
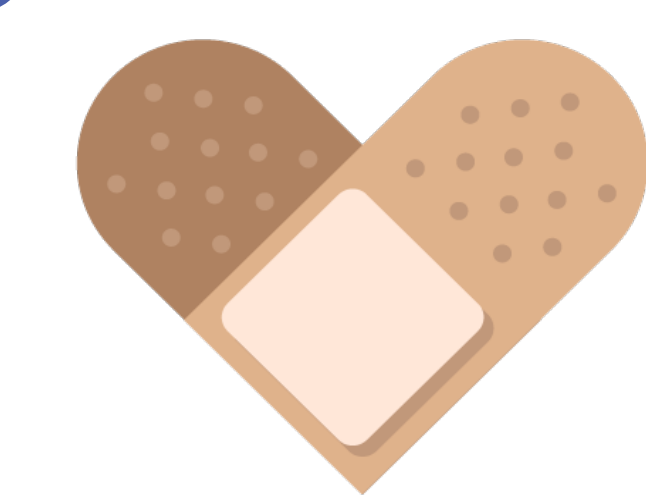


Vaccine Access through Geographic Information System Mapping Technology: A Comparative Analysis of Selected Tools





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Project Description

Geographic information system (GIS) mapping technology is an increasingly popular mechanism for decision making. Recently, an uptick of tools has been created to locate pharmacies that administer vaccines. These tools are valuable since pharmacies are highly accessible locations as nearly 90% of Americans live within 5 miles of a community pharmacy. This comparative analysis examines the benefits and disadvantages of selected vaccine GIS initiatives and search tools in comparison to American Pharmacists Association’s (APhA) Vaccine Confident access maps.

