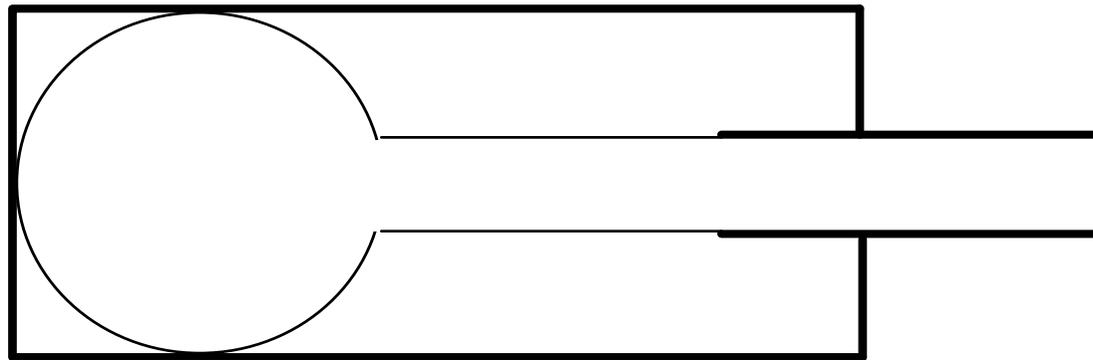
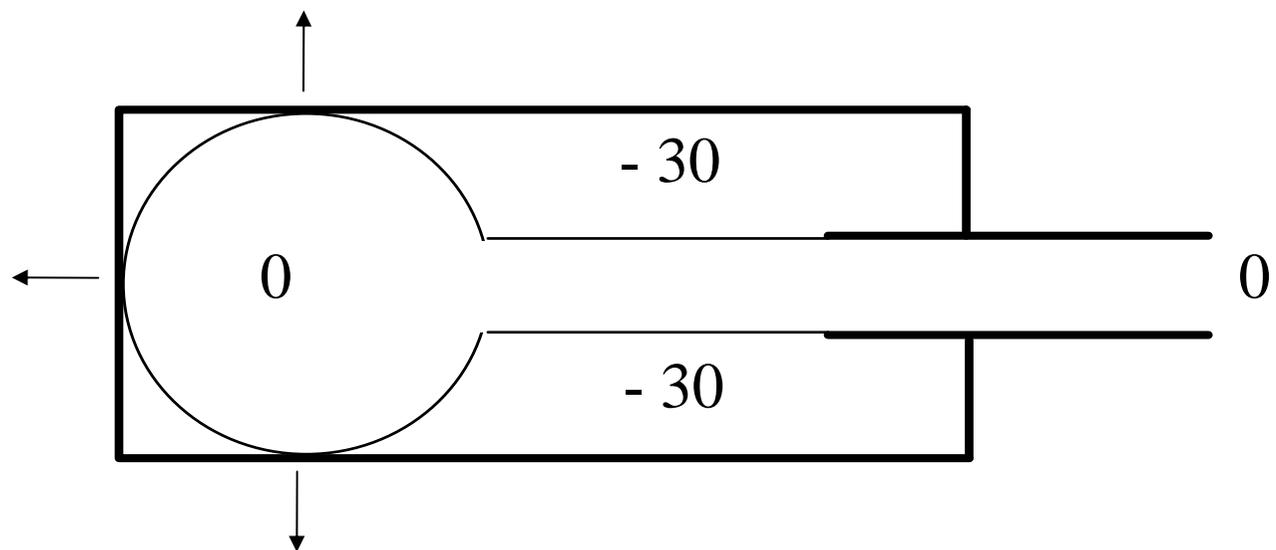


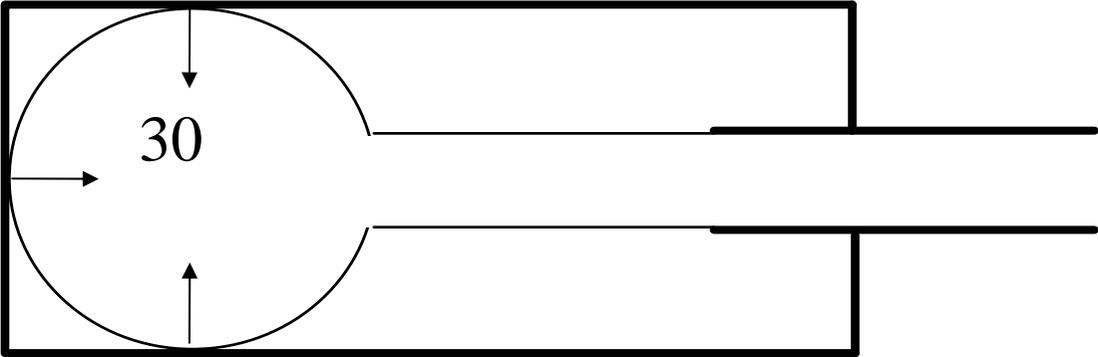
**[www.fisiokinesiterapia.biz](http://www.fisiokinesiterapia.biz)**



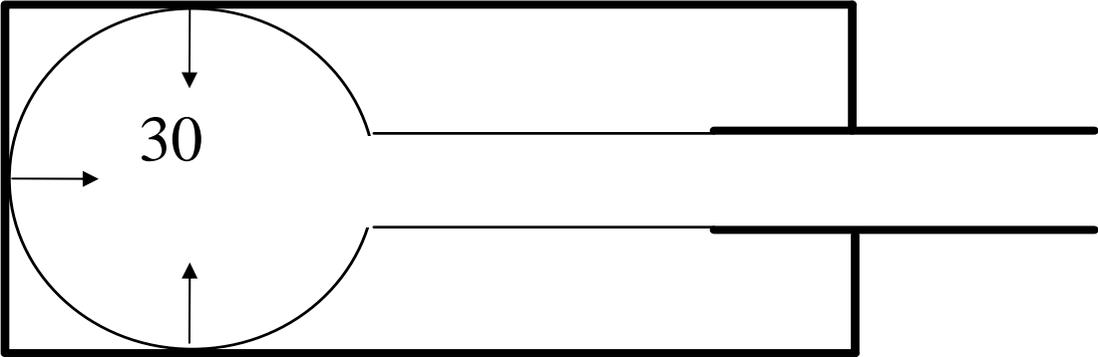
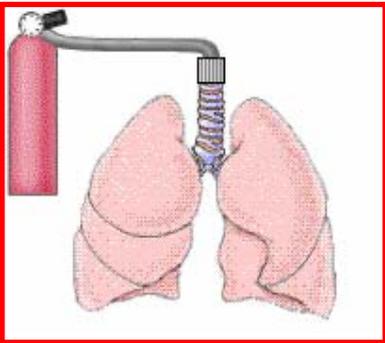
# Apnea a TLC



