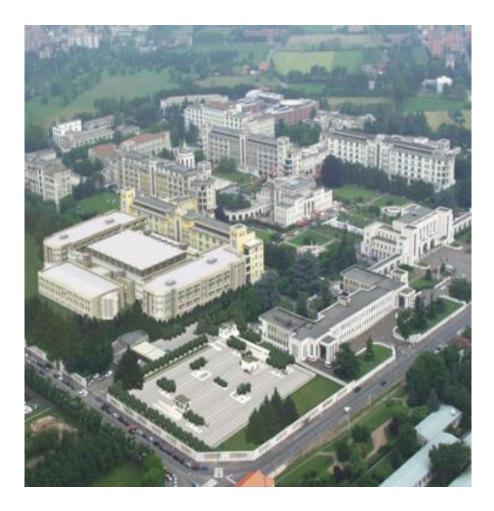


INQUADRAMENTO E GESTIONE DELLA BPCO RIACUTIZZATA NEL CARDIOPATICO "CRITICO"

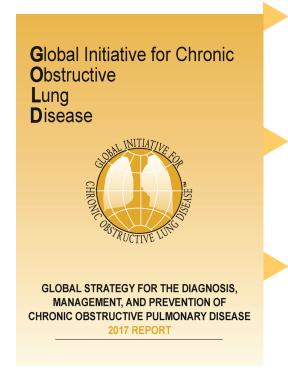




Dr Andrea Garascia

Insufficienza Cardiaca e Trapianto Cardiaco" De Gasperis" Cardio Center-Niguarda

BPCO.....i numeri



COPD is currently the fourth leading cause of death in the world.

COPD is projected to be the 3rd leading cause of death by 2020.

More than 3 million people died of COPD in 2012 accounting for 6% of all deaths globally.

Globally, the COPD burden is projected to increase in coming decades because of continued exposure to COPD risk factors and aging of the population.

BPCO.....i numeri

Global Initiative for Chronic Obstructive Lung Disease

GLOBAL STRATEGY FOR THE DIAGNOSIS,
MANAGEMENT, AND PREVENTION OF
CHRONIC OBSTRUCTIVE PULMONARY DISEASE

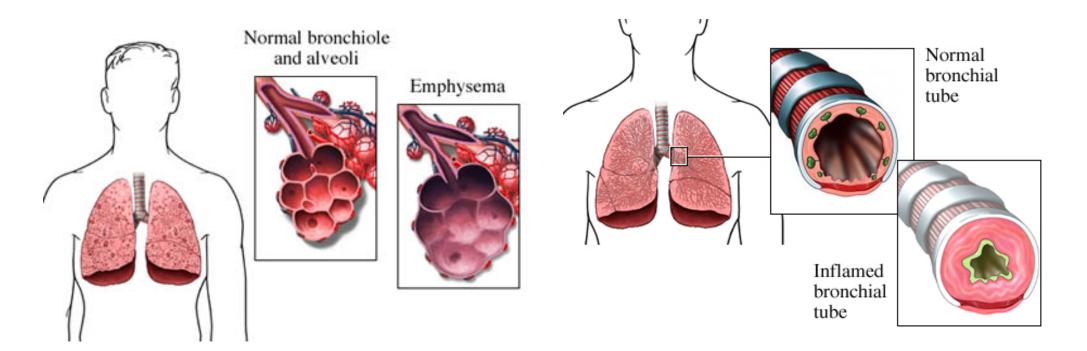
2017 REPORT

Estimated 384 million COPD cases in 2010.

Estimated global prevalence of 11.7%.

Higher ≥ 40 year group compared to those < 40

Higher in men than women.





Dyspnea that is:	Progressive over time.			
	Characteristically worse with exercise.			
	Persistent.			
Chronic cough:	May be intermittent and may be unproductive.			
	Recurrent wheeze.			
Chronic sputum production:	Any pattern of chronic sputum production may indicate COPD.			
Recurrent lower respiratory tract info	ections			
History of risk factors:				
	Host factors (such as genetic factors, congenital/developmental abnormalities etc.).			
	Tobacco smoke (including popular local preparations).			
	Smoke from home cooking and heating fuels.			
	Occupational dusts, vapors, fumes, gases and other chemicals.			

Family history of COPD and/or childhood factors:

For example low birthweight, childhood respiratory infections etc.

