

Appendix A. Complete list features available in the OPEL database, by data source

Name	Description	Data Source
weight	child's weight at visit	CHICA
wtcentile	child's weight percentile	CHICA
height	child's height at visit	CHICA
htcentile	child's height percentile	CHICA
insurance	What kind of insurance, if any, the patient has at time of visit	CHICA
any_household_members_smoke	Do any of the people that live with the child smoke?	CHICA
car_seat_position_01	Does the child use a car seat, and if so, which way is it facing?	CHICA
fluoride_supplemented	Does the child have fluoride supplemented somehow through consumption?	CHICA
has_smoke_detector	Does the child's living area have a smoke detector?	CHICA
hc	child's head circumference in centimeters	CHICA
hccentile	child's head circumference percentile	CHICA
know_how_to_save_choking_child	Do the child's caregivers know how to perform the Heimlich maneuver on a choking child?	CHICA
left_alone_in_water	Is the child left alone in water?	CHICA
lg_failed	What question of the language developmental test did the child fail on?	CHICA
maternal_depression_concern	Based on a questionnaire, is there a concern that the mom might be depressed?	CHICA
medicationallergies	Does the child have any medication allergies and have the allergies been confirmed by a doctor or only reported by the family?	CHICA
painqualitative	Is the child in pain, yes, no or NA?	CHICA
ps_passed	What is the highest passed question for the psychosocial developmental test?	CHICA
sleeps_on_side_or_back	Does the child sleep on their side or back?	CHICA
slept_on_stomach_ever	Does the child ever sleep on their stomach?	CHICA
uses_walker	Does the child use a walker?	CHICA
baby_left_alone_could_fall	Is the baby ever left alone where they could fall?	CHICA
sleeps_unsafe_soft_surface	Does the child sleep on an unsafe soft surface such as a mattress that they can suffocate on if they sleep facedown?	CHICA
tested_smoke_detector	If the child's living place has a smoke detector, has it been tested as working?	CHICA
abdomen_exam	If the child's abdomen is examined, is it abnormal or normal?	CHICA
back_exam	If the child's back is examined, is it abnormal or normal?	CHICA
chestlungs_exam	If the child's chest or lungs are examined, is it abnormal or normal?	CHICA
extgenitalia_exam	If the child's external genitalia is examined, is it normal or abnormal?	CHICA
extremities_exam	If the child's extremities (hands, feet, nose, ears) are examined, are they normal or abnormal?	CHICA
fm_passed	For the fine motor skills developmental test, what is the highest question passed?	CHICA
general_exam	If the child had a general exam, was it normal or abnormal?	CHICA

gm_passed	For the gross motor skills developmental test, what is the highest passed question?	CHICA
head_exam	If the child's head is examined, is it normal or abnormal?	CHICA
heartpulses_exam	If the child's heart and pulse are examined, is it normal or abnormal?	CHICA
lg_passed	For the language developmental test, what is the highest scoring passed question?	CHICA
neuro_exam	If a neurological battery is done, was it normal or abnormal?	CHICA
nodes_exam	If the lymph nodes are checked, were they normal or abnormal?	CHICA
nosethroat_exam	If the nose and throat are examined, are they normal or abnormal?	CHICA
skin_exam	If the child's skin is examined, was it normal or abnormal?	CHICA
teethgums_exam	If the child's teeth and gums are examined, were they normal or abnormal?	CHICA
preferred_language	Does the child have a preferred language and if so, is it English or Spanish?	CHICA
burns_knowledge	Does the caregiver have knowledge of how to take care of burns?	CHICA
firearms_at_home	Are there any firearms in the home?	CHICA
firearms_where_visits	Are there any firearms where the visit is taking place?	CHICA
has_stairway_gates	Are there child safety gates over the stairways?	CHICA
household_products_out_of_reach	Are household cleaning products such as bleach out of the reach of children?	CHICA
matches_lighters_safe	Are matches and lighters kept in a safe manner? childproof wheel, out of reach, etc.	CHICA
play_area_fenced	Is the child's play area fenced in?	CHICA
pool_at_house	Is there a pool the child can access?	CHICA
chica_devscreen_status	This is a developmental screening that states whether the child is developing normally or if they are developmentally delayed and indicate which developmental screenings have been done.	CHICA
seen_dentist	Has the child ever been seen by a dentist? This is unlikely to be true until after the child has teeth.	CHICA
taking_medications	Is the child on any medications and if so, has this list of medications been confirmed to be accurate?	CHICA
tv_in_room	Is there a TV in the child's bedroom?	CHICA
tv_over_2hrs	Does the child watch TV for more than two hours every day?	CHICA
uses_bottle	Does the child use a bottle to eat?	CHICA
asthmastatus	Does the child have any asthma symptoms and if so, are they persistent, intermittent, uncontrolled/controlled?	CHICA
chica_devscreen_sx	Are there any developmental concerns?	CHICA
lye_drain_cleaners_in_house	Are there any lye, drain, or other more dangerous cleaners in the house?	CHICA
ps_failed	What question of the psychosocial test did the child fail on?	CHICA
stop_at_curb	Does the child stop at curbs or run straight without stopping?	CHICA
wears_bike_helmet	Does the child wear a bike helmet for activities where one is recommended?	CHICA
insurancename	What kind of insurance does the child have?	CHICA
parents_confident_filling_out	Do the parents appear confident filling out forms?	CHICA

