Parameters not in legend of healthy children

Parameter	Meaning	Additional explanation
SubjectNr	Subject ID (randomized, please check if no overlap in two datasets)	
Some explanation about pulmonary function tests	FEV1 = amount of air that can be expired in 1 second. Higher = better. This measurement is particularly relevant for asthma, but also for CF. FVC = total amount of air that can be expired in whole function test. This measurement is more relevant for CF than for asthma. FEV1/FVC ratio = the ratio between the two measurements. This is more relevant for asthma. Fev1_percentage = the percentage of the predicted fev1 (this is different for the various ages and heights; therefore a prediction of the expected fev1 is made by an algorithm. The percentage is therefore comparable between patients and should be the one that is used during analysis. Fvc_percentage = the same but for FVC.	
Technique	Whether pulmonary function measurement was performed correctly (fev1 and fvc measurements).	technique = 1, do not use for analysis. Technique = 2, use with caution Technique = 3, use for analysis
ACD1 until ACD6	Scores on individual questions in the asthma control diary (symptom score questionnaire)	
ACD6score	Average score of the asthma control diary	Score >= 1.5 is considered abnormal, or a day with symptoms. PS this is only filled out by children with asthma, children with CF have separate questionnaire (symptom score).
BASELINE_ACQ6_score	Asthma control questionnaire score at baseline	A score > 1.5 is considered as 'uncontrolled asthma', where symptoms are not adequately controlled.
EOS_ACQ6_score	Same, but end-of-study	
BASELINE_physical_tot EOS_physical_tot BASELINE_emotional_tot EOS_emotional_tot BASELINE_school_tot EOS_school_tot BASELINE_bodyimage_tot EOS_bodyimage_tot BASELINE_treatmentburden_tot EOS_treatmentburden_tot	These are all parameters of the CFQ (cystic fibrosis questionnaire) at baseline and at the end of study. Completed only for CF patients	

BASELINE_health_tot		
EOS_health_tot		
BASELINE_weight_tot		
EOS_weight_tot		
BASELINE_respiratory_tot		
EOS_respiratory_tot		
BASELINE_digestion_tot		
EOS_digestion_tot		
BASELINE_PAQLQ_activity	The are parameters of the pediatric asthma quality of life questionnaire (PAQLQ) Completed only for asthma patients	
EOS_PAQLQ_activity		
BASELINE_PAQLQ_symptoms		
EOS_PAQLQ_symptoms		
BASELINE_PAQLQ_emotion		
EOS_PAQLQ_emotion		
BASELINE_PedsQL_score	Quality of life score at baseline	
EOS_PedsQL_score	Quality of life score at end of study.	
pollenTotal	Amount of pollen in the air at that particular day.	Possibly relevant for asthma
NO	Concentration of several pollutants in the Hague in the air for that particular day.	Possibly relevant for asthma. Disclaimer: CF patients were usually not based in the Hague but in all of South-Holland. Most asthma patients were based in the Hague.
NO2		
Nox		
O3		
Ox		
PM10		
PM25		
Symptomscore	Symptom score for CF. See original publication for explanation.	Score > 7 was considered a symptom day, but this is dubious.
Admission_LY	Admission during the last year.	
AgeDiagnosis	Age when diagnosed with disease	
AllergicRhin	Allergic rhinitis as additional disease	Is common for patients with asthma.
AtopicAsthma	Atopic asthma yes/no	Type of asthma, possible that children with atopic asthma react more to pollen.
BMI	BMI	
BMI_SDS	BMI SDS score	Use this parameter for analysis, as this is more reliable compared to raw BMI score (normal values differ by age)
ExerciseSymp	'inspanningsastma' yes/no (more symptoms during workout)	
Family_his	Family history of asthma	
ICS	Does patient use controller medication for asthma (inhalation corticosteroids)	Associated with moderate asthma
LABA	Does patient use long acting beta agonist for asthma?	Associated with severe asthma.
Leukotri_Mod	Does patient use montelukast for asthma?	Associated with moderate-severe asthma.
Monoclonals	Does patient use monoclonal antibody for asthma?	Associated with very severe asthma
Oral_Steroid	Does patient use oral steroids for asthma?	Associated with very severe asthma

OtherClass	Other medication for asthma?	Associated with very severe asthma
PancrInsuffi	Does this patients have pancreatic insufficiency?	Only relevant for CF
PetsHome	Pets at home?	Relevant for asthma (some are allergic)
Pseudomonas	Colonized with pseudomonas? Indicates more severe CF diease	
SmokeHome	Does someone smoke at home?	Relevant for asthma
Sports	Does patient do any sports?	
school_year_edit	What kind of school does patient go to	
urbanisation2	In what kind of environment does patient live?	
wear00 until wear23	Did patient wear the watch in this hour? (calculated via hourly step and HR data)	
CONDITION	Does patient have asthma (controlled and uncontrolled) or CF?	In general, patients with uncontrolled asthma of more symptoms.
EventDay	Did this patient have a pulmonary exacerbation?	Days before and after the exacerbation are annotated. Day 0 is the day that treatment was started (steroids for asthma and antibiotics for CF).