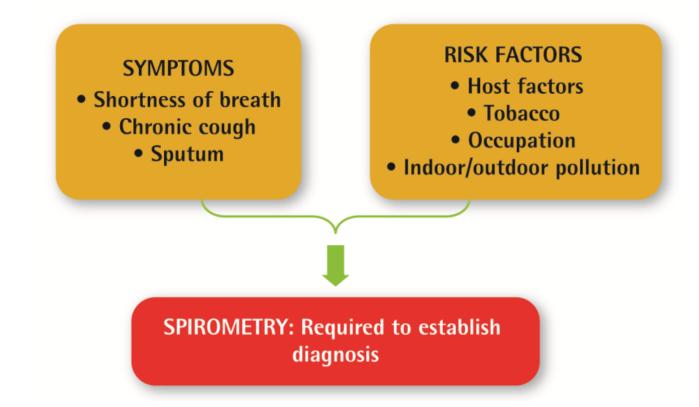
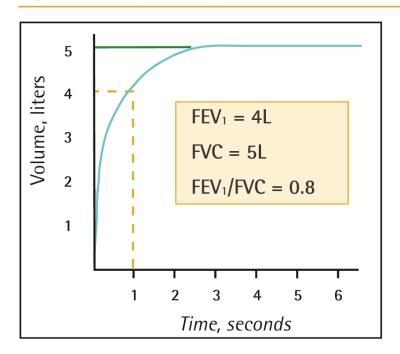
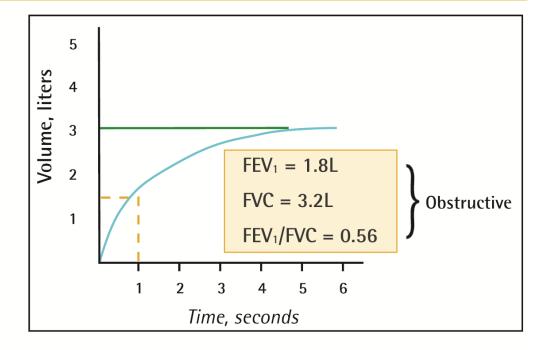




Figure 2.2B. Spirometry - Obstructive Disease





FVC = $FEV_1 =$

Table 2.4. Classi	able 2.4. Classification of airflow limitation severity in COPD (Based on post-bronchodilator FEV ₁)							
In patients with	FEV ₁ /FVC < 0.70:							
GOLD 1:	Mild	FEV ₁ ≥ 80% predicted						
GOLD 2:	Moderate	50% ≤ FEV ₁ < 80% predicted						
GOLD 3:	Severe	30% ≤ FEV ₁ < 50% predicted						
GOLD 4:	Very Severe	FEV ₁ < 30% predicted						



Review





The war against heart failure: the Lancet lecture

Eugene Braunwald

Lancet 2015; 385: 812-24

Published Online November 16, 2014 http://dx.doi.org/10.1016/ S0140-6736(14)61889-4

Presented at the "At the Limits: Cardiology, Diabetes, Nephrology" conference, London, April 24, 2014

TIMI Study Group, Cardiovascular Division, Brigham and Women's Hospital, Boston, MA, USA; and Department of Medicine, Harvard Medical School, Boston, MA, USA (Prof E Braunwald MD)

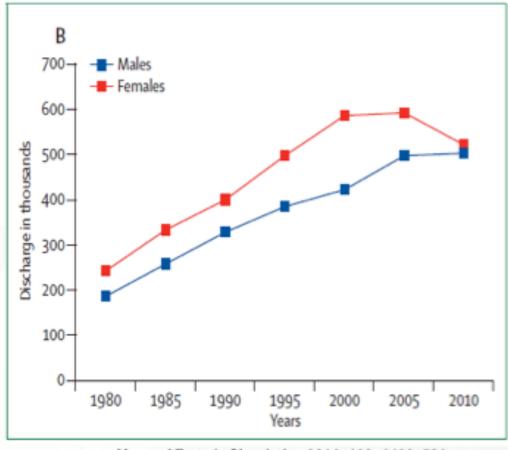
Correspondence to: Prof Eugene Braunwald, Brigham and Women's Hospital, Boston, Heart failure is a global problem with an estimated prevalence of 38 million patients worldwide, a number that is increasing with the ageing of the population. It is the most common diagnosis in patients aged 65 years or older admitted to hospital and in high-income nations. Despite some progress, the prognosis of heart failure is worse than that of most cancers. Because of the seriousness of the condition, a declaration of war on five fronts has been proposed for heart failure. Efforts are underway to treat heart failure by enhancing myofilament sensitivity to Ca2+; transfer of the gene for SERCA2a, the protein that pumps calcium into the sarcoplasmic reticulum of the cardiomyocyte, seems promising in a phase 2 trial. Several other abnormal calcium-handling proteins in the failing heart are candidates for gene therapy; many short, non-coding RNAs-ie, microRNAs (miRNAs)-block gene expression and protein translation. These molecules are crucial to calcium cycling and ventricular hypertrophy. The actions of miRNAs can be blocked by a new class of drugs, antagomirs, some of which have been shown to improve cardiac function in animal models of heart failure; cell therapy, with autologous bone marrow derived mononuclear cells, or autogenous mesenchymal cells, which can be administered as cryopreserved off the shelf products, seem to be promising in both preclinical and early clinical heart failure trials; and long-term ventricular assistance devices are now used increasingly as a destination therapy in patients with advanced heart failure. In selected patients, left ventricular assistance can lead to myocardial recovery and explantation of the device. The approaches to the treatment of heart failure described, when used alone or in combination, could become important weapons in the war against heart failure.

