

**Diagnostic Value Of Exhaled Carbon
Monoxide For Grading Of Childhood Asthma
In Relation To The European Classification**

Thesis

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in Pediatrics

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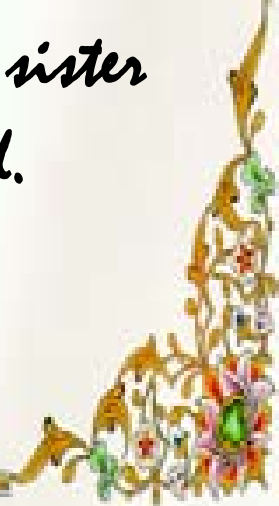
Mayada





Dedication

*To my Dear mother and my dear
uncle (Ali El-Shinawy)
Who gave me too much and received
too little
My Husband Mahmoud
and My children Ali & Mohamed
To my brothers and my great sister
and teacher Dr. Ola Said.*



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Abbreviation

ADAM33	Adesintergrin and metalloproteinase 33
AUC	Area under the curve
BDP	.....	Budesonide
BMI	.....	Body mass index
CD	.....	Cluster of differentiation type
CO	.....	Carbon monoxide
CRP	.....	C-reactive protein
DEP	.....	Diesel Exhaust particles
DPP10	.....	Dipeptidyl peptidase 10
eCO	.....	Exhaled carbon monoxide
EIA	.....	Exercise induced asthma
FEV1	.....	Forced expiratory volume in first second
FVC	.....	Forced vital capacity
GERD	.....	Gastro-esophageal reflux disease
GPRA	.....	G-protein related receptor for asthma
HT	.....	Height
ICS	.....	Inhaled corticosteroids
ICS-cont	.....	Inhaled corticosteroid-controlled
ICS-uncont	...	Inhaled corticosteroid-uncontrolled
ISAAC	.....	International Study of Asthma and Allergies in Childhood
LA β As	.....	Long-acting β 2 agonists
LTRA	.....	Leukotriene receptor antagonist

MDI.....Metered dose inhaler

NAEPPNational Asthma Education and
Prevention Program

NO.....Nitrous Oxide

O₃.....Ozone

PEEFPeak end expiratory flow

PHF11.....Plant homeodomain zinc finger protein
11

PKR.....Protein kinase receptors

PM.....Particulate matters

ppbPart per billion

ppmpart per million

RSV.....Respiratory syncytial virus

SDStandard deviation

SLIT.....Sublingual immunotherapy

SPINK5Serine protease inhibitor Kazal type 5

Th.....T-helper

TLR3.....Toll like receptor protein 3

TNF.....Tumor necrosis factor

WHOWorld Health Organization

WTWeight