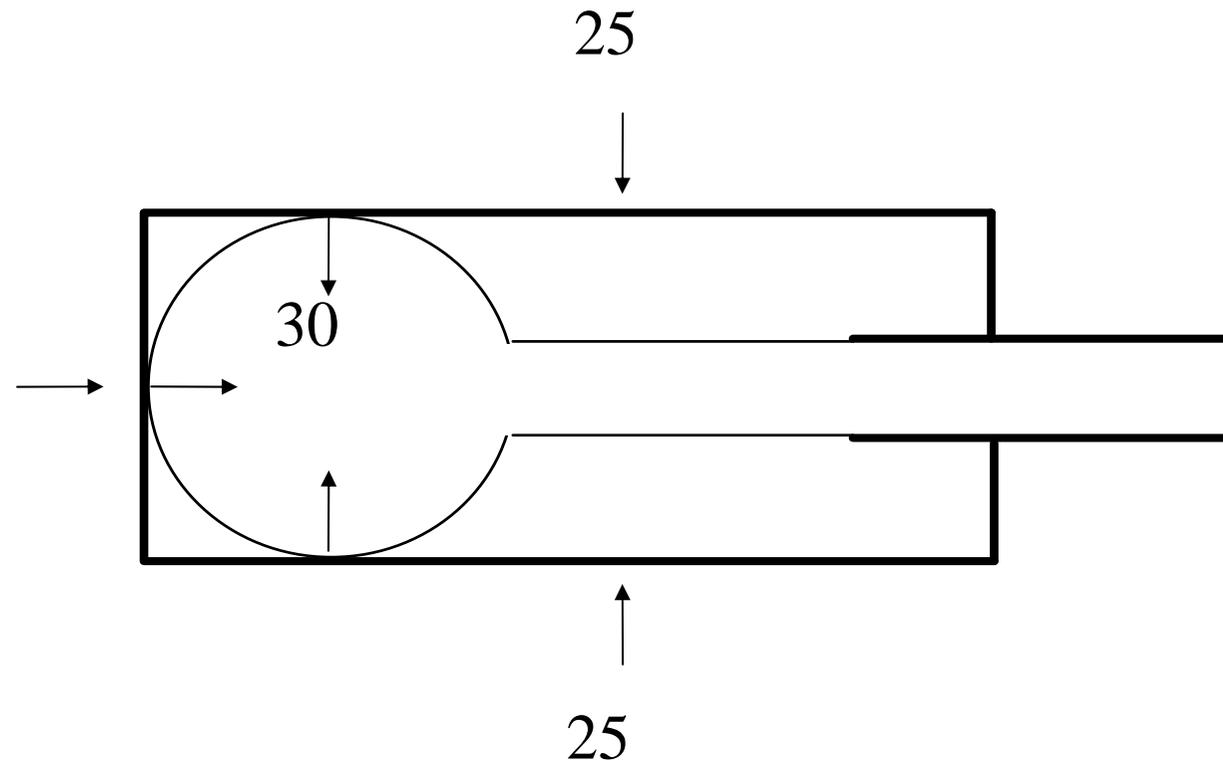
**inizio espirazione**



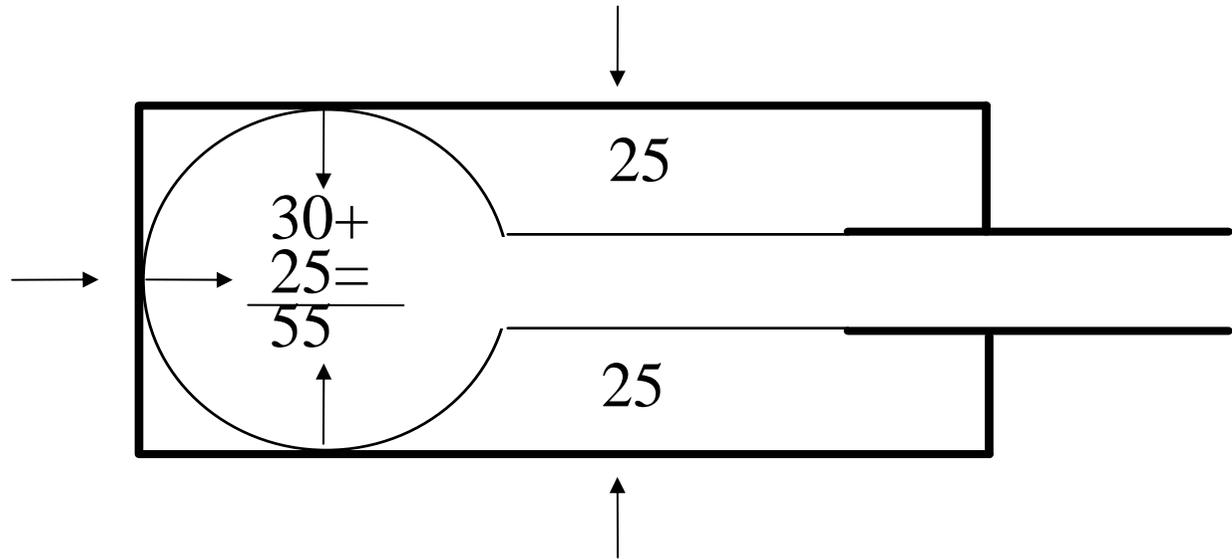
# inizio espirazione



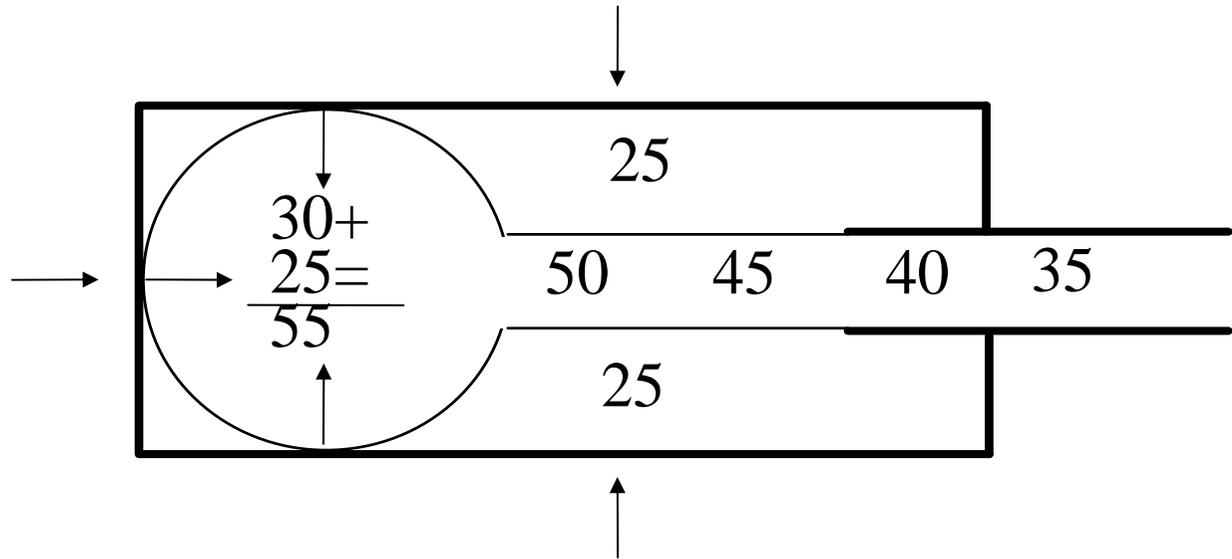
# inizio espirazione forzata



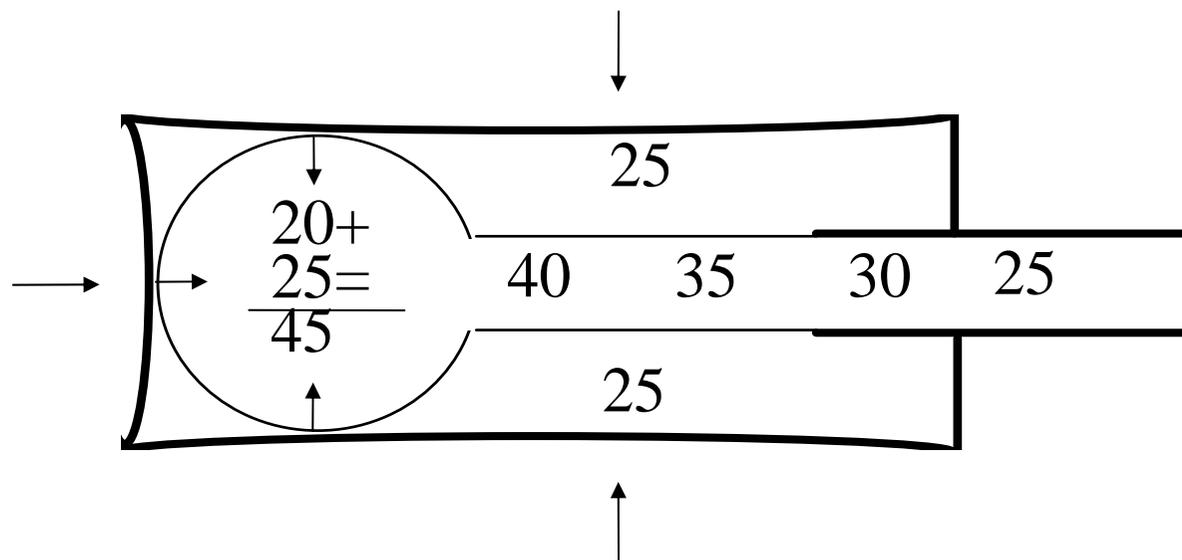
**inizio espirazione forzata**



**inizio espirazione forzata**

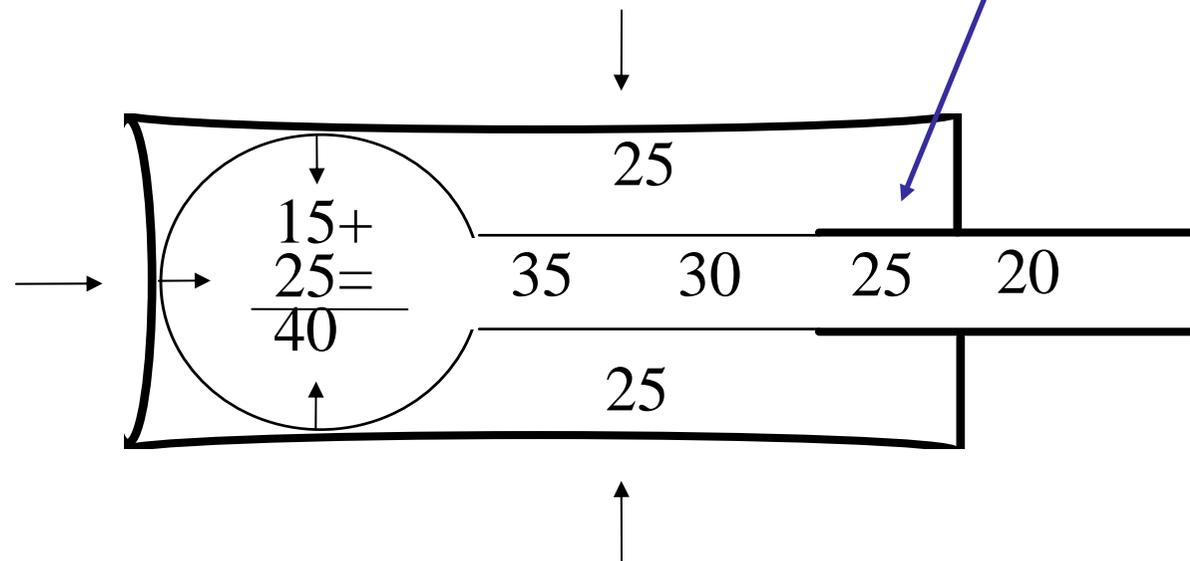


