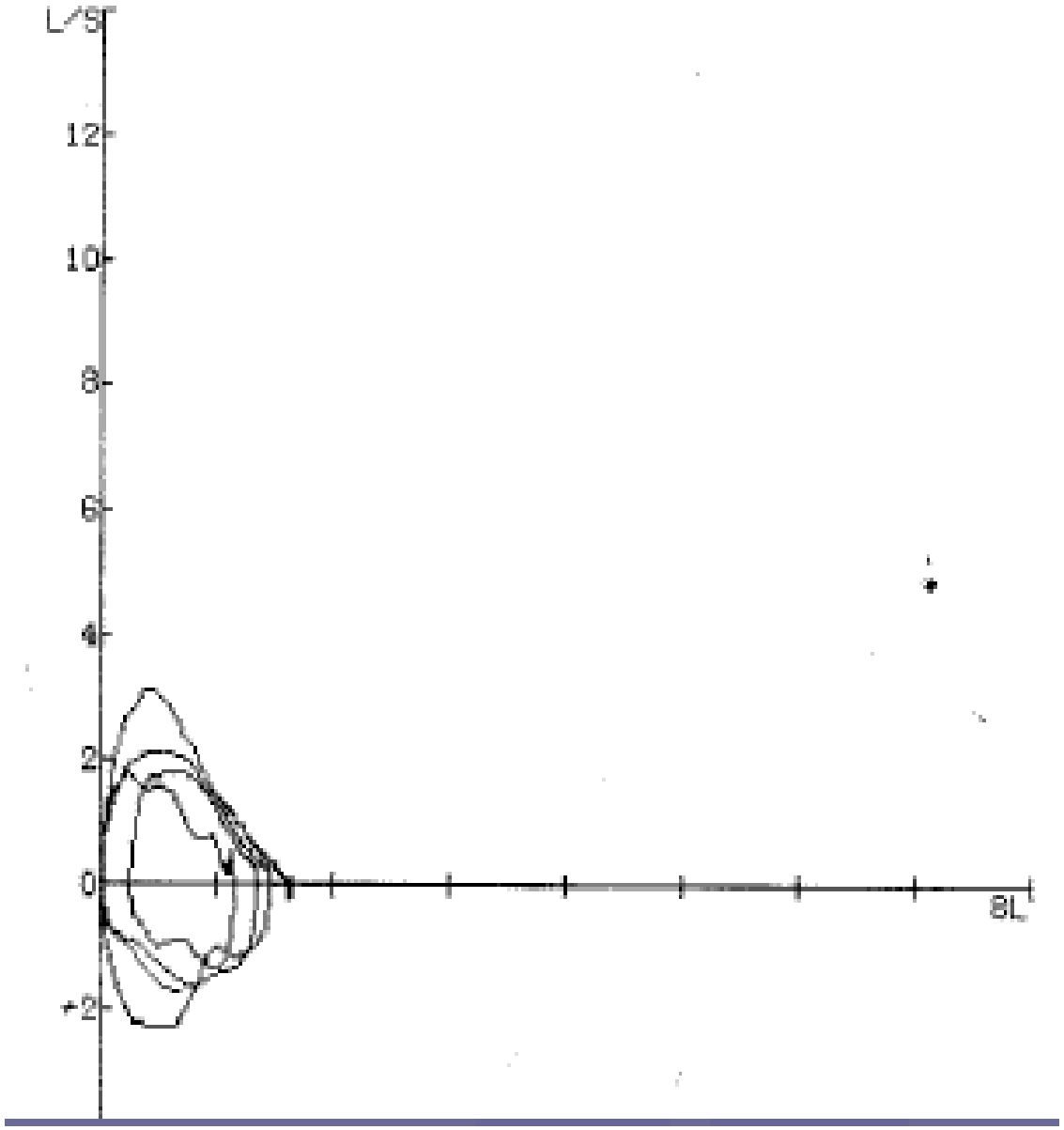
ID #: 01 SEX: FEMALE

AGE: 7 YRS HT: 124 cm WT: 25 kg

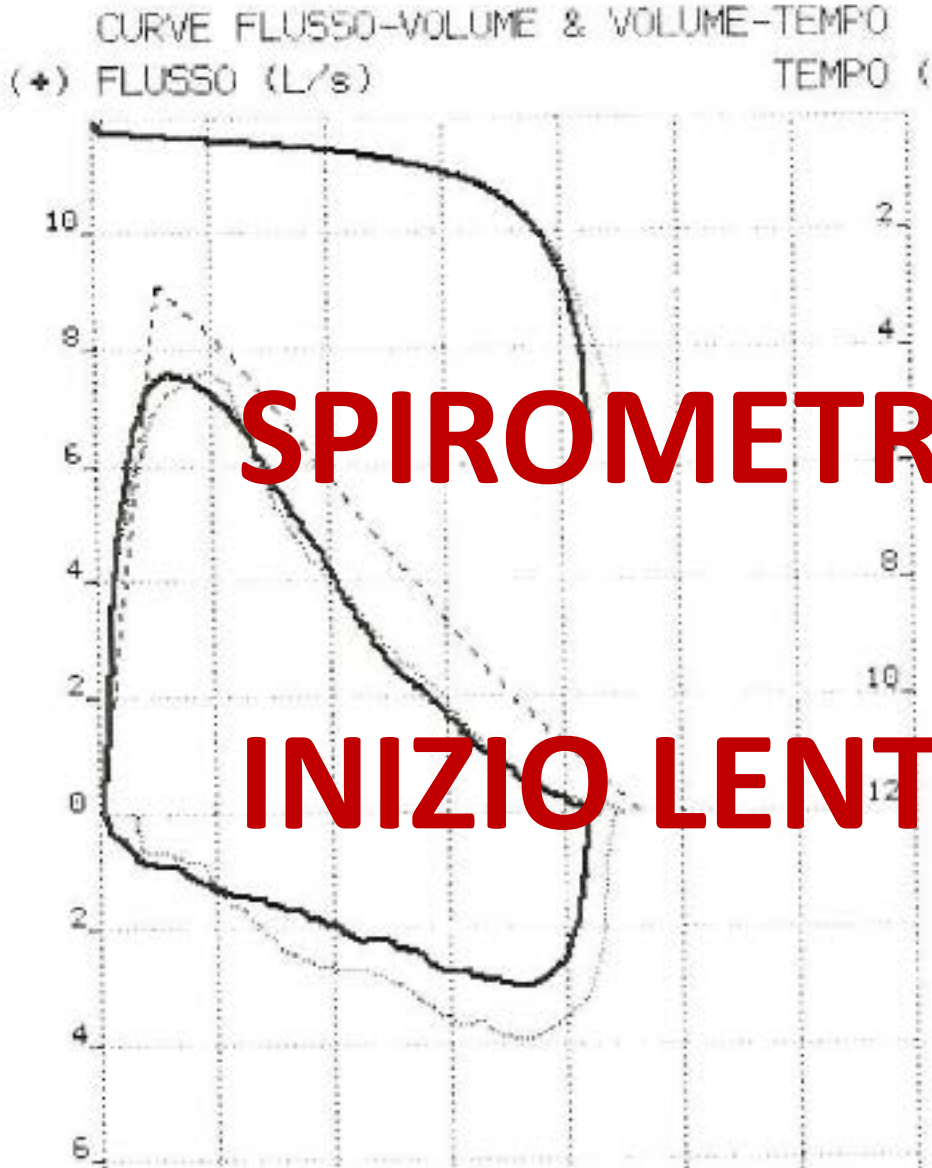
RACE: WHITE 100 %

[FVC TEST]

FUNCTION	UNIT	MEAS	PRED	%PR
FVC	L	1.68	1.70	99
FEV.5	L	1.16		
FEV1	L	1.48	1.45	102
FEV3	L	1.68		
FEV1%T	%		84.0	



ETA' 44 STATURA cm 177 PESO Kg 85 SESSO ♂
PRE File N° 7 POST File N° 9
TEORICO ERS



PARAMETRO		PRE	%TEOR.	POST#1	%TEOR.	%CHG
VC	L	4.28	87			
FVC	L	4.45	94	4.25	90	- 4
FEV1	L	3.41	89	3.37	88	- 1
FEV1/VC	%	79.7	101			
FEV1/FVC	%	76.6	97	79.3	100	+ 4
FEV6	L	4.45	94	4.25	90	- 4
FEV1/FEV6	%	76.6	94	79.3	97	+ 4
PEF	L/s	7.61	83	7.55	83	- 1
EVol	mL	80		80		

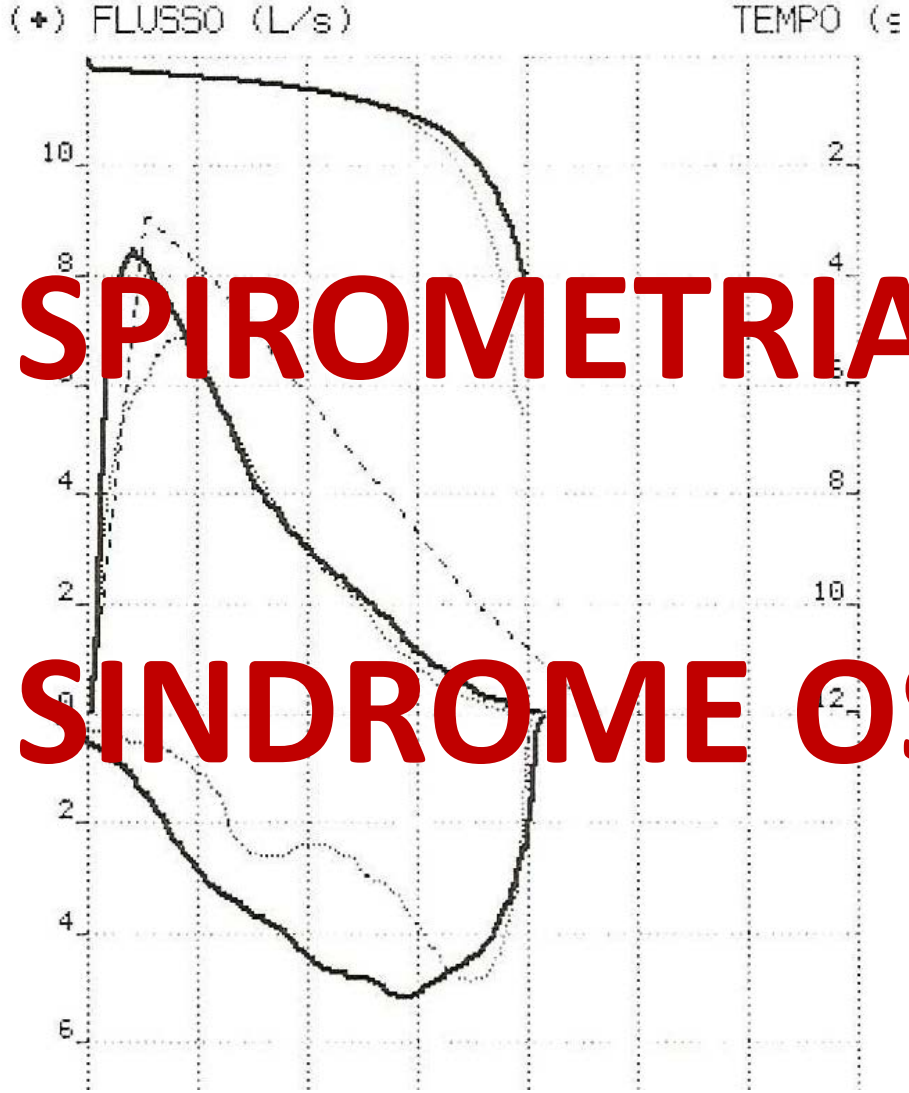
SPIROMETRIA NON ACCETTABILE

INIZIO LENTO

INTERPRETAZIONE SPIROMETRIA:
Spirometria Normale

ETA' 44 STATURA cm 177 PESO Kg 85 SESSO
PRE File N° 11 TEORICO ERS

CURVE FLUSSO-VOLUME & VOLUME-TEMPO



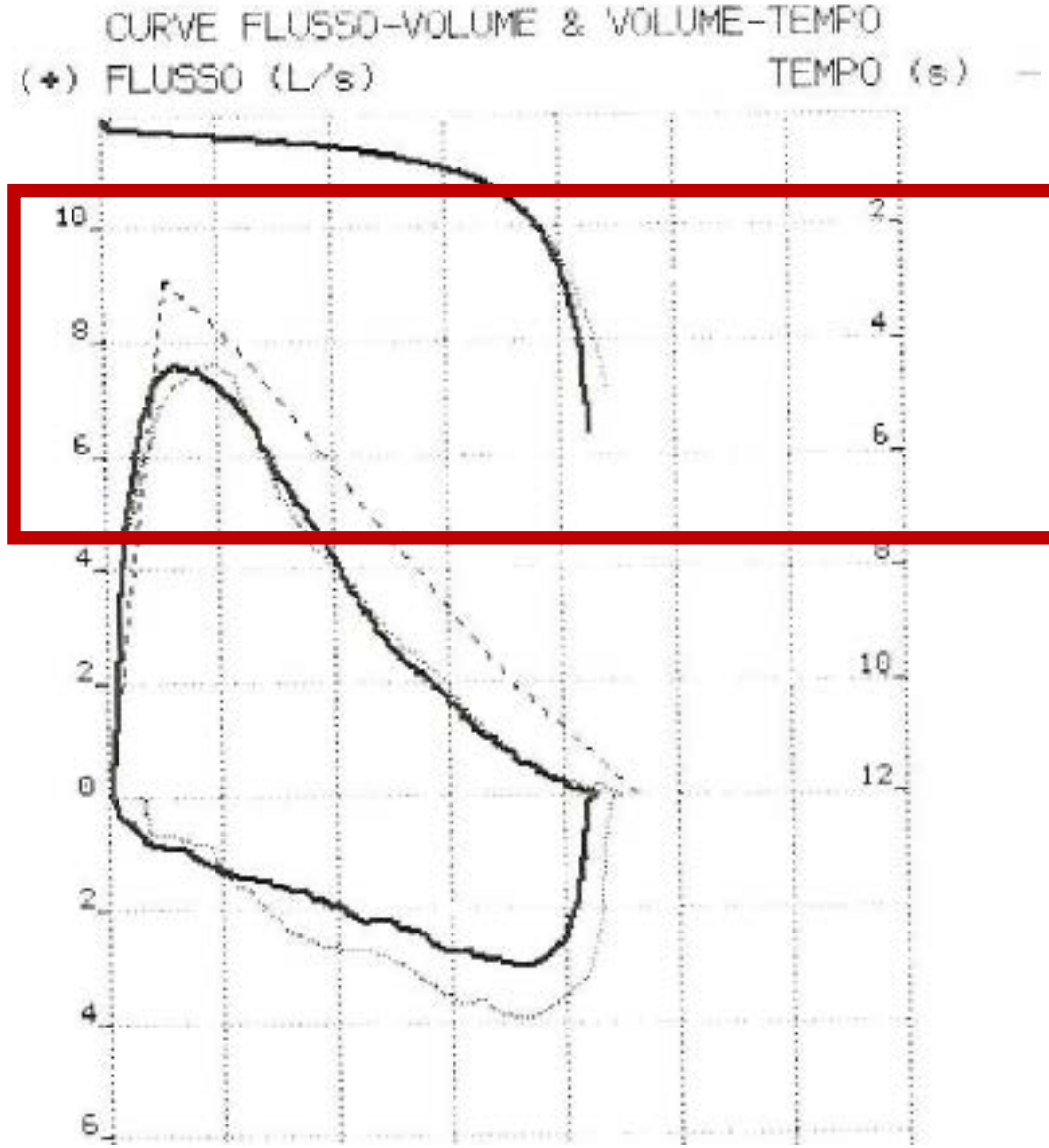
PARAMETRO		TEOR.	PRE #1	%TEOR	PRE #2
VC	L	4.92	4.50	91	
FVC	L	4.71	4.09	87	4.00
FEV1	L	3.85	3.12	81	3.00
FEV1/VC	%	79.3	69.3	87	66.7
FEV1/FVC	%	79.3	76.3	96	75.0
FEV6	L	4.71	4.09	87	3.95
FEV1/FEV6	%	81.7	76.3	93	75.9
PEF	L/s	9.13	8.44	92	6.89

SPIROMETRIA ACCETTABILE

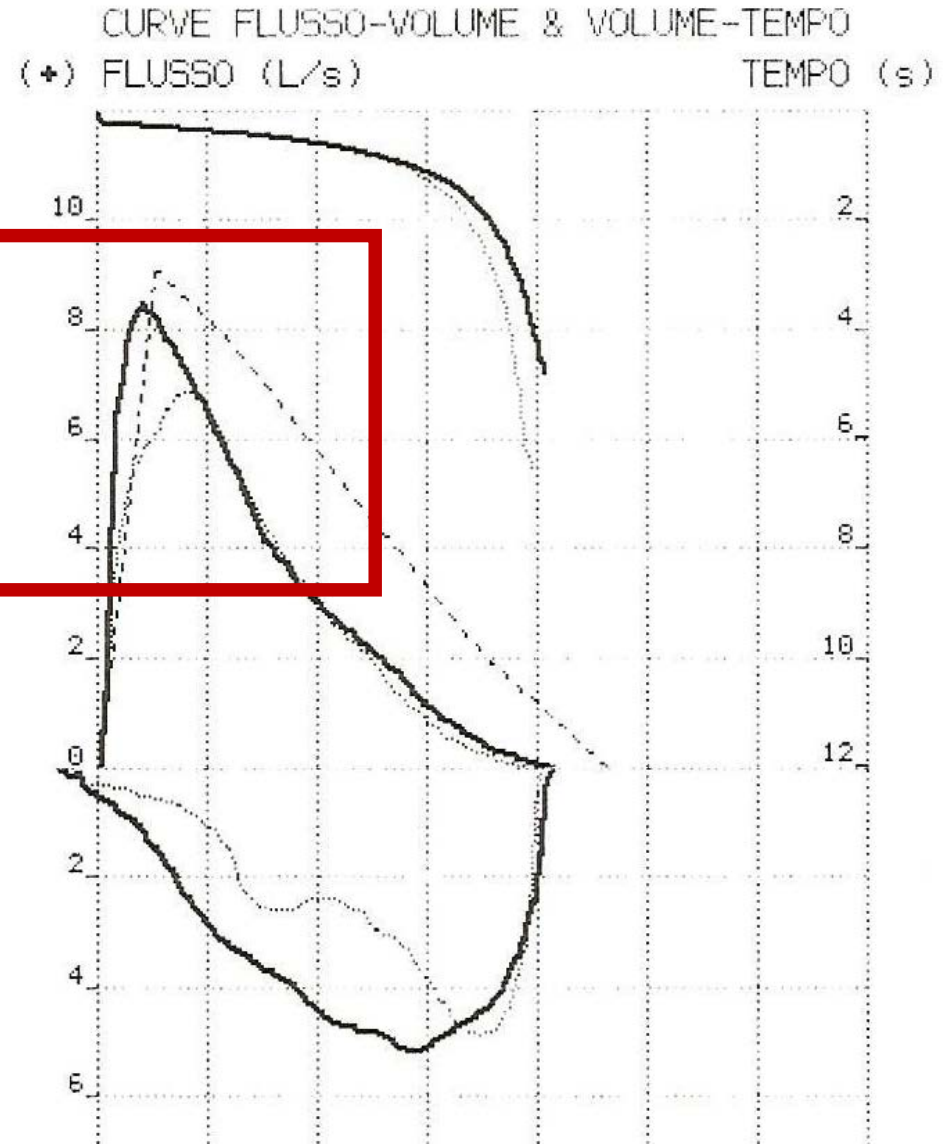
SINDROME OSTRUTTIVA LIEVE

INTERPRETAZIONE SPIROMETRIA:
Ostruzione Lieve

ETA' 44 STATURA cm 177 PESO Kg 85 SESSO ♂
PRE File N° 7 POST File N° 9
TEORICO ERS

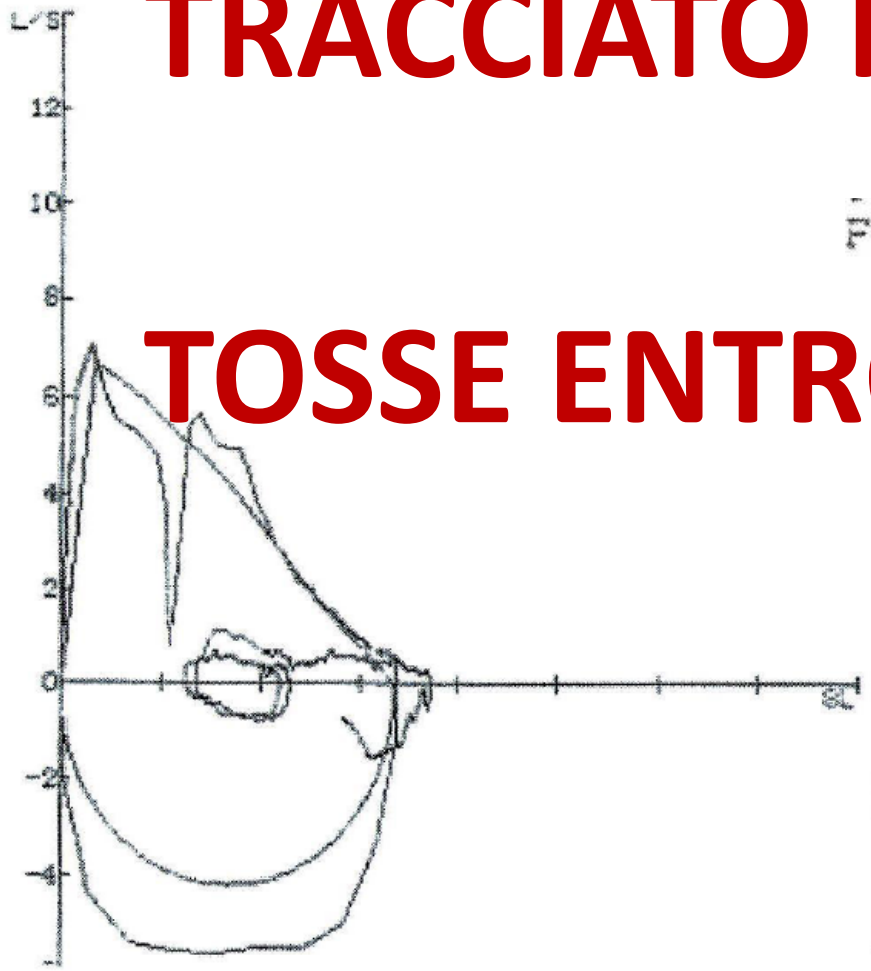


ETA' 44 STATURA cm 177 PESO Kg 85 SESSO ♂
PRE File N° 11 TEORICO ERS



TRACCIATO NON ACCETTABILE

TOSSE ENTRO IL PRIMO SECONDO



FUNCTION	UNIT	MEAS	PRED	%PR
FVC	L	3.77	3.35	113
FEV1	L	3.04		
FEV3	L	3.77		
FEV1%T	%	84.9	82.6	103

FVC 3.770 113%
FEV1 3.040 104%
FEV1/FVC 103%

PARAMETRO		PRE	TEORICO	%TEORICO
FVC	L	5.27	5.39	98
FEV1	L	4.32	4.50	97
FEV1%	%	82.9	82.9	101
PEF	L/s	9.40	10.08	93
FEF2575	L/s	4.23	4.93	86
FEF25%	L/s	8.34	8.63	97
FEF50%	L/s	4.25	5.65	75
FEF75%	L/s	2.03	2.65	77

