Sweet Facts about Pharmacists in Diabetes (DM) Care and Education:

> Why you should have a pharmacist on your interdisciplinary team.

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ADCES Diabetes Education Accreditation Program (DEAP) Certifies that

Gallup Indian Medical Center ID# 210053 9/1/2020 - 8/31/2024

Having met all applicable standards and the requirements of the association is granted accreditation

TATION

Leslie E Kolb, RN, BSN, MBA Thief Science and Practice Officer

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# Pretest:

Q1. What are some skills clinical pharmacists and pharmacist clinicians are able to provide?

- a) Provide comprehensive education
- b) Provide information on technology advancements
- c) Manage comorbidities
- d) Decrease medication costs
- e) B & D
- f) All of the above

### Pretest:

Q2. What are the two main differences between a clinical pharmacist and a pharmacist clinician? (Select one correct answer)

- a) One can conduct physical exams and bill under their own license and the other cannot
- b) Licenses are the same but their collaborative practices are different
- c) One can make referrals and order labs and the other cannot
- d) None of the above

### Pretest:

Q3. What is a <u>unique</u> piece of information that a pharmacist can bring to your interdisciplinary team?

- a) Immunizations
- b) Intensive Medication Education
- c) Insurance Coverage
- d) Detailed Comprehensive Medical History
- e) SMART Goal Setting



This session is designed to showcase the integral role pharmacists play on a diabetes interdisciplinary team and their roles at different levels of diabetes care.

It will showcase their contributions in medication skills, diabetes knowledge and support; to effectively manage chronic diseases and improve patient outcomes.



1. Examine the role of pharmacists at different levels of diabetes care

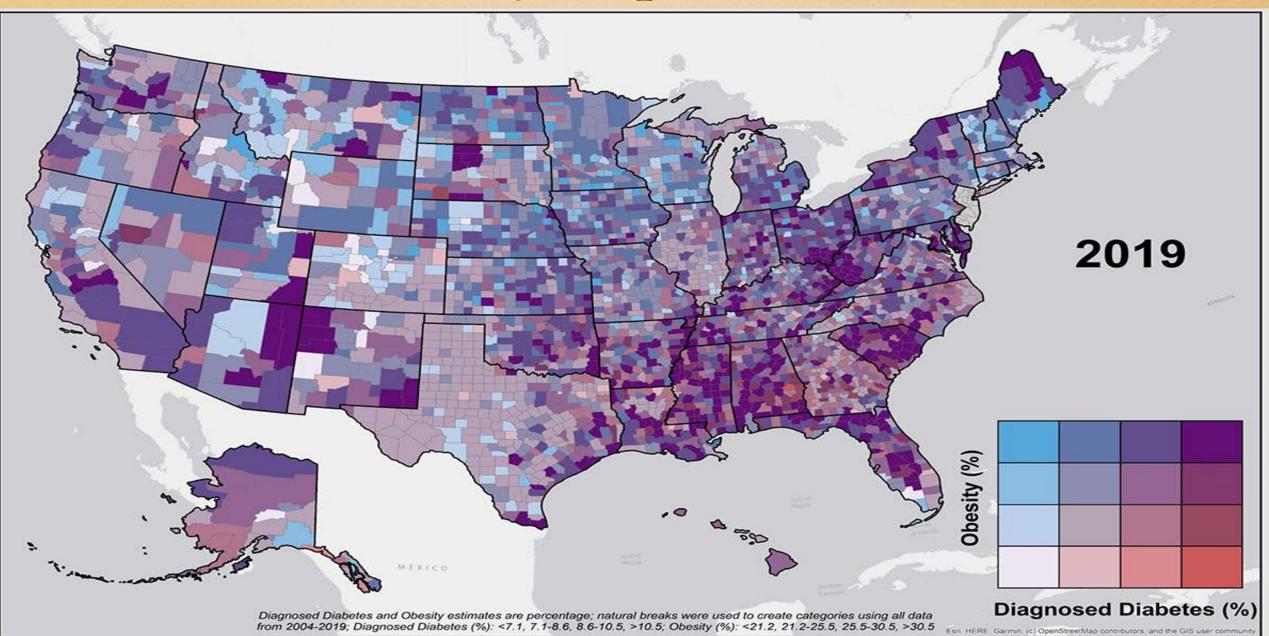
2. Identify the skills clinical pharmacists and pharmacist clinicians can offer as members of the interdisciplinary healthcare team to improve diabetes management