Selection Methods

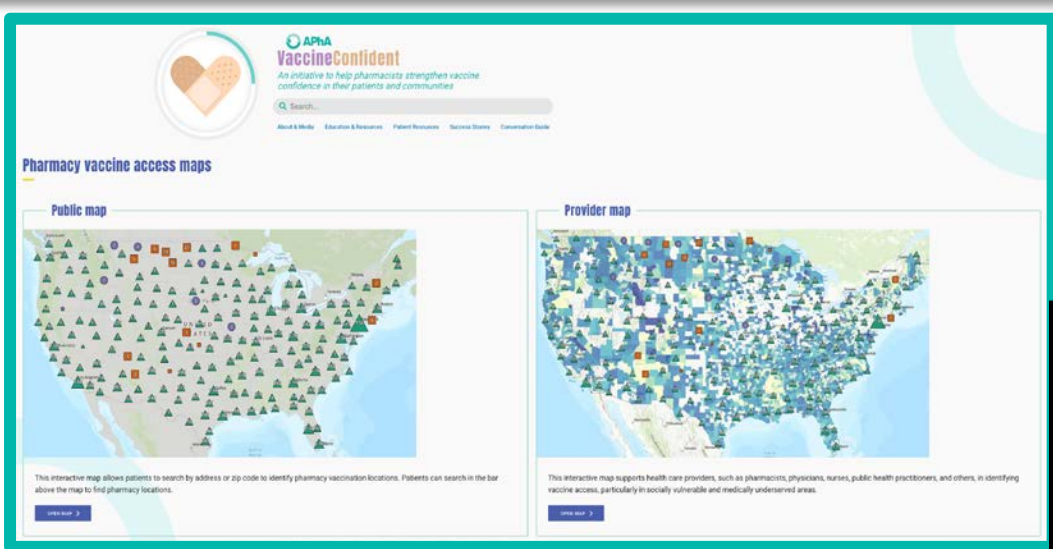
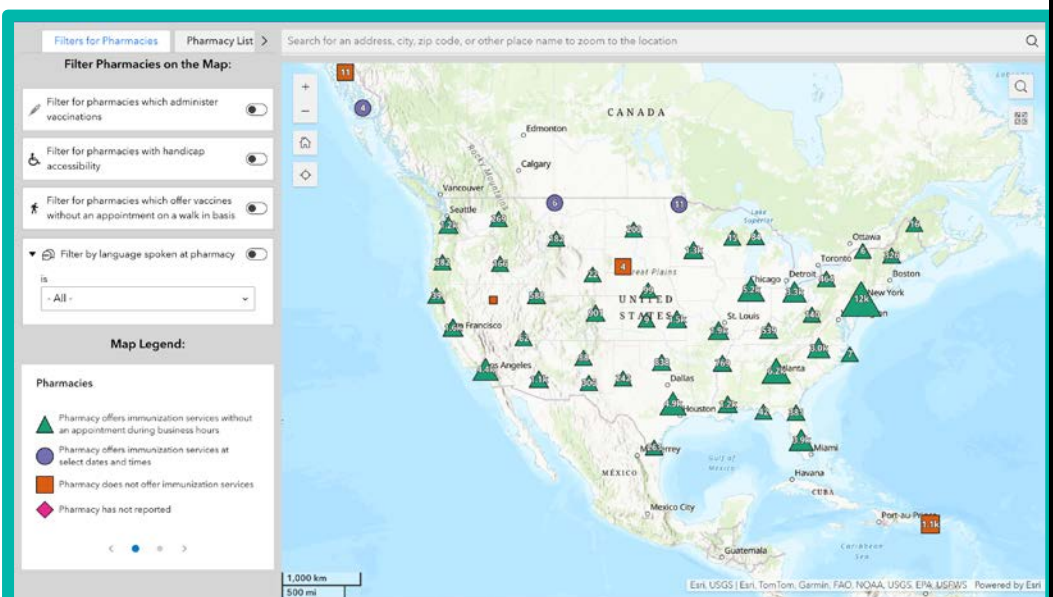
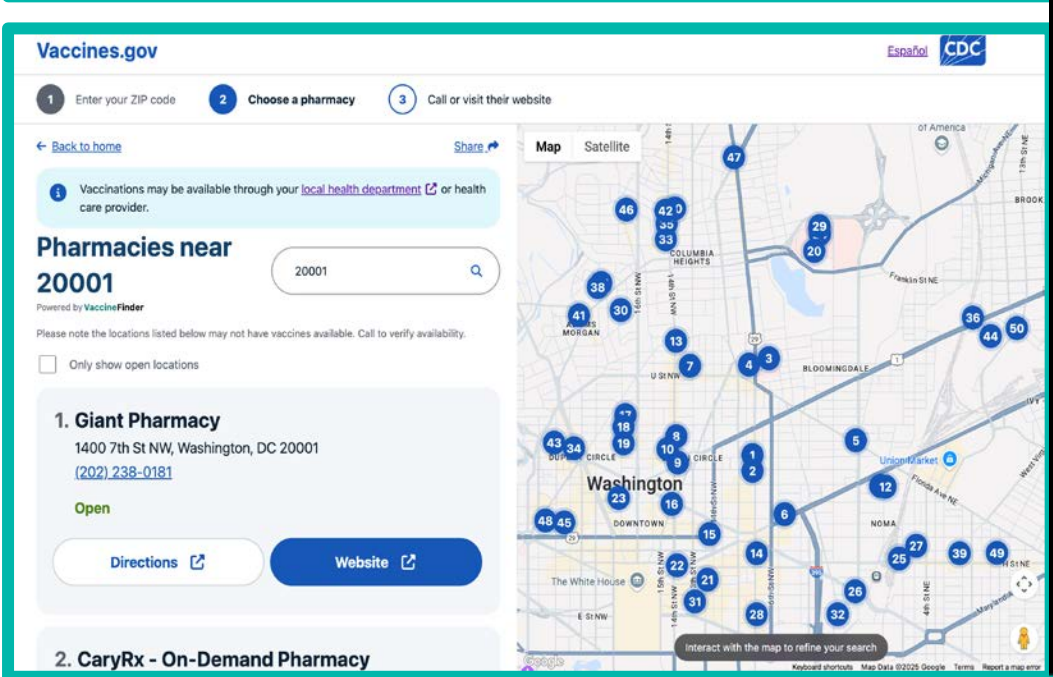





