**CDC is requesting information about your forecast methodology be provided in a standard format to better capture the types of data and methodologies being used to forecast influenza. Please complete the form for your team’s forecast by November 16, 2018 (or, if this form is being used for the hospitalization challenge, within two weeks of the start of the challenge). If your team submits more than one forecast each week, please complete a separate form for each one. If at any point during the challenge a significant change to the forecast data sources or methodology is made, please complete a new form.**

**1. Date:** 10/25/18

**2. Team name:** LANL

**3. Challenge:**

**FluSight**

Hospitalization (FluSurv)

State ILI

**4. Model name (if different from team name or if more than one forecast; no more than 25 characters):**

DBMplus

**5. Brief narrative describing methodology (no more than 50 words):**

DBMplus blends a mechanistic SIR model with a hierarchical discrepancy model. The model is fit to each region separately, but to all available seasons within a region jointly (sans 2008/09 and 2009/10). Google trends-based nowcasts augment ILI data.

**6. Please provide any references (published article, website, etc.):**

The methodology of the DBM work engine is here: <https://projecteuclid.org/euclid.ba/1533866670>

The DBMplus model is under review at the time of this writing

**7. Model components:**

Please indicate which of the following data source(s) your team used in developing your forecast. Check all that apply.

CDC FluSurv-NET

**CDC ILINet at the national or regional level**

CDC ILINet at the state level

CDC webpage visits

Commute and transportation (e.g., flight) data

Electronic/Cloud-based health records

**Google/Internet-search query information**

HealthTweets/Twitter

NCHS Pneumonia and Influenza Mortality Surveillance

Online news/outbreak reporting (e.g. ProMed, HealthMap)

School vacation calendars

Weather/climate data

**☐ Wikipedia**

☐ WHO/NREVSS virologic data

Other. Please specify:

Please indicate the methodological approaches used to create this forecast. Check all that apply.

Crowdsourcing

Machine-learning approaches

Mechanistic model at the individual level (e.g. agent-based model)

**Mechanistic model at the population level (e.g. compartmental model)**

Metapopulation/Network-based approaches

**Statistical/descriptive/phenomenological models (i.e. models that do not directly account for disease transmission dynamics)**

Other. Please specify:

Is this forecast the product of an ensemble?

Yes

**No**

Has this forecast been submitted in previous forecasting challenges?

**Yes. Please indicate which influenza season(s): 2017/18**

No