3. Enlist and engage pharmacists to implement collaborative practices that lead to the improvement of diabetes management outcomes

General Background:

- "The demanding work involved in caring for the large number of people diagnosed with diabetes could overwhelm both resourced and under resourced locations" [1]
  - 11.3% of the US population has diabetes (~ 37.3 million people) [2]
  - 38.0% if the adult US population have prediabetes (~ 96 million people) [2]
- "The increase in people with diabetes is occurring in record numbers in all countries across the planet" [1]
- "Prediabetes has also become an epidemic" [1]
- The composition of person-centered care teams can vary but should reflect the diversity of the communities served by the primary care practice [3]

# **Diabetes and Obesity Map** [2]



# Background for Indian Health Services (IHS):

- Approximately 1.6 million AI/AN people receive health care from IHS services[4]
- Diabetes prevalence as of 2017: 14.6% [5]
  - Decrease from 15.4% in 2013
- Diabetes-Related Mortality in 2017: 34.4 per 100,000 population [5]
- Kidney Failure in 2013: 26.5 per 100,000 population[5]
- Hospitalizations for Uncontrolled Diabetes in 2015: 9.4 per 100,000 population[5]

# Background for Indian Health Services (IHS):

- Diabetes Care and Outcomes Audit (~1996 to 2019)[5]
  - Average blood sugar has decreased by 10%
  - Average LDL has decreased by 24% and is well controlled overall
  - Average blood pressure has been well controlled overall for more then 20 years

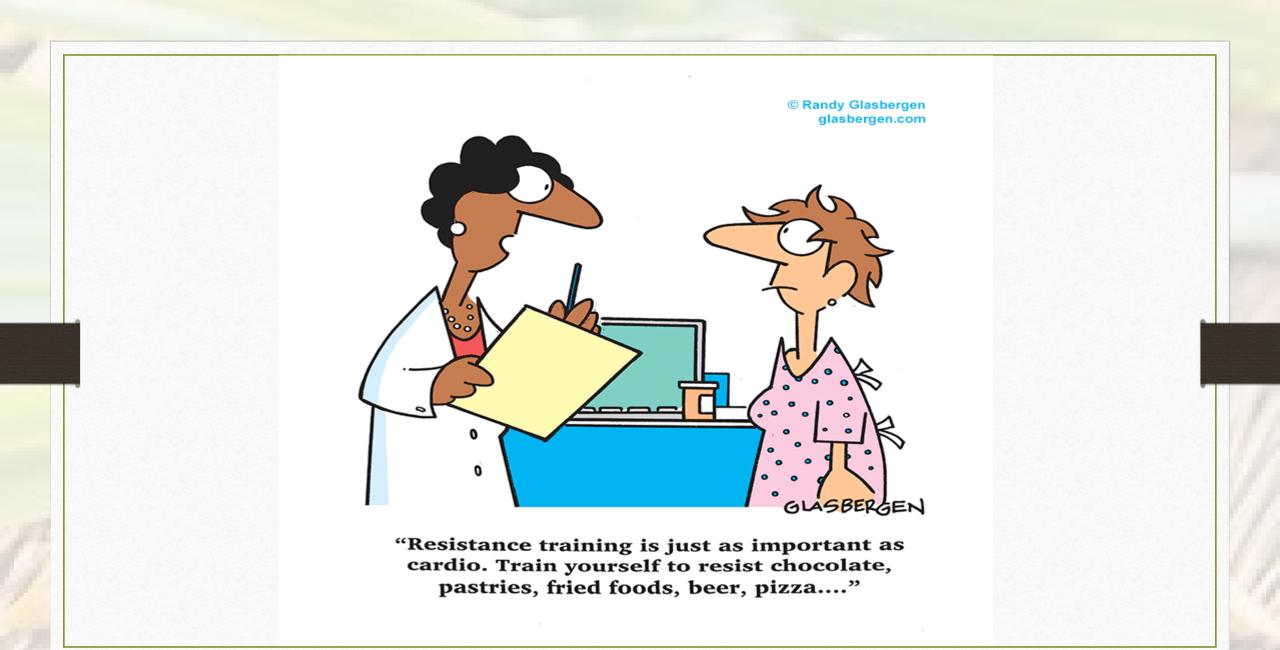
# Background for New Mexico:

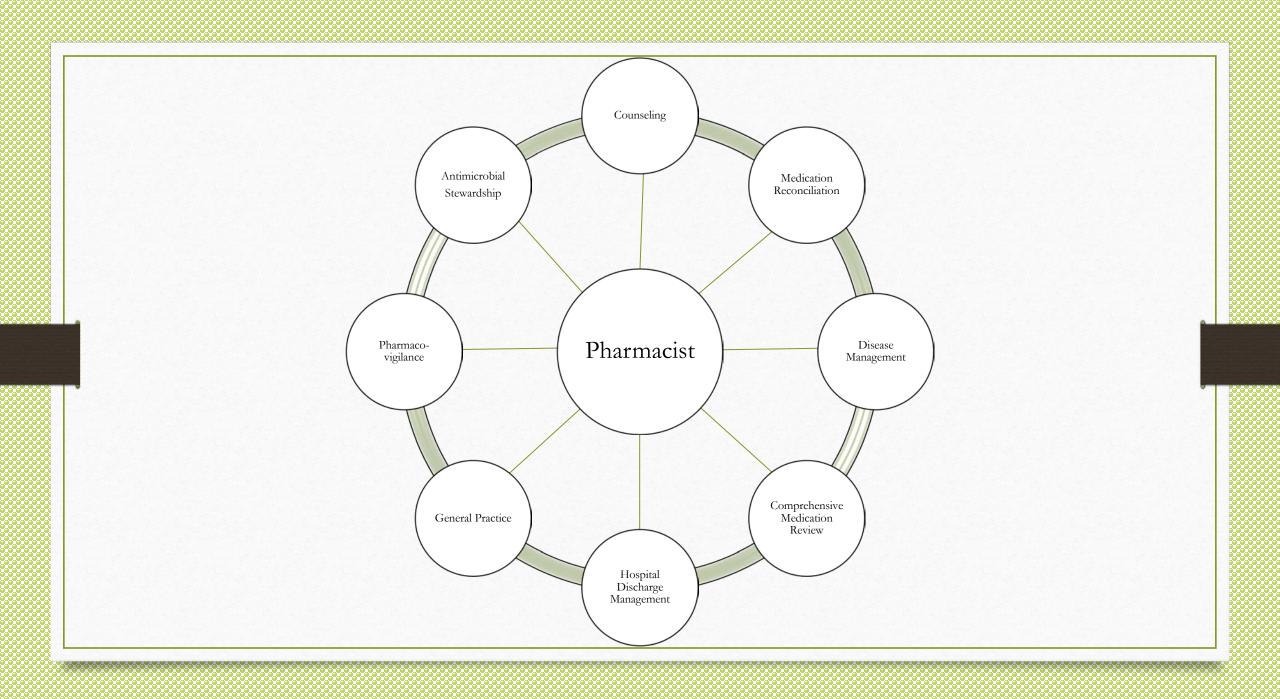
#### "Burden of DM in New Mexico" [6]

- 12.3% of the adult population have diagnosed diabetes
- 36.1% of the adult population have diagnosed prediabetes
- Medical expenses approximately 2.3 times higher
  - Direct medical expenses: \$1.5 Billion in 2017
  - Indirect medical expenses: \$475 million
  - Total: estimated \$2 billion each year

# Background for New Mexico:

- Sixth leading cause of death [7]
  - McKinley County diabetes deaths = 63.7% [8]
  - New Mexico diabetes deaths = 26.9% [8]
  - U.S. diabetes deaths = 22.6% [8]





<u>Areas Where Pharmacists Provide</u> <u>DM Care in the IHS</u>:

- Pharmacy Provided Care and Education
- Pharmacists in Diabetes Care and Education Programs
- Pharmacy Clinicians in the out-patient setting