parents need help reading	Do the parents need help reading forms?	CHICA
ten_childrens_books_in_home	Are there at least 10 children's books in the home available to the child?	CHICA
visittype	Is this a visit because the child is sick?	CHICA
chica_adhd_sx	Is the child having symptoms of ADHD?	CHICA
constipation_sx	Is the child having symptoms of constipation?	CHICA
firearms_kept_unloaded	Are any firearms kept unloaded in the household?	CHICA
look_both_ways	Does the child look both ways before crossing the street?	CHICA
unsupervised_near_water	Is the child left unsupervised near water?	CHICA
firearms_discussed	Has firearm safety been discussed with the child?	CHICA
grades_dropped_lately	Has the child's school grades dropped recently?	CHICA
knows_how_to_swim	Does the child know how to swim?	CHICA
rides_bike_in_street	Does the child ride their bike in the street?	CHICA
school_suspension_this_year	Has the child been suspended from school this year?	CHICA
snoring	Have parents noticed that the child snores?	CHICA
special_education_classes	Does the child attend special education classes?	CHICA
escape_plan_for_fire	Has the family discussed a house fire escape plan with their child? Older children version of smoke alarm knows what to do	CHICA
informant	What household member is answering the questions?	CHICA
smoke_alarm_knows_what_to_do	Does the child know what to do when the smoke/fire alarm is triggered? Younger children version of escape plan for fire	CHICA
specialneeds	Does the child have special needs or accommodations? Such as ear defenders, speech therapist, etc...	CHICA
visit_attendee	What household member is attending the visit but not necessarily the informant?	CHICA
hot_water_heater_adjusted	Has the water heater been adjusted so the water can only be heated to 120 degrees fahrenheit? This is a scalding concern.	CHICA
plastic_wrappers_secured	Are plastic wrappers in the environment secured or left in an accessible area? This is a suffocation hazard.	CHICA
taking_solid_food	Is the child eating solid food yet?	CHICA
cutting_food_bite_size	Are the child's solid foods being cut into bite size pieces before being given to the child? If no, this is a choking/suffocation hazard.	CHICA
carries_hot_liquids	Is the child allowed to carry hot liquids? This is a burn hazard.	CHICA
play_area_cooking	Does the child have an area to play and be safely in away from cooking area while caregiver is cooking? This is a burn risk if not.	CHICA
safety_latches_installed	Have safety latches been installed in the house?	CHICA
car_seat_inspection	Has the child's car seat been inspected and if so, is it forward or rear facing? Rear facing is the safer option.	CHICA
developmental_referral	Has the child been referred to developmental testing and if so, have only the first steps been taken or has the appointment been made?	CHICA
fm_failed	What difficulty of the fine motor skills test did the child fail on?	CHICA
correctedvision	Does the child wear glasses or contact lenses?	CHICA
firearms_friends	Does the child go to friend's houses which have firearms?	CHICA
plays_dangerous_items	Does the child play with dangerous items?	CHICA
wears_sports_protective_gear	Does the child wear protective gear while playing sports?	CHICA
safety_caps_on_bottles	Are there child safety caps on pill bottles around the child?	CHICA