**durante espirazione forzata**



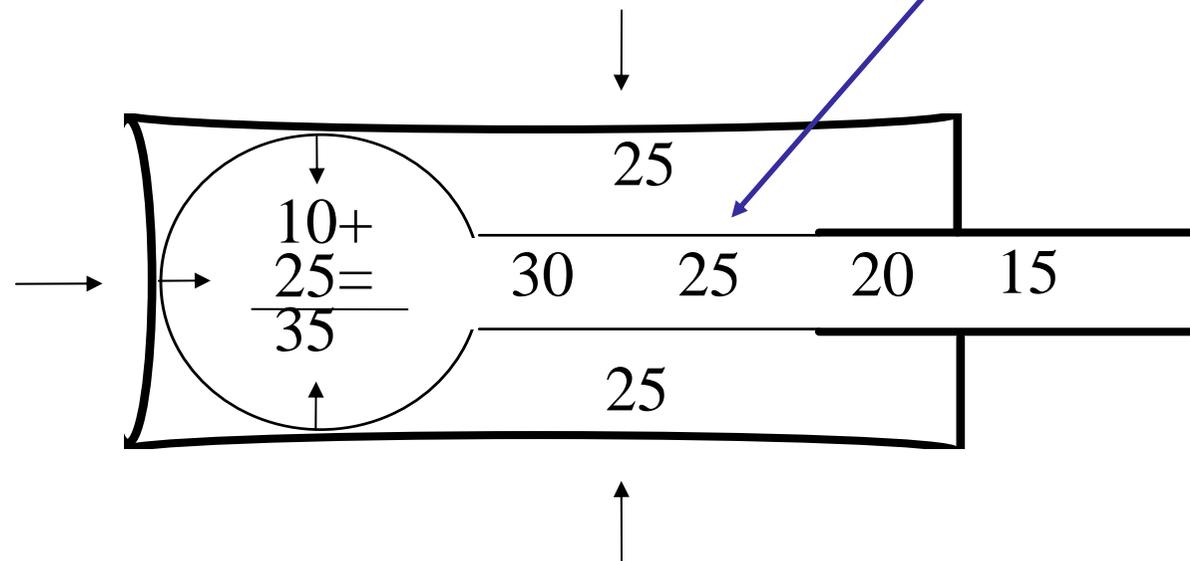
## durante espirazione forzata

Punto di egual pressione  
(equal pressure point, EPP)



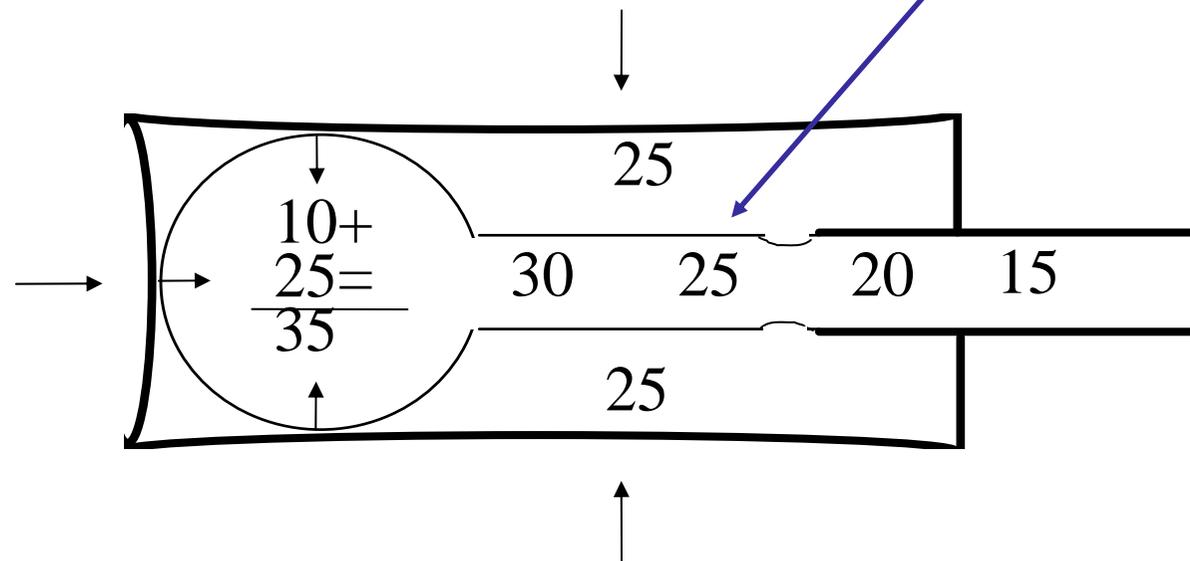
## durante espirazione forzata

Punto di egual pressione  
(equal pressure point, EPP)