- DM patients tend to have more medications than patients without DM
- This leads to a greater number of encounters per year by a pharmacist verses their primary care provider
- Teaching opportunities while they are a captured audience
  - Counseling Rooms
  - In-patient and Emergency Department

### Medication Education:

#### • Mechanism of Action (MOA)

- Oral Medications
- Injectable Medications
- Inhaled Medications
- Patches
- Explains why timing of medications are important, and the need for food or not

### Medication Education:

- Translate the direction for use (examples):
  - Take twice a day
  - Take weekly
  - Take with food (before or after)
  - When to discard and how to store
- Demonstrate how to administer medication



• Learn which monitors are used by your site, and how to use them

- Blood Glucose Monitor/Sensors
- Home Blood Pressure Monitor
- Teach the patient and use teach-back strategies
- Answer questions
- Know which apps might link with the specific monitor

# Advances in Technology:

- Learn what is available at your site and
  Apps and Digital Therapeutics how to use them
  - Continuous Glucose Monitors (CGM)
  - Insulin Pumps
  - Smart Pens and Insulin Delivery
    - Connected pens
    - Traditional pens
    - Patches
    - Inhalable Devices
  - Glucagon Nasal Powder

- Danatech
  - <u>https://www.diabeteseducator.org/danatech/</u> <u>home</u>
  - Offers device training
  - Offers a free CGM expert certificate program
  - Online Learning
  - Educational Podcasts and Videos

# Other Teachings in Two Minute or Less (examples):

- Treatment of hypo- or hyperglycemia
- How to get a better glucose stick
- Signs and symptoms of hypoglycemia
- Explaining the Jargon
  - "A1c is too high"
  - "Not getting enough exercise"
  - "Eat less carbs"

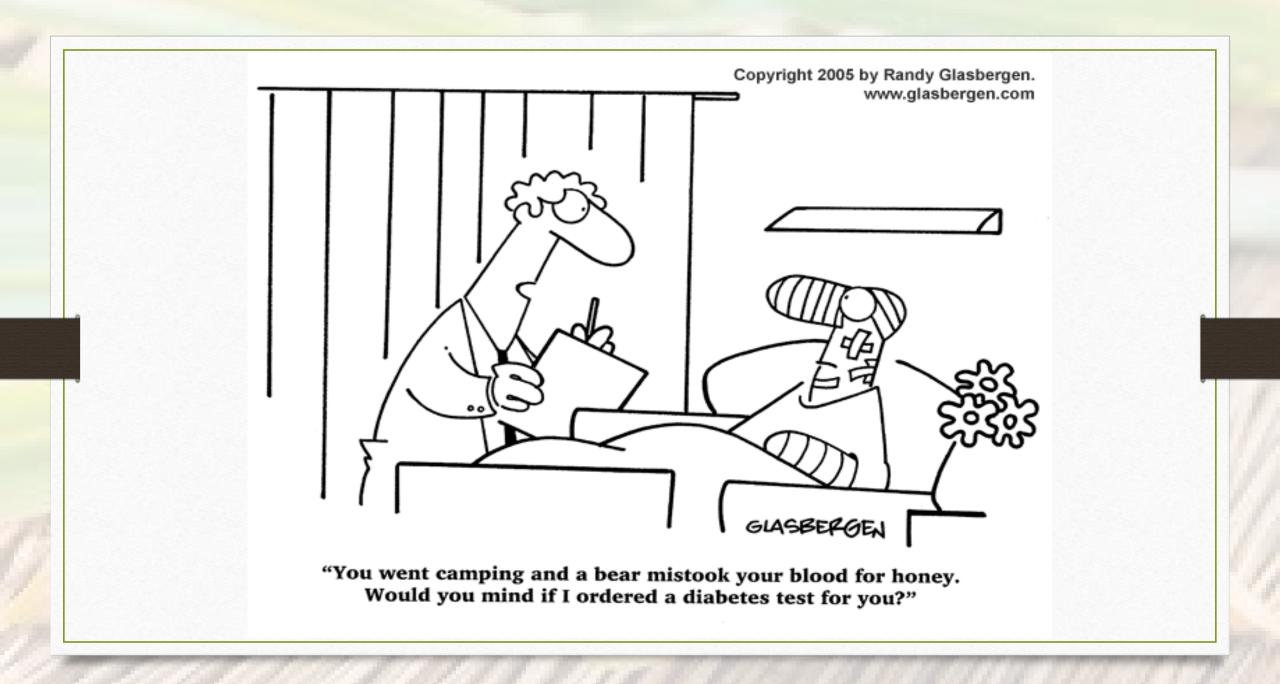
# <u>One Minute Question and Answer</u> <u>Opportunities</u>:

- Answer questions the patient might have regarding DM
- Ask (examples):
  - "Tell me how you mix your NPH and Regular insulins?"
  - "Do you take your metformin before or after your last bite of food?"
  - "Where do you store your insulin?"
  - "I see you are on a small number of units/day. How do you remind yourself to dispose of your insulin?"
  - "What day of the week do you inject your semaglutide?"

# Referrals:

- Questions or information that may require more time... refer them to the DM Program
  - Enter a consult to the DM Program
  - Hand out a brochure of DM services

Provide the DM Program's phone number and a point of contact for a soft pass off when possible



# Pharmacists in Diabetes Care

and Education Programs

# Greater Use of Pharmacy License:

#### Clinical Practice Agreement

- Basically the Do's and Do Not's in Clinic
- Practice at the fullest extent of our license
- Work in Collaboration with the Patient's Primary Care Provider (PCP)
- Overseen by the Chief of the DM Program, and if accredited by an Advisory Board (ADCES)
- Part of a Interdisciplinary Team



- Trainings/ CEs
  - 15 hours of DM related education (ADCES)
- Certifications (examples):
  - Pharmaceutical Care for Patients with Diabetes by APhA\*
  - Diabetes Management by ASHP\*
  - Pharmacy-Based Cardiovascular Disease Risk Management by APhA\*
  - Tobacco Intervention Skills: Medical and Allied Health Professionals by University of Arizona
  - Pharmacy Based Immunization Delivery by APhA\*
  - American Diabetes Care and Education Specialist (ADCES)



- National Clinical Pharmacy Specialist (NCPS)
  - Indian Health Services
  - Criteria met and hours achieved
- Board Certified Pharmacotherapy Specialist (BCPS)
  - Exam by ASHP
- Certified Diabetes Care and Education Specialists (CDCES)
- Board Certified Advanced Diabetes Management (BC-ADM)

### Who Refers to the DM Program (examples):

- Internal Medicine Clinic
- Family Medicine Clinic
- Urgent Care
- Emergency Department (ED)

- Pharmacy
- Pediatrics
- OB/GYN
- Self-referrals

# Medication Management:

#### • Reconciliation:

- Update their medication list
- Matches the medical record
- Over-the-counter, herbals, natural, street drugs, or another provider

#### • Adherence:

- How many times a week do they take their medications
- What side effects might they be experiencing
- Why did they stop taking it

# Medication Management:

- Cost Savings
- Titration:
  - Increasing the medication to a higher dose
  - Decreasing the medication to a lower dose

# Medication Management:

#### • Rotations:

- Switching to another medication in the same or different class
- Stopping medications
  - Not working based on lab results
  - Patient cannot tolerate
  - No longer useful in the treatment plan

# Educators:

### **One-on-One**:

- Appointments
  - In-person
  - Telephone visits
  - Video visits
- Walk-Ins

#### Group:

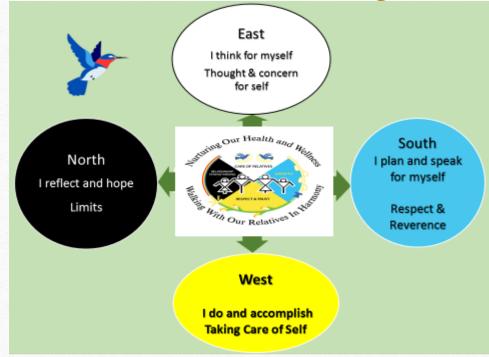
- Appointments
- In-Services to other departments

#### SMART Goal Setting

- Evidence-based medicine
- Motivational Interviewing
- Shared-decision making
- Patient's preferences
- Cultural Values
- Follow-up

S = SpecificM = MeasurableA = AchievableR = RelevantT = Time

• Comprehensive education tailored to the patients' needs



#### • Comprehensive education tailored to the patients' needs

#### ADCES7<sup>™</sup>

Diabetes Program PERSONAL GOALS We ask our patients to chose which goal(s) they wish to focus on and/or have met at each visit.