TRACCIATO NON ACCETTABILE

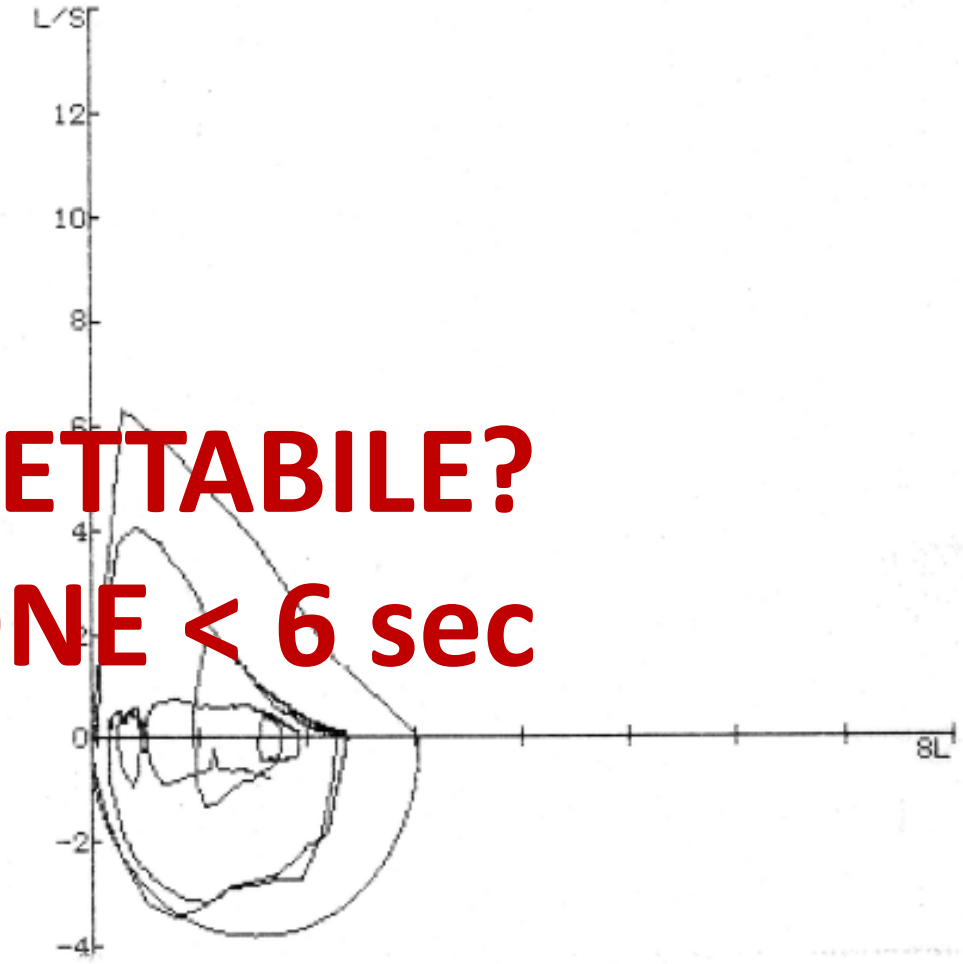
CHIUSURA DELLA GLOTTIDE

CURVA UTILIZZABILE PER IL FEV1

FVC	5.270	98%
FEV1	4.320	97%
FEV1/FVC		101%

[FVC TEST]

FUNCTION	UNIT	MEAS	PRED	%PR
FVC	L	2.41	3.04	79
FEV.5	L	1.44		
FEV1	L	1.86	2.59	72
FEV3	L	2.35		
FEV1%T	%	77.2	78.8	98
FEV1%G	%	77.2		
FEV3%T	%	97.5		
FEV3%G	%	97.5		
MEF	L/S	3.86		
MEF	L/S	1.91	3.87	51
EX TIME	S	3.84		
V EXT	L	0.10		
FIVC	L	2.24		
FIV.5	L	1.06		
FIV1	L	2.19		
FIV1/FVC	%	90.9		
FIV1/FIVC	%	97.8		
FEV.5/FIV.5		1.36		
PEF	L/S	4.07	6.38	64
MEF75%	L/S	3.86	5.58	69
MEF50%	L/S	1.91	3.87	49
MEF25%	L/S	0.65	1.51	43



TRATTATO ACCETTABILE?

TEMPO DI ESPIRAZIONE < 6 sec

FVC 2.410 = 79%
FEV1 1.860 = 72%
FEV1/FVC = 78%

ID.#: 1 SEX: MALE
AGE: 77 YRS HT: 174 cm WT: 65 kg
RACE: WHITE 100 %

[VC TEST]

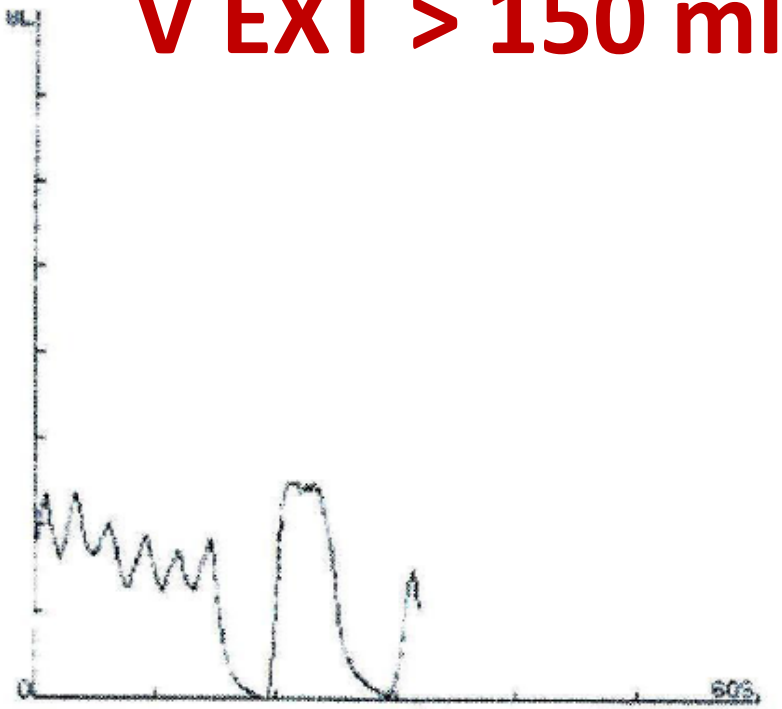
FUNCTION	UNIT	MEAS	PRED	%PR
VC	L	2.56	3.81	67
ERV	L	1.56		
IRV	L	0.27		
IC	L	1.00		
[illegible]				
FRC	L		3.69	

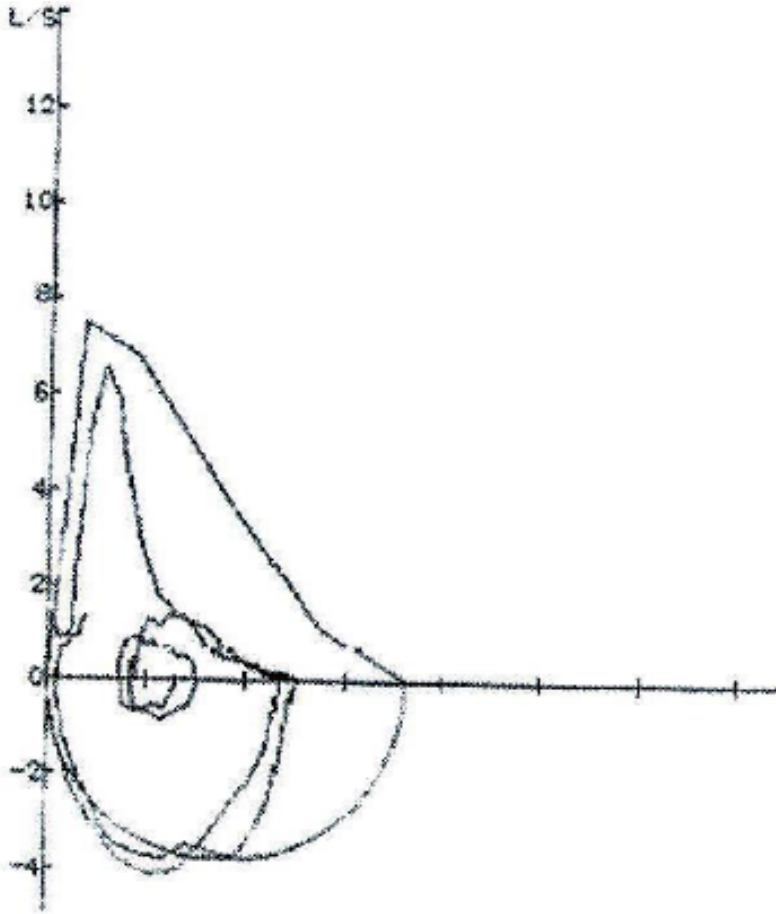
[FVC TEST]

FUNCTION	UNIT	MEAS	PRED	%PR
FVC	L	2.53	3.67	69
FEV.5	L	1.80		
FEV1	L	1.85	2.76	67
FEV3	L	2.36		
FEV1%T	%	72.3	73.4	98
FEV1%G	%	73.1		
FEV3%T	%	92.2		
FEV3%G	%	93.3		
MEFR	L/S	3.13		
[illegible]		2.24	2.77	
EX TIME	S	5.12		
V EXT	L	0.25		

TRACCIATO NON ACCETTABILE

V EXT > 150 ml





ETA' 24 STATURA cm 158 SESSO ♀ PESO Kg 53

TEORICO ERS (ECCS) % TEORICO IN USO 100%

PRE FILE N° 374

PARAMETRO		PRE	TEORICO	%TEORI
FVC	L	3.19	3.46	92
FEV1	L	2.80	3.01	93
FEV1%	%	87.8	84.4	104
[illegible]	L/s	5.83	6.83	85
FEF2575	L/s	3.44	4.04	85
[illegible]	L/s	5.24	6.06	88
[illegible]	L/s	3.62	4.40	82
FEF75%	L/s	1.49	2.14	70
FEV6	L			
FEV1/FEV6	%			
FET	s	3.88		
VEXT	mL	90		

INCERTEZZA INIZIALE MA TRACCIATO ACCETTABILE

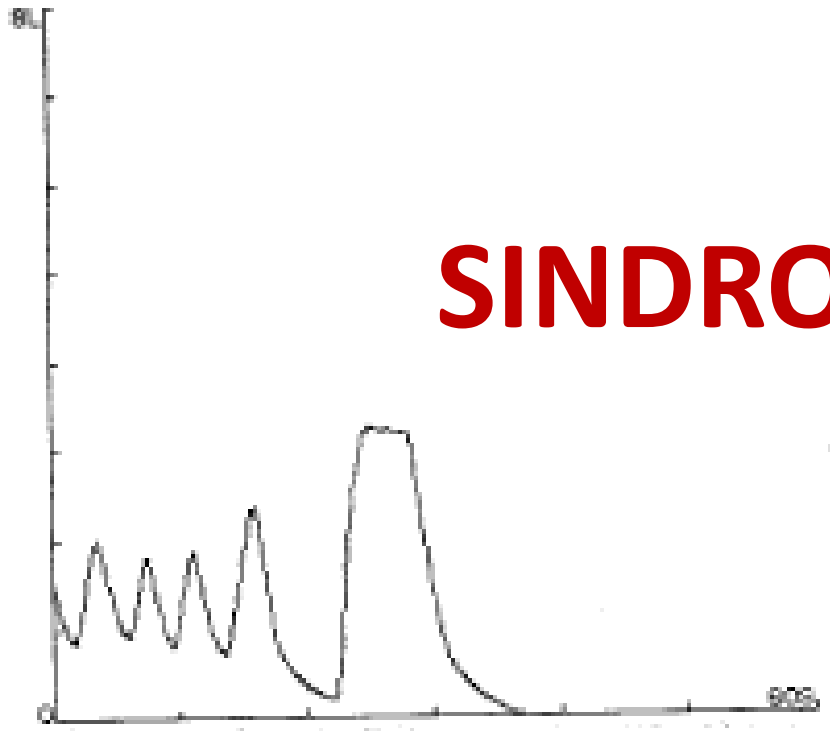
VEXT 90 ml

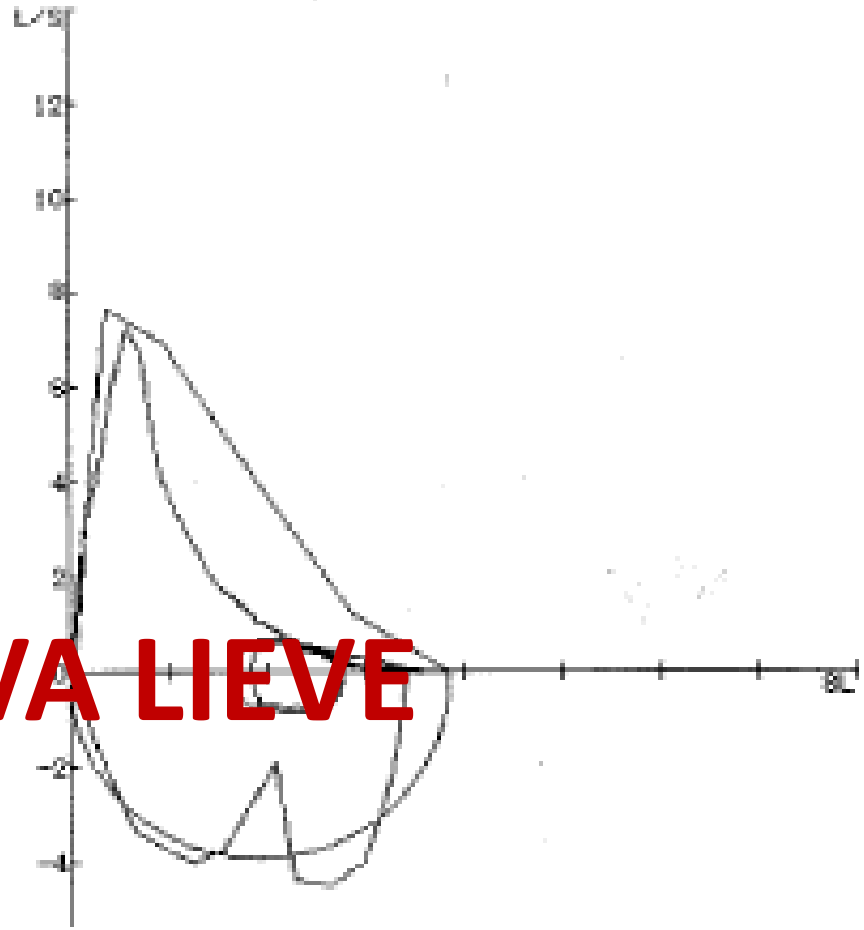
ID.#: 01 SEX: MALE
AGE: 79 YRS HT: 178 cm WT: 90 kg
RACE: WHITE 100 %

[VC TEST]

FUNCTION	UNIT	MEAS	PRED	%PR
VC	L	3.32	4.00	83
ERV	L	0.88		
IRV	L	1.39		
IC	L	2.44		
TV	L	1.05		
FRC	L		3.80	
RV	L		2.94	
TLC	L		7.14	
RV/TLC	%		44.3	

FUNCTION	UNIT	MEAS	PRED	%PR
FVC	L	3.60	3.85	94
FEV.5	L	1.76		
FEV1	L	2.26	2.87	79
FEV3	L	2.89		
FEV1%T	%	68.1	73.1	93
FEV1%G	%	62.8		
FEV3%T	%	87.0		
FEV3%G	%	80.3		
MEFR	L/S	4.16		
MMEF	L/S	0.93	2.76	34
EV TIME	S	11.00		





SINDROME OSTRUTTIVA LIEVE

[FVC TEST]

FUNCTION	UNIT	MEAS	PRED	%PR
FVC	L	4.10	3.79	108
FEV.5	L	2.08		
FEV1	L	2.73	3.02	90
FEV3	L	3.56		
FEV1%T	%	65.6	76.6	86
FEV1%G	%	66.6		
FEV3%T	%	85.6		
FEV3%G	%	86.8		
MEFR	L/S	6.25		
MMEF	L/S	1.49	3.43	43
EX TIME	S	7.46		
[illegible]	[illegible]	[illegible]		
FIV.5	L	1.33		
FIV1	L	2.06		
FIV1/FVC	%	50.2		
FIV1/FIVC	%	98.6		
FEV.5/FIV.5		1.56		
[illegible]	[illegible]	[illegible]	[illegible]	94
[illegible]	[illegible]	[illegible]	[illegible]	74
MEF50%	L/S	1.91	4.19	46
MEF25%	L/S	0.52	1.51	34

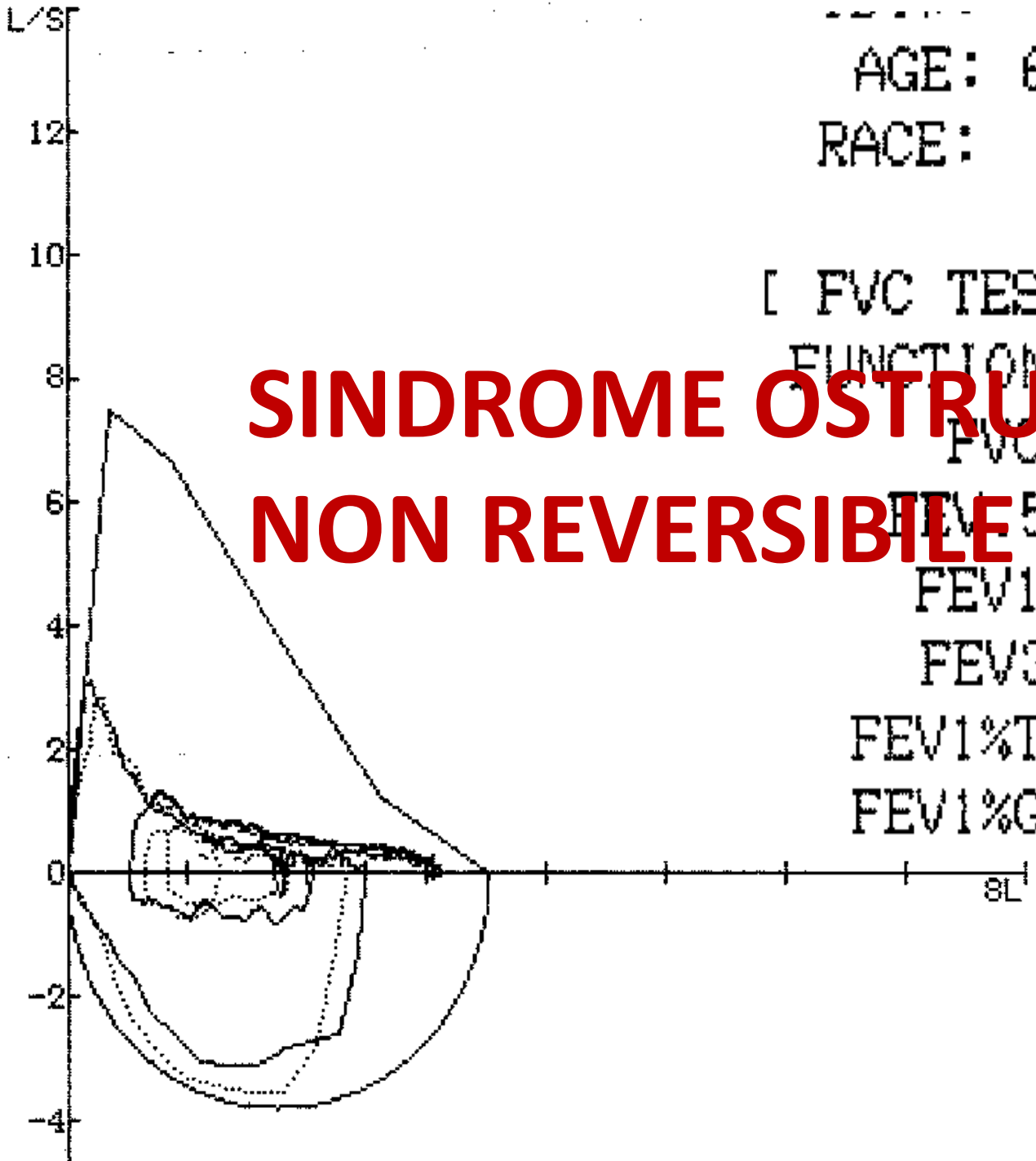
SINDROME OSTRUTTIVA LIEVE

REVERSIBILITA' NON VALUTATA

[FVC TEST]

FUNCTION	UNIT	MEAS	PRED	%PR
FVC	L	2.71	2.80	97
FEV.5	L	0.94		
FEV1	L	1.37	2.36	58
FEV3	L	2.06		
FEV1%T	%	46.8	76.8	61
FEV1%G	%	50.6		
FEV3%T	%	70.3		
FEV3%G	%	76.0		
MEFR	L/S	1.39		
MMEF	L/S	0.52	2.83	18
EX TIME	S	9.53		
V EXT	L	1.13		
FIVC	L			
FIV.5	L			
FIV1	L			
FIV1/FVC	%			
FIV1/FIVC	%			
FEV.5/FIV.5				
PEF	L/S	3.84	6.11	63
MEF75%	L/S	1.35	5.34	25
MEF50%	L/S	0.70	3.62	19
MEF25%	L/S	0.23	1.25	18

SINDROME OSTRUTTIVA MODERATAMENTE GRAVE



AGE: 69 YRS HT: 168 cm WT: 58 kg
RACE: WHITE 100 %

[FVC TEST]

		PRE-BD		POST-BD	
FUNCTION	PRED	MEAS	%PR	MEAS	%CH
FVC	3.53	3.17	90	3.12	0
FEV.5		0.91		0.90	0
FEV1	2.73	1.35	49	1.34	0
FEV3		2.54		2.39	-4
FEV1%T	74.9				
FEV1%G		42.6		42.9	1

SINDROME OSTRUTTIVA GRAVE NON REVERSIBILE

ID.#: 1 SEX: FEMALE
AGE: 59 YRS HT: 166 cm WT: 89 kg
RACE: WHITE 100 %

[VC TEST]		PRE-BD		POST-BD
FUNCTION	PRED	MEAS	%PR	MEAS %CH
VC	3.04	2.34	77	
ERV		0.88		
IRV		0.96		
IC		1.46		
TV		1.38		
FRC	2.78			
RV	1.95			
TLC	5.17			
RV/TLC	38.7			

[FVC TEST]		PRE-BD		POST-BD
FUNCTION	PRED	MEAS	%PR	MEAS %CH
FVC	2.93	1.99	68	2.14 8
FEV.5		1.05		1.29 23
FEV1	2.48	1.40	56	1.66 19