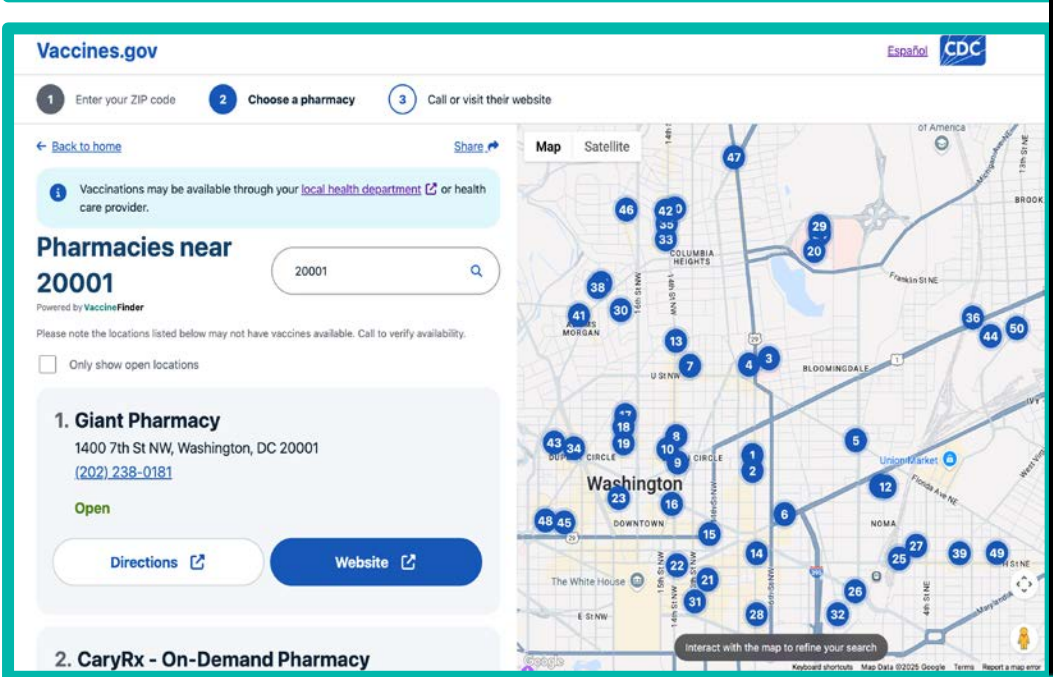




Multiple national, state, and organizational funded GIS vaccine mapping tools were selected based on the highest compliance with the following qualifiers:

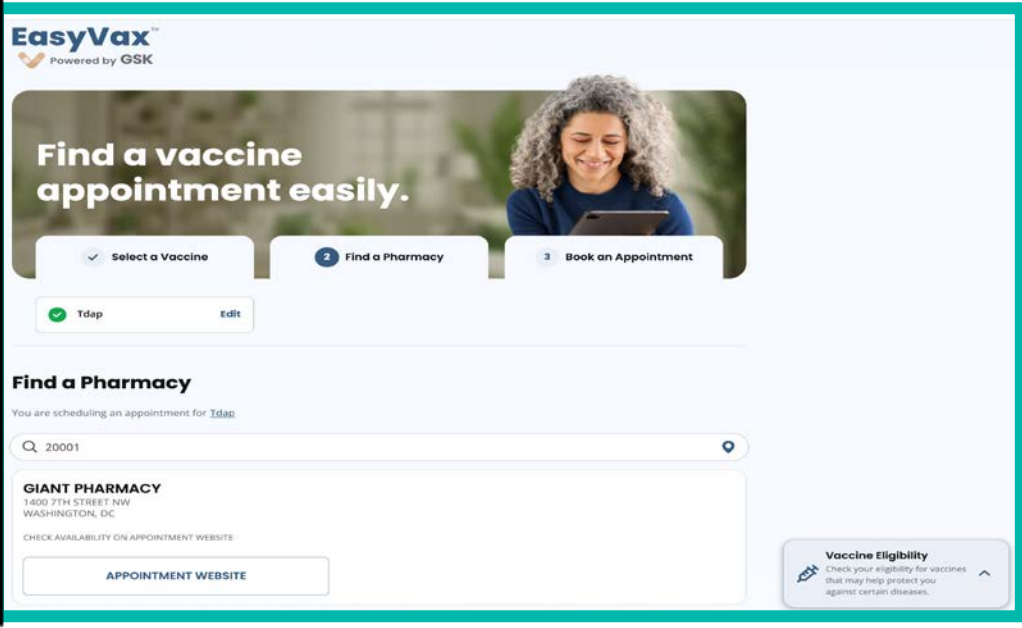
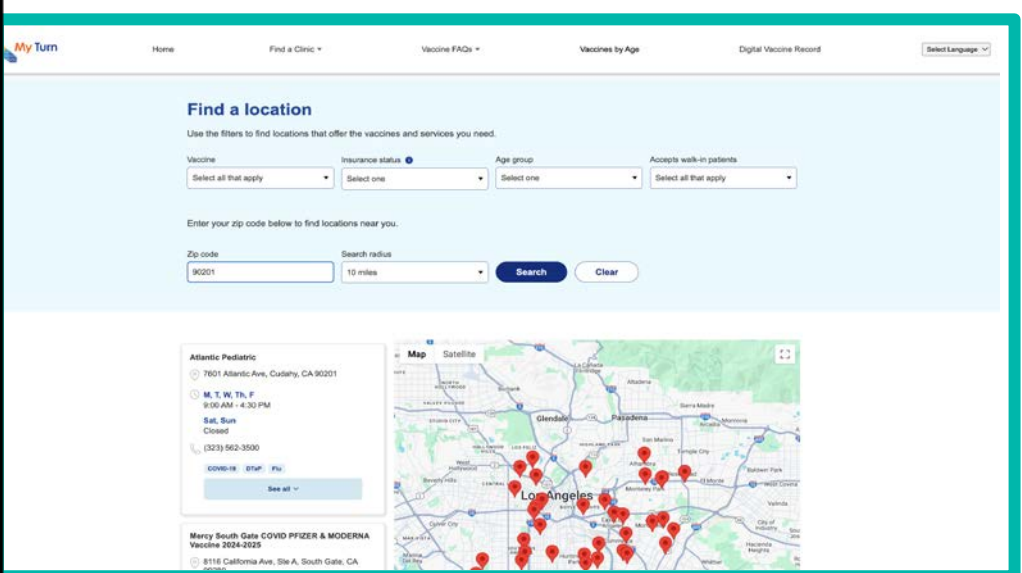
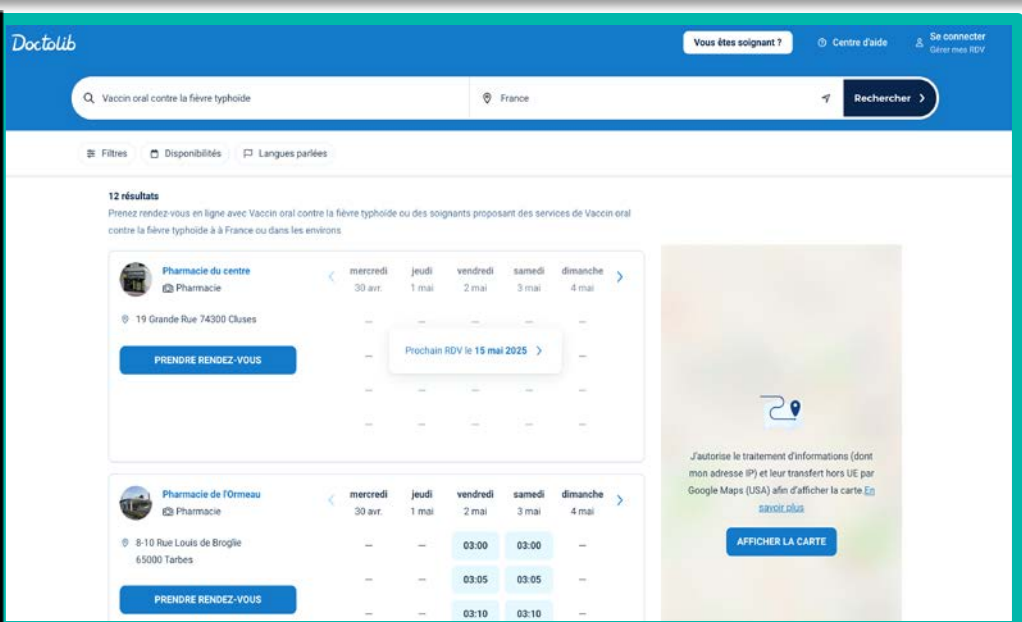
- Pharmacy Contact Details:** Address, phone number, website, and integrated appointment scheduling.
- Vaccine Locator Accessibility:** Whether a patient must submit their demographics before finding a location and available vaccines for that pharmacy.
- Filter Options:** Different age groups, insurance status, handicap accessibility, spoken language, and walk-ins.
- Decision Makers:** Useful information for local, state, and federal public health professionals.
- Vaccine Awareness:** Provides additional information on vaccine eligibility, type, and/or education.

