



CAREER OPPORTUNITIES IN PHARMACY





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M I C H I G A N P H A R M A C I S T S A S S O C I A T I O N



What Do You Think a Pharmacist Does?

Pharmacists meet a special need in the community.

Why Do We Need Pharmacists?

- **Pharmacists are educated to become experts on medications.**
- **Pharmacists educate people to use their medications correctly.**
- **Pharmacists educate doctors to choose the most appropriate medications for their patients.**
- **Pharmacists help prevent harm that can come from using medications incorrectly.**



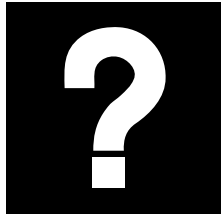
PHARMACY QUIZ - #1

Approximately how many prescriptions are filled in the United States every year?

- a. One million
- b. Ten million
- c. One billion
- d. Three billion

THREE BILLION





PHARMACY QUIZ - #2

How many prescriptions does ONE pharmacist usually fill in a year?

- a. 5,000
- b. 15,000
- c. 30,000
- d. 50,000

30,000

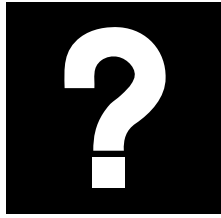


Current Trends

- The population is living longer.
- As people age, they tend to take more medications.
- The number of drugs on the market gets larger every year.







**USING MEDICATIONS IS GETTING
MUCH MORE COMPLICATED**



PHARMACY QUIZ - #3

The average senior citizen (age 65-69) is on ___ prescription medications.

- a. 2 
- b. 4 
- c. 10 
- d. 14 

14

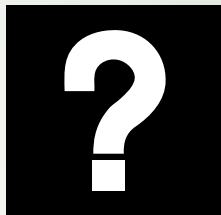
Fact

For every dollar
SPENT PURCHASING
MEDICATION



We spend another dollar
TREATING PROBLEMS
RELATED TO MEDICATION





PHARMACY QUIZ - #4

How many dollars are spent per year on health care to correct drug-related problems?

- a. Ten million
- b. Ninety million
- c. Thirty billion
- d. Two hundred billion

Two Hundred Billion

What Does That Mean?

For \$200 billion dollars



138 million lives could be saved!
That's over 24 thousand people every day!

What's the Answer?

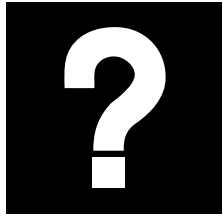


- Educate patients
- Educate doctors
- Prevent harm

**PHARMACISTS HAVE AN
IMPORTANT JOB TO DO**

The Pharmacist's Role

- **Ensure prescriptions are filled accurately**
- **Review the patient's profile for potential problems**
- **Call the physician if a problem is noted**
- **Talk to patients about how to use their medications**
- **Go on rounds with physicians and other healthcare workers in the hospital**



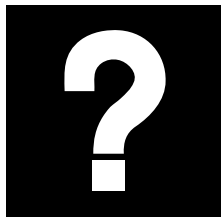
PHARMACY QUIZ - #5

Pharmacists can do ALL of the following, except:

- a. check cholesterol levels.
- b. take blood pressures.
- c. administer immunizations.
- d. diagnose disease.
- e. offer health screenings (diabetes, osteoporosis, etc).



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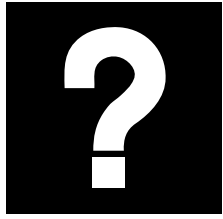


PHARMACY QUIZ - #5

Pharmacists can do ALL of these things, except:



DIAGNOSE DISEASE



PHARMACY QUIZ - #6

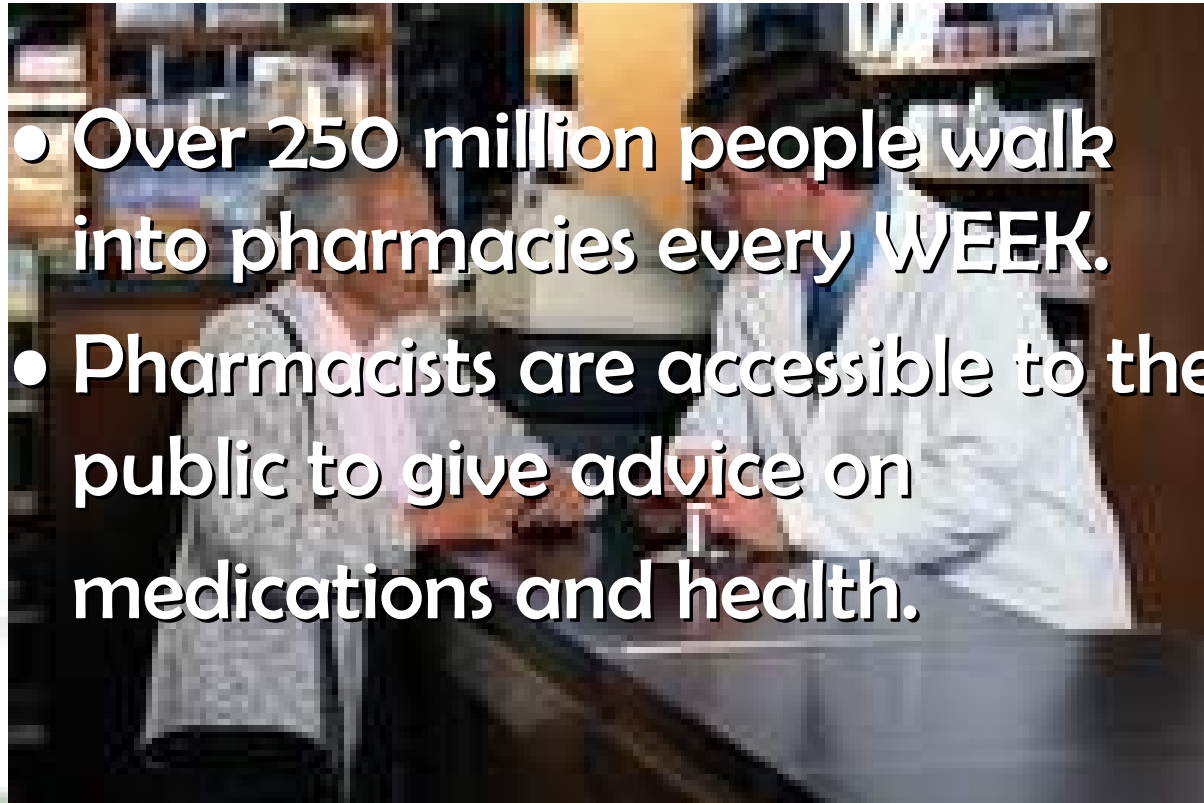
Which healthcare provider sees patients most often?

- a. Nurse
- b. Dentist
- c. Pharmacist
- d. Doctor

PHARMACIST

Pharmacists are in a Unique Position

- Over 250 million people walk into pharmacies every WEEK.
- Pharmacists are accessible to the public to give advice on medications and health.



**PHARMACISTS MAKE A DIFFERENCE
IN THEIR PATIENTS' LIVES**

Your Career Path



- What do you want to do?
- What are you interested in?
- What are you good at?



PHARMACY QUIZ - #7

If you wanted to become a pharmacist, how long would you have to go to college?

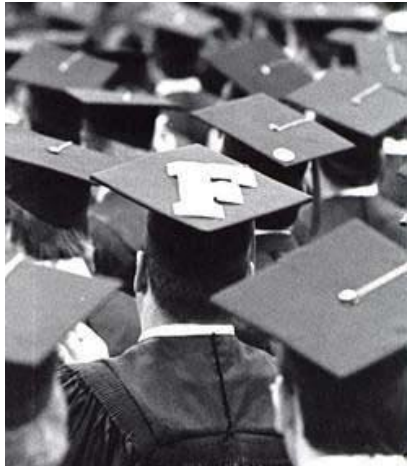
- a. Two years (Associate's)
- b. Four years (Bachelor's)
- c. Six years (Professional/Doctorate)
- d. Eight years (Professional/Doctorate)

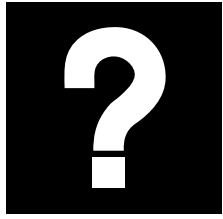
**Six Years
(Professional/Doctorate)**



Pharmacy School

- Two years of prerequisite courses
- Four years of professional study
- Graduate with a Doctor of Pharmacy degree (Pharm.D.)
- May complete a residency after graduation





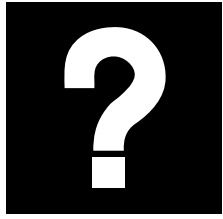
PHARMACY QUIZ - #8

Pharmacy School education covers ALL of the following areas except:

- Pharmacology
- Kinetics/metabolism of drugs
- Human anatomy/physiology
- Biology
- Chemistry



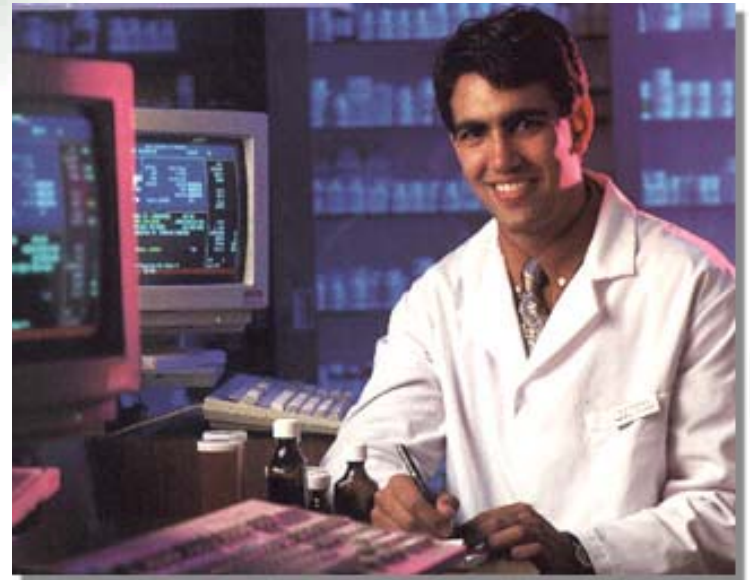
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PHARMACY QUIZ - #8

Pharmacy School education covers ALL of the following areas except:

- Mathematics
- Law
- Pathology of diseases
- Patient care skills
- Poetry writing



POETRY WRITING



PHARMACY QUIZ - #9

When Betty Jones graduates with a degree in pharmacy, what will her new title be?

- a. Doctor Betty Jones
- b. Betty Jones, Pharmacist



Doctor Betty Jones



PHARMACY QUIZ - #10

After pharmacy school, what options does a graduate have?

- a. Specialize by completing a residency
- b. Work in a retail pharmacy
- c. Work in a hospital pharmacy
- d. Own a pharmacy
- e. Act as a consultant in a long-term care home
- f. A graduate can do all these and more.

A graduate can do all these and more!



PHARMACY QUIZ - #11

Of these fields, choose all of the ones that could involve pharmacists:

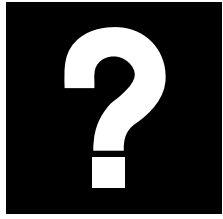
- Medicine
- Research/discovery
- Business
- Engineering
- Legislator
- Computers
- Finance
- Hospital Administration
- Marketing/Advertising
- Calculus/Math
- Law
- Nuclear Medicine
- Public Health
- Chemistry
- Biology
- Education
- Journalism
- Accounting
- Poison Control
- Physics/Kinetics
- Self-Employment
- Sales

ALL INVOLVE PHARMACISTS

There is a Shortage of Pharmacists

- The population is living longer and using more medications.
- More pharmacies are being built to prepare for increased future demand

IT IS ANTICIPATED THIS SHORTAGE WILL EXIST FOR SEVERAL YEARS

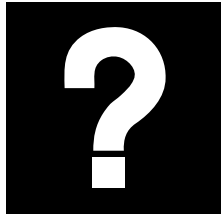


PHARMACY QUIZ #12

TRUE OR FALSE.

Due to the shortage of pharmacists and the public's increasing use of medications, the outlook for a career in pharmacy looks VERY GOOD for the future!

TRUE



PHARMACY QUIZ #13

The average annual salary of a pharmacist is:

- a. \$20,000-40,000
- b. \$40,000-60,000
- c. \$60,000-\$80,000
- d. \$80,000 and up



\$80,000 and up

Is Getting Into Pharmacy School a Challenge?

YES

- Admission is very competitive

Michigan Colleges of Pharmacy



How can an Applicant Stand Out Among the Crowd?

During your pre-requisite courses:

- Maintain a high GPA
- Work in a pharmacy
- Join organizations on campus that involve health care or pharmacy
- Seek a pharmacist to be your mentor



IF YOU'RE INTERESTED IN BECOMING A PHARMACIST:

Contact:



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