FEV1/FVT 70%

POSSIBILE SINDROME RESTRITTIVA LIEVE

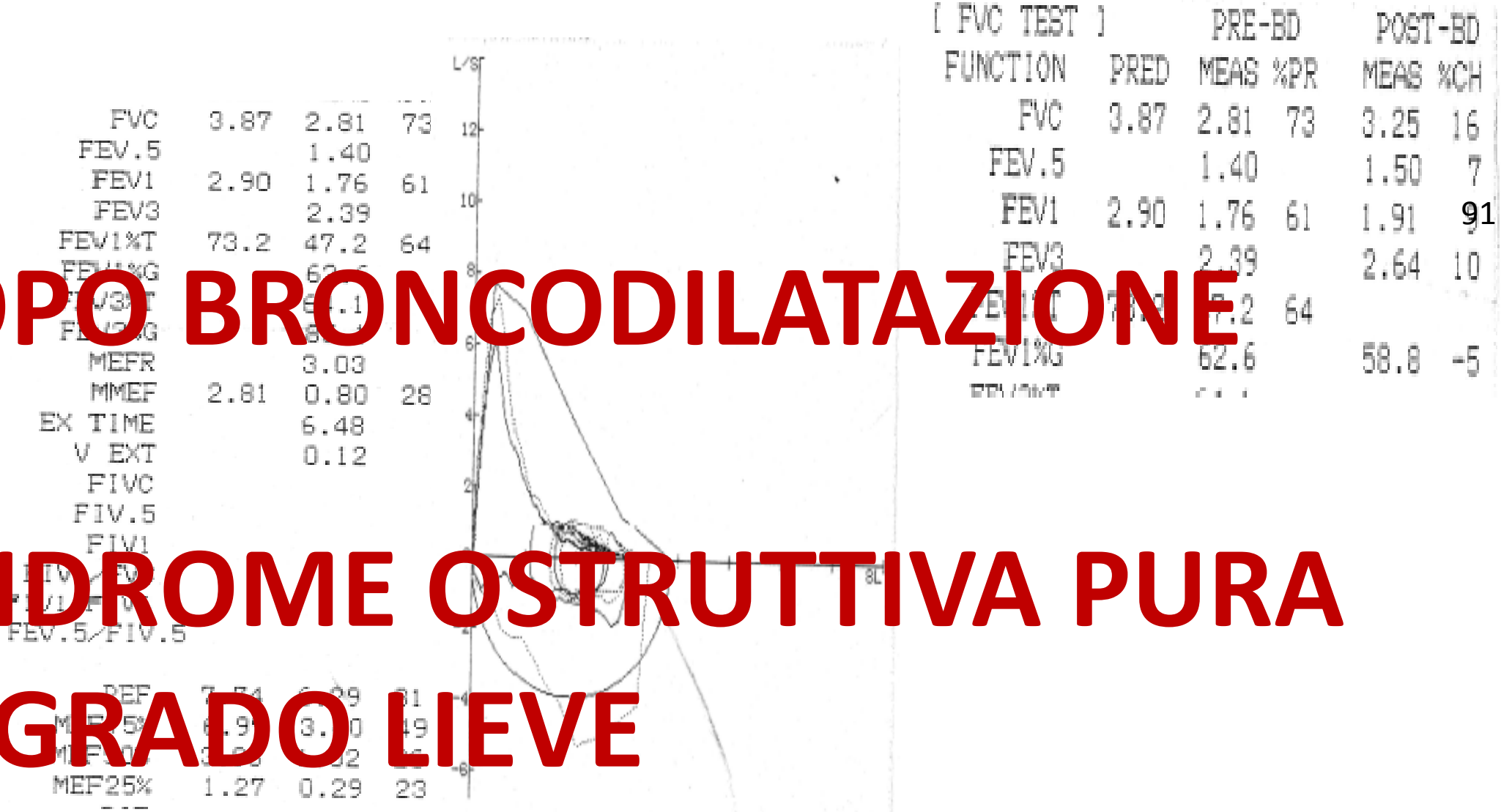
OSTRUZIONE «BORDERLINE»

DOPO BRONCODILATATORE FEV1/FVC 0.77

POSSIBILE SINDROME RESTRITTIVA

FVC	3.87	2.81	73
FEV.5		1.40	
FEV1	2.90	1.76	61
FEV3		2.39	
FEV1%T	73.2	47.2	64
FEV1%G		62.6	
FEV3%T		64.1	
FEV3%G		85.1	
MEFR		3.03	
		0.12	
FIVC			
FIV1			
FIV1/FIVC			
FEV.5/FIV.5			
PEF	7.71	6.23	81
MEF75%	6.99	3.40	49
MEF50%	3.98	1.02	26
MEF25%	1.27	0.29	23

SINDROME OSTRUTTIVA MODERATA
POSSIBILE CONCOMITANTE COMPONENTE RESTRITTIVA



DOPO BRONCODILATAZIONE

SINDROME OSTRUTTIVA PURA DI GRADO LIEVE

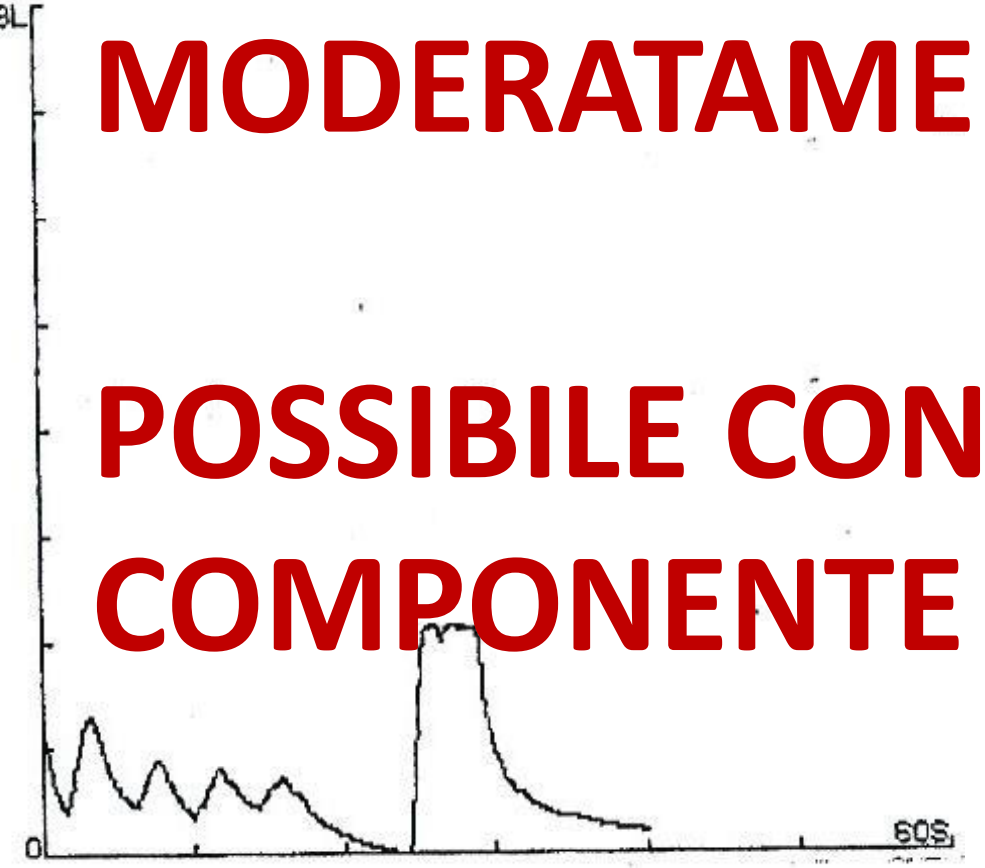
ID.#: 01 SEX: FEMALE
AGE: 61 YRS HT: 162 cm WT: 58 kg
RACE: WHITE 100 %

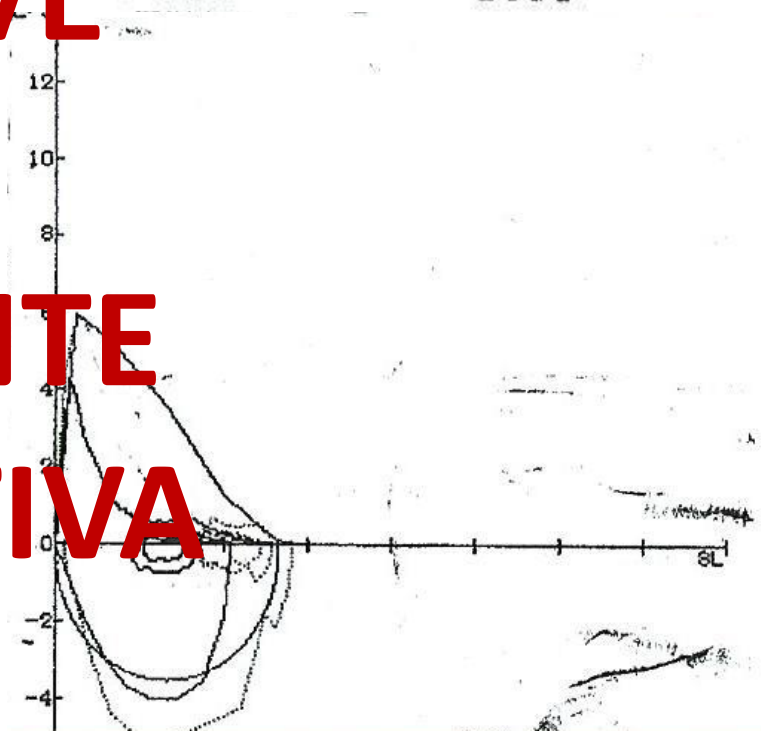
[VC TEST] PRE-BD POST-BD
FUNCTION PRED MEAS %PR MEAS %CH
VC 2.81 2.21 79

[FVC TEST] PRE-BD
FUNCTION PRED MEAS %PR
FVC 2.70 2.11 78
FEV.5 0.90
FEV1 2.27 1.17 52
FEV3 1.58
FEV1%T 77.4 52.9 68
FEV1%G - 55.5
FEV3%T 71.5
FEV3%G 74.9
MEFR 0.96
MMEF 2.88 0.37 13
EX TIME 10.85
V EXT 0.06

SINDROME OSTRUTTIVA MODERATAMENTE GRAVE

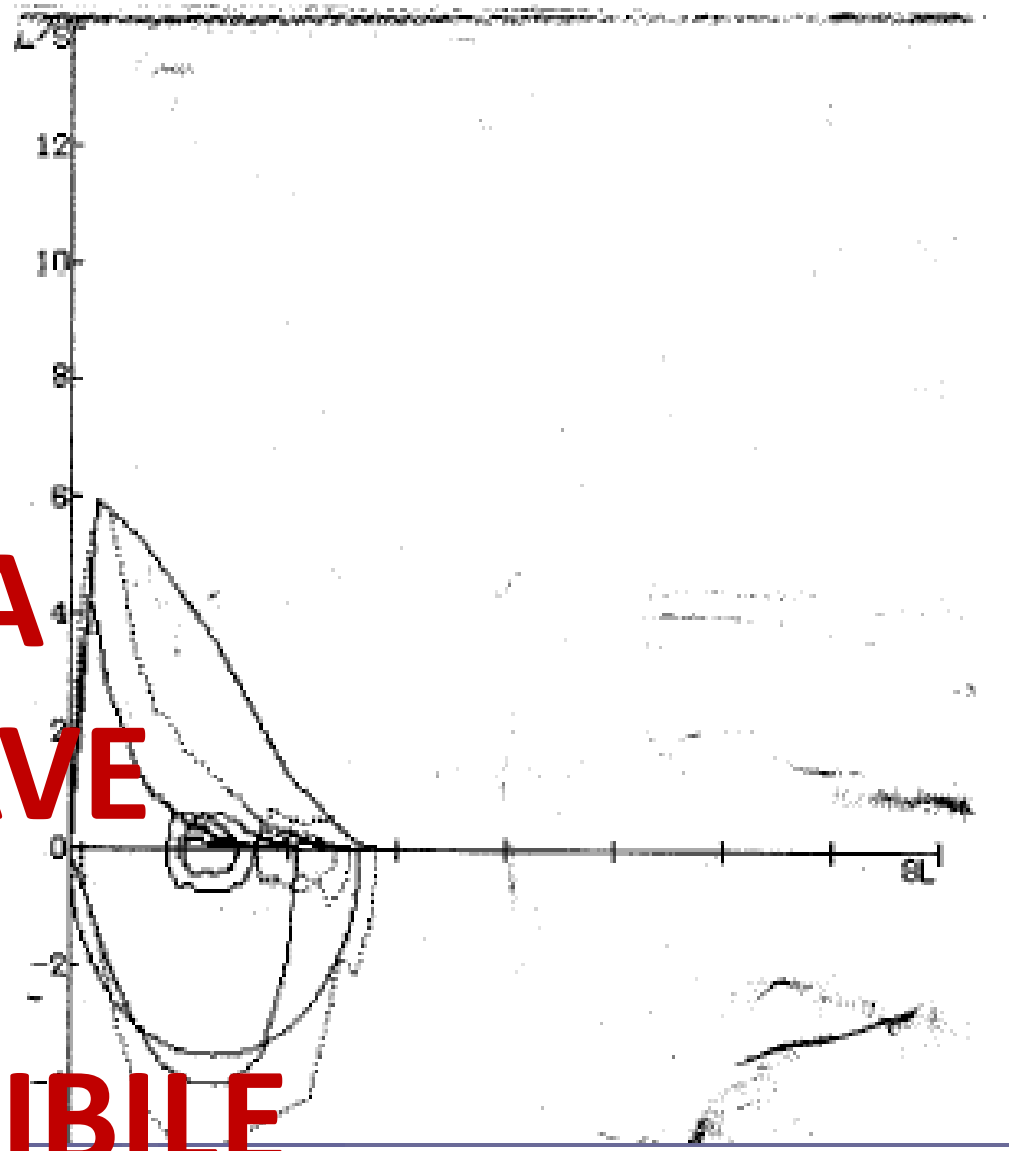
POSSIBILE CONCOMITANTE COMPONENTE RESTRITTIVA





ID.#: 01 SEX: FEMALE
AGE: 61 YRS HT: 162 cm WT: 58 kg
RACE: WHITE 100 %

[FVC TEST]		PRE-BD		POST-BD	
FUNCTION	PRED	MEAS	%PR	MEAS	%CH
FVC	2.70	2.11	78	2.61	24
FEV.5		0.90		1.35	50
FEV1	2.27	1.17	52	1.77	51
FEV3		1.58		2.27	44
FEV1%G		55.5		67.8	22
MEFR		0.96		2.78	190
MMEF	2.88	0.37	13	0.99	165
EX TIME		10.85		9.75	-9



SINDROME OSTRUTTIVA
MODERATAMENTE GRAVE
PARZIALMENTE REVERSIBILE

FVC TEST :

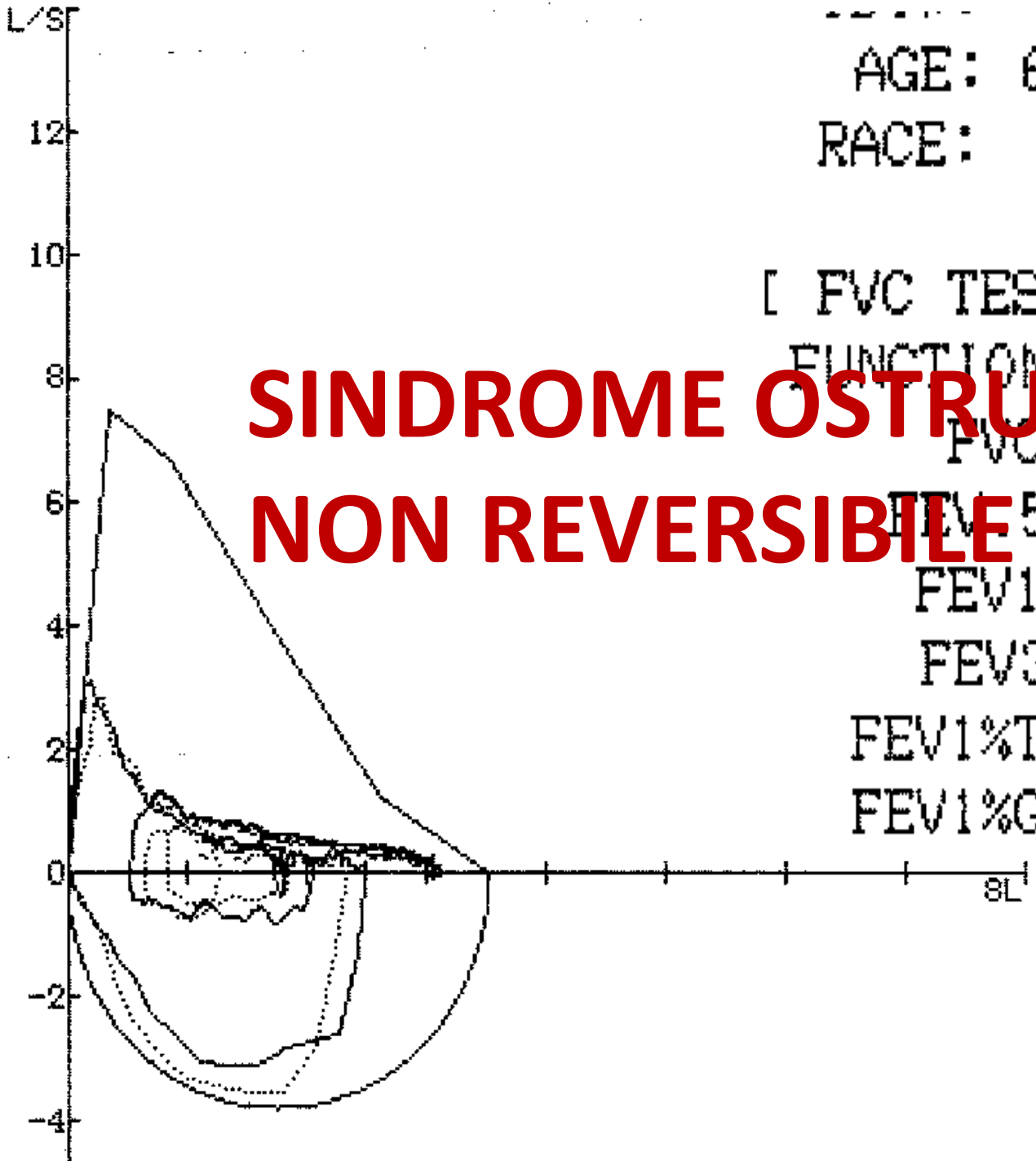
FUNCTION	PRED	PRE-BD MEAS	%PR	POST-BD MEAS	%CH
FVC	2.18	1.77	81	1.94	10
FEV.5		0.64		0.74	16
FEV1	1.80	0.84	47	1.01	20
FEV3		1.26		1.44	13
FEV1%T	75.9	44.9	59		
FE[illegible]		[illegible]		[illegible]	
FE[illegible]		67.4			
FEV3%G		71.2		74.2	4
MEFR		0.40		0.65	65
MMEF	2.52	0.25	10	0.33	27
EX TIME		11.45		13.58	18
[illegible]		[illegible]		[illegible]	

SINDROME OSTRUTTIVA GRAVE

NON REVERSIBILE

	PRE		POST	VARIAZIONE
FVC	1.770	91%	1.940	+ 10%
FEV1	840	47%	1.010	+ 20%

+ 20% FEV1 ma < 200 cc



AGE: 69 YRS HT: 168 cm WT: 58 kg
RACE: WHITE 100 %

[FVC TEST]

		PRE-BD		POST-BD	
FUNCTION	PRED	MEAS	%PR	MEAS	%CH
FVC	3.53	3.17	90	3.12	0
FEV.5		0.91		0.90	0
FEV1	2.73	1.35	49	1.34	0
FEV3		2.54		2.39	-4
FEV1%T	74.9				
FEV1%G		42.6		42.9	1

SINDROME OSTRUTTIVA GRAVE NON REVERSIBILE

[FVC TEST]

FUNCTION	UNIT	MEAS	PRED	%PR
FVC	L	2.71	2.80	97
FEV.5	L	0.94		
FEV1	L	1.37	2.36	58
FEV3	L	2.06		
FEV1%T	%	46.8	76.8	61
FEV1%G	%	50.6		
FEV3%T	%	70.3		
FEV3%G	%	76.0		
MEFR	L/S	1.35		
MMEF	L/S	0.52	3.81	8
EX TIME	S	9.53		
V EXT	L	0.05		
FIVC	L			
FIV.5	L			
FIV1	L			
FIV1/FVC	%			
FIV1/FIVC	%			
FEV.5/FIV.5				
PEF	L/S	3.84	6.11	63
MEF75%	L/S	1.35	5.34	25
MEF50%	L/S	0.70	3.62	19
MEF25%	L/S	0.23	1.25	18