Reduction in Myocardial Infaction in UK from 2002 to 2010

Α Values for 2002 17-6 20-1 230 95 79 37 -10--20-Change (%) -30 -40 -50-Males Females Mortality rate Case fatality Event rate (per 100 000) rate (%) (per 100 000)

Smolina K et al, BMJ 2012; 344: d8059

Hospital discharges for HF In USA from 1980 to 2010



Moran AE et al, Circulation 2014; 129: 1493-501.

Ministero della Salute: Rapporto Annuale sui Ricoveri Ospedalieri (anno 2013, pubblicato luglio 2014)

Tavola 2.2.9 - Primi 50 Aggregati clinici di codici (ACC) diagnostici (ICD9CM 2007) per numerosità di dimissioni - Attività per Acuti in Regime ordinario - Anno 2013

RANGO		ACC	C - AGGREGATI CLINICI DI CODICI E	DI DIAGNOSI	DIMISSIONI	% SUL TOTALE	% CUMULATA	GIORNATE DI DEGENZA	DEGENZA MEDIA (giorni)	
							2,9	1.795.702	9,3	
1	0108	Insuffic	ienza cardiaca	congestizia ne	on da inerten	ione	5,8	673.008	3,5	
1	0100	ilisuilic	ieriza cai uiaca	congestizia, ne	ii da iperteni	sione	8,2	1.020.095	6,3	
2	0196	Gravida	inza e/o parto i	normale			10,6	1.762.802	11,1	
-	0150	o Gravia	inza c, o parto i	ormarc			12,9	823.886	5,5	
3	0149	Malatti	e delle vie bilia	ri			14,9	1.351.868	10,1	
-	0143	, ividiacei	c delic vic billa				16,8	1.346.451	10,6	
4	0131	Insuffic	ienza respirato	ria, arresto res	spiratorio (ad	ulti)	18,7	949.657	7,7	
•	020		ienza respirate	ria, arresto res	piratorio (aa		20,4	877.157	7,5	
10	ULAS benia addomi	10310			115.006	1,7	22,2	357.814	3,1	
11	0106 Aritmie cardi				107.096	1.6	23.8	524.241	4,9	
12		collo del femore								
13		ia e radioterapia	DIMISSIONI %	% SUL TOTALE	% CUMULATA	GIO	GIORNATE DI		DEGENZA MEDIA	
14 15		i arti superiori i arti inferiori	DIIVIISSIOIVI			DE	DEGENZA		(giorni)	
16		e del tessuto connettivo								
17		ecificati tumori benigni								
18		anze del parto e del pu	400 000	2,9	2,9)	1.795.702	2	9,3	
19		atologie dei dischi inter								
20	0032 Tumori malig	mi della vescica	191.860	2,9	5,8	3	673.008	8	3,	
21	0042 Tumori malig	ni secondari	161.294	2,4	8,2)	1.020.099		6,3	
22	0225 Disturbi artio	olari e lussazioni da tra	101.294	2,4	0,4	-	1.020.09.	,	0,.	
23	0024 Tumori malig	ni della mammella	158.475	2,4	10,6	5	1.762.802	2	11,	
24	0189 Pregresso pa	rto cesareo								
25	0218 Nati vivi sani				58.187	0,9	38,9	301.376	5,2	
26		e vie urinarie			58.186	0,9	39,8	230.851	4,0	
27	0134 Altre malatti	e delle vie respiratorie s	uperiori		55.023	0,8	40,7	156.204	2,8	



Consensus Conference Il percorso assistenziale del paziente con scompenso cardiaco

