Closing Gaps in Vaccine Preventative Care in People with Diabetes



Risks of Vaccine-Preventable Diseases in People with Diabetes

In a retrospective cohort analysis of a US health plan during the 2016-2017 flu season, adults with type 2 diabetes (N=1086) had the following **increased risks** in the 2 weeks before and 4 weeks after an **influenza diagnosis**¹:



increase in pneumonia

vs adult controls without diabetes (n=1,567; *P*<.05)

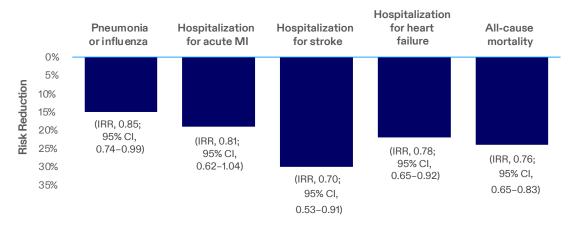


more likely to have a hospital visit

than adult controls without diabetes (P<.01)

Benefits of Vaccination in People with Diabetes

In a retrospective cohort study of adult patients with type 2 diabetes (N=124,503) between 2003 and 2010, **flu vaccination** was associated with a **reduced risk** of **infections**, **hospitalizations**, and **premature death** during flu season vs no flu vaccination²



In an analysis of claims data from 2005 to 2014, pneumococcal vaccination in adults (aged 30 to 60 years) with a recent diabetes diagnosis was associated with \$90.54 per-person savings in pneumococcal disease costs in the 2 years after vs 2 years before vaccination³

IRR=incidence rate ratio; MI=myocardial infarction.

Vaccination Recommendations in Adults with Diabetes



CDC/ACIP Vaccine Recommendations for Diabetes¹

Influenza	Pneumococcal	COVID-19 ²	RSV ^{2*}	Zoster	Tdap	НерВ	MMR	Varicella	HPV
1 dose annually	Aged 19 years and older: 1 to 2 shots over a person's lifetime	1 dose of 2024- 2025 COVID-19 vaccine as authorized or approved by the FDA	Aged 60 years and older: 1 dose [†]	2 doses at age ≥50 years, 2 to 6 months apart	1 dose Tdap, then Td or Tdap booster every 10 years	2, 3, or 4 doses, depending on vaccine or condition	1 or 2 doses, depending on indication	2 doses, 4 to 8 weeks apart	2 or 3 doses through age 26 years, depending on age at initial vaccination or condition



The American Diabetes Association recommends that people with diabetes receive vaccinations according to **age-appropriate** recommendations from CDC/ACIP³

ACIP=Advisory Committee on Immunization Practices; CDC=US Centers for Disease Control and Prevention; CKD=chronic kidney disease; COVID-19=coronavirus disease of 2019; FDA=US Food and Drug Administration; HepB=hepatitis B; HPV=human papillomavirus; MMR=measles, mumps, rubella; RSV=respiratory syncytial virus; Td=tetanus, diphtheria; SGLT2=sodium-glucose cotransporter-2; Tdap=tetanus, diphtheria, acellular pertussis.
*RSV vaccination is recommended as a single lifetime dose only. Persons who have already received RSV vaccination are NOT recommended to receive another dose.²

References: 1. Centers for Disease Control and Prevention. Recommended adult immunization schedule for ages 19 years or older. Updated August 14, 2024. Accessed August 26, 2024. https://www.cdc.gov/vaccines/hcp/imz-schedules/downloads/etr/adult/adults-schedule-easy-read.pdf **2.** Centers for Disease Control and Prevention. ACIP Recommendations. Updated June 28, 2024. Accessed July 25, 2024. https://www.cdc.gov/vaccines/acip/recommendations.html **3.** American Diabetes Association Professional Practice Committee. Comprehensive medical evaluation and assessment of comorbidities: standards of medical care in diabetes: 2023. *Diabetes Care.* 2023;46(suppl 1):S49-S67. **4.** Centers for Disease Control and Prevention. Use of respiratory syncytial virus vaccines in adults aged ≥60 years: updated recommendations of the advisory committee on immunization practices — United States, 2024. Accessed August 26, 2024. https://www.cdc.gov/mmwr/volumes/73/wr/pdfs/mm7332e1-H.pdf

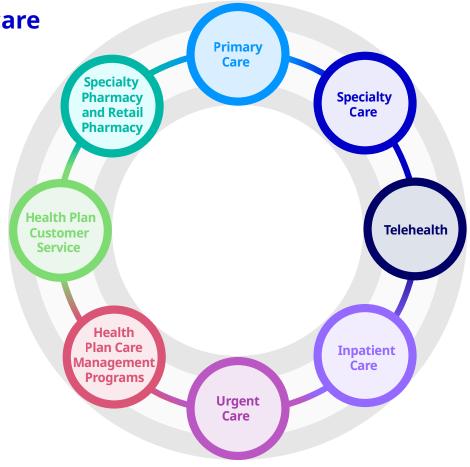
[†]CKD or other complications or requiring treatment with insulin or SGLT2 inhibitor.⁴

Points of Care Outside of the PCP Office



Patients with Chronic Conditions Have Numerous Healthcare Encounters Outside of the PCP Office

- In a 2021 survey, 35% of patients with chronic conditions report not seeing a **PCP** in the past year¹
- Primary care represents ~39% of office visits in patients with multiple chronic conditions. Specialty care represents ~61% of office visits in patients with chronic disease²
- In 2014, depending on the number of chronic conditions (1-5+)3:
 - 6% to 24% of adults had ≥**1 hospitalization** per year
 - The average number of **outpatient visits** ranged from 6 to 20 per year
 - The average number of **prescription fills** ranged from 9 to 51 per year



These healthcare encounters present opportunities to ASSESS, RECOMMEND, ADMINISTER or REFER, and DOCUMENT vaccinations in patients with chronic conditions⁴

PCP=primary care provider.

Strategies and Best Practices for Prioritizing Vaccinations



CDC Standards for Adult Immunization Practice¹



ASSESS the immunization status of all your patients at every clinical encounter

2 RECOMMEND

Strongly RECOMMEND vaccines that your patients need

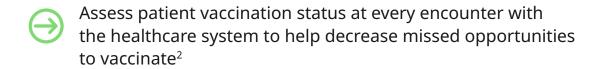
ADMINISTER or REFER

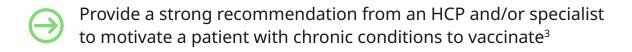
ADMINISTER or **REFER** your patients to a vaccination provider

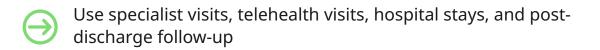


DOCUMENT vaccines received by your patients

Help Improve Vaccination Rates in Patients with Chronic Conditions







Collaborate with network specialty pharmacies

CDC Standards for Adult Immunization Practice emphasize the role of ALL HCPs—whether they provide immunization services or not—in ensuring that adult patients are fully immunized¹

HCP=healthcare professional.

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