

























Pulmonary Therapies

- Airway Clearance
 - Manual percussion
 - PEP devices
 - High-frequency chest wall oscillation
- Mucoactive Agents
 - Dornase alfa (rhDNase)
 - Hypertonic saline
 - Mannitol

Pulmonary Therapies
Airway Clearance
Manual percussionPEP devices
 High-frequency chest wall oscillation
 Mucoactive Agents Dornase alfa (rhDNase) Hypertonic saline Mannitol
 Inhaled Antibiotics
– Tobramycin
– Aztreonam
– Colistin











CFTR Mutation			Number of	Percent of
Legacy Name	cDNA Name	Protein Name	Individuals	Individuals
F508del	c.1521_1523delCTT	p.Phe508del	26,626	85.3
G542X	c.1624G>T	p.Gly542X	1,418	4.5
G551D	c.1652G>A	p.Gly551Asp	1,365	4.4
R117H	c.350G>A	p.Arg117His	983	3.2
N1303K	c.3909C>G	p.Asn1303Lys	736	2.4
W1282X	c.3846G>A	p.Trp1282X	701	2.2
3849+10kbC->T	c.3718-2477C>T		573	1.8
R553X	c.1657C>T	p.Arg553X	548	1.8
1717-1G->A	c.1585-1G>A		498	1.6
621+1G->T	c.489+1G>T		493	1.6
2789+5G->A	c.2657+5G>A		456	1.5
3120+1G->A	c.2988+1G>A		377	1.2
D1152H	c.3454G>C	p.Asp1152His	321	1.0
5T	c.1210-12T[5]		307	1.0



































































































		Registered Patients	Per 100,000 Inhabitants			
	1	United States	Ireland			
	2	United Kingdom	United Kingdom			
	3	France	Australia			
	4	Germany	Canada			
	5	Italy	Belgium			
	6	Canada	New Zealand			
	7	Brazil	France			
	8	Australia	United States			
	9	Russia	Switzerland			
	10	Spain	Denmark			
			Lopes-Pacheco M. Front Pha	rmacol. 2016		















































Thank you.