\*@ 2020 ADCES

• Comprehensive education tailored to the patients' needs



### Manage Comorbidities (examples):

- Obesity
- Hypertension
- Hyperlipidemia
- Chronic Kidney Disease
- Tobacco Cessation

https://www.ihs.gov/diabetes/education-materialsand-resources/index.cfm?module=productList

- Follow the IHS algorithms
  - Hypertension Therapy in Type 2 Diabetes
  - Type 2 Diabetes- Lipid and Aspirin Therapy
  - Type 2 Diabetes and Chronic Kidney Disease

### Comprehensive Medical History:

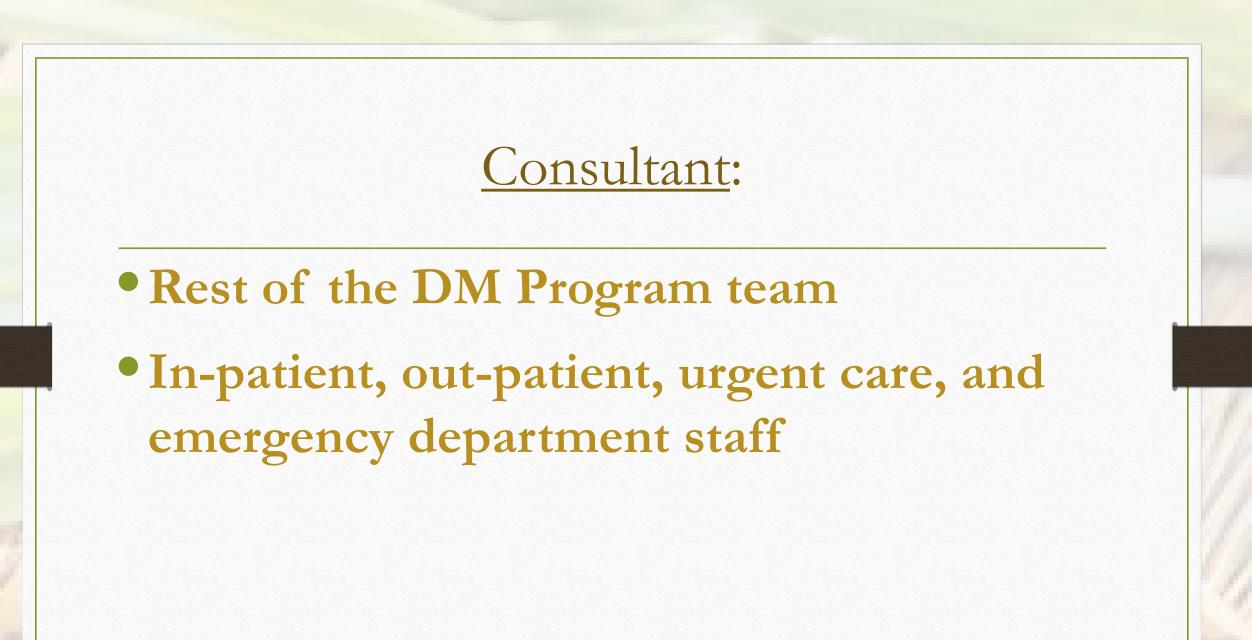
- History of DM
- Labs
- Immunizations
- Screenings

#### • Yearly DM Exams

- Retinopathy
- Foot
- Dental

### Referrals to other Specialties (examples):

- Medical Nutrition Therapy (MNT)
- Urgent Care or Emergency Department
- Establish care with primary care provider
- Podiatry
- Dental
- Eye Clinic
- Behavioral Health



Outcomes (examples):

- Improvement in clinical markers
- Improvement in Patient's Quality of Life
- Improvement in Patient's Knowledge of Diabetes
- Patient's Satisfaction
- Decrease in overall health care cost, hospitalizations, ED visits, and/or complications of diabetes





