



**Memorandum of Understanding
Between
Center for Disease Analysis Foundation (CDAF)
And
School of Public Health, Jilin University**

This Memorandum of Understanding (MOU) is entered into on the 23 day of April 2020 by **Center for Disease Analysis Foundation (CDAF)** of 1120 W. South Boulder Road, Suite 102, Lafayette, CO 80026, USA and the **School of Public Health, Jilin University** of 1163 Xinmin Street, Chaoyang District, Changchun 130021, Jilin, China. This MOU sets forth the terms and understanding between CDAF and School of Public Health, Jilin University as it relates to CDAF's support of School of Public Health, Jilin University in their effort to analyze the burden of Hepatitis C, develop strategies for elimination and the corresponding economic impact under different strategies for five provinces - Jilin, Anhui, Hubei, Chongqing, Yunnan.

WHEREAS, in connection with the establishment of a relationship between the parties whereby CDAF's Polaris Observatory was founded to provide epidemiological data, modeling tools, training and decision analytics to support eliminating Hepatitis globally by 2030, and whereby School of Public Health, Jilin University's mission is to create a safe and healthy environment, maintain social stability, ensure national security and promote the health of people through prevention and control of disease, injury and disability, the parties wish to set forth their current understanding and certain agreements made to date with respect to such relationship.

The signed parties acknowledge agree to work together in the spirit of partnership to ensure that there is a visible and responsive leadership of the collaboration, and to demonstrate financial, administrative and managerial commitment to the collaboration.

BACKGROUND

School of Public Health, Jilin University is interested in developing mathematical models to assess hepatitis C virus (HCV) disease and economic burden in five provinces. It would also like to use the same models to assess the impact of different testing and treatment strategies on current and future HCV related morbidity (cirrhosis, HCC and liver transplants) and mortality. In addition, it would like to assess the economic impact of different strategies under consideration.

The Center for Disease Analysis Foundation (CDAF) is a non-profit public health research organization specializing in epidemiology and disease modeling. CDAF's mission is to support



the elimination of Hepatitis B and C globally by 2030. It provides countries across the world with verified epidemiological data, disease burden and economic impact modeling, intervention strategies, access to affordable diagnostics and treatments, innovative financing models and knowledge-sharing partnerships to eliminate this deadly disease. It accomplishes its mission through two foundation initiatives: The Polaris Observatory and the Global Procurement Fund (GPRO).

ROLES & RESPONSIBILITIES

School of Public Health, Jilin University is seeking collaboration with CDAF wherein CDAF will assist School of Public Health, Jilin University in the following initiatives:

1. Provide training to populate CDAF's HCV disease burden model for five provinces - Jilin, Anhui, Hubei, Chongqing, Yunnan.
2. Provide recommendations on how to:
 - a. Estimate HCV prevalence by age and gender at the provincial level.
 - b. Estimate province level population and mortality rate from 1950-2050 at the provincial level.
 - c. Estimate mortality for each province.
 - d. Estimate total and annual HCV diagnosed and treated for each province.
 - e. Develop different HCV elimination strategies.
3. Provide training on how to calibrate the models.
4. Provide instructions on how to run the economic impact analyses.

In order to complete the above activities, School of Public Health, Jilin University agree to the following responsibilities:

1. Authorized by law and regulation, School of Public Health, Jilin University will share recent published and publicly available HCV epidemiological data with CDAF by province.
2. Authorized by law and regulation, School of Public Health, Jilin University will share relevant published and publicly available cost and economic data with CDAF.
3. School of Public Health, Jilin University will recognize the collaboration with CDAF by including CDAF's logo on reports and presentations containing the outputs of the CDAF models.
4. The partners of School of Public Health of Jilin University must be the first author and corresponding author when publishing articles with the disease burden model and the



data from relevant 5 provinces. At the same time, the partners of CDAF must be regarded as co-author, but cannot be regarded as co-first-author and co-corresponding-author.

FUNDING

Neither CDAF nor School of Public Health, Jilin University is providing funding to the other party, and each party is responsible for funding their own activities associated with this MOU.

MARKETING and PUBLICITY

CDAF and School of Public Health, Jilin University may promote their collaboration to relevant sectors of the health care community, through regular and other communications, and through their respective websites, social media, and annual reports. Both CDAF and School of Public Health, Jilin University will be bound by the rules for promotion of the other partner, including maintaining the quality of any logo.

DURATION

This MOU will take effect upon mutual signing of the MOU document and will extend for a period of one year from signing. The MOU may be extended by mutual consent of both parties.



CONTACT INFORMATION

Center for Disease Analysis Foundation

School of Public Health, Jilin University

Homie Razavi
Managing Director
1120 W. South Boulder Road, Suite 102
Lafayette, CO 80026
USA
+1 720.890.4848
hrazavi@cdafound.org

Xiumin Zhang
1163 Xinmin Street
Chaoyang District
Changchun 130021
China
+86 431 85619442
xiu_min@jlu.edu.cn
zhangxiumin63@163.com

Homie Razavi

Name (print)

Xiumin Zhang

Name (print)

Managing Director

Title

Professor

Title

Homie Razavi

Signature

Xiumin Zhang

Signature

April 23, 2020

Date

April 23, 2020

Date