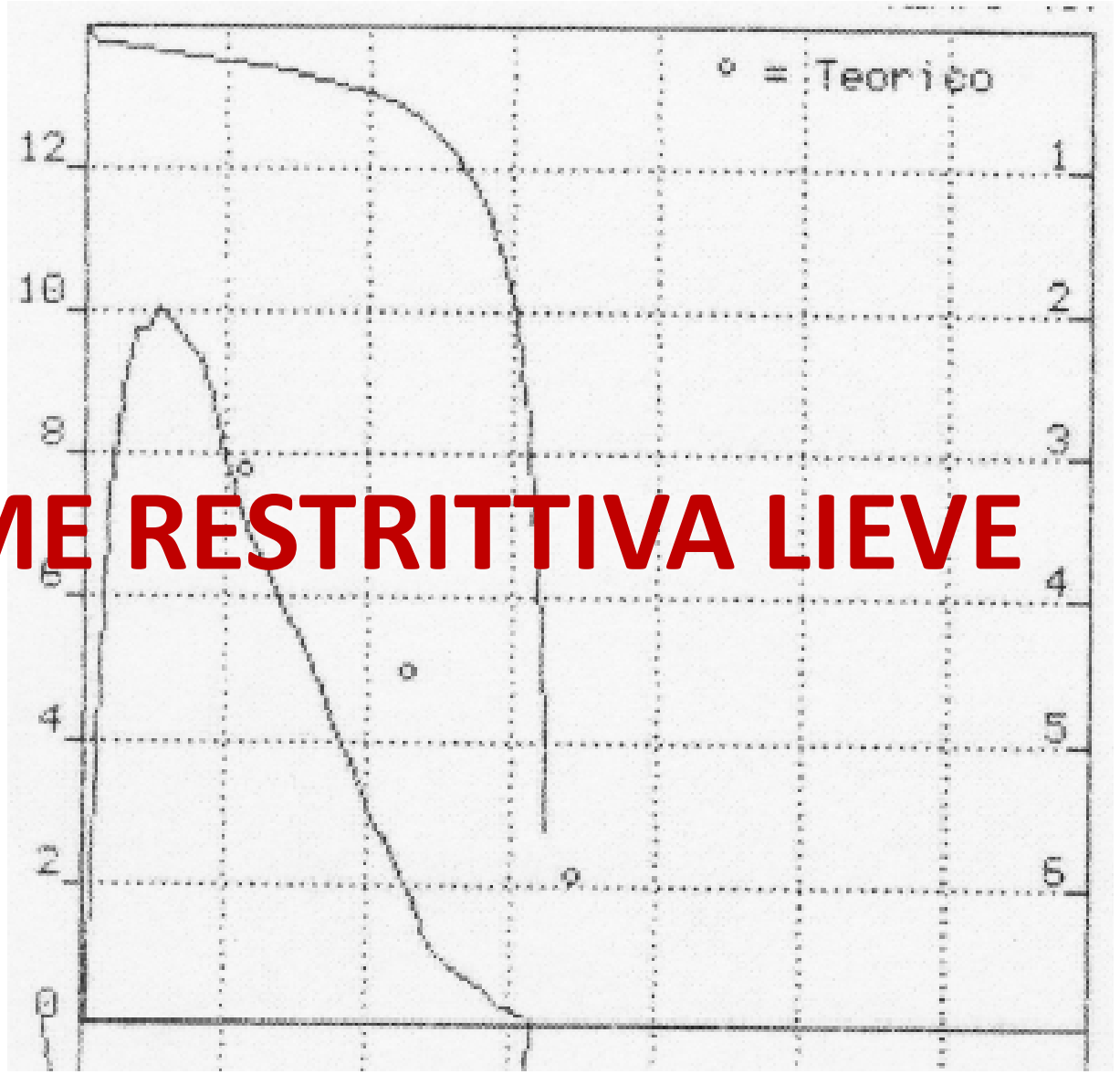
SINDROME OSTRUTTIVA MODERATAMENTE GRAVE

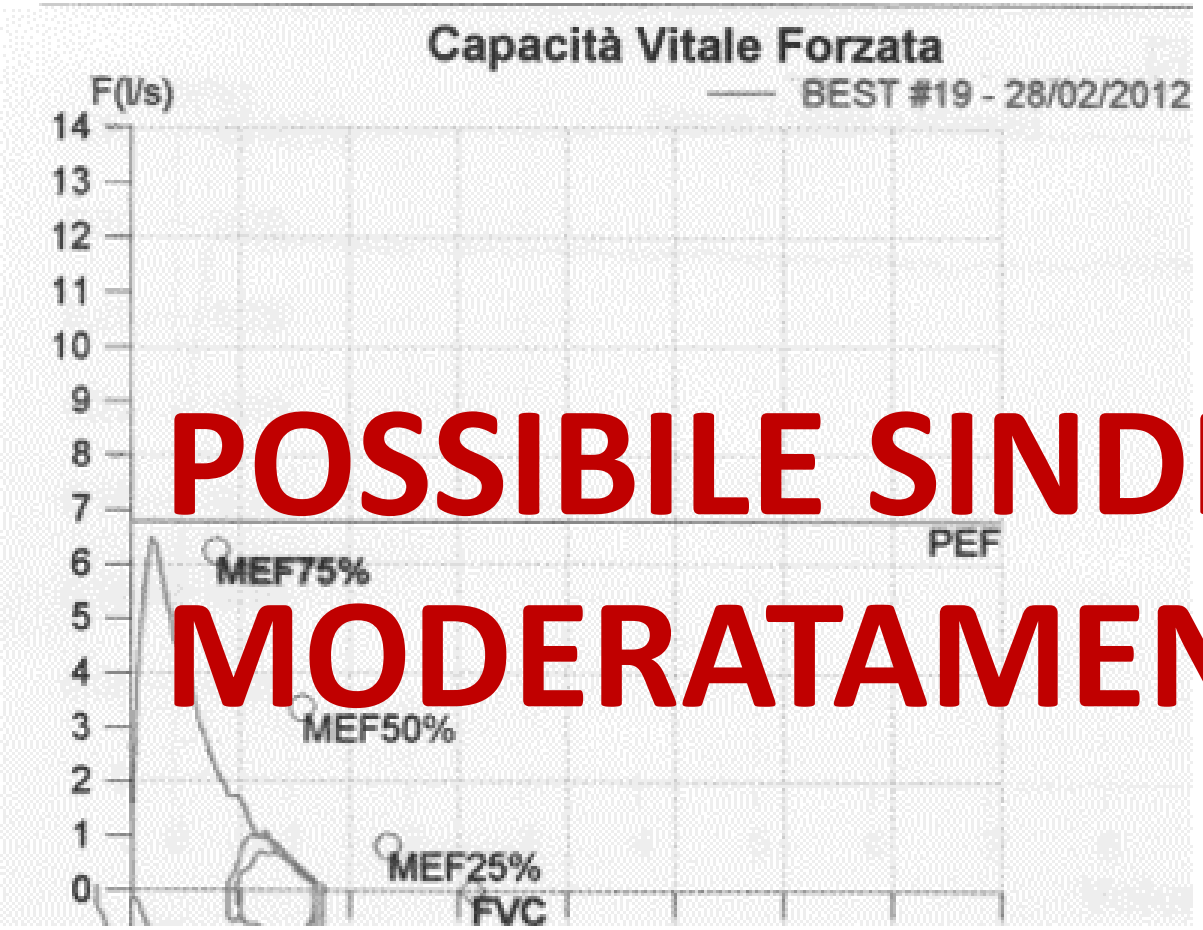
0 1 2 3 4 5 6

(-) VOLUME (L)

Parametro		Misurato	Teorico	%Teorico
*FVC	L	3.27	4.58	71
*FEV1	L	2.80	3.80	74
*PEF	L/s	10.24	9.08	113
FVC	L	3.27	4.58	71
FEV1	L	2.80	3.80	74
FEV1%/FVC	%	85.6	80.4	106
FIVC	L	[illegible]	[illegible]	[illegible]
FIV1	L	3.49	3.80	92
FIV1%	%	100.0	80.4	124
FEF2575	L/s	3.47	4.40	79
PEF	L/s	10.24	9.08	113
PIF	L/s	4.69		
FET	s	4.92		
FEF25%	L/s	9.08	7.82	116
FEF50%	L/s	4.64	4.99	93
FEF75%	L/s	1.03	2.16	48

POSSIBILE SINDROME RESTRITTIVA LIEVE



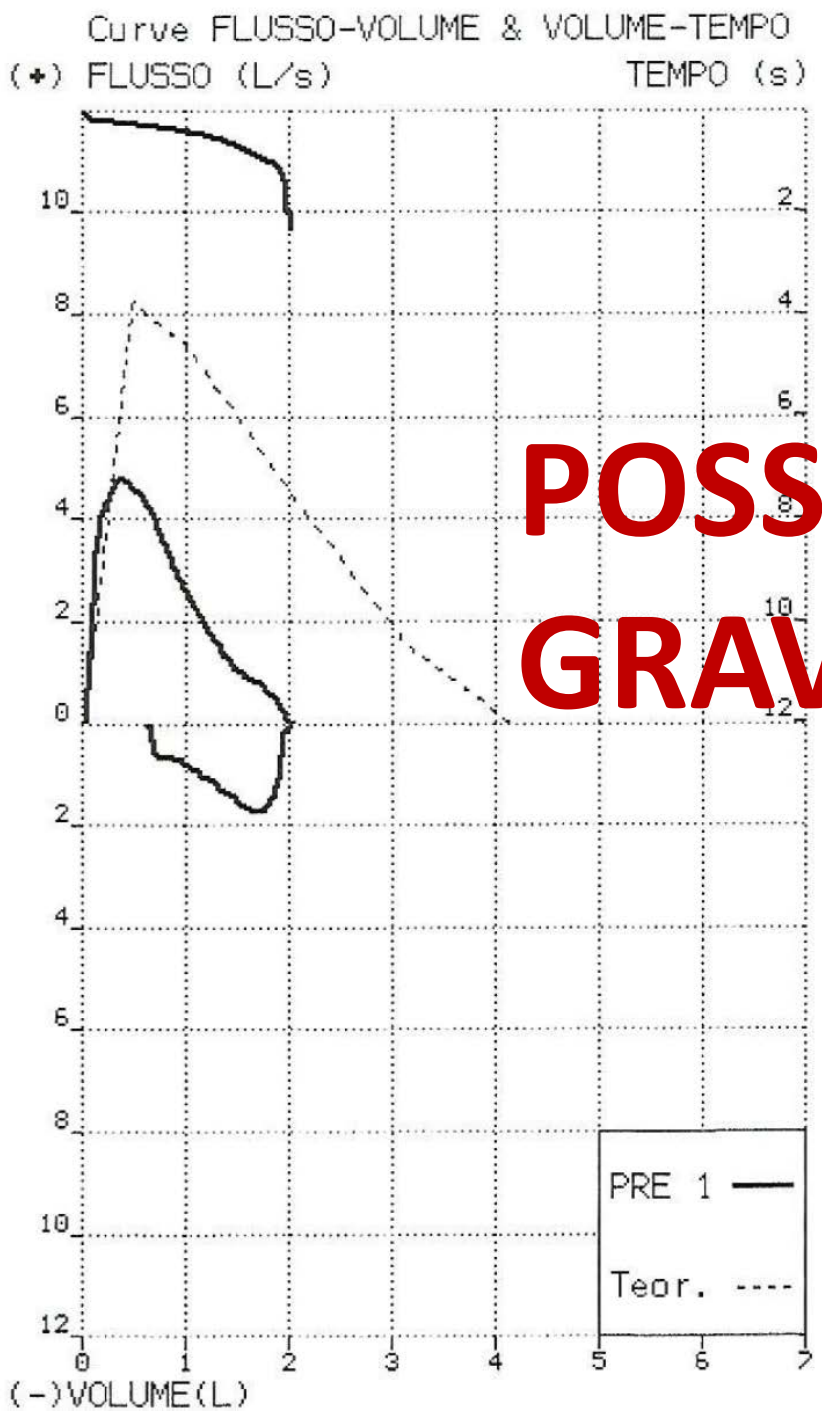


Capacità Vitale Forzata

Parametro	UM	Descrizione	Teor.	TEST#19	%Teor.
Best FVC	l	FVC migliore	3.13	1.78	56.8
FVC	l	Capacità Vitale Forzata	3.13	1.78	56.8
FEV1	l	Volume Espirato dopo 1 sec	2.25	1.52	67.5
PEF	l/sec	Picco di Flusso Espiratorio	6.19	5.04	81.5
FIF	l/sec	Picco di Flusso Inspiratorio			
FEV1/FVC%	%	FEV1 come percentuale dell'FVC	71.6	85.6	119.6
FEV1/FVC%	%	FEV1 come percentuale dell'FVC	71.6	75.5	105.5

POSSIBILE SINDROME RESTRITTIVA MODERATAMENTE GRAVE

FVC 1.780 56.8%
FEV1 1.520 67.5%
FEV1/FVC 119%



PARAMETRI		Teorico	PRE #1	%Teor.
*FVC	L	4.19	1.99	47
*FEV1	L	3.27	1.82	56
*PEF	L/s	8.27	4.83	58
FVC	L	4.19	1.99	47
FEV1	L	3.27	1.82	56
FEV1/FVC	%	75.7	91.5	121
FEV1/VC	%	75.7	51.6	68
PEF	L/s	8.27	4.83	58
FEF25	L/s	7.34	4.53	62
FEF50	L/s	4.37	2.41	55
FEF75	L/s	1.62	1.02	63
FEF25-75	L/s	3.38	2.12	63
FEF75-85	L/s		0.92	
ELA		64	114	178
EVol	mL	0	60	
FET	s	6.00	2.37	40

POSSIBILE SINDROME RESTRITTIV

GRAVE

FUNCTION	PRED	MEAS	%PR
FVC	3.67	2.81	73
FEV.5		1.40	
FEV1	2.90	1.76	61
FEV3		2.39	
FEV3%T		64.1	
FEV3%G		85.1	
MEFR		3.03	
MMEF	2.81	0.80	28
EX TIME		6.48	
V EXT		0.12	
FIV1/FVC			
FIV1/PIVC			
PEF	7.74	6.29	81
MEF75%	6.99	3.40	49
MEF50%	3.98	1.02	26
MEF25%	1.27	0.29	23

[VC TEST]		PRE-BD	POST-BD
FUNCTION	PRED	MEAS %PR	MEAS %CH
VC	4.03	3.73 93	
ERV		0.59	
IRV		2.7	
FRC	3.79		
RV	2.82		
TLC	7.14		
RV/TLC	48.9		

SINDROME OSTRUTTIVA MODERATA

POSSIBILE CONCOMITANTE COMPONENTE RESTITTIVA

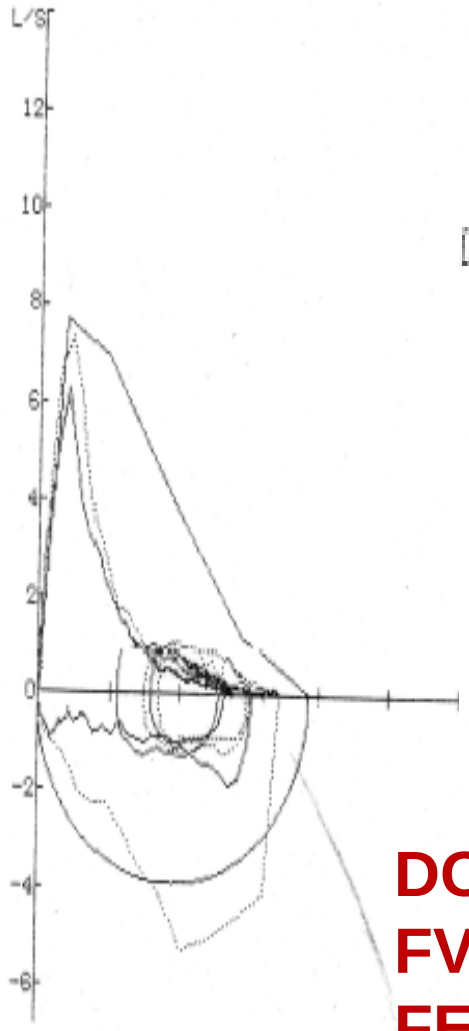
FVC 2.810 = 73%
FEV1 1.760 = 61%
FEV1/VC = 62%

VC LENTA 93%

SINDROME OSTRUTTIVA PURA

FVC 2.810 = 73%
FEV1 1760 = 61%
FEV1/FVC = 62%

FVC	3.87	2.81	73
FEV.5		1.40	
FEV1	2.90	1.76	61
FEV3		2.39	
FEV1%T	73.2	47.2	64
FEV1%G		62.6	
FEV3%T		64.1	
FEV3%G		85.1	
MEFR		3.03	
MMEF	2.81	0.80	28
EX TIME		6.48	
V EXT		0.12	
FIVC			
FIV.5			
FIV1			
FIV1/FVC			
FIV1/FIVC			
FEV.5/FIV.5			
PEF	7.74	6.29	81
MEF75%	6.99	3.40	49
MEF50%	3.98	1.02	26
MEF25%	1.27	0.29	23



[FVC TEST]		PRE-BD		POST-BD	
FUNCTION	PRED	MEAS	%PR	MEAS	%CH
FVC	3.87	2.81	73	3.25	16
FEV.5		1.40		1.50	7
FEV1	2.90	1.76	61	1.91	9
FEV3		2.39		2.64	10
FEV1%T	73.2	47.2	64		
FEV1%G		62.6		58.8	-5

DOPO BRONCODILATAZIONE
FVC 3.250 = 83%
FEV1 1.910 = 65%
FEV1/FVC = 58%

SPIROMETRIA BASALE

SINDROME OSTRUTTIVA GRAVE

POSSIBILE COMPONENTE RESTRITTIVA

FUNCTION	PRED	PRE-BD MEAS	%PR
FVC	3.40	2.38	70
FEV.5		0.83	
FEV1	2.95	1.22	41
FEV3		1.98	
FEV1%T	82.6	43.6	53
FEV1%G		51.3	
FEV3%T		70.7	
FEV3%G		83.2	
MEFR		1.11	
MMEF	3.80	0.63	17
EX TIME		6.90	
V EXT		0.03	
FIVC			
FIV.5			
FIV1			
FIV1/FVC			
FIV1/FIVC			
FEV.5/FIV.5			
PEF	6.72	0.12	48
MEF75%	5.96	1.27	21
MEF50%	4.28	0.70	16
MEF25%	1.96	0.31	16

DOPO BRONCODILATAZIONE

FUNCTION	PRED	PRE-BD MEAS	%PR	POST-BD MEAS	%CH
FVC	3.40	2.38	70	3.95	66
FEV.5		0.83		1.63	96
FEV1	2.95	1.22	41	2.31	89
FEV3		1.98		3.34	69
FEV1%T	82.6	43.6	53		
FEV1%G		51.3		58.5	14
FEV3%T		70.7			
FEV3%G		83.2		84.6	2
MEFR		1.11		3.70	233
MMEF	3.80	0.63	17	1.16	84
EX TIME		6.90		9.98	45
V EXT		0.03		0.08	167

POST

FVC 2.380 = 70%
FEV1 1,220 = 41%
FEV1/FVC = 43%

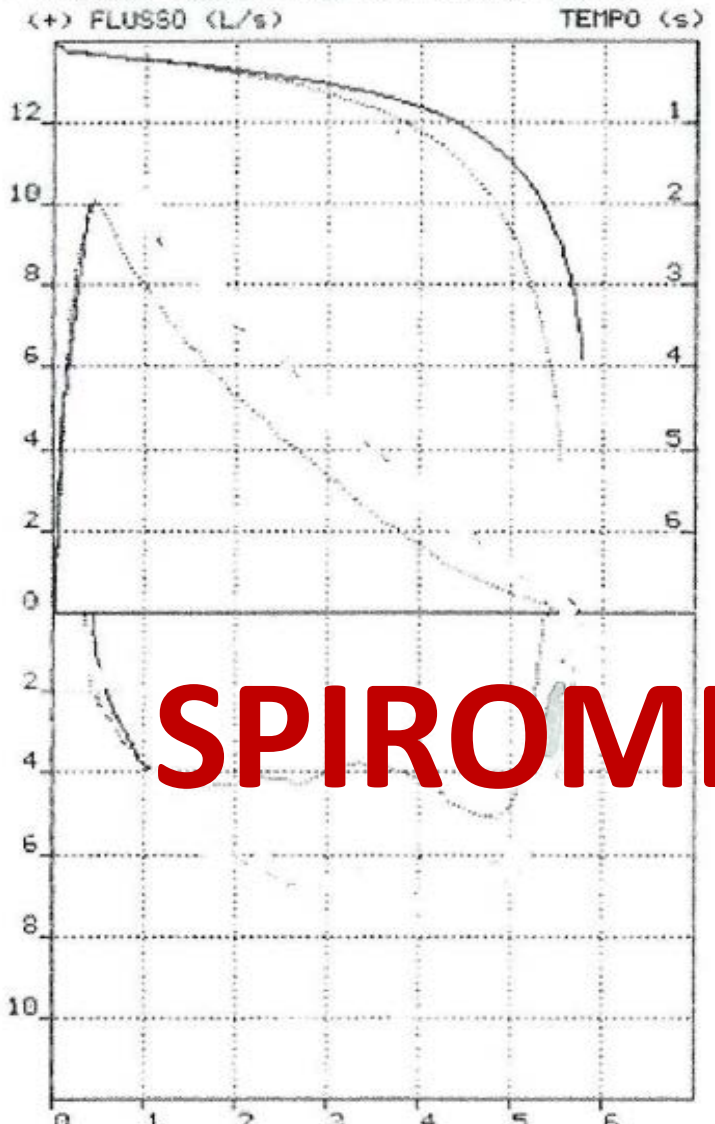
FVC 3.950 = 116%
FEV1 2.310 = 78%
FEV1/FVC = 58%

SINDROME OSTRUTTIVA LIEVE

ETA'	31	AUTORE	ERS (ECCS)
SESSO	♂	PRE Test File N°	39
STATURA cm	202	POST Test File N°	40
PESO Kg	96	DOSE	200

RISULTATI SPIROMETRIA - MIGLIOR TEST

CURVE FLUSSO-VOLUME & VOLUME-TEMPO



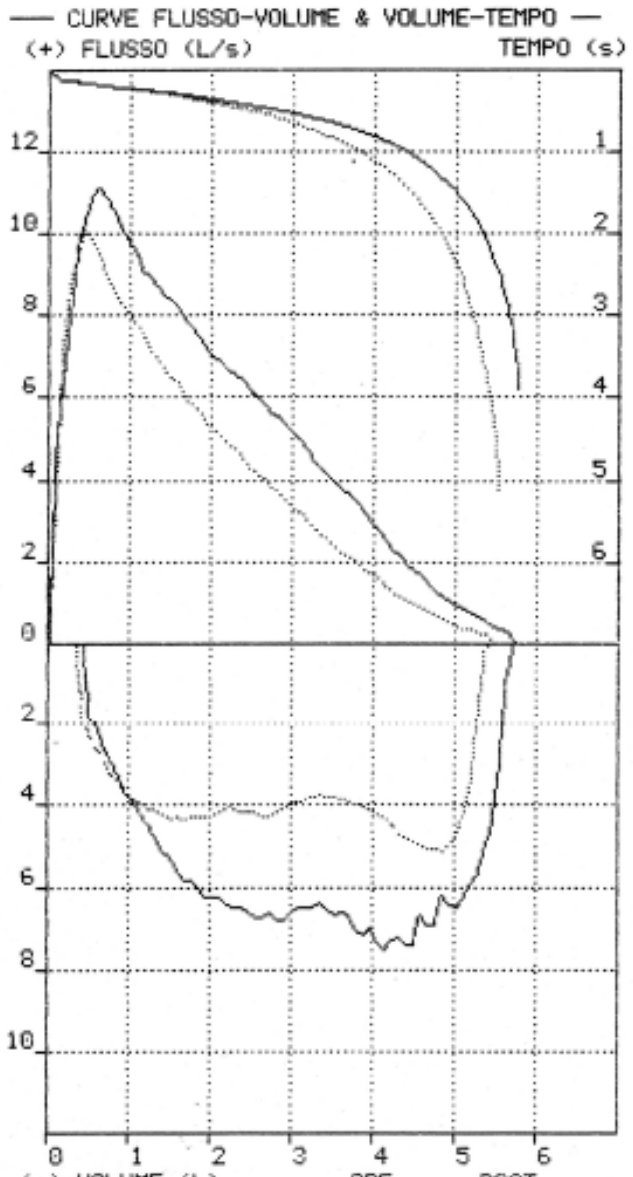
*FVC	L	5.55	86
*FEV1	L	4.14	78
*PEF	L/s	10.21	91
FVC	L	5.55	86
FEV1	L	4.14	78
FEV1%/FVC	%	74.6	91
FIVC	L	5.14	79
FIV1	L	5.14	97
FIV1%	%	100.0	123
FEF2575	L/s	3.28	62
PEF	L/s	10.21	91

SPIROMETRIA NELLA NORMA

FVC 5.550 86%
FEV1 4.140 78%
FEV1/FVC 74%

ETA'	31	AUTORE	ERS (ECCS)		
SESSO	♂	PRE Test File N°	39		
STATURA cm	202	POST Test File N°	40		
PESO Kg	96	DOSE	200		