#### Enhanced Pharmacist Practice:

- "a pharmacist with additional training required by regulations adopted by the board in consultation with the New Mexico medical board and the New Mexico academy of physician assistants, who exercises prescriptive authority in accordance with guidelines or protocol." [9]
- Conduct <u>physical exams</u>, prescribe medications, order labs, code/bill<u>on</u> <u>their own license</u>
  - Functions as a mid-level provider

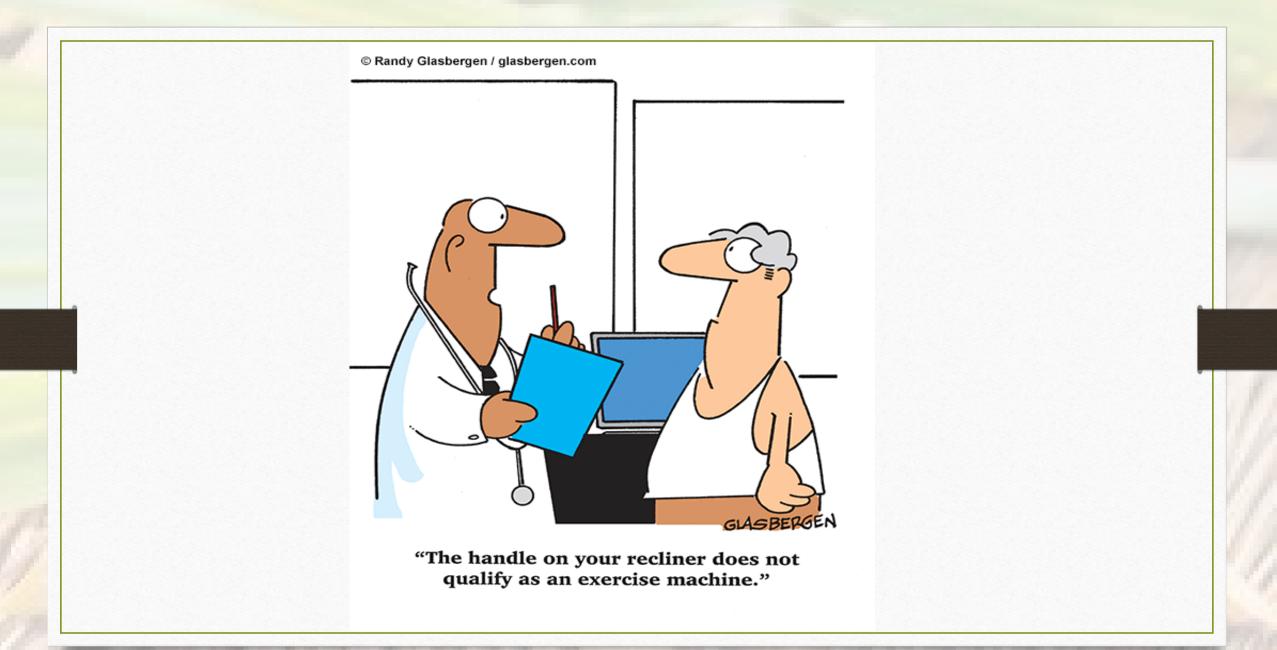
#### Enhanced Pharmacist Practice:

#### Requirements [9 & 10]:

- Licensure in New Mexico
- "Physical Assessment for Pharmacist Clinicians" course
  - 60 hours ACPE accredited course
  - Approved by the NM Board of Pharmacy
    - Northern Navajo Medical Center (Shiprock)
    - New Mexico Pharmacists Association

https://www.nmpharmacy.org/page-1722241

- Complete a 150-hour, 300patient-contact preceptorship supervised by a physician or other practitioner with prescriptive authority
- Protocol of collaborative practice





- Get to know your pharmacists
- Know at what level they can provide information, and if they have specialized in DM care and education
- Utilize their skills and qualifications to enhance the interprofessional healthcare team and improve diabetes management
- Add a few pharmacists to your interdisciplinary healthcare team
  - Enlist and engage pharmacists to implement collaborative practice agreements
  - Leads to improved DM outcomes

#### Post Test:

Q1. What are some skills clinical pharmacists and pharmacist clinicians are able to provide?

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"Everyone knows food is bad for you, but I don't know what else to eat!"

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### Thank you,

# From the bottom of my pancreas!