

external_exposure

CDM Field	User Guide	Example #1 HIV and Climate Change WG Use Case	Example #2 HIV and Climate Change WG Use Case
external_exposure_id	primary key identifier		
external_exposure_era_id	foreign key to the era in which the external_exposure participates ¹		
person_id	foreign key to person table		
external_exposure_concept_id	concept from an OMOP GIS vocabulary representing the external exposure measured property like high temperature	ENVO_01000305 <i>concept_id for "high temperature" environment in the ECTO² ontology</i>	ENVO_01000830 <i>concept_id for "water-based rainfall" in the ECTO ontology</i>
statistic_concept_id	concept for a statistic like "mean", "count", "95 th percentile", "exceedance probability"	STATO_0000573 <i>concept_id for an "arithmetic mean" in STATO</i>	SPEI-12 ^{3,4} <i>needs a concept_id in the GIS delta vocabulary</i>
interval_concept_id	concept for an interval over which a statistic spans like "24-hour period", "month", "year"	9580 <i>concept_id for "month" in ATHENA</i>	9448 <i>concept_id for "year" in ATHENA</i>

¹ Note that this is NOT the best practice in other era tables – for example, successive periods of drug_exposures are combined under certain domain-specific rules to produce continuous drug_eras. The latter dates are just inclusive of the former ones. There is no foreign key relationship between a drug exposure and its era

² [Here](#) is ECTO. The contact person for ECTO is Anne Thessen. Andrew early on expressed an interest in using ECTO. Polina has captured many of the statistics created on top of the ECTO classes in the OMOP Exposome and SDOH vocabularies

³ [Here](#) is a general introduction to SPEI (Standardised Precipitation-Evapotranspiration Index)

⁴ The "12" in SPEI-12 means the index considers the total precipitation and evapotranspiration over the preceding 12 months

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operator_concept_id	operators are <, <=, =, >=, > and these concepts belong to the 'Meas Value Operator' domain		4171754 <i>concept_id</i> for "<=" in ATHENA
regulatory_standard_name	statistics are sometimes determined in relationship to a regulatory standard		PEI (Pyrenean Ecology Institute) severe hydrological drought
regulatory_standard_verbatim_text			-2
external_exposure_start_datetime	temporal coverage of the statistic	1/1/2023	1/1/2023
external_exposure_end_datetime		12/31/2023	12/31/2023
external_exposure_type_concept_id	concept from an OMOP GIS vocabulary representing a place-based instrument (aka sensor) type including "satellite", "weather station", "in-home device", "social vulnerability index", "UN SDG (sustainable development goal) indicator", PhenX environmental health CDE, etc.		
external_exposure_source_value	this field contains the exact value from the source data that represents the measurement that occurred		
external_exposure_source_concept_id	this is the concept representing the external_exposure		

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	source_value and may not be standard		
value_as_number	amount of exposure	28	
value_as_concept_id			4135944 <i>concept_id</i> for “true” in ATHENA
unit_concept_id	unit of measurement like “celsius” if value_as_number	586323 <i>concept_id</i> for “degree celsius” in ATHENA	
unit_text		degree Celsius	
visit_occurrence_id	not required		
external_exposure_event_id	foreign key to a record in an OMOP CDM table		
external_exp_event_field_concept_id			