RISULTATI SPIROMETRIA - MIGLIOR TEST



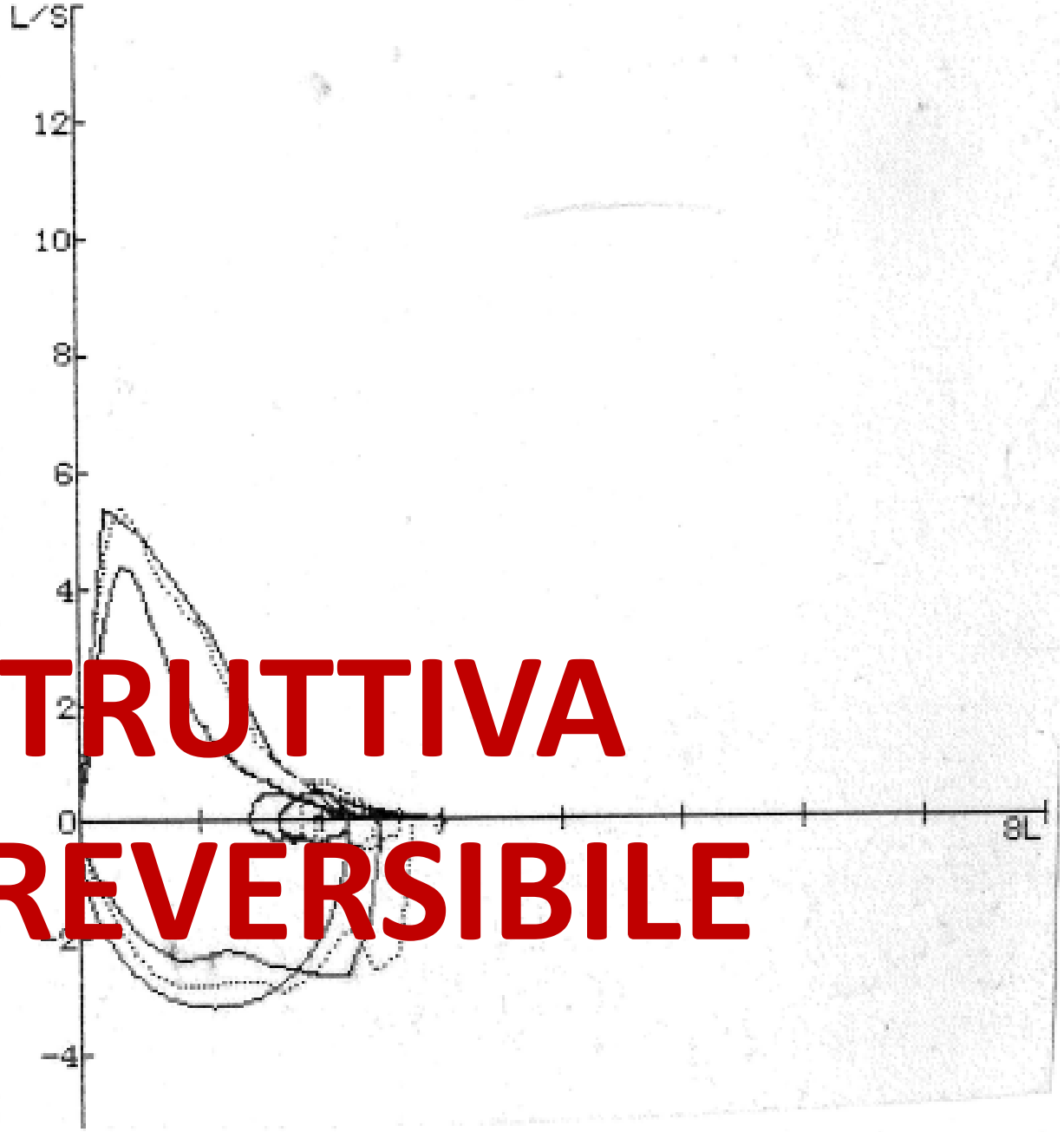
Parametro		PRE	%Teor	POST	%Teor	%PRE
*FVC	L	5.55	86	5.81	90	105
*FEV1	L	4.14	78	4.75	90	115
*PEF	L/s	10.21	91	11.14	99	109
FVC	L	5.55	86	5.81	90	105
FEV1	L	4.14	78	4.75	90	115
FEV1%/FVC	%	74.6	91	81.8	100	110
FIVC	L	5.14	79	5.34	82	104
FIV1	L	5.14	97	5.33	101	104
FIV1%	%	100.0	123	99.8	122	100
FEF2575	L/s	3.28	62	5.08	96	155
PEF	L/s	10.21	91	11.14	99	109
PIF	L/s	5.13		7.99		140

FVC = 5.810

FEV1 = 4.750

FEV1/FVC = 81%

[FVC TEST]		PRE-BD		POST-BD	
FUNCTION	PRED	MEAS	%PR	MEAS	%CH
FVC	2.24	2.80	125	3.08	10
FEV.5		1.28		1.59	24
FEV1	1.85	1.66	90	1.99	20
FEV3		2.20		2.52	15
FEV1%T	75.7	64.8	86		
FEV1%G		59.3		64.6	9
FEV3%T		85.9			
FEV3%G		78.6		81.8	4
MEFR		2.50		4.00	60
MMEF	2.51	0.62	25	0.90	47
EX TIME		13.58		13.27	-1
V EXT		0.12		0.10	0
[illegible]					
FIV1					
FIV1/FVC					
[illegible]					
[illegible]					
PEF	5.43	4.39	81	5.45	24
MEF75%	4.90	2.99	61	3.96	32
MEF50%	3.25	0.86	26	1.27	48
MEF25%	1.01	0.20	20	0.29	45



SINDROME OSTRUTTIVA TOTALMENTE REVERSIBILE

Parametro		Misurato	Teorico	%Teorico
*FVC	L	2.69	3.33	81
*FEV1	L	1.09	2.62	42
*[illegible]	L/s	3.26	7.35	44
FVC	L	2.69	3.33	81
FEV1	L	1.09	2.62	42
FEV1%/FVC	%	40.5	75.7	54
FIVC	L	1.48	3.33	44
[illegible]		[illegible]	[illegible]	[illegible]
FIV1%	%	100.0	75.7	132
FEF2575	L/s	.30	3.09	10
PEF	L/s	3.26	7.35	44
[illegible]		[illegible]		

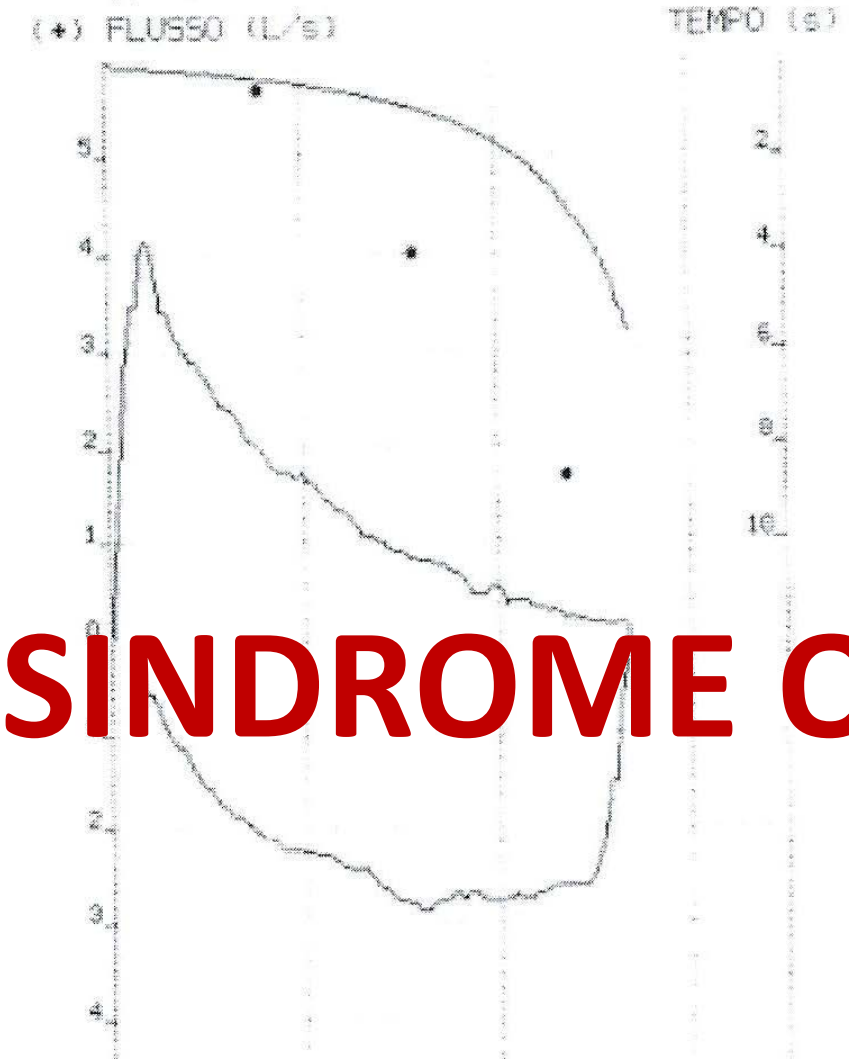
SINDROME OSTRUTTIVA GRAVE

POSSIBILE COMPONENTE RESTRITTIVA

REVERSIBILITA' NON VALUTATA

RAPPORTO SPIROMETRICO MIGLIOR TEST

CURVE FLUSSO-VOLUME & VOLUME-TEMPO



PARAMETRO		PRE	TEORICO	%TEORICO
FVC	L	2.69	3.17	85
FEV1	L	1.65	2.72	61
FEV1%	%	61.3	80.9	76
PEF	L/s	4.13	6.51	63
FEF2575	L/s	.95	3.48	27
FEF25%	L/s	2.08	5.74	36
FEF50%	L/s	.98	4.05	24
FEF75%	L/s	.39	1.73	23
FIVC	l			

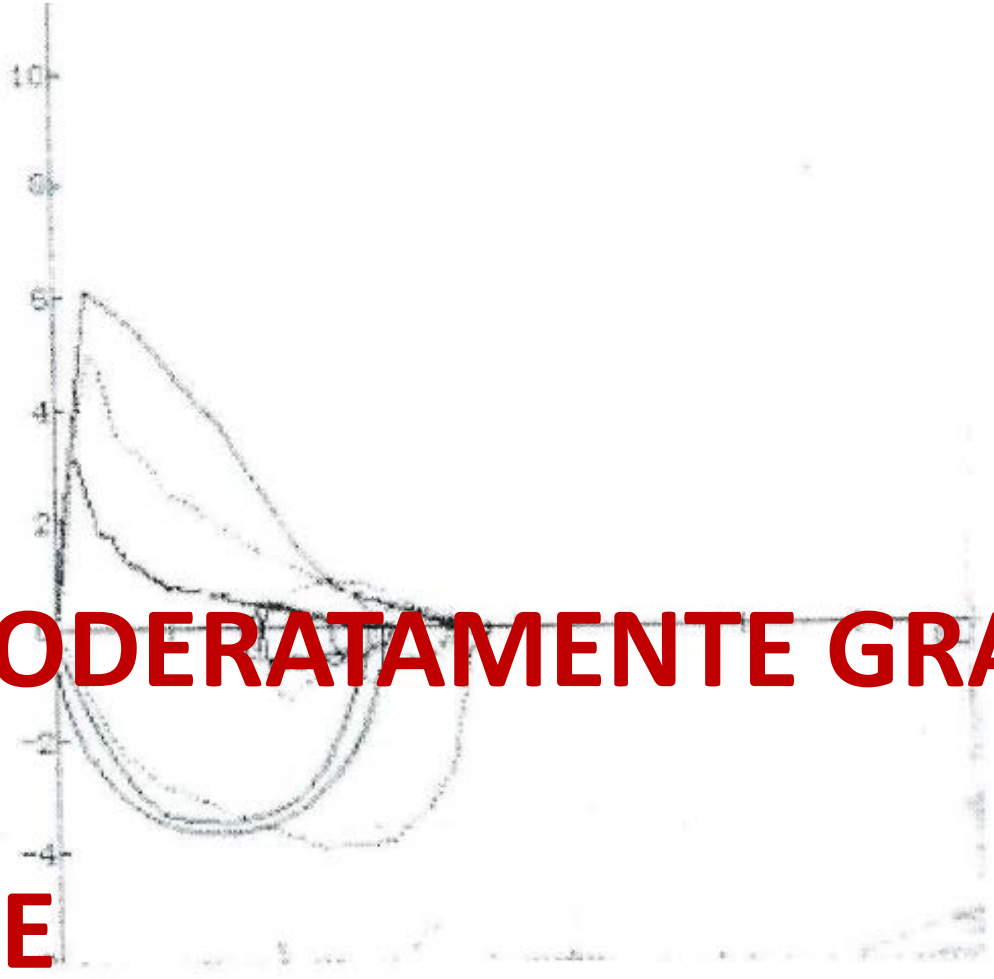
SINDROME OSTRUTTIVA MODERATA

FVC 2.690 85%

FEV1 1.650 61%

FEV1/FVC 61%

[FVC TEST]		PRE-BD		POST-BD	
FUNCTION	PREI	MEAS	%PR	MEAS	%CH
FVC	2.86	2.94	103	3.81	30
FEV.5		0.38		1.52	73
FEV1	2.44	1.29	53	2.21	71
FEV3		2.15		3.20	49
FEV1%T	78.9	46.1	58		
FEV1%G		43.9		58.0	32
FEV3%T		76.8			
FEV3%G		73.1		84.0	15
MEFR		1.20		3.23	168
[illegible]		[illegible]		[illegible]	
EX TIME		10.25		9.24	-9
V EXT		0.04		0.09	125



SINDROME OSTRUTTIVA MODERATAMENTE GRAVE

PARZIALMENTE REVERSIBILE

	PRE		POST	VARIAZIONE
OTTIMA RISPOSTA AL BRONCODILATATORE				
FVC	**2.940**	**103%**	**3.810**	**+ 30%**

ETA'	57	AUTORE	ERS (ECCS)		
SESSO	♂	PRE Test File N°	24		
STATURA cm	180	POST Test File N°	25		
PESO Kg	97	DOSE	200		

RISULTATI SPIROMETRIA - MIGLIOR TEST

Parametro		PRE	%Teor	POST	%Teor	%PRE
*FVC	L	4.31	95	4.67	103	108
*FEV1	L	2.31	64	2.97	83	129
*PEF	L/s	5.52	63	8.26	94	150
FVC	L	4.31	95	4.67	103	108
FEV1	L	2.31	64	2.97	83	129
FEV1%/FVC	%	53.6	70	63.6	83	119
FIVC	L	4.14	91	4.42	97	107
FIV1	L	4.14	115	4.42	123	107
FIV1%	%	100.0	130	100.0	130	100
[illegible]	L/s	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
[illegible]	L/s	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]

SINDROME OSTRUTTIVA MODERATA PARZIALMENTE REVERSIBILE

PRE

FVC 4.310 = 95%

FEV1 2.310 = 64%

FEV1/FVC = 53%

POST

FVC 4.670 = 103% + 8%

FEV1 2.970 = 83% + 29%

FEV1/FVC = 63%

ID.#: 01 SEX: MALE
AGE: 69 YRS HT: 168 cm WT: 58 kg
RACE: WHITE 100 %

[FVC TEST]		PRE-BD		POST-BD	
FUNCTION	PRED	MEAS	%PR	MEAS	%CH
FVC	3.53	3.17	90	3.12	0
FEV.5		0.91		0.90	0
FEV1	2.73	1.35	49	1.34	0
FEV3		2.54		2.39	-4
FEV1%T	[illegible]				
FEV1%G		[illegible]		[illegible]	[illegible]
FEV3%T					
FEV3%G		80.1		76.6	-3
[illegible]		[illegible]		[illegible]	[illegible]
[illegible]	3.[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
EX TIME		6.86		6.27	-7
V EXT		0.04		0.08	100

SINDROME OSTRUTTIVA GRAVE NON REVERSIBILE

PRE

FVC 3.170 = 90%

FEV1 1.350 = 49%

FEV1/FVC = 42%

POST

FVC 3.120 +/- 0%

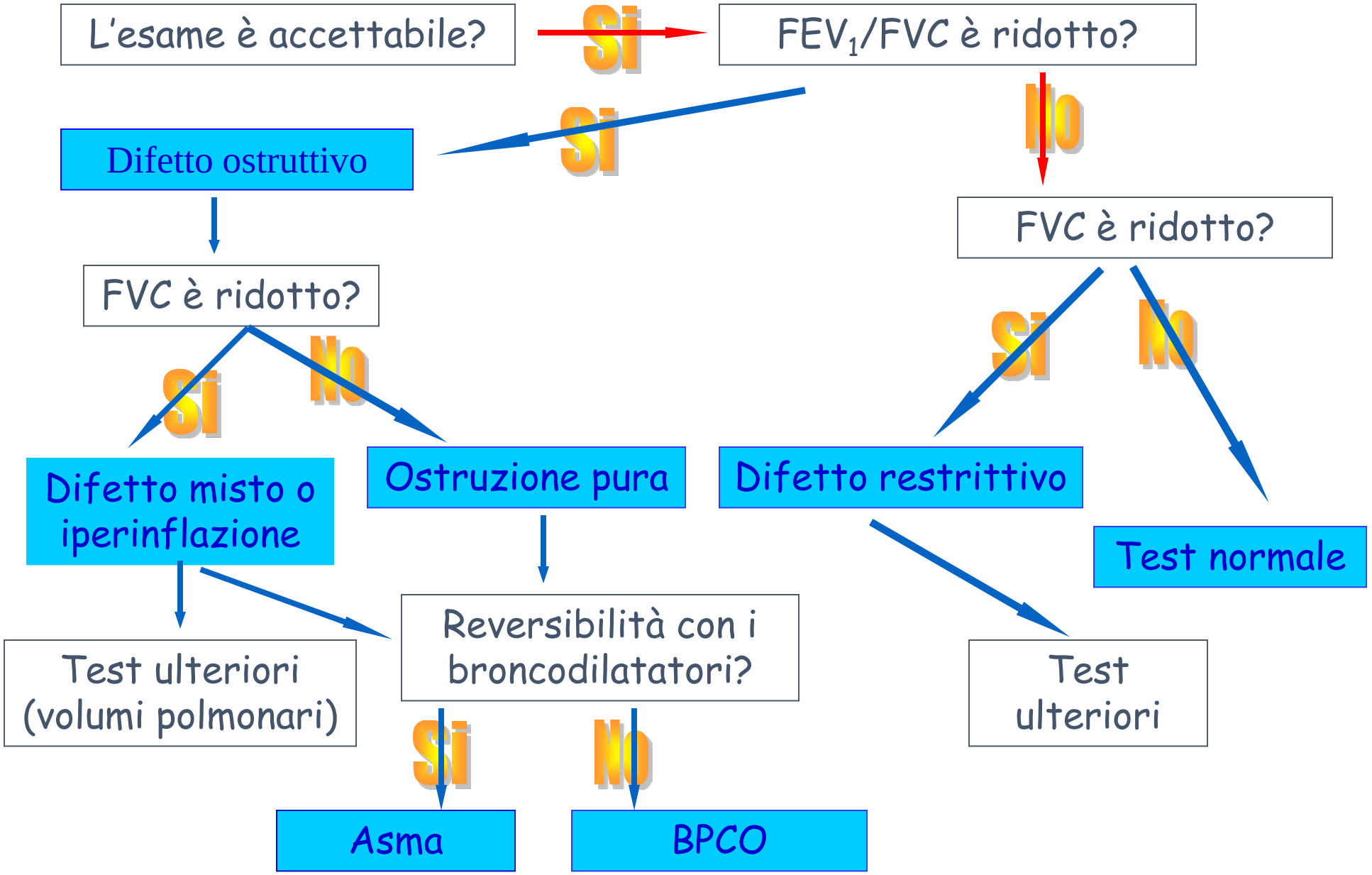
FEV1 1340 +/- 0%

SINDROME OSTRUTTIVA LIEVE

TOTALMENTE REVERSIBILE

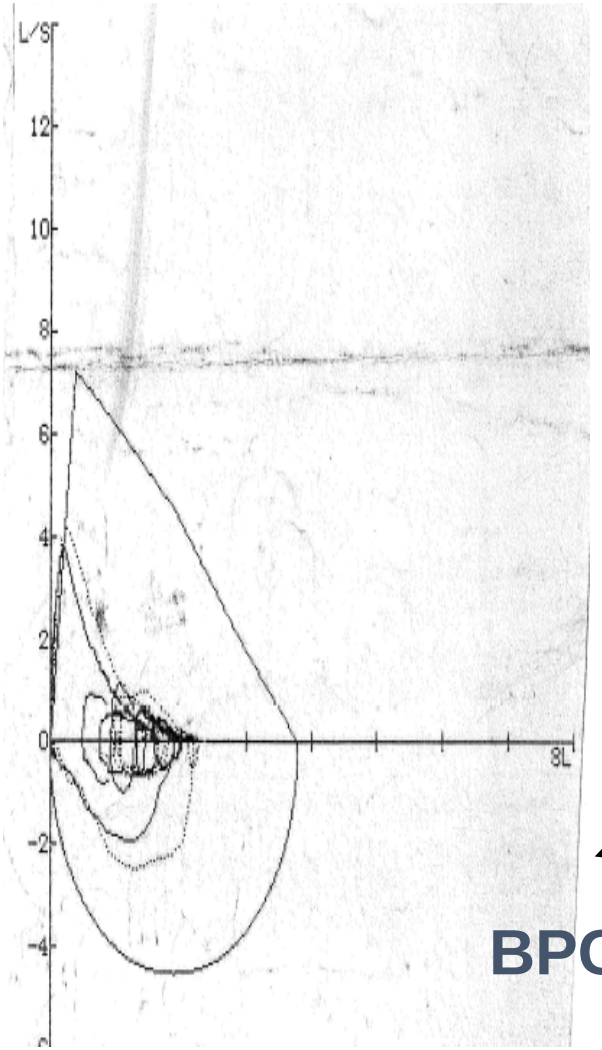
[FVC TEST]		PRE-BD		POST-BD	
FUNCTION	PRED	MEAS	%PR	MEAS	%CH
FVC	3.99	4.17	105	4.32	4
FEV.5		2.20		2.75	25
FEV1	3.49	2.95	85	3.56	20
FEV%					
FEV%T		70.7			
FEV1%G		70.7		82.4	16
FEV3%T		106.2			
FEV3%G		95.0		99.3	5
MEFR		6.25		6.67	7
MMEF	4.20	1.98	47	3.43	73
EX TIME		4.39		3.73	-14
FIVC				4.20	2
FIV.5		2.02		1.74	-12
FIV1		3.95		3.80	-3
FIV1/FVC		94.7		88.0	-6
FIV1/FIVC		95.9		90.5	-5
FEV.5/FIV.5		1.09		1.58	45
PEF	7.50	7.96	106	8.78	10
MEF75%	6.44	5.26	82	8.02	52
MEF50%	4.70	2.39	51	3.95	65
MEF25%	2.27	0.86	38	1.57	81

Flow-chart di interpretazione del tracciato spirometrico



Apr/16/ 2
NAME: 19 °C 750 Torr
ID.#: 01 SEX: FEMALE
AGE: 26 YRS HT: 166 cm WT: 61 kg
RACE: WHITE 100 %

[FVC TEST]		PRE-BD		POST-BD	
FUNCTION	PRED	MEAS	%PR	MEAS	%CH
FVC	3.78	2.00	53	2.30	15
FEV.5		1.01		1.18	17
FEV1	3.31	1.33	40	1.52	14
FEV3		1.61		1.94	20
FEV1%T	84.1	67.9	81		
FEV1%G		66.5		66.1	0
FEV3%T		82.1			
FEV3%G		80.5		84.3	5
MEFR		1.41		2.08	48
MMEF	4.12	0.74	18	0.81	9
EX TIME		8.16		8.87	9
V EXT		0.04		0.05	25
FIVC					
FIV.5					
FIV1					
FIV1/FVC					
FIV1/FIVC					
FEV.5/FIV.5					
PEF	7.25	3.84	53	4.21	10
MEF75%	6.29	2.44	39	2.87	18
MEF50%	4.57	0.94	21	1.12	20
MEF25%	2.20	0.25	11	0.25	0



FEV1/FVC RIDOTTO?

