

**Graduate Students Health and Biomedical Sciences** 



# Influenza Prevalence and Vaccine Efficacy in Diabetic Patients in Qatar

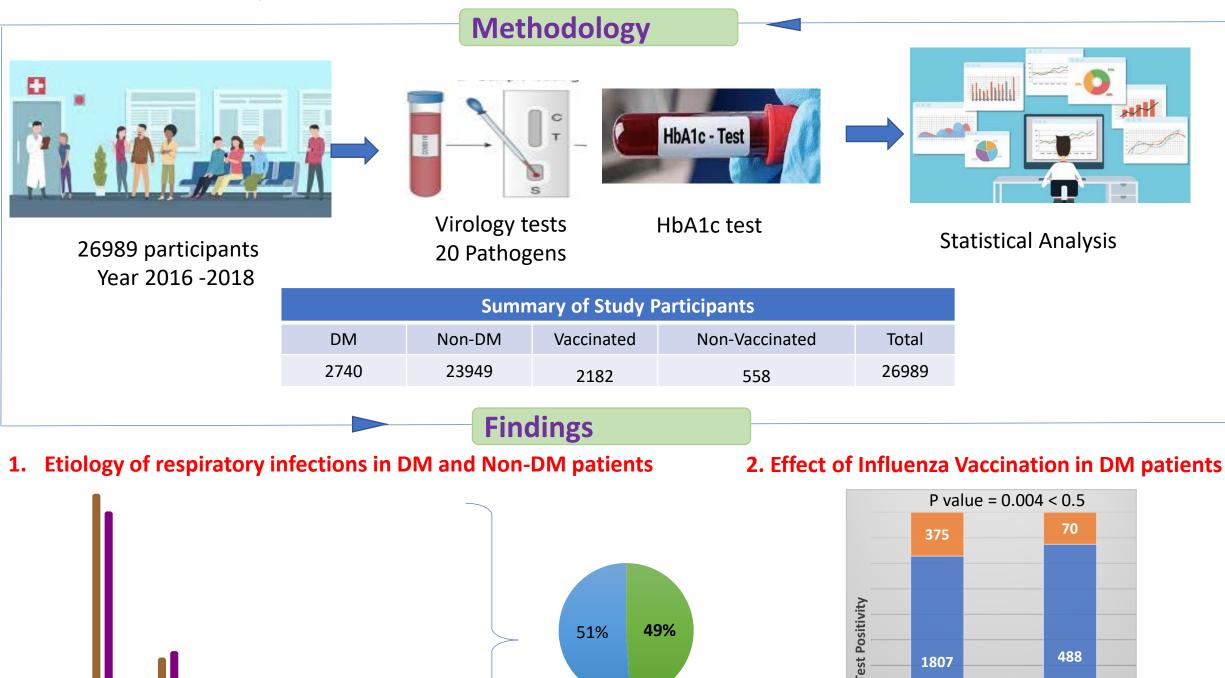
Swapna Thomas<sup>1</sup>, Maria K. Smatti<sup>1</sup>, Muna A. Al Maslamani<sup>2</sup>, Hadi M. Yassine<sup>1\*</sup> <sup>1</sup>Qatar University, <sup>2</sup>Hamad Medical Corporation

## **Background**

Diabetes (DM) is often recognized as an independent risk factor for developing severe respiratory tract infections. infections Influenza with associated higher are hospitalization, morbidity and mortality in DM patients. Vaccination against Influenza virus would reduce the burden of flu infection in DM patients.

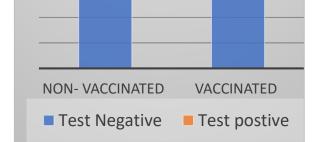
### **Research Aim**

To assess the prevalence and burden of influenza infection in DM patients in Qatar and to evaluate the efficacy of influenza vaccination in DM patients



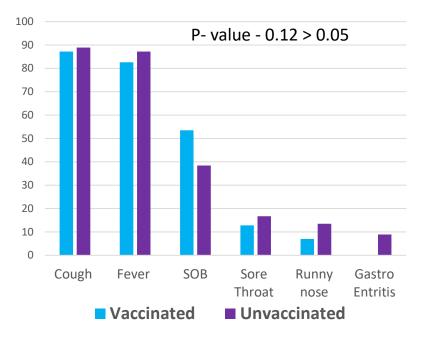
Influenza

Other infections



1807

### 3. Clinical symptoms in vaccinated and non-vaccinated DM patients



### **Conclusion**

 $\triangleright$ 

 $\triangleright$ 

 $\succ$ 

 $\succ$ 

- DM patients are at higher-risk for influenza infection Influenza infections covers around 50 % of total respiratory infections in patients with flu like symptoms in Qatar In vaccinated DM patients, influenza test positivity is low.
- This study reports the efficacy of routine flu vaccination to reduce the burden of influenza infection in DM patients.

This study was funded by NPRP # NPRP11S-1212-170092