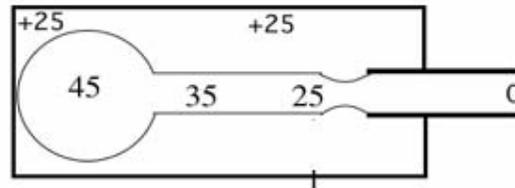


## durante espirazione forzata

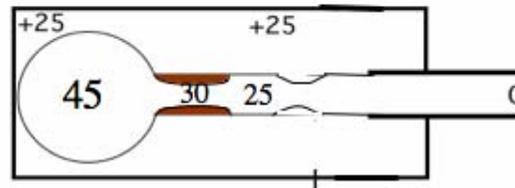
Punto di egual pressione  
(equal pressure point, EPP)



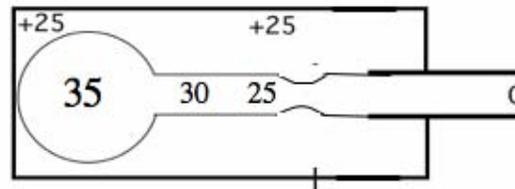
normale



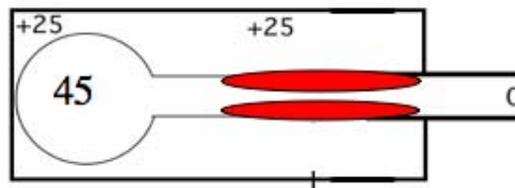
bronchite cronica

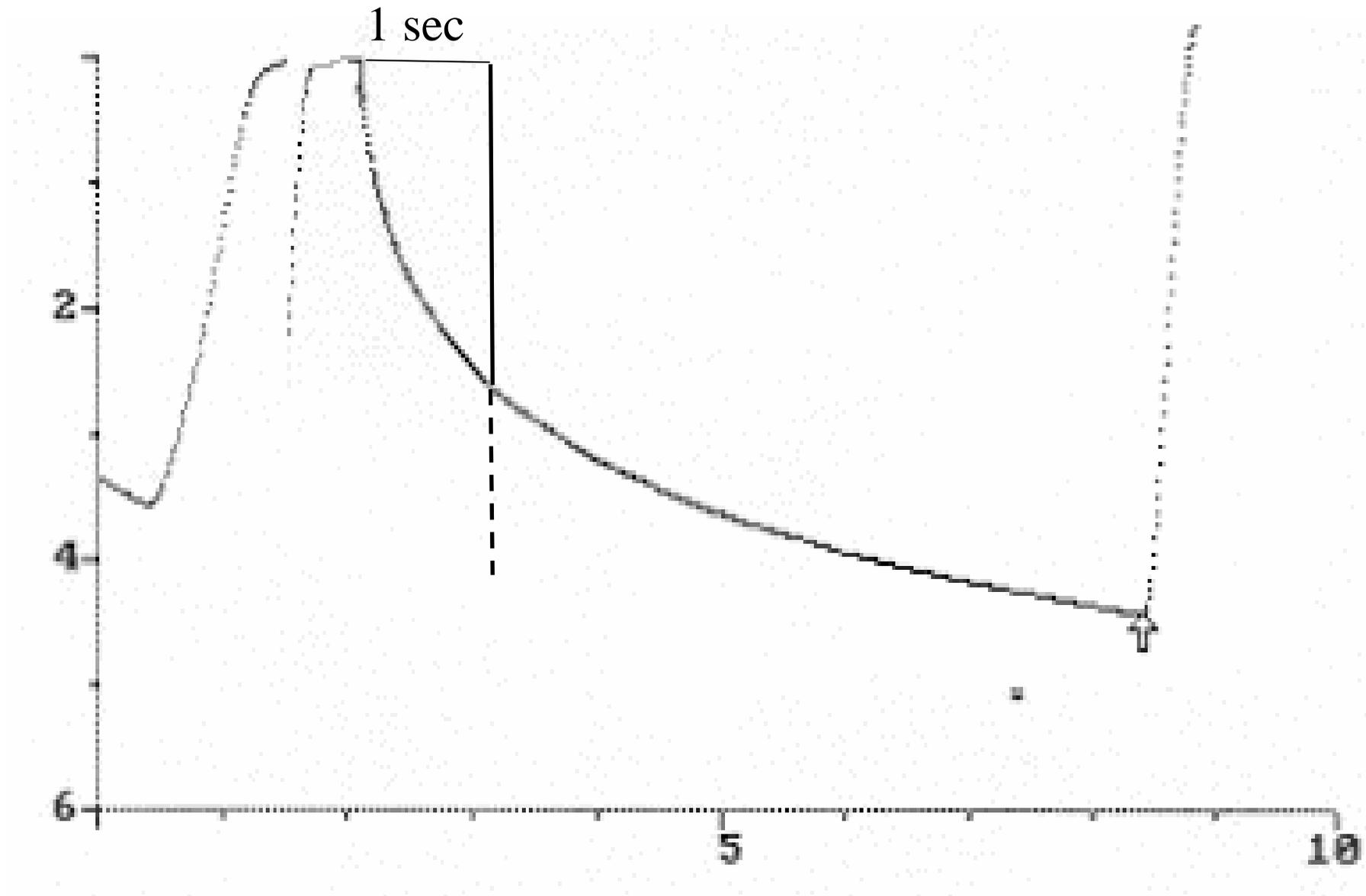


enfisema