wears_life_jacket	Does the child wear a life jacket in situations where that is recommended?	CHICA
bedtime_media	Does the child use media products at bedtime?	CHICA
daytime_sleepiness	Is the child sleepy during the day?	CHICA
questionnaireinformants	Which caregiver filled out the questionnaire?	CHICA
sleep_quantity	Does the child get sufficient or insufficient sleep?	CHICA
chica_t2dm_fh	Does the child's medical records include family history?	CHICA
chica_t2dm_gdm	Did the child's mother have gestational diabetes?	CHICA
chica_t2dm_lga	Was the child large for their gestational age during pregnancy?	CHICA
epilepsy_history	Is there a family-reported family history of epilepsy?	CHICA
breast_feeding_help_needed	Does the mother need help breastfeeding?	CHICA
oral_exam	Has the child's mouth been examined and if so, was it normal or abnormal?	CHICA
bp_eval	Has the child's blood pressure been evaluated and if so, was it elevated once or repeatedly elevated? There was no option for hypotensive in this variable.	CHICA
empty_container_after_use	Do caregivers empty bathwater container immediately after use? This is a drowning risk if no.	CHICA
well_water	Does the child's household run off well-water? Well-water is a contamination concern.	CHICA
lowliteracyrisk	Is the child at risk of low literacy and if so, have they gone to a clinic to help?	CHICA
morning_headaches	Does the child have headaches in the morning or wake up with a headache?	CHICA
nocturnal_enuresis	Does the child wet the bed/pee during sleep? This question is for kids who are out of diapers.	CHICA
stops_breathing_at_night	Does the child's caregiver know if the child stops breathing during the night?	CHICA
trouble_breathing_at_night	Does the child's caregiver know if the child has trouble breathing during the night?	CHICA
wakes_with_snort	Does the child caregiver know if the child wakes up with a snort?	CHICA
rides_after_dark	Does the child ride the bike after sunset?	CHICA
knows_rules_of_road	Does the child know traffic rules?	CHICA
swims_fast_moving_water	Does the child swim in fast-moving water such as a river?	CHICA
chica_adhd_dx	Does the child have an ADHD diagnosis?	CHICA
doors_secure	Are the doors in the child's home secure?	CHICA
sharp_edged_furniture	Are there sharp-edged furniture in the child's home?	CHICA
pulseox	What was the child's pulse oxygenation percentage at visit?	CHICA
has_window_guards	Does the child home have window guards?	CHICA
play_equipment_protected	Does the child play on safe playground equipment?	CHICA
asthmasymptoms	Does the child have symptoms of asthma?	CHICA
gm_failed	What gross motor test did the child fail on?	CHICA
chica_adhd_side_effects	Does the child experience side effects from their ADHD medication?	CHICA
irondeficiencyscreenqualitativ	Has the child been checked for iron deficiency and if so, what were the results?	CHICA
chica_devscreen_management	Is the child part of activities specifically made for children?	CHICA
normal_newborn_screen	Did the child have the normal newborn screen and if so, what were the results?	CHICA

vaccine_given	Has the child had the HPV, Tdap, or meningococcal vaccine given?	CHICA
anhedonia_past_few_weeks	Has the child been anhedonic/apathetic the last few weeks?	CHICA
cigarettes_snuff_friend	Does the child's friend or friend's household use cigarettes or snuff?	CHICA
cigarettes_snuff_live_with	Does someone the child lives with use snuff?	CHICA
ever_use_tobacco	Has the child ever used tobacco?	CHICA
has_drunk_alcohol	Has the child drunk alcohol at all?	CHICA
has_gotten_high	Has the child used an illicit substance?	CHICA
has_had_forced_sex_act	Has the child experienced a forced sex act?	CHICA
has_had_intercourse	Has the child had intercourse?	CHICA
sad_past_few_weeks	Has the child been sad in the past few weeks?	CHICA
suicide_concerns	Is there a concern of suicidality for the child?	CHICA
used_marijuana	Has the child used marijuana?	CHICA
interested_birth_control	Is the child interested in contraception?	CHICA
ready_to_quit	Is the child ready to quit smoking cigarettes?	CHICA
watches_tv	Does the child watch TV?	CHICA
sleep_problems	Does the child have problems sleeping?	CHICA
nobp	Child did not cooperate in visit; Could not check blood pressure.	CHICA
nohearing	Child did not cooperate in visit; Could not perform hearing exam.	CHICA
risk_based_hearing_screen	Has the child undergone a hearing screen that was ordered based on high risk?	CHICA
chica_devscreen_treatment	Does the child have a written care plan or access to family support services?	CHICA
anxiety_status	Does the child have an anxiety diagnosis, or has this questionnaire been deferred?	CHICA
phq9_score	What was the mother's depression score on the phq9?	CHICA
driven_with_drunk	Has the child driven while drunk?	CHICA
drunk_and_activity	Has the child been drunk while doing an activity?	CHICA
drunk_last_month	Has the child been drunk in the last month?	CHICA
family_substance_abuse	Does the child's family abuse any substances?	CHICA
happy_how_things_going	Is the child happy with life?	CHICA
uses_drugs	Does the child use drugs?	CHICA
sudep_risk_counseling	Is the child at risk for sudden unexpected death from epilepsy? If so, is the risk high or low?	CHICA
surgical_hx	Has the child had their tonsils and adenoids removed?	CHICA
feed_at_night	Does the child eat at night?	CHICA
contraceptive_method_discussed	Has birth control been discussed with the child such as condoms and hormonal birth control?	CHICA
abuse_otc	Does the child abuse over the counter medication?	CHICA
abuse_steroids	Does the child abuse steroids drugs?	CHICA
criticized_for_drinking	Has the child been criticized for drinking?	CHICA
friends_use_drugs	Has the child's friends used drugs (other than alcohol/caffeine) in the last month?	CHICA
friend_drunk_last_month	Has the child's friends been drunk in the last month?	CHICA
fun_in_past_two_weeks	Does the child think they've had fun in the last two weeks?	CHICA
bike_has_coaster_brakes	Does the child's bike have coaster brakes? Coaster brakes allow you to pedal backwards to brake.	CHICA
past_depression_or_suicide	Has the child had any previous history of depression or suicidality?	CHICA
immune_compromise	Is the child immuno-compromised?	CHICA