↓

SI

↓

FVC RIDOTTO?

↓

SI

↓

REVERSIBILITA'?

↓

NO
FEV1+ 14%
MA < 200 ml

↓

ESAMI DI SECONDO LIVELLO

BPCO

Apr/29/ 2

NAME:

21 °C 750 Torr

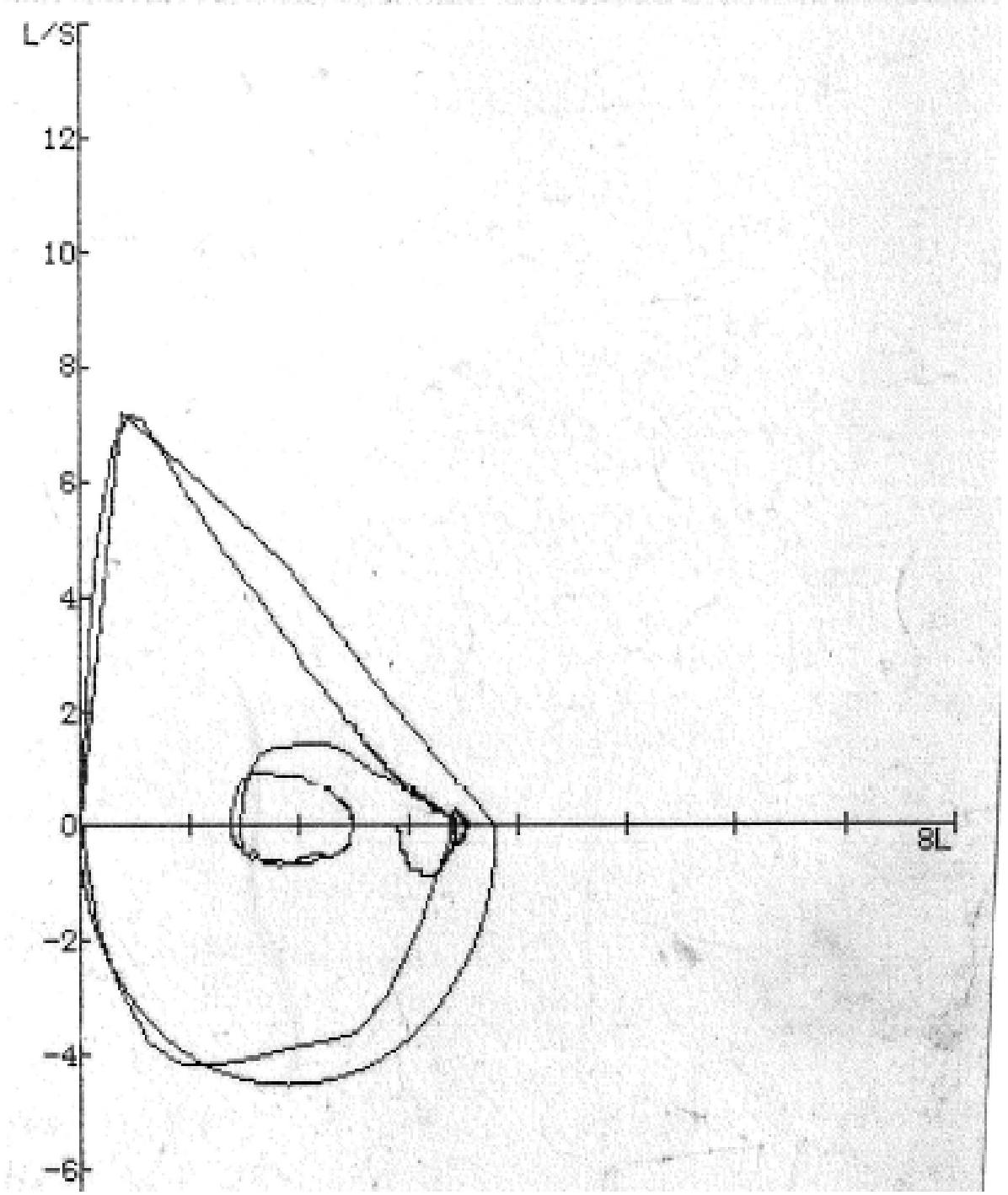
ID.#: 26 SEX: FEMALE

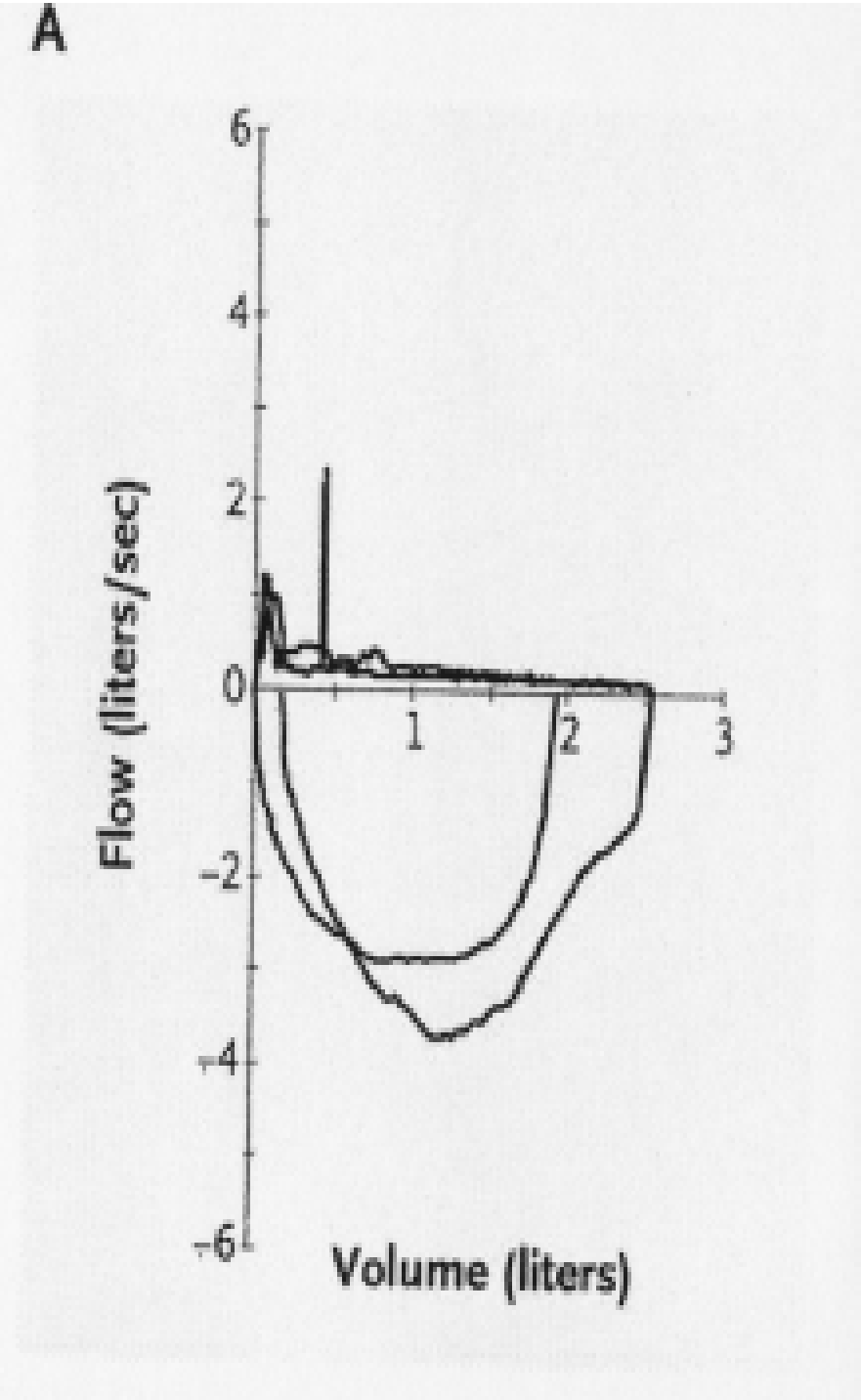
AGE: 26 YRS HT: 166 cm WT: 61 kg

RACE: WHITE 100 %

[FVC TEST]

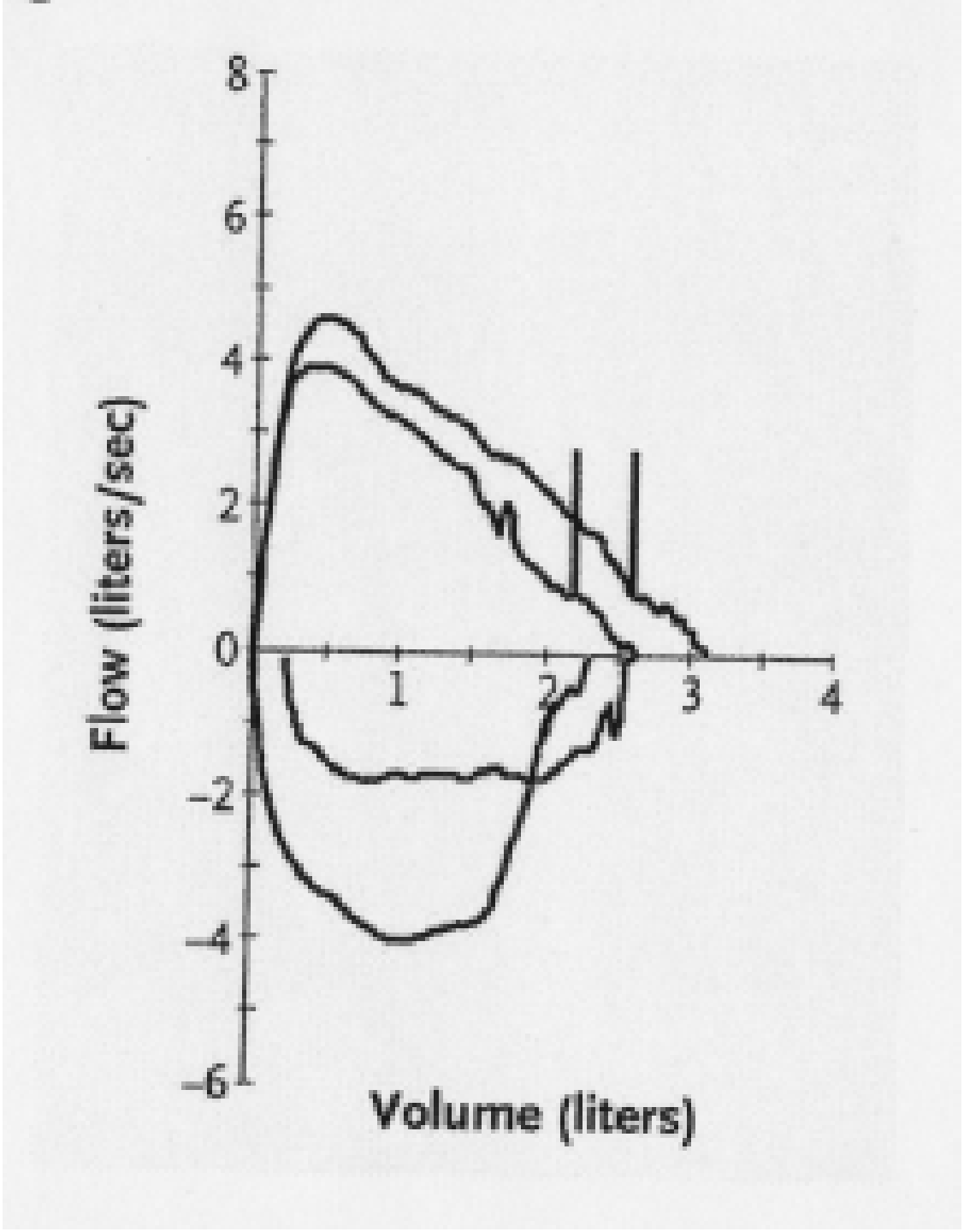
FUNCTION	UNIT	MEAS	PRED	%PR
FVC	L	3.58	3.78	95
FEV.5	L	2.32		
FEV1	L	2.98	3.31	90
FEV3	L	3.51		
FEV1%T	%	86.4	84.1	103
FEV1%G	%	83.2		
FEV3%T	%	101.7		
FEV3%G	%	98.0		
MEFR	L/S	6.25		
MMEF	L/S	3.09	4.12	75
EX TIME	S	3.57		
V EXT	L	0.08		
FIVC	L			
FIV.5	L			
FIV1	L			
FIV1/FVC	%			
FIV1/FIVC	%			
FEV.5/FIV.5				
PEF	L/S	7.28	7.25	100
MEF75%	L/S	6.15	6.29	98
MEF50%	L/S	3.56	4.57	78
MEF25%	L/S	1.37	2.20	62



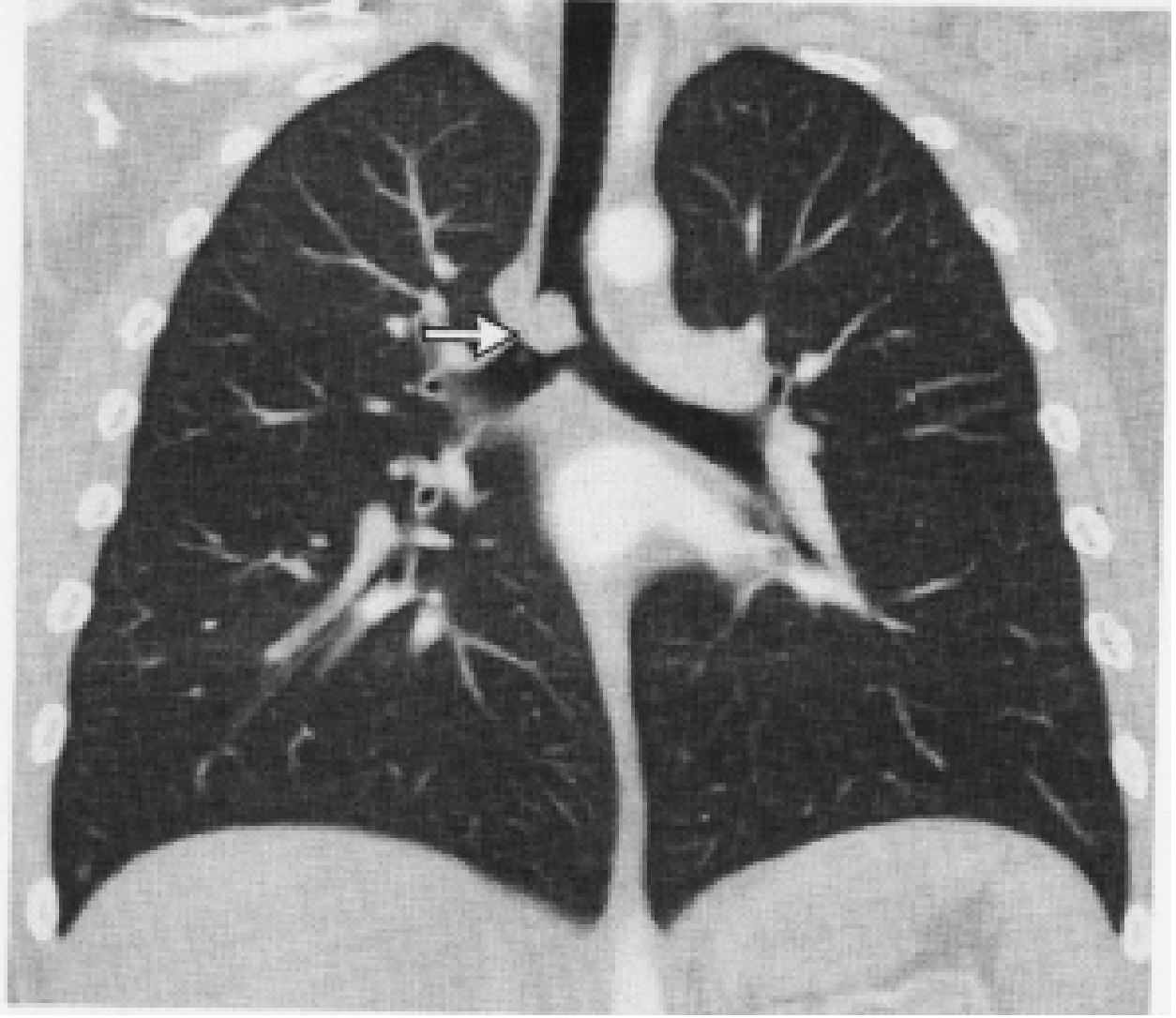


Ragazza di 12 anni,
da mesi presenta wheezing episodico, dispnea, progressiva
Intolleranza allo sforzo.

Trattata con beta-2-stimolanti short acting e long acting, steroidi inalatori e orali e montelukast senza beneficio



Stesso soggetto
una settimana dopo



La broncoscopia e la TAC successiva evidenziano ostruzione 90% della trachea distale da parte di una massa vascolare

Esame istologico:

Pseudotumor vascolare

Trattamento: Laser

TEST DI REVERSIBILITA'

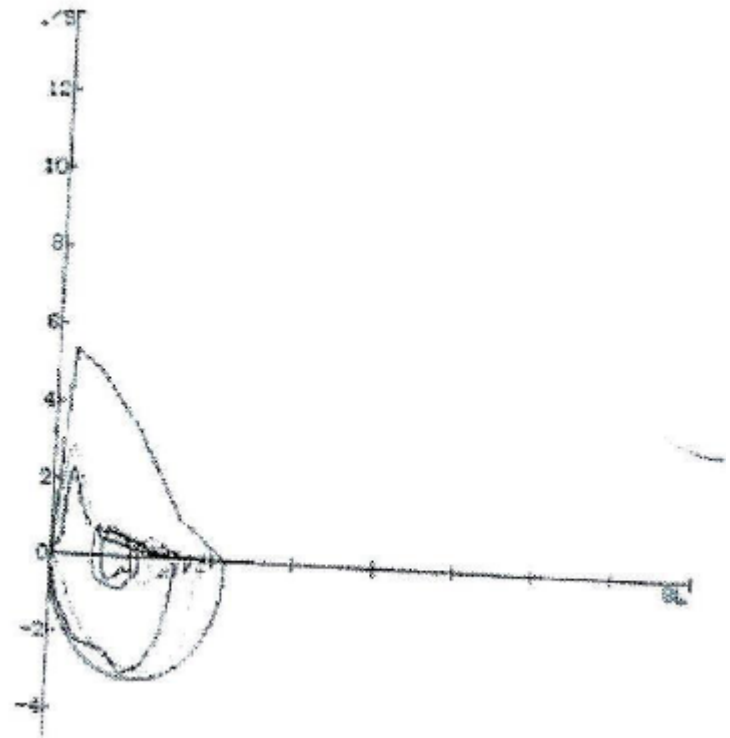
il FEV1 aumenta di > 12% e 200 ml rispetto al basale tornando a valori normali (> 80% del predetto):
DEFICIT DI TIPO OSTRUTTIVO COMPLETAMENTE REVERSIBILE

il FEV1 è aumentato del 12% o di 200 ml rispetto al valore basale ma resta < 80% del teorico e VEMS/CVF < 70:
DEFICIT DI TIPO OSTRUTTIVO PARZIALMENTE REVERSIBILE

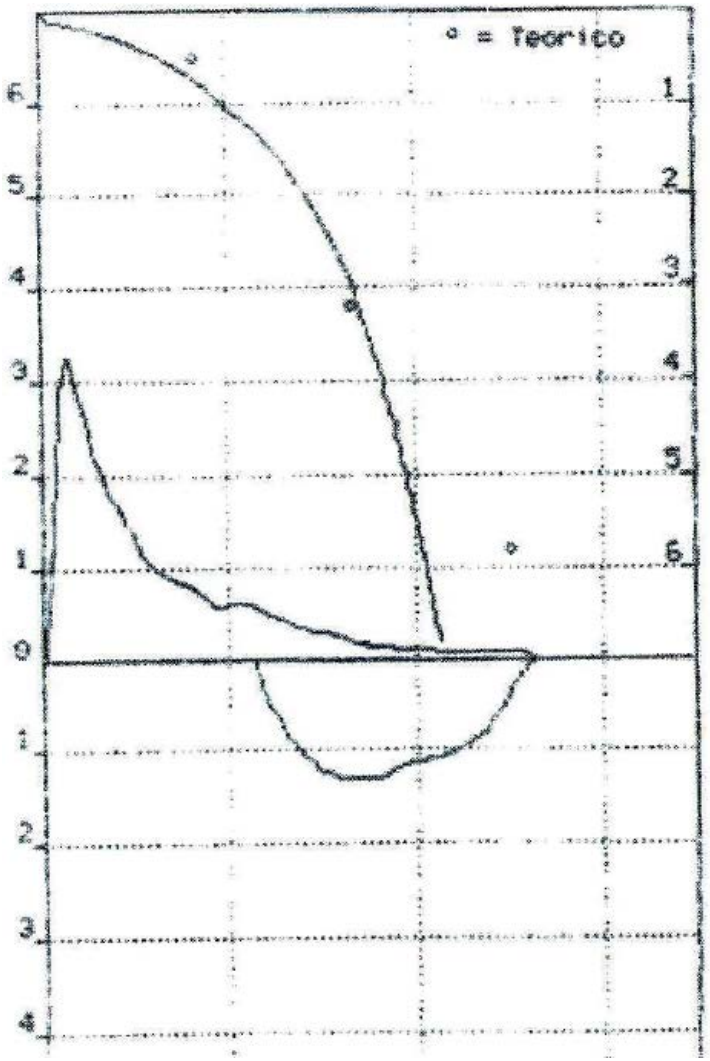
il FEV1 aumenta < 12% o di 200 ml rispetto al valore basale:
DEFICIT VENTILATORIO NON REVERSIBILE

FVC TEST 1

FUNCTION	PRED	PRE-BD MEAS	%PR	POST-BD MEAS	%CH
FVC	2..9	1.77	91	1.94	10
FEV.5		0.64		0.74	16
FEV1	1.80	0.84	47	1.01	20
FEV3		1.26		1.44	13
FEV1%T	75.9	44.9	59		
FEV1%G		47.5		52.1	10
FEV3%T		67.4			
FEV3%G		71.2		74.2	4
MEFR		0.40		0.65	65
MMEF	2.52	0.26	10	0.33	27
EX TIME		11.45		13.58	19
V EXT					



