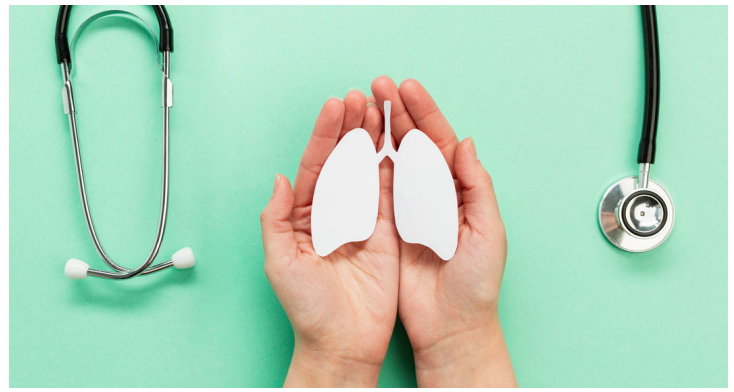


COPD PATIENT EMPOWERMENT

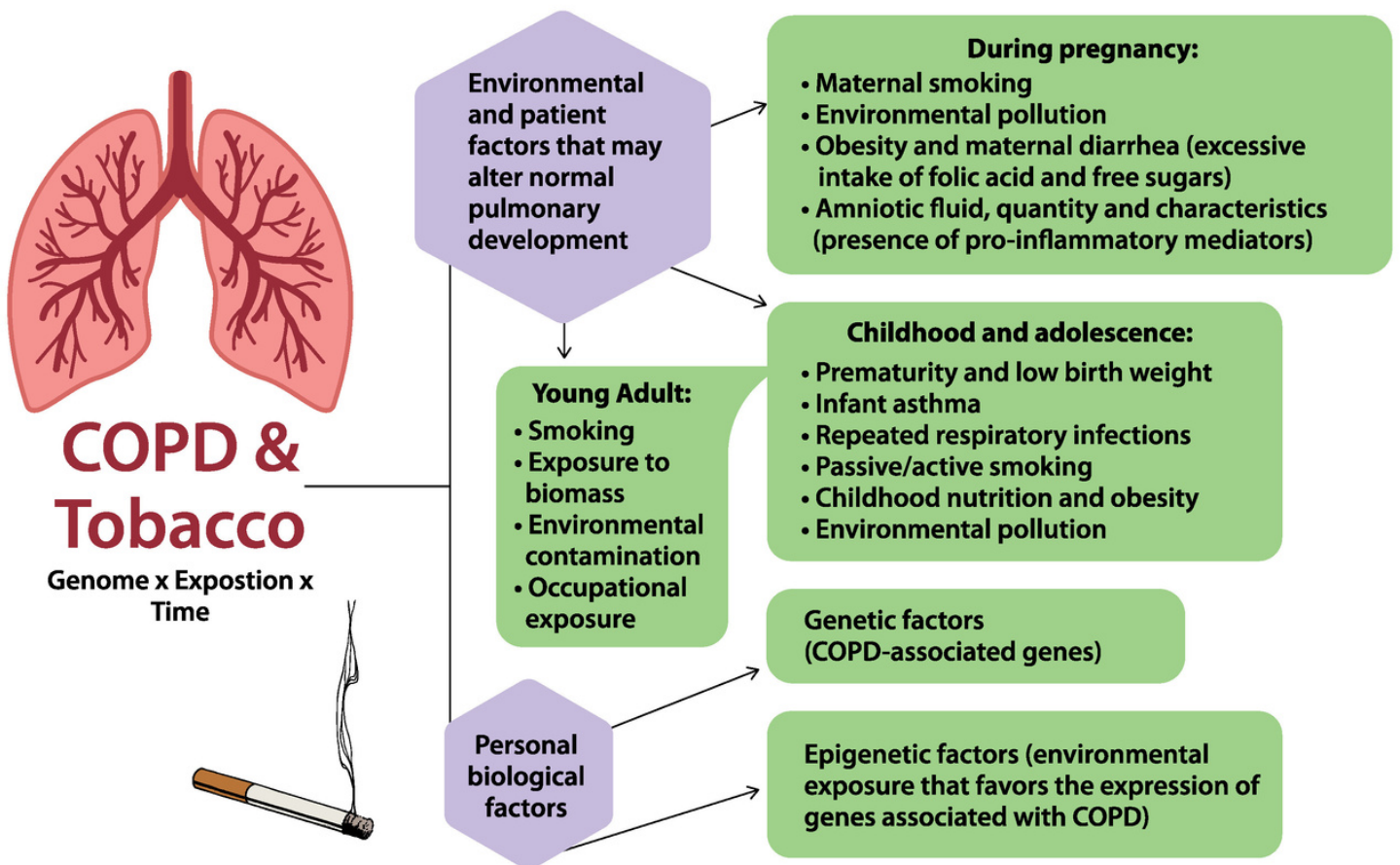
Scientific evidence and quality of life in COPD