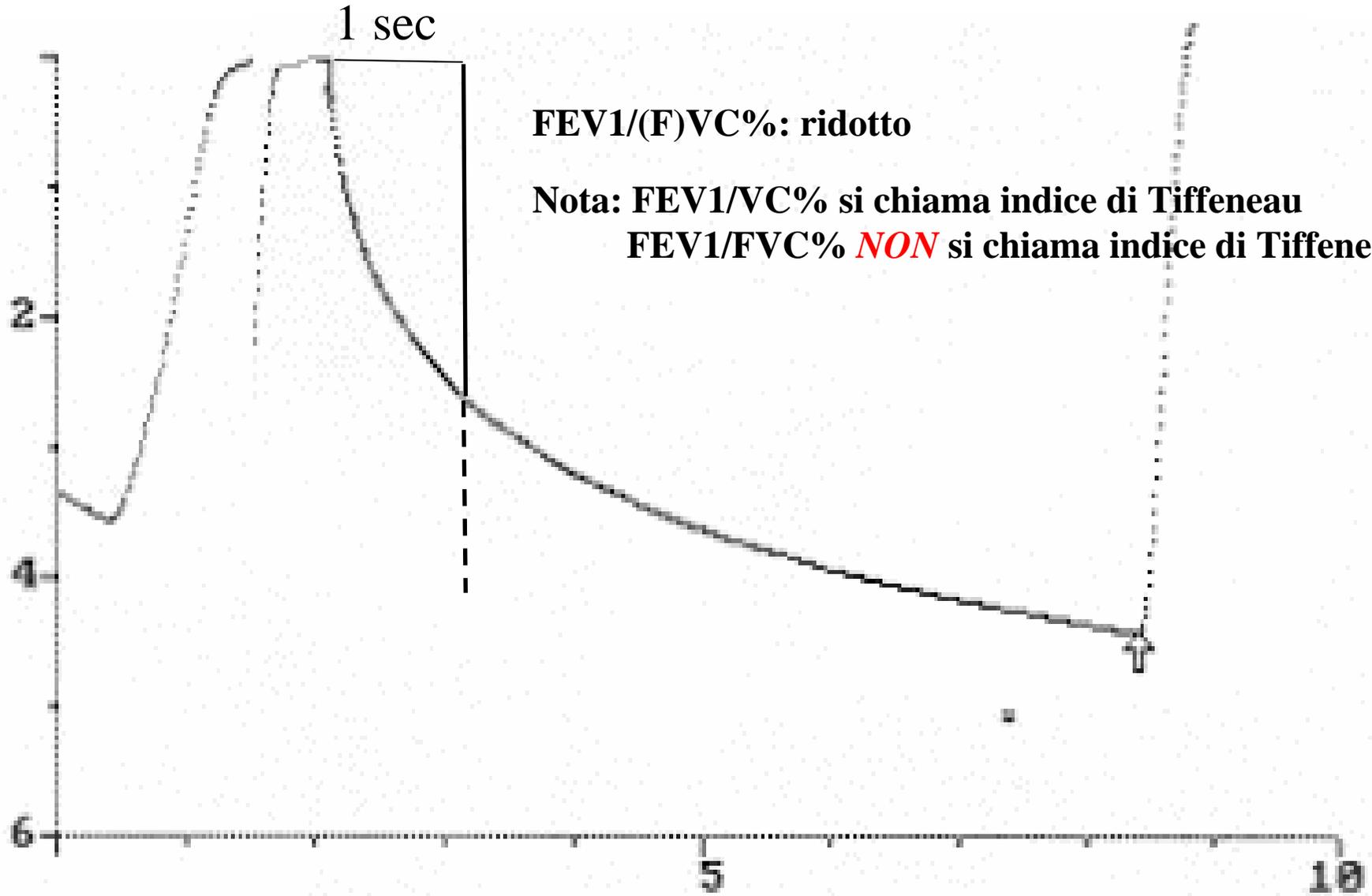


asma

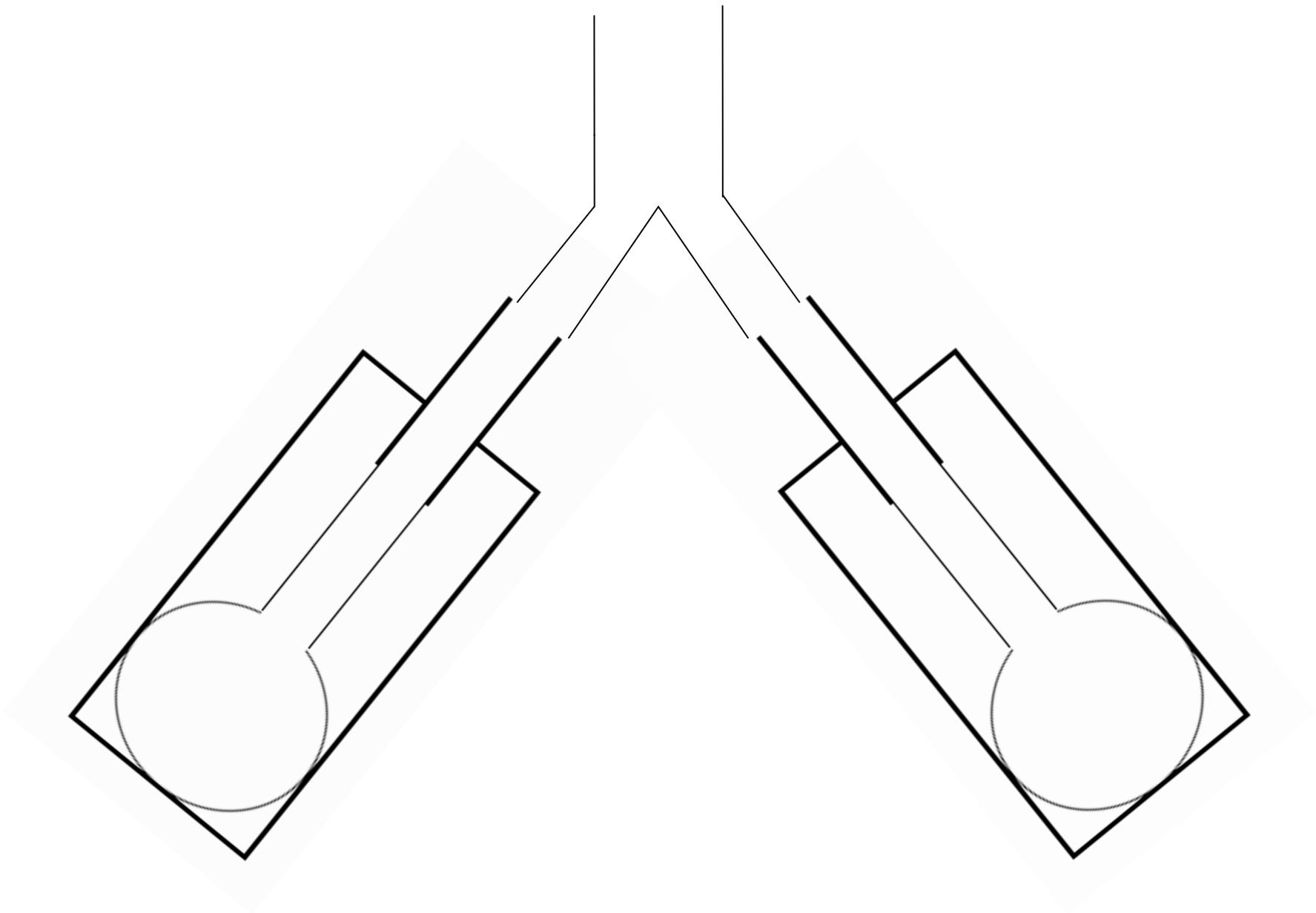


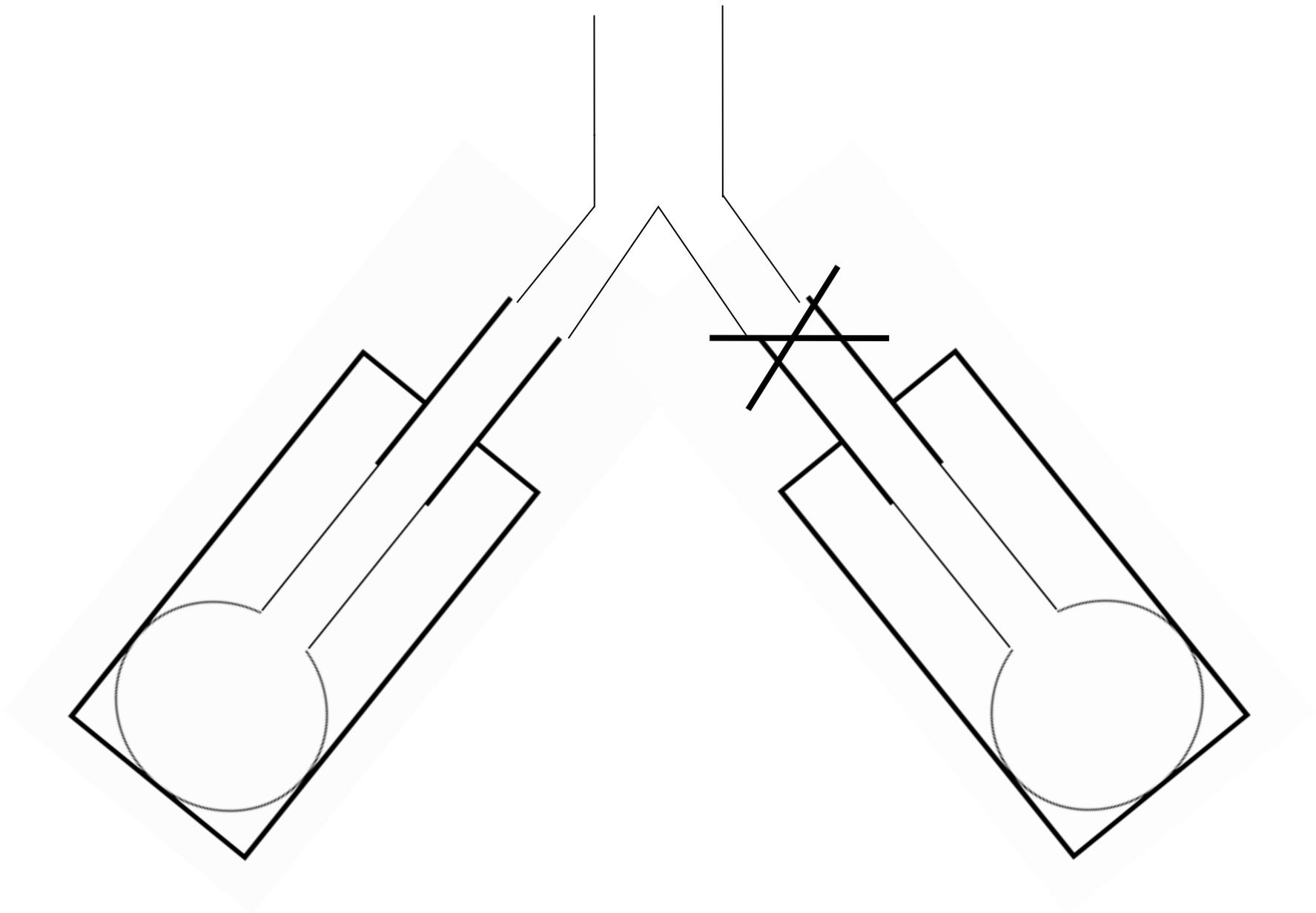


## Sindrome ostruttiva:



condizione necessaria e  
sufficiente per fare  
diagnosi di sindrome  
ostruttiva è la presenza  
di una riduzione  
dell'indice di  
Tiffeneau







QuickTime™ and a  