*APhA’s Vaccine Confident access maps were funded in part by a collaborative agreement with the Centers for Disease Control and Prevention (CDC) — Grant Number: NH23IP922659. The CDC is an agency within the Department of Health and Human Services (HHS). Contents of this resource do not necessarily represent the CDC or HHS and should not be considered an endorsement by the Federal Government.

Results

GIS Mapping Comparison Table

		Pharmacy Contact Details				Vaccine Locator Accessibility	Filter Options					Decision Makers	Vaccine Awareness	QR Code
		Address	Phone #	Website	Integrated Appt Scheduling		Age Groups	Insurance Status	Handicap Accessibility	Spoken Language	Walk-ins			
  	APhA	Vaccine Confident ¹	✓	✓	—	—	—	—	✓	✓	✓	✓	—	
	CDC	Vaccines.gov ²	✓	✓	✓	✓	—	—	—	—	—	✓	✓	
	France	Doctolib ³	✓	✓	—	✓	—	✓	—	✓	—	—	—	
	California	My Turn ⁴	✓	✓	✓	✓	✓	✓	—	—	—	—	✓	
	GSK	Easy Vax ⁵	✓	—	✓	✓	—	—	—	—	—	—	✓	
	Community Pharmacies	Albertsons ⁶	✓	✓	✓	✓	✓	—	—	—	✓	✓	✓	
		CVS ⁶	✓	—	✓	✓	—	—	—	—	—	✓	✓	
		Walgreens ⁶	✓	—	✓	✓	—	—	—	—	—	✓	✓	
		Walmart ⁶	✓	✓	✓	✓	—	—	—	—	—	✓	✓	



Website Information

- [Vaccineconfident.pharmacist.com/Maps](https://vaccineconfident.pharmacist.com/Maps) is hosted by APhA and funded by a Centers for Disease Control and Prevention (CDC) grant.*
- [Vaccines.gov](https://vaccines.gov) is hosted by the CDC.
- [Doctolib.fr](https://doctolib.fr) is a French health care platform and app that allows patients to book appointments.
- [Myturn.ca.gov/vaccinelocator.html](https://myturn.ca.gov/vaccinelocator.html) is hosted by the California Department of Public Health.
- [Easyvax.com](https://easyvax.com) is powered by GlaxoSmithKline (GSK).
- Community pharmacies include Albertsons (albertsons.com/pharmacy/vaccines-and-immunizations.html), CVS (cvs.com/cvs/immunizations), Walgreens (walgreens.com/topic/pharmacy/immunization-services-appointments.jsp), and Walmart (walmart.com/cp/flu-shots-immunizations/1228302).

Recommendations

- GIS mapping tools that provide socioeconomic vulnerability and pharmacy data benefit local, state, and national immunization planning and funding.
- GIS mapping tools that allow language translation and show languages spoken reduce health disparities and improve health care delivery.
- GIS mapping tools that provide vaccine awareness and education materials, such as frequently asked questions or vaccine eligibility recommendations, will likely increase vaccine uptake.
- GIS mapping tools that require patients to input demographics such as age and insurance before seeing location options may deter some patients.