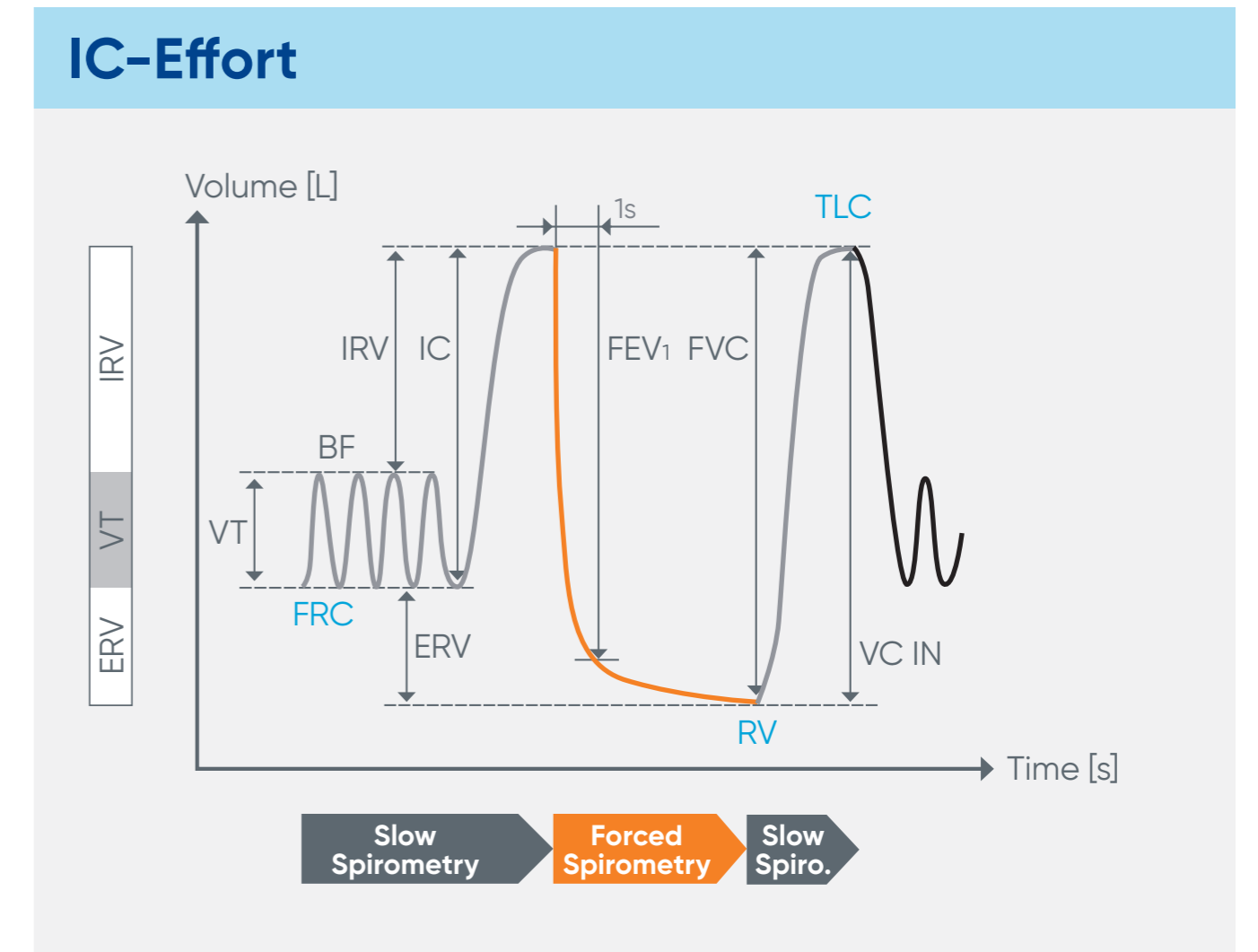
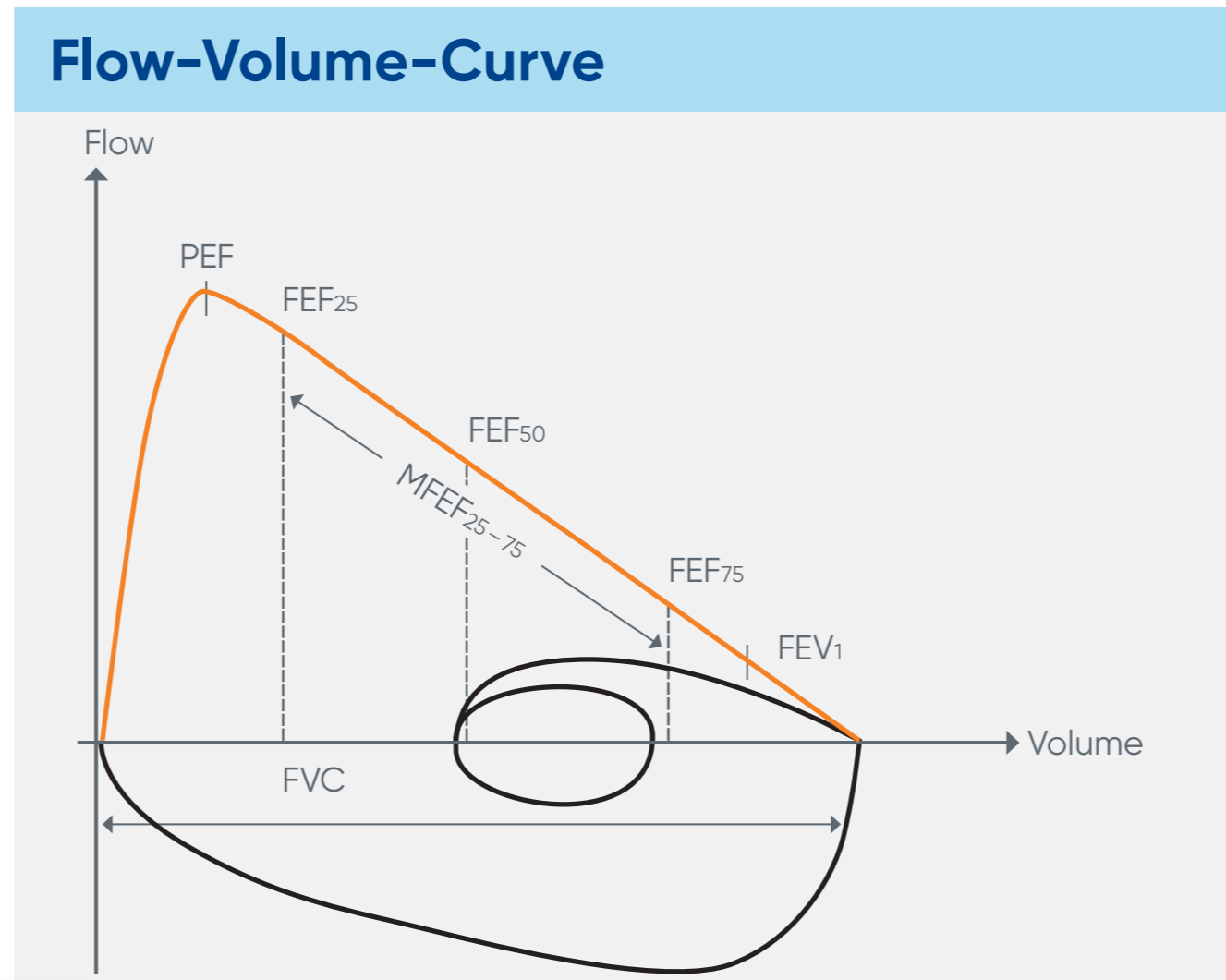
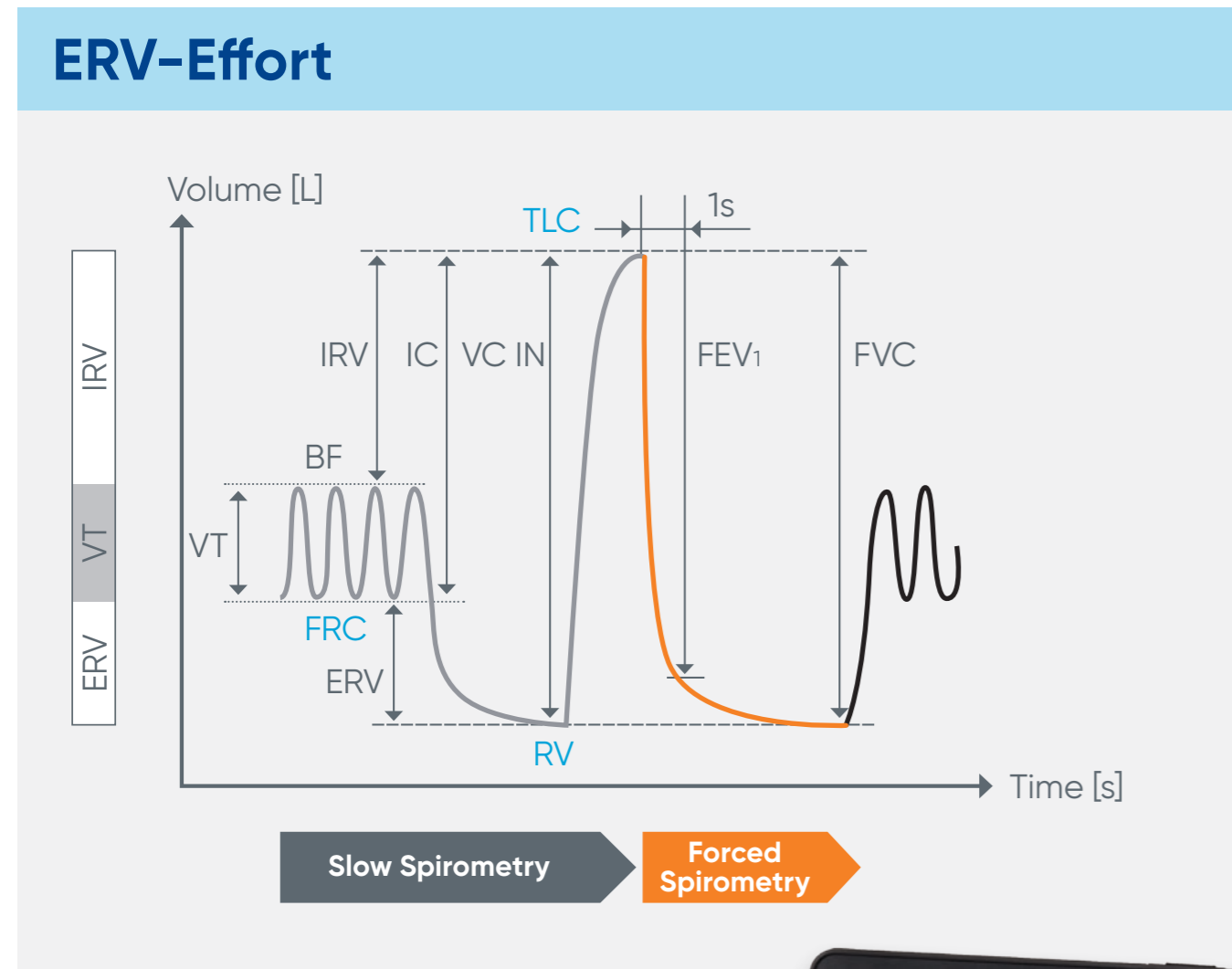
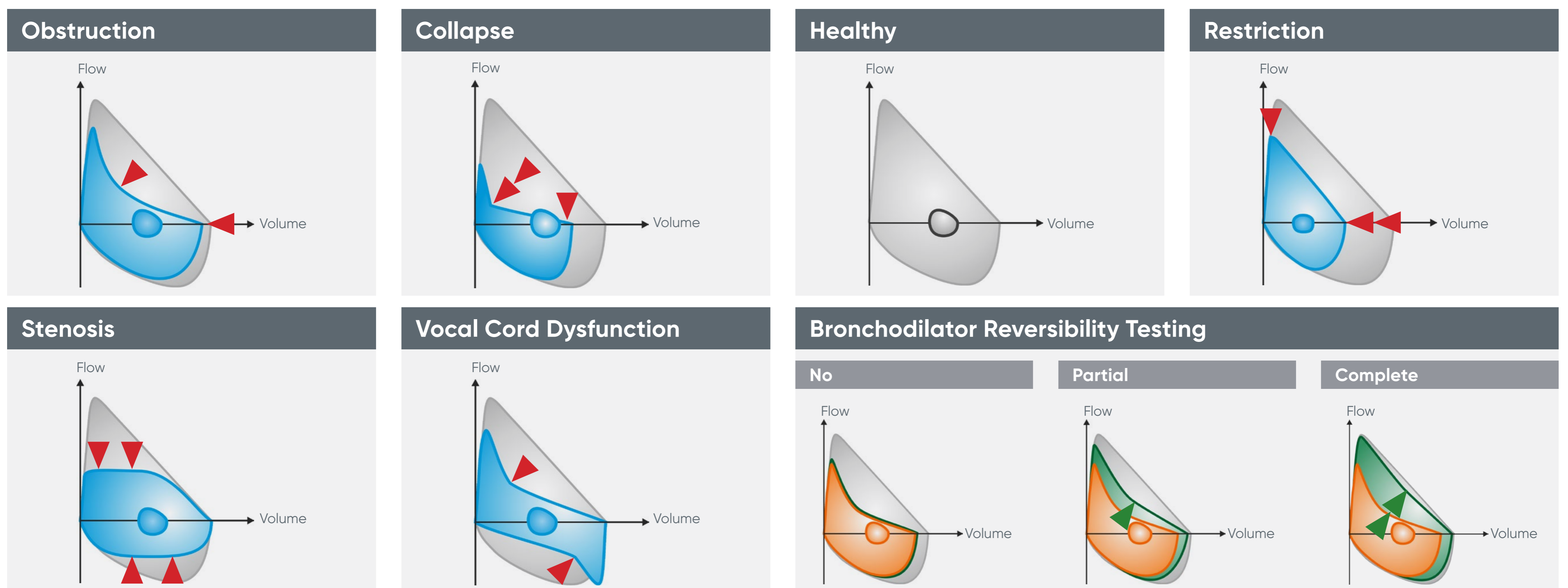


## Breathing Maneuvers

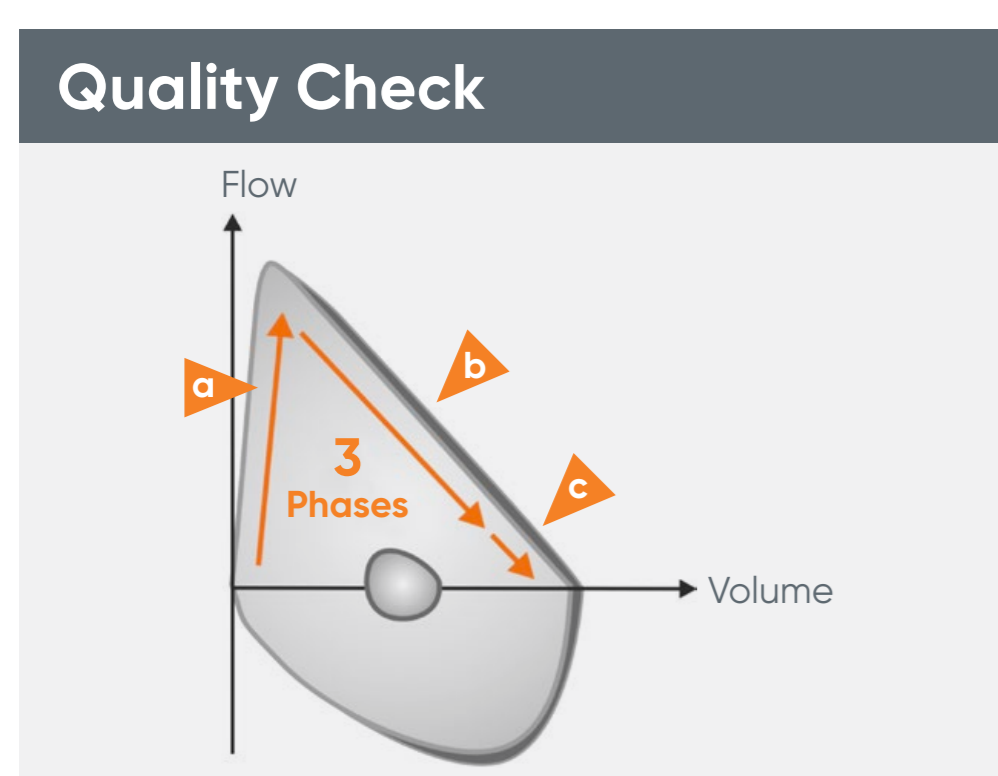


	Parameters	Description
Forced Spirometry	FEV <sub>1</sub>	Forced expiratory volume in 1 second
	FVC	Forced vital capacity
	FEV <sub>1</sub> % FVC	Tiffeneau-index; FEV <sub>1</sub> in % of forced vital capacity
	PEF	Peak expiratory flow
	MFEF <sub>25-75</sub>	Mean forced expiratory flow between 25% and 75% of FVC
	FEF <sub>25</sub>	Forced expiratory flow when 25% of FVC has been exhaled
	FEF <sub>50</sub>	Forced expiratory flow when 50% of FVC has been exhaled
Slow Spirometry	VC IN (IVC)	Inspiratory vital capacity
	IC	Inspiratory capacity
	IRV	Inspiratory reserve volume
	ERV	Expiratory reserve volume
	VT	Tidal volume
	BF	Breathing frequency

## Typical Flow-Volume-Loop Pattern in Health and Disease



## Quality Assessment of the Flow-Volume-Loop



Description	
a	Flow accelerating phase >> <b>STEEP</b>
b	Flow limitation phase >> <b>REPRODUCIBLE</b>
c	End of expiration >> <b>FLOWED OUT</b>
1	Hesitation
2	Coughing
3	Premature termination
4	Slow exhalation
5	Incomplete exhalation Volume drift Leakage at mouth
6	Incomplete inhalation