TIFF (Uncompressed) decompressor  
are needed to see this picture.

## **Sindrome restrittiva:**

**(F)VC: ridotta**

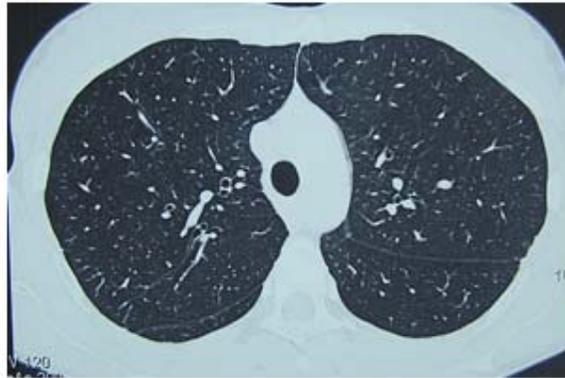
**FEV1: ridotto**

**FEV1/(F)VC%: normale**

**TLC: ridotta**

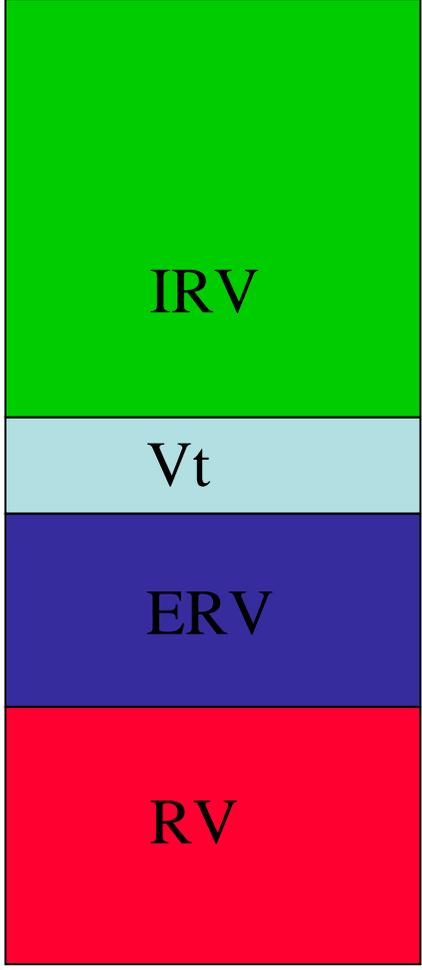
QuickTime™ and a  
TIFF (Uncompressed) decompressor  
are needed to see this picture.

