

THAT'S MY PHARMACISTSM

Making a Difference in Healthcare

In Michigan, 11.5 percent of adults suffer from asthma with the highest incidence in 18-24 year olds, 14.1 percent.

"In a study involving 727 patients who were in need of improved inhaler technique and adherence, optimal inhaler technique rose from 24 percent to 79 percent after pharmacist-provided training."

In recent data, Michigan ranked 8th in the US for heart disease as the leading cause of death.

"In a study of 47 patients followed over a six-month period, increased pharmacist-patient counseling along with increased disease state monitoring and medication adjustments was found to decrease the number of risk factors for cardiovascular disease."

In 2014, 799,000 Michigan adults were diagnosed with diabetes, the 7th leading cause of death in Michigan.

"Throughout a six-month period, Hemoglobin A1c levels fell by 2.4 percent in veterans with diabetes at a pharmacist-led diabetes clinic, compared with a 0.2 percent drop in similar patients who did not attend the clinic. This translates to an estimated \$9,104 reduction in three-year medical costs for each patient seen."

In Michigan, over 15,000 residents live with diagnosed HIV and over 800 new cases are diagnosed each year.

"A study examining medication adherence for patients using HIV-specialized pharmacies found that HIV patients were more adherent to their anti-retroviral and comorbid therapies. HIV-specialized pharmacy users had significantly higher mean proportion of medication adherence (82.6 percent days covered compared with 79.6 percent of days covered) than in patients not taking advantage of these services."

About 900,000 Michiganders suffer from chronic kidney disease with about 10 percent needing kidney dialysis.

"In four trials, clinical pharmacists had a positive impact on patient outcomes in the intervention group as compared to the available standard of care. Most of the studies reported a significantly higher proportion of patients managed by a clinical pharmacist maintained better haemoglobin and haematocrit ranges compared to patients receiving standard care."

In 2016, 876 solid organs were transplanted in Michigan.

"Over a five-week period, three transplant pharmacists recorded 1,060 patient medication interventions. Their clinical work estimated savings of more than \$107,000, roughly \$36,000 per pharmacist, during the study period. When these results are extrapolated out further, it is estimated that each transplant pharmacist would save more than \$373,000 per year."

In Michigan, 22.1 percent of the population is less than 18 years of age.

"Pharmacists from a Michigan college of pharmacy and state pharmacy association collaborated on a statewide initiative to standardize the concentrations of pediatric oral liquids. Prior to this initiative, standard concentrations of oral liquids had not been established contributing to medication errors and pediatric patient harm. This Michigan initiative has received national recognition, including an award from the Institute for Safe Medication Practices."



MICHIGAN SOCIETY OF HEALTH-SYSTEM PHARMACISTS



MICHIGAN PHARMACISTS ASSOCIATION

Brought to you by the Michigan Society of Health-System Pharmacists and Michigan Pharmacists Association
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