	PRE	POST	VARIAZIONE
FVC	1.770 91%	1.940	+ 10%
FEV1	840 47%	1.010	+ 20%

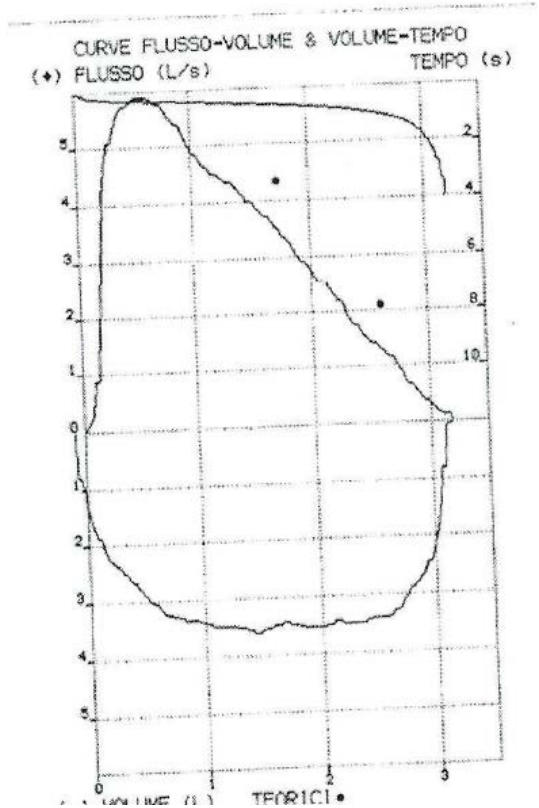


Parametro		Misurato	Teorico	%Teorico
*FVC	L	2.69	3.33	81
*FEV1	L	1.09	2.62	42
*PEF	L/s	3.26	7.35	44
FVC	L	2.69	3.33	81
FEV1	L	1.09	2.62	42
FEV1%/FVC	%	40.5	75.7	54
FIVC	L	1.48	3.33	44
FIV1	L	1.48	2.62	56
FIV1%	%	100.0	75.7	132
FEF2575	L/s	.30	3.09	10
PEF	L/s	3.26	7.35	44
PIF	L/s	1.33		

ETA' 24 STATURA cm 158 SESSO ♀ PESO Kg 53

TEORICO ERS (ECCS) % TEORICO IN USO 100%

PRE FILE N° 374

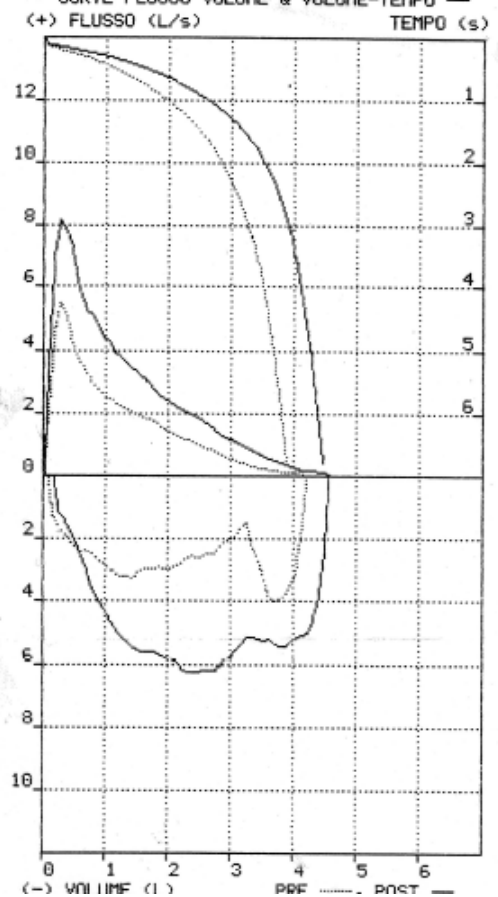


PARAMETRO		PRE	TEORICO	%TEORI
FVC	L	3.19	3.46	92
FEV1	L	2.80	3.01	93
FEV1%	%	87.8	84.4	104
PEF	L/s	5.83	6.83	85
FEF2575	L/s	3.44	4.04	85
FEF25%	L/s	5.34	6.06	88
FEF50%	L/s	3.62	4.40	82
FEF75%	L/s	1.49	2.14	70
FEV6	L			
FEV1/FEV6	%			
FET	s	3.88		
VEXT	mL	90		

ETA'	57	AUTORE	ERS (ECCS)
SESSO	♂	PRE Test File N°	24
STATURA cm	180	POST Test File N°	25
PESO Kg	97	DOSE	200

RISULTATI SPIROMETRIA - MIGLIOR TEST

CURVE FLUSSO-VOLUME & VOLUME-TEMPO



Parametro		PRE	%Teor	POST	%Teor	%PRE
*FVC	L	4.31	95	4.67	103	108
*FEV1	L	2.31	64	2.97	83	129
*PEF	L/s	5.52	63	8.26	94	150
FVC	L	4.31	95	4.67	103	108
FEV1	L	2.31	64	2.97	83	129
FEV1%/FVC	%	53.6	70	63.6	83	119
FIVC	L	4.14	91	4.42	97	107
FIV1	L	4.14	115	4.42	123	107
FIV1%	%	100.0	130	100.0	130	100
FEF2575	L/s	1.07	29	2.01	54	188
PEF	L/s	5.52	63	8.26	94	150

PRE

FVC 4.310 = 95%
FEV1 2.310 = 64%
FEV1/FVC = 53%

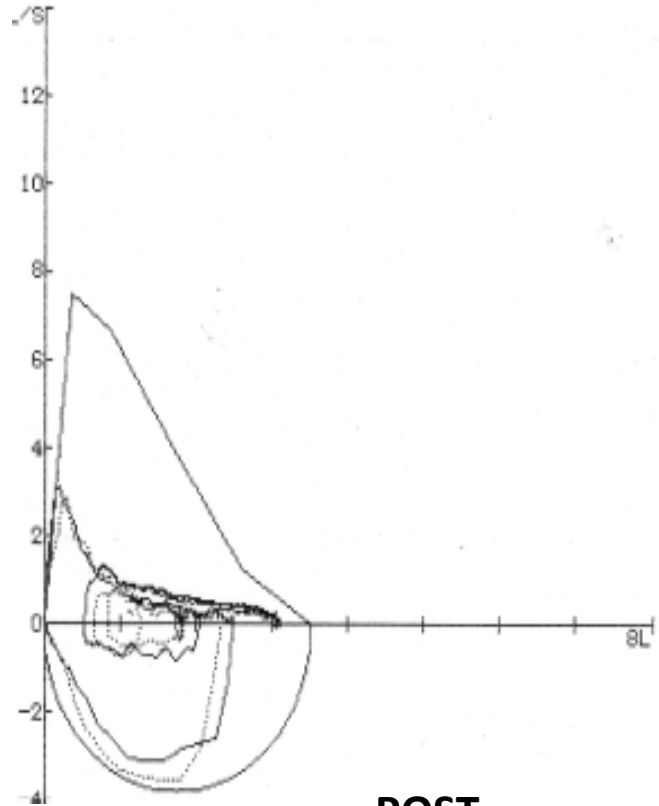
POST

FVC 4.670 = 103% + 8%
FEV1 2.970 = 83% + 29%
FEV1/FVC = 63%

ID.#: 01 SEX: MALE
AGE: 69 YRS HT: 168 cm WT: 58 kg
RACE: WHITE 100 %

[FVC TEST]		PRE-BD		POST-BD	
FUNCTION	PRED	MEAS	%PR	MEAS	%CH
FVC	3.53	3.17	90	3.12	0
FEV.5		0.91		0.90	0
FEV1	2.73	1.35	49	1.34	0
FEV3		2.54		2.39	-4
FEV1%T	74.9				
FEV1%G		42.6		42.9	1
FEV3%T					
FEV3%G		80.1		76.6	-3
MEFR		1.32		1.30	0
MMEF	3.00	0.70	23	0.63	-8
EX TIME		6.86		6.27	-7
V EXT		0.04		0.08	100

PRE



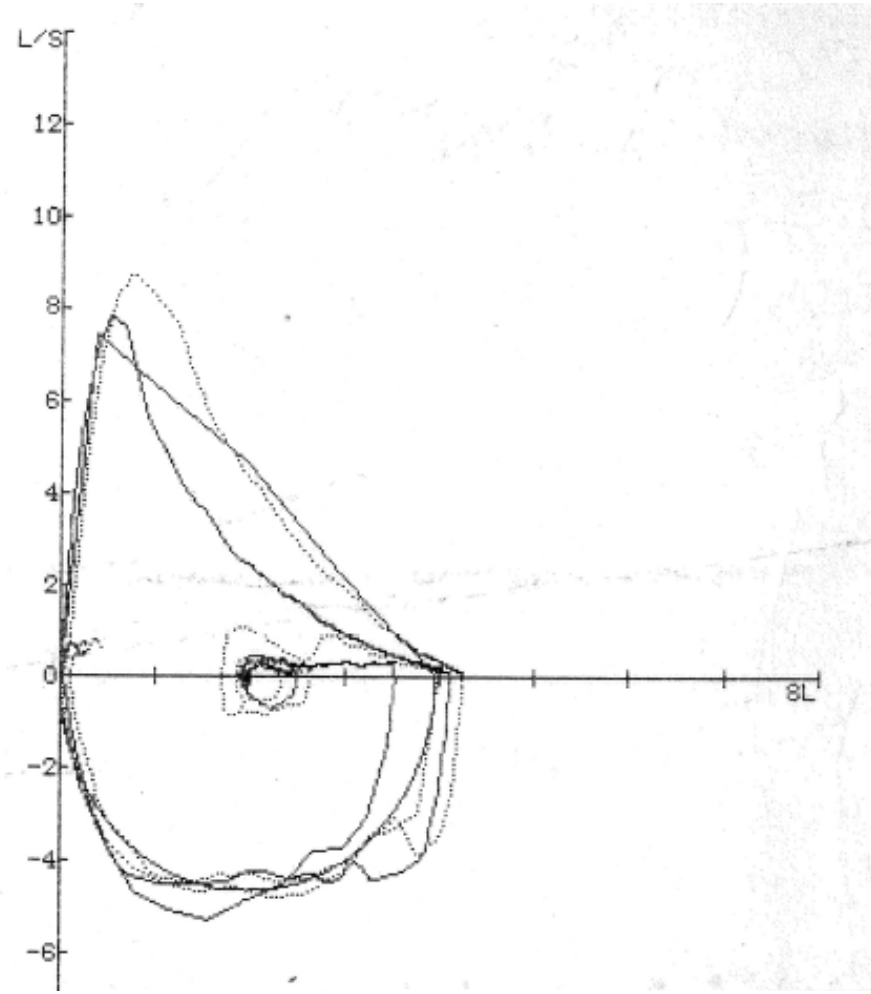
POST

FVC 3.170 = 90%
FEV1 1.350 = 49%
FEV1/FVC = 42%

FVC 3.120 +/- 0%
FEV1 1340 +/- 0%

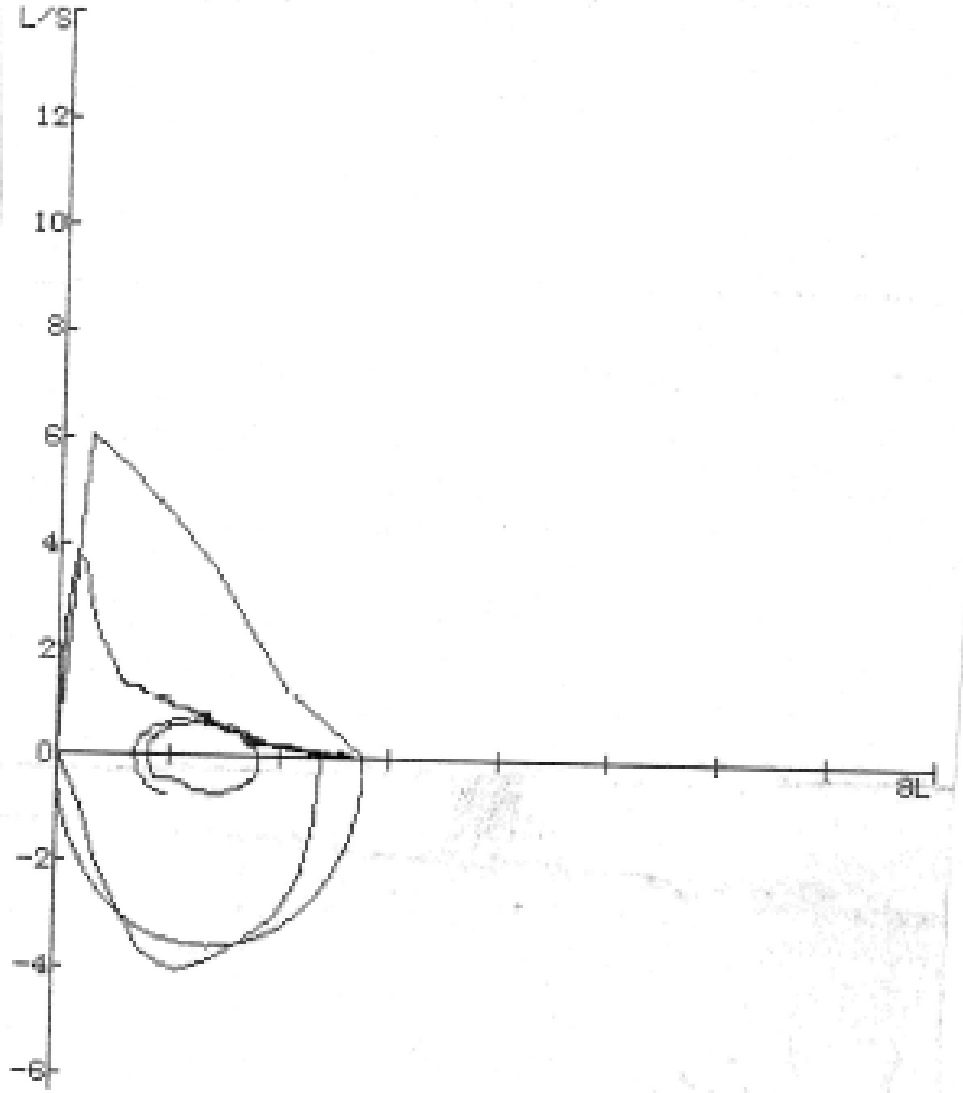
[FVC TEST]

FUNCTION	PRED	PRE-BD MEAS	%PR	POST-BD MEAS	%CH
FVC	3.99	4.17	105	4.32	4
FEV.5		2.20		2.75	25
FEV1	3.49	2.95	85	3.56	20
FEV3		3.96		4.29	9
FEV1%T	84.3	79.1	94		
FEV1%G		70.7		82.4	16
FEV3%T		106.2			
FEV3%G		95.0		99.3	5
MEFR		6.25		6.67	7
MMEF	4.20	1.98	47	3.43	73
EX TIME		4.39		3.73	-14
V EXT		0.14		0.23	64
FIVC		4.12		4.20	2
FIV.5		2.02		1.74	-12
FIV1		3.95		3.80	-3
FIV1/FVC		94.7		88.0	-6
FIV1/FIVC		95.9		90.5	-5
FEV.5/FIV.5		1.09		1.58	45
PEF	7.50	7.96	106	8.78	10
MEF75%	6.44	5.26	82	8.02	52
MEF50%	4.70	2.39	51	3.95	65
MEF25%	2.27	0.86	38	1.57	81



[FVC TEST]

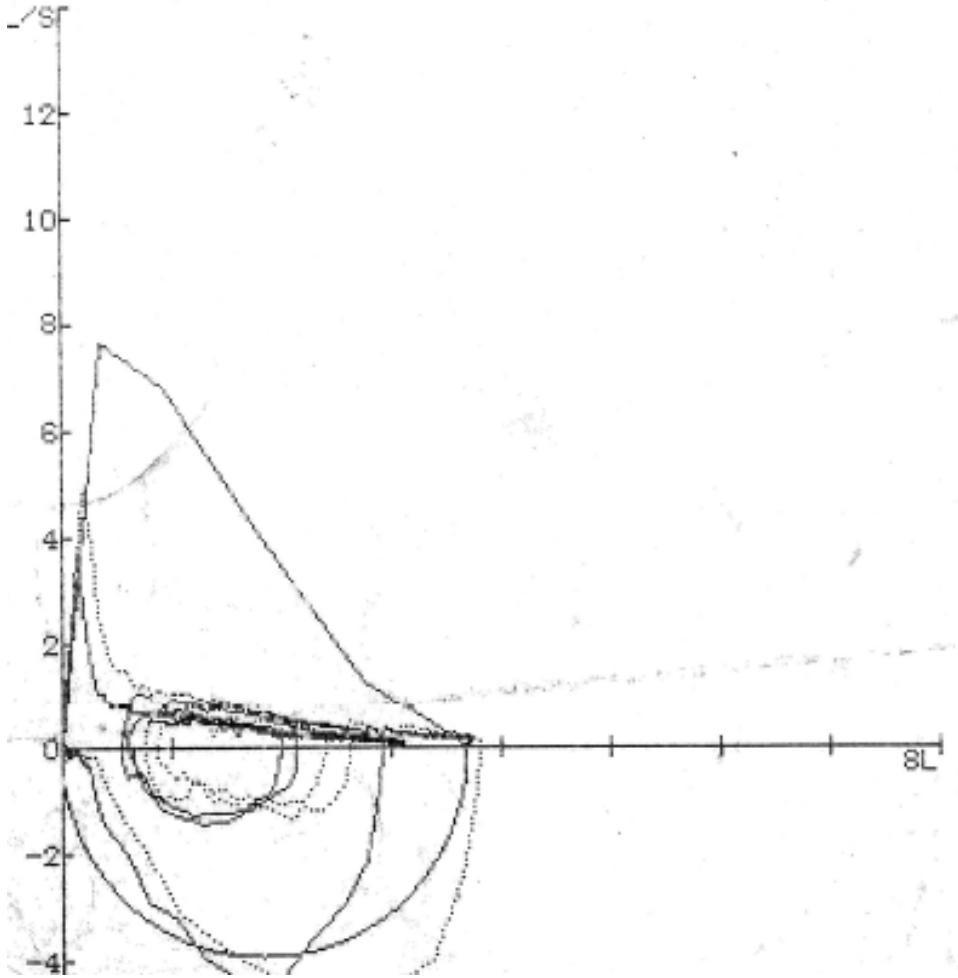
FUNCTION	UNIT	MEAS	PRED	%PR
FVC	L	2.71	2.80	97
FEV.5	L	0.94		
FEV1	L	1.37	2.36	58
FEV3	L	2.06		
FEV1%T	%	46.8	76.8	61
FEV1%G	%	50.6		
FEV3%T	%	70.3		
FEV3%G	%	76.0		
MEFR	L/S	1.35		
MMEF	L/S	0.52	2.83	18
EX TIME	S	9.53		
V EXT	L	0.05		
FIVC	L			
FIV.5	L			
FIV1	L			
FIV1/FVC	%			
FIV1/FIVC	%			
FEV.5/FIV.5				
PEF	L/S	3.84	6.11	63
MEF75%	L/S	1.35	5.34	25
MEF50%	L/S	0.70	3.62	19
MEF25%	L/S	0.23	1.25	18



FVC 2.710 = 97%
FEV1 1.370 = 58%
FEV1/FVC = 50%

[FVC TEST]

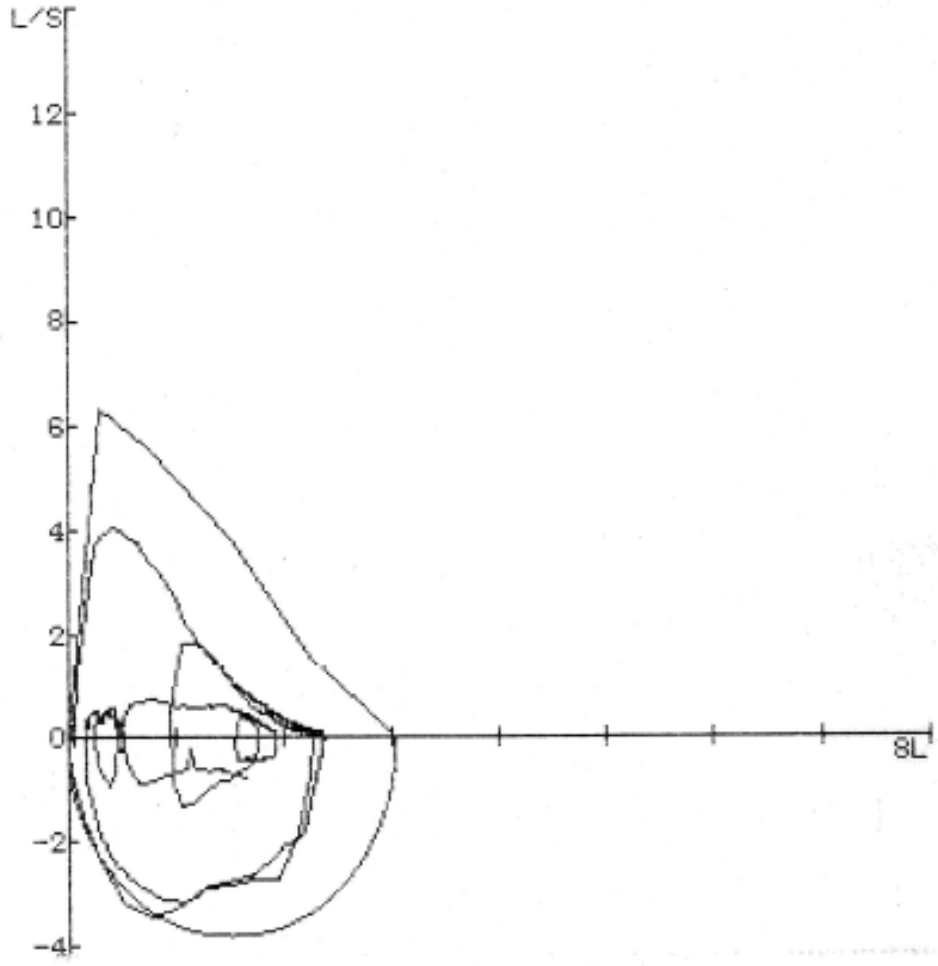
FUNCTION	PRED	PRE-BD MEAS	%PR
FVC	3.71	3.17	85
FEV.5		0.64	
FEV1	2.85	0.97	34
FEV3		1.88	
FEV1%T	74.5		
FEV1%G		30.6	
FEV3%T			
FEV3%G		59.3	
MEFR		0.74	
MMEF	2.99	0.97	12
EX TIME		10.16	
V EXT		0.05	
FIVC		1.33	
FIV.5		0.62	
FIV1		1.03	
FIV1/FVC		57.7	
FIV1/FIVC		100.0	
FEV.5/FIV.5		0.38	
PEF	7.67	3.73	49
MEF75%	6.86	0.65	9
MEF50%	3.97	0.42	11
MEF25%	1.30	0.20	15