normale

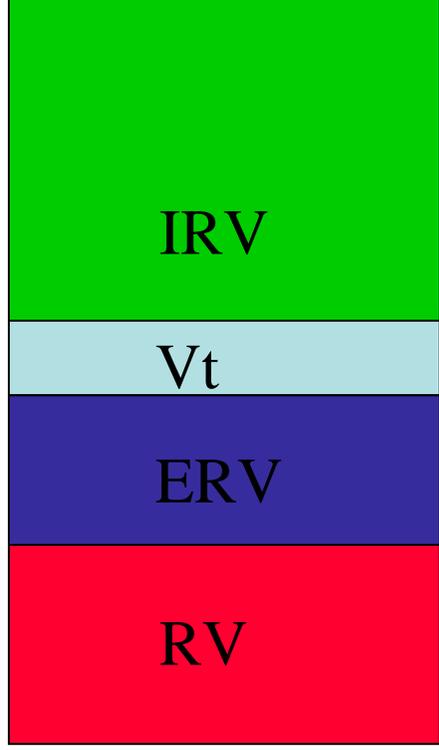


interstiziopatia

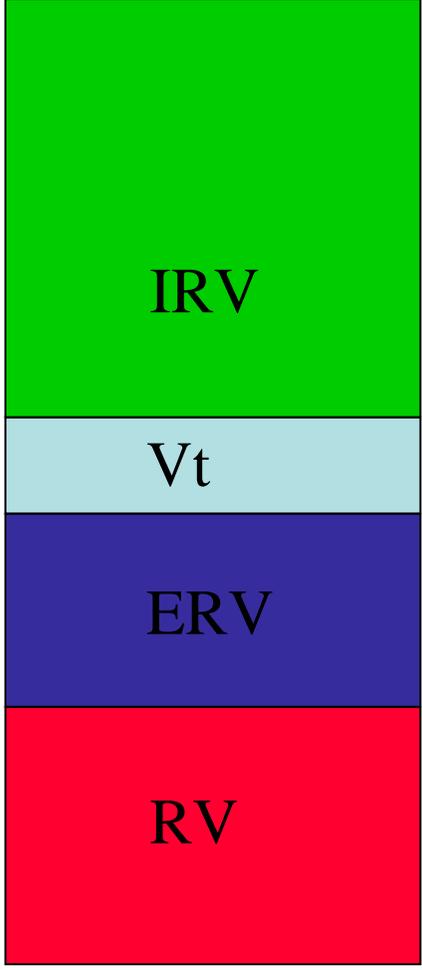




TLC



TLC

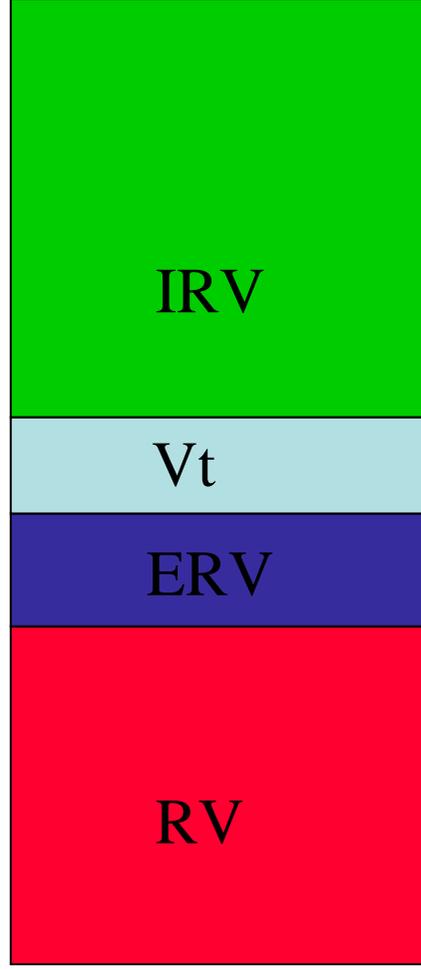


FRC

IC

VC

TLC



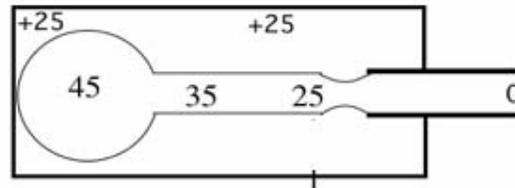
FRC

IC

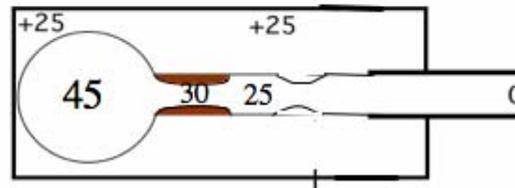
VC

TLC

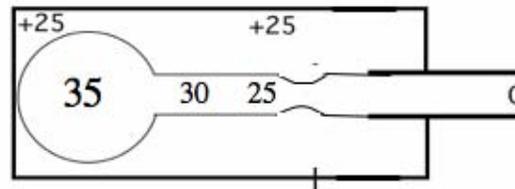
normale



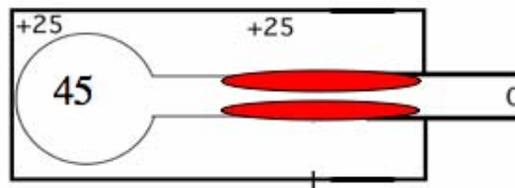
bronchite cronica

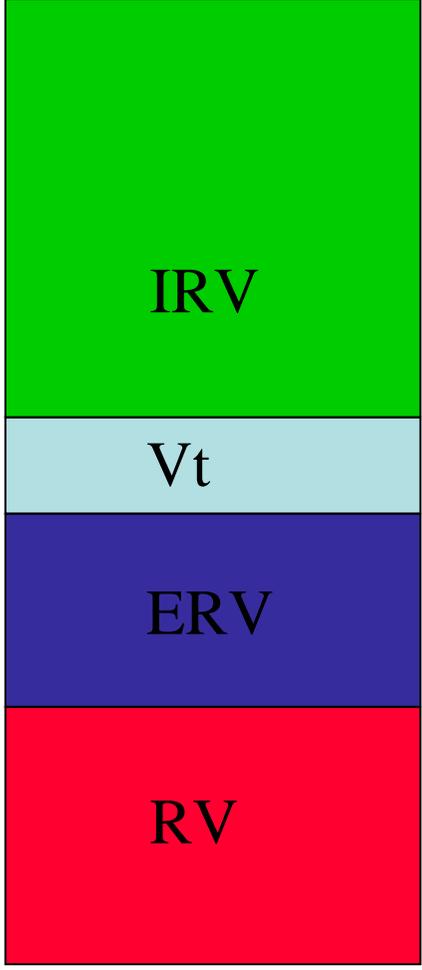


enfisema



asma



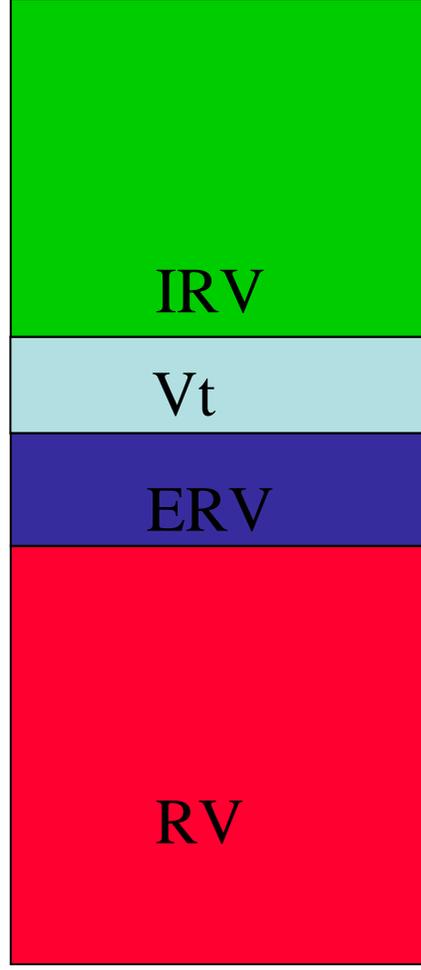


FRC

IC

VC

TLC

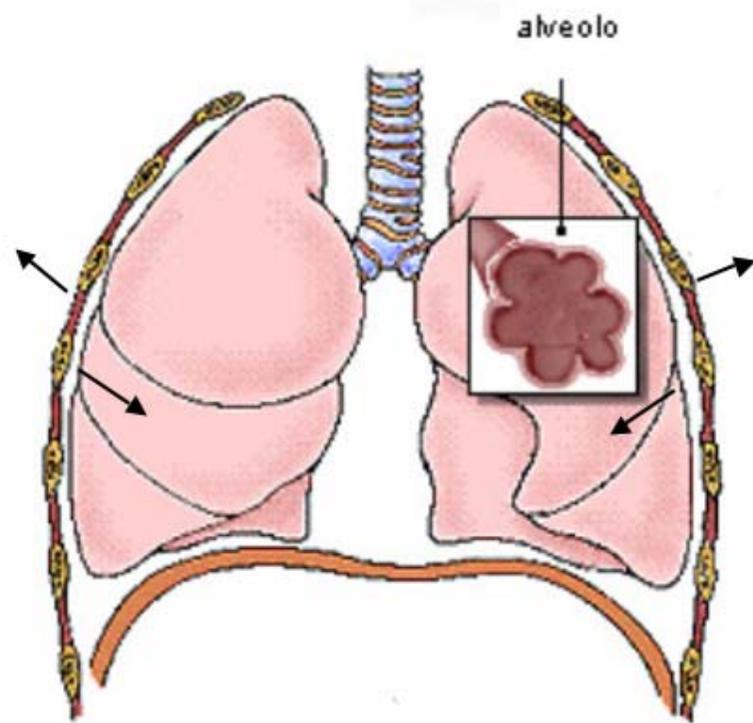


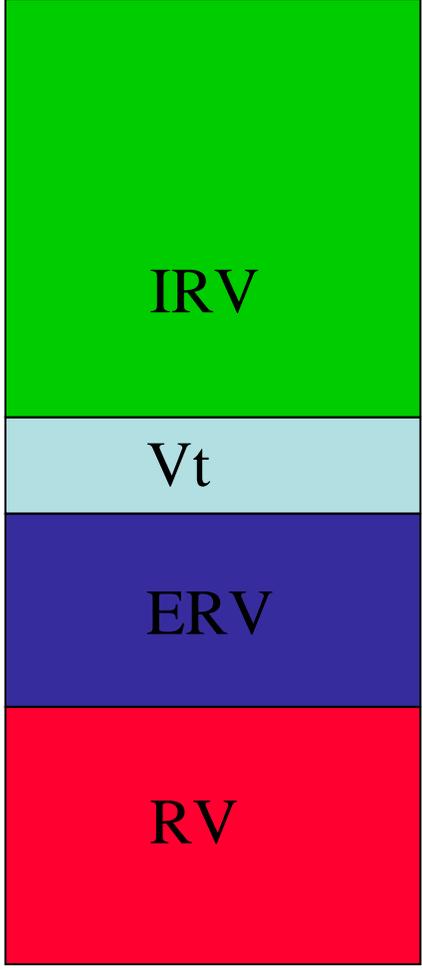
FRC

IC

VC

TLC



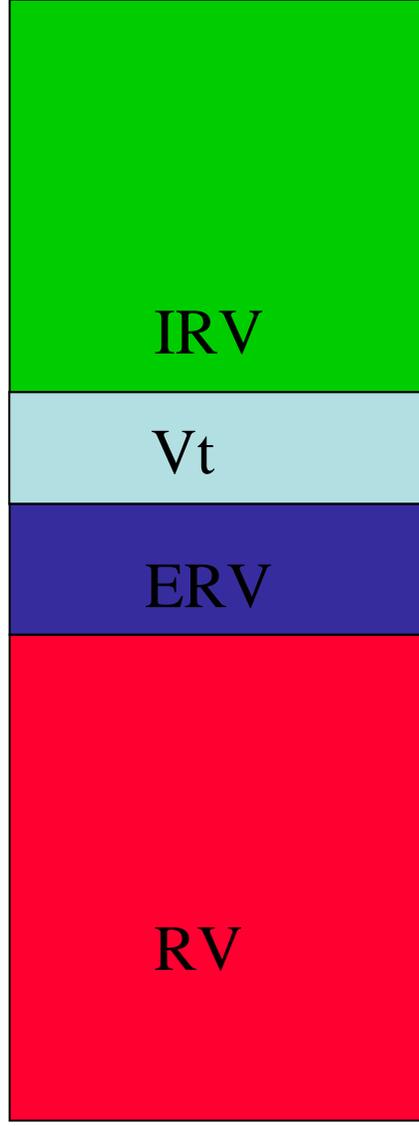


FRC

IC

VC

TLC



FRC

IC

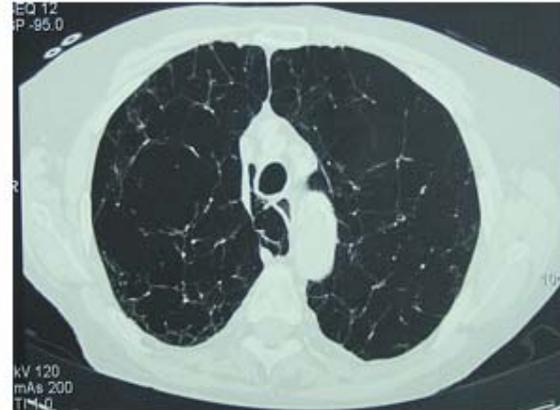
VC

TLC

normale



enfisema polmonare



parametro	misurato	teorico	% del teorico	v.n.
(F)VC				$\geq 80\%$
FEV1				$\geq 80\%$
FEV1/(F)VC%				$\geq 89\%$ (f) $\geq 88\%$ (m)
RV				80-120%
FRC				80-120%
TLC				80-120%



Nome:	<input type="text"/>	ID:	02031925SD
Tecnico	SS	Altezza:	150,00 cm
Dott.		Peso:	58,00 kg

### Commenti Pre Test

### BASE

	Misurato	Teorico	%Teor.
<u>SPIROMETRIA</u>			
FVC (L)	1,88	2,27	83
FEV1 (L)	1,75	1,70	103
FEV1/FVC (%)	93	73	127
FEF 25% (L/sec)	3,61	5,46	66
FEF 50% (L/sec)	2,59	2,92	89
FEF 75% (L/sec)	1,38	0,55	252
FEF Max (L/sec)	5,81	6,01	97
Tempo Espirazione (sec)	4,81		
FIVC (L)	1,31		
FIF 50% (L/sec)	2,62	4,25	62
FEV1/SVC (%)	90	73	123
<u>VOL. POLMONARI</u>			
SVC (L)	1,94	2,32	84
IC (L)	1,20	1,78	67
ERV (L)	0,74	0,53	138
FIVC (L)	1,31		

**Caso 1: normale**

Nome:	<input type="text"/>	ID:	260355LMA	BSA:	1,53
Tecnico	CF	Altezza:	156,00 cm	Età:	48
Dott.		Peso:	55,00 kg	Sesso:	F

### Commenti Pre Test

	BASE				POST		