A systematic review aimed at patients, family members and caregivers

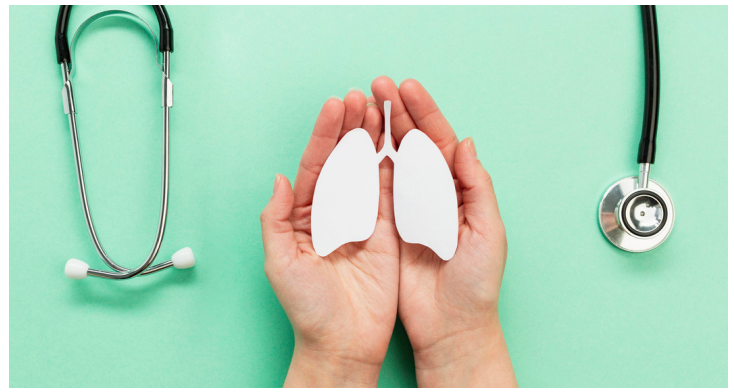
Impact of tobacco

Scientific evidence and quality of life in COPD



COPD PATIENT EMPOWERMENT

Scientific evidence and quality of life in COPD



A systematic review aimed at patients, family members and caregivers

Impact of tobacco

- **Environmental and host factors that can alter normal lung development:**
 - During pregnancy, it may increase the risk of wheezing, asthma, airway inflammation and bronchial hyperresponsiveness:
 - Maternal smoking
 - Environmental contamination
 - Obesity and maternal diet (excessive intake of folic acid and free sugars)
 - Amniotic fluid, quantity and characteristics (presence of proinflammatory mediators)
 - Childhood and adolescence
 - Prematurity and low birth weight
 - Childhood asthma
 - Repeated respiratory infections
 - Passive/active smoking
 - Nutrition and childhood obesity
 - Environmental contamination
 - Young adult
 - Smoking
 - Biomass exposure
 - Environmental contamination
 - Occupational exposure
- **Genetic (COPD-associated genes) and epigenetic factors** (environmental exposure favoring COPD-associated gene expression).
- **COPD goes beyond smoking** (which remains a key environmental risk factor) and is related to numerous risk factors early in life, interacting with the individual's genetics through epigenetic changes induced throughout life. This new perspective on COPD (Genome × Exposure × Time) can also be applied to many other human diseases traditionally considered as diseases linked to aging.



Discover more COPD Empowerment assets at:
<https://gaapp.org/copd/copd-patient-empowerment-scientificevidence/>



This educational assets have been created for COPD patients and caregivers,
thanks to the collaborative work of:



Thanks to the generous support of:



Original Publication:

Vila M, Faner R, Agustí A. Beyond the COPD-tobacco binomial: New opportunities for the prevention and early treatment of the disease. Med Clin (Barc). 2022 Jul 8;159(1):33-39. English, Spanish.
doi: 10.1016/j.medcli.2022.01.021. Epub 2022 Mar 9. PMID: 35279314.