prescription for cessation	Is the child on a prescribed nicotine replacement drug?	CHICA
intercourse past year	Has the child had intercourse in the last year?	CHICA
might be pregnant	Could the child be pregnant?	CHICA
medication	Does the child have a Ritalin prescription?	CHICA
depression workup	Is there a developed safety plan for the child's depression?	CHICA
chica_autism_risk	Is the child at a higher risk of autism due to family history?	CHICA
tooth erupted	Has the child had a tooth erupt from beneath the gums yet?	CHICA
autism behavior problems	Does the child have autism related behavior problems?	CHICA
autism_cam	Does the child use complementary alternative medicine for autism?	CHICA
autism_financial_concerns	Are there financial concerns related to the child's autism such as paying for therapy?	CHICA
autism_parent_needs_respite	Is the child's caregiver in need of a break? i.e. showing symptoms of caregiver burnout	CHICA
patient in mental health	Is the child undergoing mental health care?	CHICA
food_insecurity	Is the child's caregiver worried about getting enough food and if so, has this been MD confirmed or resolved?	CHICA
rental_status	Is the child's rental home clean & safe vs having issues, and has this been confirmed by an MD?	CHICA
snapdeniedlast30days	Has the child's SNAP(food stamps) been denied in the last 30 days?	CHICA
utility_status	Has the child's household had one of their utilities (water, power, heat, gas) shut off? Yes, no, or yes but not heat.	CHICA
mlp_condition_type	Is the child's family going through an eviction, on the SNAP program, or renting?	CHICA
wakes_up_one_or_more_times_a_n	Does the child wake up at least once during the night?	CHICA
wakes_up_and_needs_help_to_sleep	Does the child wake up at night and need help getting back to sleep?	CHICA
sleeps on back	Does the child sleep on their back?	CHICA
slept on stomach side ever	Does the child ever sleep on their stomach or side?	CHICA
abuse concern	Is there a concern that the child is being abused?	CHICA
constipation_dx	Has the child been diagnosed with constipation?	CHICA
parent_thinks_child_has_sleep_pr	Do the caregivers think that the child has problems with their sleep?	CHICA
eyesvision_exam	Did the child have a normal or abnormal vision exam?	CHICA
breastfed	Is the child being breastfed at this time?	CHICA
psfsicklecell	Result of pre-screening form on tablet for sickle cell anemia.	CHICA
negativeenvironmentalhistory	Was the child potentially exposed to something negative in their environment such as tuberculosis or lead?	CHICA
negativenutritionhistory	Did the child have nutrition problems such as early introduction to cow milk or needing low iron formula?	CHICA
negativepastmedicalhistory	Did the child have a low birth weight?	CHICA
cholesterol_screen	Is the child at risk of high cholesterol based on parental history?	CHICA
earshearing_exam	Did the child have a normal or abnormal hearing exam?	CHICA
hearingleft	Does the child have full or partial hearing in their left ear?	CHICA
hearingright	Does the child have full or partial hearing in their right ear?	CHICA
ppd_result	What was the result of the mother's post-partum depression assessment?	CHICA
venousbloodleadqualitative	How much lead was in the child's blood, if tested?	CHICA