	Misurato	Teorico	%Teor.	LLN	Misurato	%Teor.	%Chng.
<u>SPIROMETRIA</u>							
FVC (L)	2,81	2,77	101	2,31	3,24	117	16
FEV1 (L)	1,47	2,36	62	1,97	2,37	100	61
FEV1/FVC (%)	52	80	65	67	73	91	40
FEF 25% (L/sec)	1,63	5,42	30	4,53	5,95	110	265
FEF 50% (L/sec)	0,78	3,78	21	3,16	2,64	70	238
FEF 75% (L/sec)	0,28	1,55	18	1,29	1,04	67	272
FEF Max (L/sec)	3,45	6,03	57	5,04	6,61	110	92
Tempo Espirazione (sec)	10,23				7,89		-23
FIVC (L)	2,53				3,03		20
FIF 50% (L/sec)	2,09	3,46	60	2,89	2,56	74	23
FEV1/SVC (%)	48	80	60	67			
<u>VOL. POLMONARI</u>							
SVC (L)	3,04	2,92	104	2,44			
IC (L)	2,30	1,97	117	1,64			
ERV (L)	0,74	0,95	78	0,79			
FIVC (L)	2,53				3,03		20

**Caso 2 (paziente asmatico):**

**Ostruzione (FEV1/VC%=48 pari al 60% del teorico) di grado moderato (FEV1=62% del teorico) completamente reversibile (FEV1 dopo broncodilatatore=100% del teorico)**

Nome:	<input type="text"/>	ID:	22081942CI
Tecnico	SC	Altezza:	179,00 cm
Dott.		Peso:	91,00 kg

### Commenti Pre Test

	BASE		
	Misurato	Teorico	%Teor.
<b>SPIROMETRIA</b>			
FVC (L)	3,72	4,36	85
FEV1 (L)	1,33	3,41	39
FEV1/FVC (%)	36	76	47
FEF 25% (L/sec)	1,04	7,51	14
FEF 50% (L/sec)	0,39	4,51	9
FEF 75% (L/sec)	0,18	1,72	11
FEF Max (L/sec)	3,36	8,47	40
Tempo Espirazione (sec)	17,61		
FIVC (L)	3,77		
FIF 50% (L/sec)	4,00	4,67	86
FEV1/SVC (%)	32	76	43
<b>VOL. POLMONARI</b>			
SVC (L)	4,12	4,53	91
IC (L)	2,79	3,56	78
ERV (L)	1,33	0,97	137
FIVC (L)	3,77		
RV (N2) (L)	2,99	2,48	121
FRC (N2) (L)	4,32	3,66	118
TLC (N2) (L)	7,11	7,22	99
RV/TLC (N2) (%)	42	38	111
Final N2 (%)	1,98	< 1.5%	

**Caso 3 (paziente con bronchite cronica ostruttiva):**

**Ostruzione (FEV1/VC%=32 pari al 43% del teorico) di grado severo (FEV1=39% del teorico)**

**Volumi statici normali**