FVC 3.170 = 85%
FEV1 0.970 = 34%
FEV1/FVC = 30%

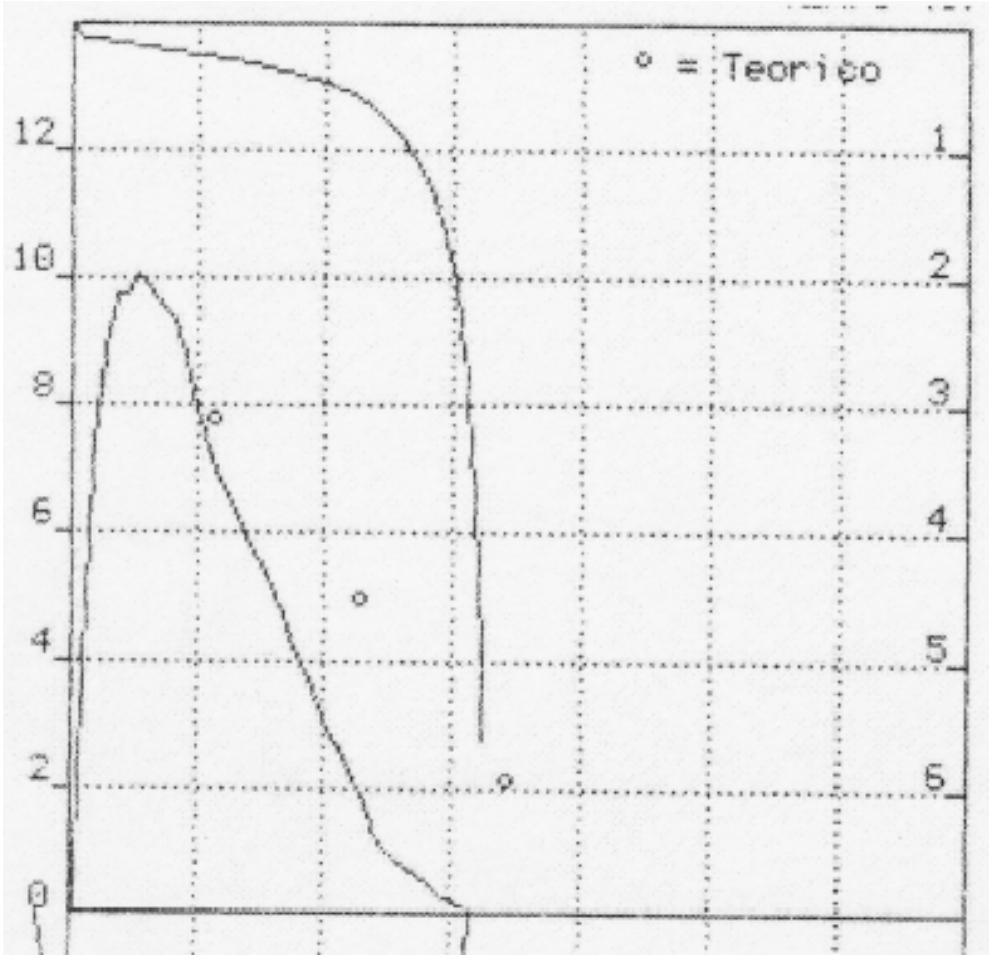
[FVC TEST]

FUNCTION	UNIT	MEAS	PRED	%PR
FVC	L	2.41	3.04	79
FEV.5	L	1.44		
FEV1	L	1.86	2.59	72
FEV3	L	2.35		
FEV1%T	%	77.2	78.9	98
FEV1%G	%	77.2		
FEV3%T	%	97.5		
FEV3%G	%	97.5		
MEFR	L/S	3.23		
MMEF	L/S	1.58	3.19	50
EX TIME	S	3.84		
V EXT	L	0.10		
FIVC	L	2.24		
FIV.5	L	1.06		
FIV1	L	2.19		
FIV1/FVC	%	90.9		
FIV1/FIVC	%	97.8		
FEV.5/FIV.5		1.36		
PEF	L/S	4.07	6.38	64
MEF75%	L/S	3.86	5.58	69
MEF50%	L/S	1.91	3.87	49
MEF25%	L/S	0.65	1.51	43



FVC 2.410 = 79%
FEV1 1.860 = 72%
FEV1/FVC = 78%

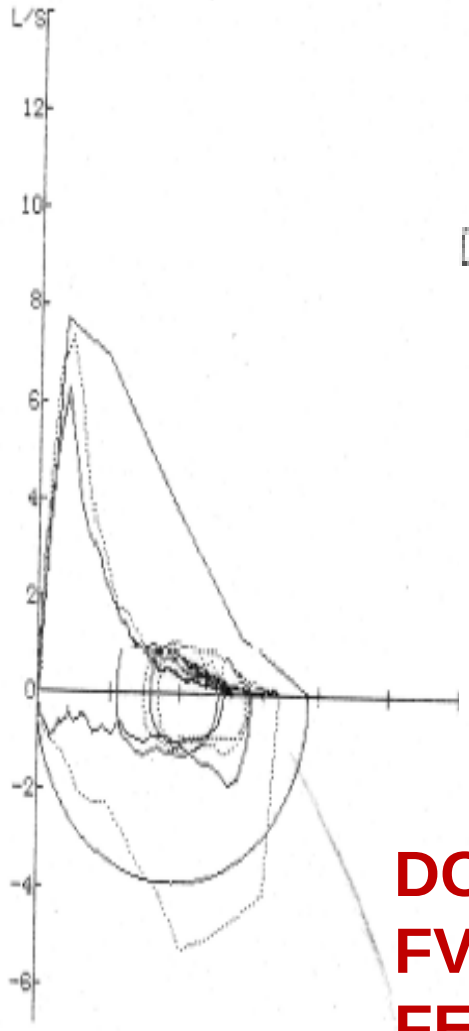
0	1	2	3	4	5	6
(-) VOLUME (L)						
Parametro			Misurato	Teorico		%Teorico
*FVC		L	3.27	4.58		71
*FEV1		L	2.80	3.80		74
*PEF		L/s	10.24	9.08		113
FVC		L	3.27	4.58		71
FEV1		L	2.80	3.80		74
FEV1%/FVC		%	85.6	80.4		106
FIVC		L	3.49	4.58		76
FIV1		L	3.49	3.80		92
FIV1%		%	100.0	80.4		124
FEF2575		L/s	3.47	4.40		79
PEF		L/s	10.24	9.08		113
PIF		L/s	4.69			
FET		s	4.92			
FEF25%		L/s	9.08	7.82		116
FEF50%		L/s	4.64	4.99		93
FEF75%		L/s	1.03	2.16		48



FVC 3.270 = 71%
FEV1 2.800 = 74%
FEV1/FVC = 90%

FVC 2.810 = 73%
FEV1 1760 = 61%
FEV1/FVC = 62%

FVC	3.87	2.81	73
FEV.5		1.40	
FEV1	2.90	1.76	61
FEV3		2.39	
FEV1%T	73.2	47.2	64
FEV1%G		62.6	
FEV3%T		64.1	
FEV3%G		85.1	
MEFR		3.03	
MMEF	2.81	0.80	28
EX TIME		6.48	
V EXT		0.12	
FIVC			
FIV.5			
FIV1			
FIV1/FVC			
FIV1/FIVC			
FEV.5/FIV.5			
PEF	7.74	6.29	81
MEF75%	6.99	3.40	49
MEF50%	3.98	1.02	26
MEF25%	1.27	0.29	23



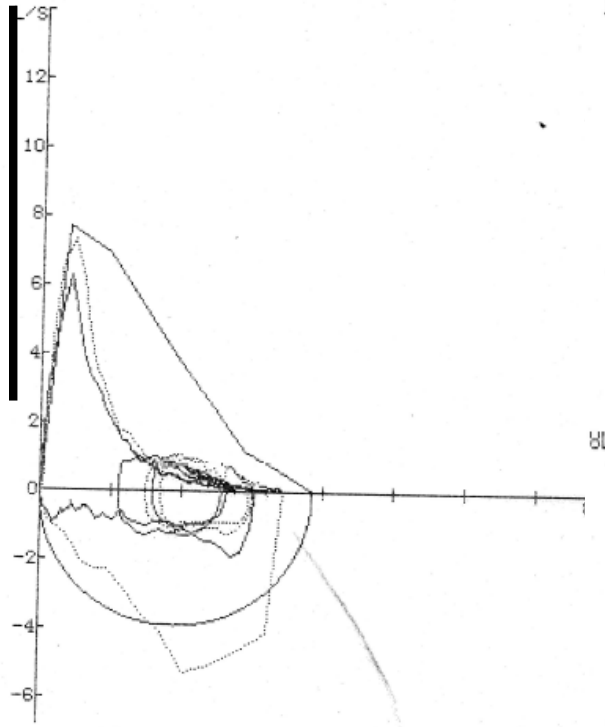
[FVC TEST]		PRE-BD		POST-BD	
FUNCTION	PRED	MEAS	%PR	MEAS	%CH
FVC	3.87	2.81	73	3.25	16
FEV.5		1.40		1.50	7
FEV1	2.90	1.76	61	1.91	9
FEV3		2.39		2.64	10
FEV1%T	73.2	47.2	64		
FEV1%G		62.6		58.8	-5

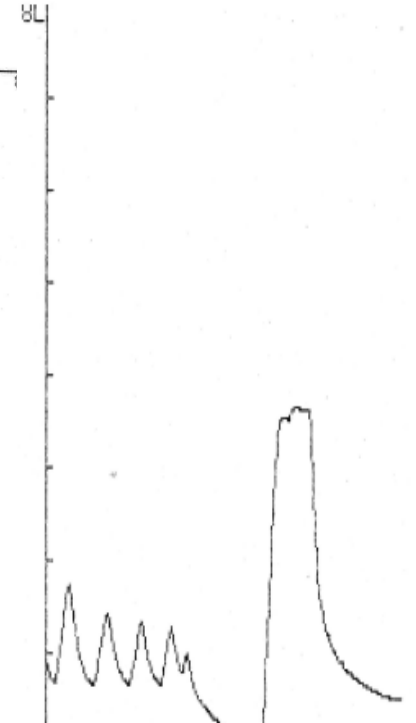
DOPO BRONCODILATAZIONE
FVC 3.250 = 83%
FEV1 1.910 = 65%
FEV1/FVC = 58%

ID.#: 01 SEX: MALE
AGE: 78 YRS HT: 178 cm WT: 96 kg
RACE: WHITE 100 %

[VC TEST]		PRE-BD		POST-BD
FUNCTION	PRED	MEAS	%PR	MEAS %CH
VC	4.03	3.73	93	
ERV		0.69		
IRV		2.17		
IC		3.04		
TV		0.87		
FRC	3.79			
RV	2.82			
TLC	7.14			
RV/TLC	43.9			

[FVC TEST]		PRE-BD		POST-BD	
FUNCTION	PRED	MEAS	%PR	MEAS	%CH
FVC	3.87	2.81	73	3.25	16
FEV.5		1.40		1.50	7
FEV1	2.90	1.76	61	1.91	9
FEV3		2.39		2.64	10
FEV1%T	73.2	47.2	64		
FEV1%G		62.6		58.8	-5
FEV3%T		64.1			
FEV3%G		85.1		81.2	-3
MEFR		3.03		3.57	18
MMEF	2.81	0.80	28	0.78	0
EX TIME		6.48		8.67	34
V EXT		0.12		0.11	0
FIVC					
FIV.5					
FIV1					
FIV1/FVC					
FIV1/FIVC					
FEV.5/FIV.5					
PEF	7.74	6.29	81	7.38	17
MEF75%	6.99	3.40	49	3.40	0
MEF50%	3.98	1.02	26	0.94	-6
MEF25%	1.27	0.29	23	0.34	-17

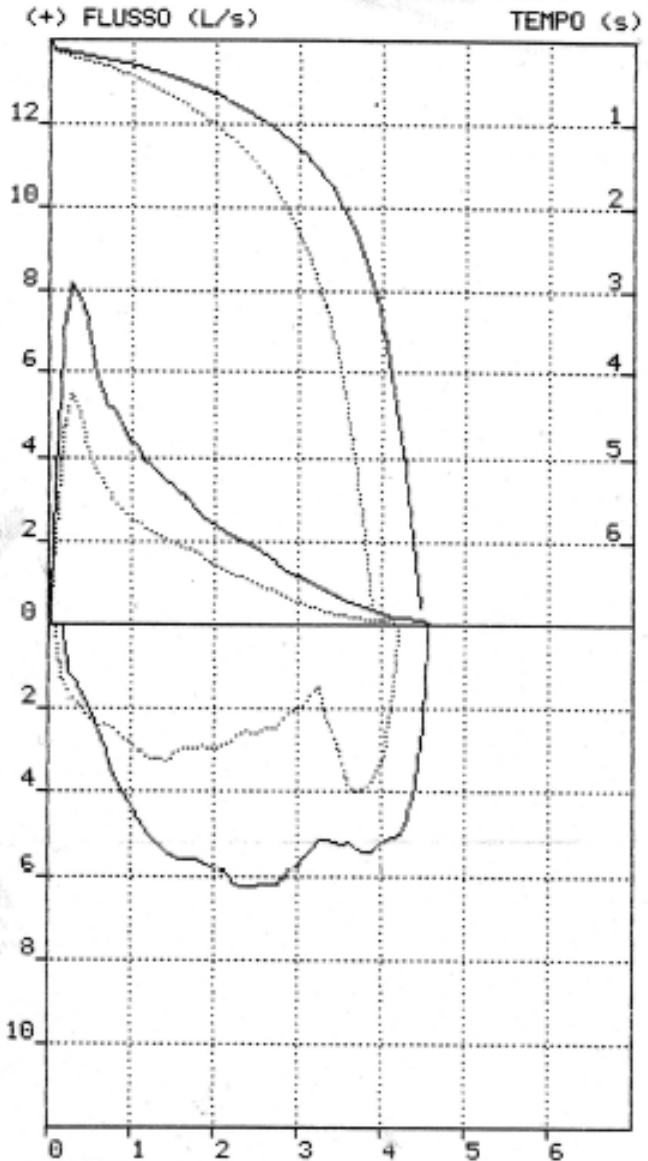




FVC 2.810 = 73%
FEV1 1.760 = 61%
FEV1/VC = 62%

ETA'	57	AUTORE	ERS (ECCS)		
SESSO	♂	PRE Test File N°	24		
STATURA cm	180	POST Test File N°	25		
PESO Kg	97	DOSE	200		

RISULTATI SPIROMETRIA - MIGLIOR TEST



Parametro		PRE	%Teor	POST	%Teor	%PRE
*FVC	L	4.31	95	4.67	103	108
*FEV1	L	2.31	64	2.97	83	129
*PEF	L/s	5.52	63	8.26	94	150
FVC	L	4.31	95	4.67	103	108
FEV1	L	2.31	64	2.97	83	129
FEV1%/FVC	%	53.6	70	63.6	83	119
FIVC	L	4.14	91	4.42	97	107
FIV1	L	4.14	115	4.42	123	107
FIV1%	%	100.0	130	100.0	130	100
FEF2575	L/s	1.07	29	2.01	54	188
PEF	L/s	5.52	63	8.26	94	150

PRE

FVC 4.310 = 95%
FEV1 2.310 = 64%
FEV1/FVC = 53%

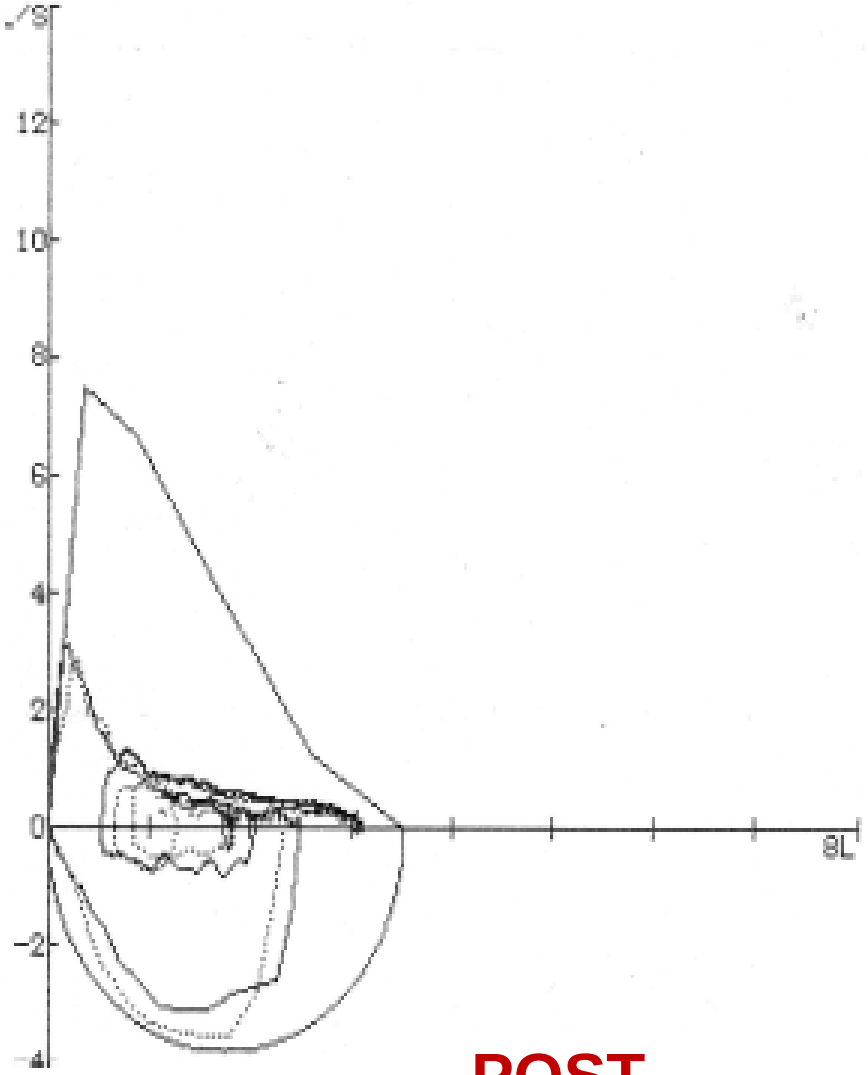
POST

FVC 4.670 = 103% + 8%
FEV1 2.970 = 83% + 29%
FEV1/FVC = 63%

ID.#: 01 SEX: MALE
AGE: 69 YRS HT: 168 cm WT: 58 kg
RACE: WHITE 100 %

[FVC TEST]		PRE-BD		POST-BD	
FUNCTION	PRED	MEAS	%PR	MEAS	%CH
FVC	3.53	3.17	90	3.12	0
FEV.5		0.91		0.90	0
FEV1	2.73	1.35	49	1.34	0
FEV3		2.54		2.39	-4
FEV1%T	74.9				
FEV1%G		42.6		42.9	1
FEV3%T					
FEV3%G		80.1		76.6	-3
MEFR		1.32		1.30	0
MMEF	3.00	0.70	23	0.63	-8
EX TIME		6.86		6.27	-7
V EXT		0.04		0.08	100

PRE



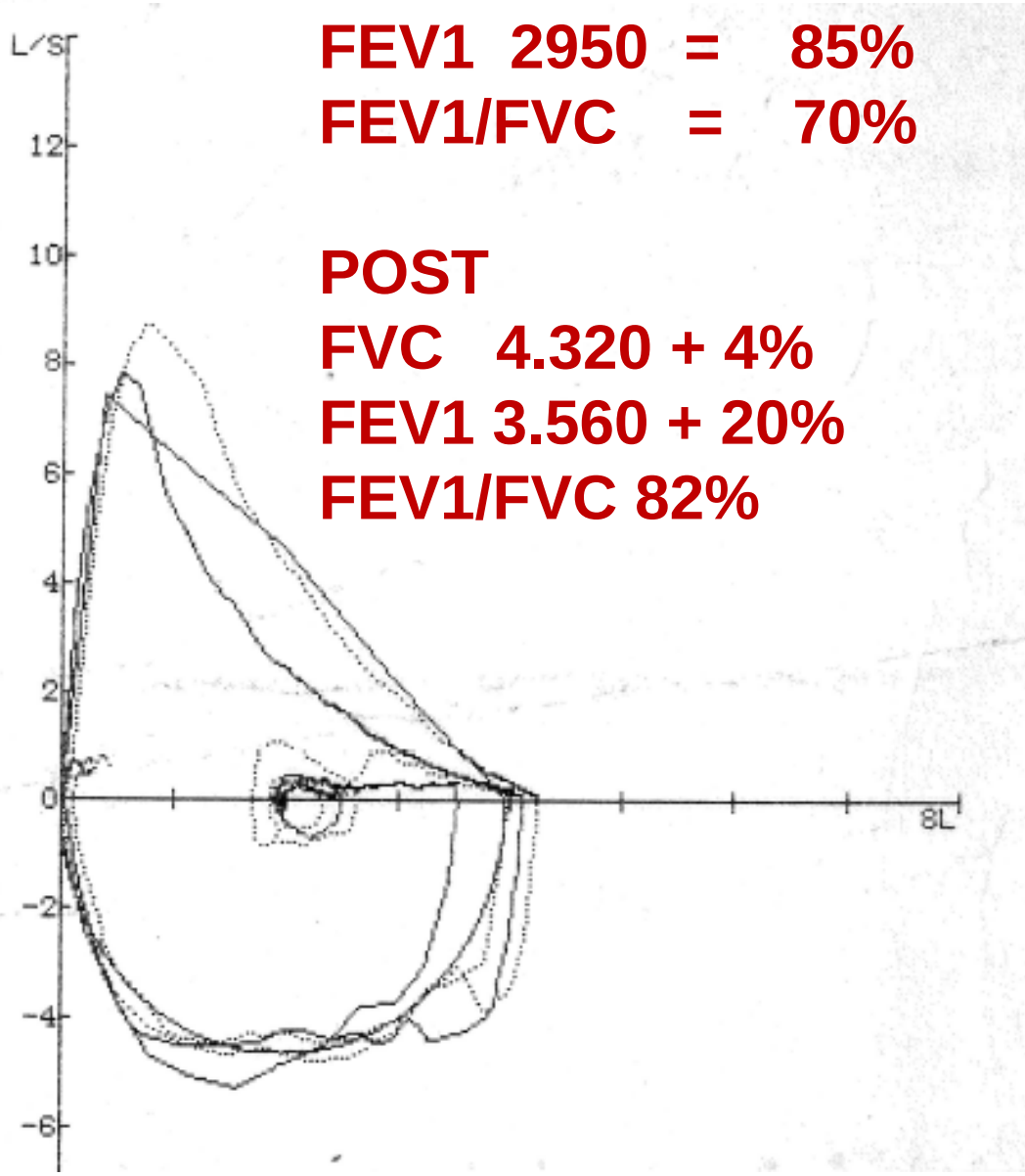
POST

FVC 3.170 = 90%
FEV1 1.350 = 49%
FEV1/FVC = 42%

FVC 3.120 +/- 0%
FEV1 1340 +/- 0%

[FVC TEST]

FUNCTION	PRED	PRE-BD MEAS	%PR	POST-BD MEAS	%CH
FVC	3.99	4.17	105	4.32	4
FEV.5		2.20		2.75	25
FEV1	3.49	2.95	85	3.56	20
FEV3		3.96		4.29	9
FEV1%T	84.3	79.1	94		
FEV1%G		70.7		82.4	16
FEV3%T		106.2			
FEV3%G		95.0		99.3	5
MEFR		6.25		6.67	7
MMEF	4.20	1.98	47	3.43	73
EX TIME		4.39		3.73	-14
V EXT		0.14		0.23	64
FIVC		4.12		4.20	2
FIV.5		2.02		1.74	-12
FIV1		3.95		3.80	-3
FIV1/FVC		94.7		88.0	-6
FIV1/FIVC		95.9		90.5	-5
FEV.5/FIV.5		1.09		1.58	45
PEF	7.50	7.96	106	8.78	10
MEF75%	6.44	5.26	82	8.02	52
MEF50%	4.70	2.39	51	3.95	65
MEF25%	2.27	0.86	38	1.57	81



PRE

FVC 4170 = 105%

FEV1 2950 = 85%

FEV1/FVC = 70%

POST

FVC 4.320 + 4%

FEV1 3.560 + 20%

FEV1/FVC 82%