mother bmi	Maternal body mass index	MCPHD
PNC_Clinic_Type	Type of prenatal care clinic	MCPHD
Sex	Child's sex	MCPHD
FATHER_OCCUP_DSCR	Is child's father employed at time of birth?	MCPHD
MomNativeAm	Is child's mother Native American?	MCPHD
Mother_Weight_Gain_P	How many pounds the mother has gained during pregnancy.	MCPHD
MARRIED_NOW	Are child's parents married at time of birth?	MCPHD
APGAR5	Appearance, Pulse, Grimace, Activity, and Respiration at five minutes post birth. Score of 10 is good; one is bad.	MCPHD
BIRTH_WEIGHT_GRAM	Birth weight in grams from modern birth certificate	MCPHD
finalroute	How was the child delivered?	MCPHD
HEP_B_TEST	Was hepatitis B vaccine given at birth?	MCPHD
Apgar1	Appearance, Pulse, Grimace, Activity, and Respiration at 1 minute post birth. Score of 10 is good; one is bad.	MCPHD
Dad_Race9Eth	race of child's father	MCPHD
Mom_Race9Eth	race of child's mother	MCPHD
PREN_VISIT_NBR	number of prenatal care visits	MCPHD
EST_GEST	estimated gestation in weeks	MCPHD
MOTHER_AGE	age of the mother at birth in years	MCPHD
FATHER_AGE	age of the father at birth in years	MCPHD
PREVIOUS_LIVE_NBR	How many living babies has the mother giving birth to before?	MCPHD
plurality	Is this a plural or singleton birth? (twins)	MCPHD
BREAST_FED	Was the child breast-fed at hospital release?	MCPHD
MOTHER_ED	mother's education level in years	MCPHD
FATHER_ED	father's education level in years	MCPHD
LD_MECONIUM	delivery complication: was there meconium present at delivery?	MCPHD
LD_NONE	no delivery complications	MCPHD
LD_NON_VERTEX	delivery complication: child in non- vertex position	MCPHD
firstpnc	prenatal care initiated in first trimester	MCPHD
wtgrams	child's birth weight in grams	MCPHD
PREV_BIRTH_TOTAL	number of previous live births – all birth certificates	MCPHD
Kotelchuck	adequacy of prenatal care index	MCPHD
mdpsmoke	Did the mother smoke during pregnancy?	MCPHD
abcond	Were abnormal conditions present at birth?	MCPHD
anomaly	Was a congenital anomaly found?	MCPHD
infect	maternal infections	MCPHD
labdel	labor and delivery	MCPHD
mmorb	maternal morbidity	MCPHD
methdel	method of delivery	MCPHD
oblab	obstetrical labor	MCPHD
obproc	obstetrical procedures	MCPHD
risk	maternal risk factor	MCPHD
RACE	race of the child	CHICA
ETHN	ethnicity of the child	CHICA
wic_ever	Has the child ever been in the WIC program?	CHICA/ MCPHD
PERINPOVN1	persons living in poverty as percentage of population	SAVI
VIOLNTN2	violent crime (including simple assaults) per 1,000 people	SAVI
VIOLNSTN2	violent crime (not including simple assaults) per 1,000 people	SAVI
AGGVASLTN2	aggravated assaults per 1,000 people	SAVI

ROBBERYN2	robberies per 1,000 people	SAVI
PROPERTYN2	property crime per 1,000 people	SAVI
THFTVHN2	vehicle thefts per 1,000 people	SAVI
BURGLARYN2	burglaries per 1,000 people	SAVI
WALKSCORE	walkability score	SAVI
FRRDTRAN1	free and reduced lunch program participants as percentage of enrollment	SAVI
POVB185N1	population below 185% poverty (proxy for reduced lunch)	SAVI
POVB125N1	population below 125% poverty (proxy for free lunch)	SAVI
RESNEWPEN1	total residential building permits per 100 housing units	SAVI
COMMALLPN1	total commercial building permits per 100 housing units	SAVI
TREE CANOPY	tree canopy as percentage of land area	SAVI
PCT POP FOOD DESERT	percentage of population far from grocery stores	SAVI