# WAPI's 18th Annual Interdisciplinary CME Conference

1/1/2020

CME PRACTICE GAP ANALYSIS

# Describe identified Quality/practice Gap:

We identified quality/practice Gap from our survey in the following areas

- New drugs and/or drug therapies
- New therapeutic and management approaches
- Refresher on difficult clinical problems
- New Advances in Clinical treatment

Based on this criterion our CME committee had decided on the below topics

- 1. Personalizing HIV treatment and prevention in 2020 Rena Patel MD , Mph
- 2. The current landscape for viral hepatitis and non-alcoholic fatty liver disease in the united states Channa Jayasekara MD
- 3. Testicular cancer 101 Rohan Sharma MD
- 4. Personalized treatment of early stage breast cancer Swathi Namburi MD
- 5. Updates on travel medicine- Francis Riedo MD
- 6. Women and veins Kathy Gibson MD
- 7. MSK ultrasound Atul Gupta MD
- 8. Selecting disease-modifying anti-rheumatic drugs for rheumatoid arthritis Amish J Dave MD
- 9. Managing inflammatory bowel disease in the era of personalized medicine Tim Zisman MD
- 10. Role of IR in treatment of progressive Parkinson's disease Sanjiv Parikh MD
- 11. Targeted therapies in neurology Leo Wang MD
- 12. Making a difference in diabetes: evaluating etiology and facing fears and falsehoods Janet Leung MD
- 13. Planning for the worst: code status, POLST, and advance care planning Hope Wechkin, MD
- 14. Case of HELLP syndrome Sanjiv Parikh, MD
- 15. Personal approach to healthy living Happy Walia DDS
- 16. Sleep hygiene Ashish Trivedi MD

# How did you identify this Quality/Practice Gap? Each Speaker further elaborated the Practice Gap Analysis

# PERSONALIZING HIV TREATMENT AND PREVENTION IN 2020 - Rena Patel MD ,MPH

# Describe the problems or gaps in practice this activity will address:

What are you trying to change?

Despite the availability of effective antiretroviral therapy, many cases of HIV infection continue to be diagnosed at advanced stages, as evidenced by low CD4 cell counts. Nationally, the proportion of patients who receive AIDS diagnoses at or within 12 months of their HIV diagnosis in 2010 was 32% (299). Since 2006, CDC has recommended efforts to increase HIV testing by streamlining the consent process and expanding opt-out testing to all health-care settings, including those serving persons at risk for STDs (122). HIV testing facilitates early diagnosis, which reduces the spread of disease, extends life expectancy, and reduces costs of care. However, rates of testing remain low: CDC estimates that in 2008, only 45% of adults aged 18–64 years had ever been tested (300), and that during 2006–2009 approximately 41% of persons with newly diagnosed HIV infection had never been previously tested (301). Comprehensive HIV treatment services are usually not available in facilities focusing primarily on STD treatment (e.g., STD clinics). In such settings, patients with a new diagnosis of HIV infection or those with an existing diagnosis of HIV infection who are not engaged in regular on-going care should be linked promptly to a health-care provider or facility experienced in caring for HIV-infected patients (70). Providers working in STD clinics should be knowledgeable about the treatment options available in their communities, educate

What is the problem?	
<ul> <li>The following are specific recommendations that apply to HIV screening is recommended for all persons who seek of STD diagnosis (e.g., early syphilis, gonorrhea, and chl HIV testing must be voluntary and free from coercion. Pa Opt-out HIV screening (notifying the patient that an HIV health-care settings.</li> <li>Specific signed consent for HIV testing should not be recent encompass informed consent for HIV testing.</li> <li>Use of Ag/Ab combination tests is encouraged unless per Preliminary positive screening tests for HIV infection mu Providers should be alert to the possibility of acute HIV is a statement.</li> </ul>	evaluation or treatment for STDs. This testing should be performed at amydia) in populations at high risk for HIV infection. atients must not be tested without their knowledge. I test will be performed, unless the patient declines) is recommended in quired. General informed consent for medical care is considered suffic
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Recognize currently recommended options for initial HIV treatment regimens. Recognize currently recommended options for HIV prevention; and Drug-drug interactions and other management considerations for a non-HIV specialist.

# THE CURRENT LANDSCAPE FOR VIRAL HEPATITIS AND NON-ALCOHOLIC FATTY LIVER DISEASE IN THE UNITED STATES - Channa Jayasekara MD

# Describe the problems or gaps in practice this activity will address:

What are you trying to change?

# Chronic viral hepatitis

Chronic viral hepatitis B and C affect over 5 million people in the United States, with an estimated 40-80% of this population unaware of their infection. This epidemiologic profile is also dynamic owing to phenomena such as immigration and the opiate epidemic. Significant intra-population disparities additionally lead to disproportionately high morbidity and premature mortality from consequent cirrhosis and liver cancer in specific groups. Key among the reasons for these negative outcomes are sub-optimal disease screening, linkage to care, and referral for treatment despite significant advances in treatment of chronic hepatitis B and particularly hepatitis C. In addition, promising research on functional cure of chronic hepatitis B may portend a dramatic transformation of this disease's epidemiology as with the recent developments in hepatitis C therapeutics.

# Non-alcoholic fatty liver disease

With the decline in hepatitis C prevalence, non-alcoholic fatty liver disease is expected to be the predominant liver disease worldwide. It is already the fastest rising (and by some estimates the leading) etiology of primary liver cancer and leading indication for liver transplantation in the United States. The vast majority of patients with NAFLD are unaware of their diagnosis and population-level screening for NAFLD and its risk stratification vis-à-vis fibrosis assessment is woefully inadequate. Protocols for systematic and cost-effective disease screening, risk stratification metrics and modalities, are active areas of research. There is finally an intensive clinical research effort to identify therapeutic targets, with the first agent in over a decade, obeticholic acid, slated to receive FDA approval in March 2020.

# What is the problem?

This lecture focuses on practicing clinicians thus I will not emphasize the basic and translational research efforts on this condition.

**Chronic viral hepatitis B and C:** The CDC and USPSTF have clear guidelines on screening patients for chronic viral hepatitis B and C. For hepatitis B, there exists a grade B recommendation to screen all persons "at high risk for infection" whereas for hepatitis C, there exists a grade B recommendation to screen all persons "at high risk for infection" and "adults born between 1945 and 1965". A revision to the latter guideline to include all individuals aged >18 years is in the public comment phase. It is expected that increased screening will lead to improved referral to care, and for the highly effective treatments widely available, thus mitigating late stage complications such as cirrhosis and primary liver cancer. Finally, several states including Washington have embarked on efforts to eliminate hepatitis C within a 10-15-year time horizon. The vast majority of infected individuals however remain unaware of their infection due to non-systematic screening, with marked additional drop-offs noted between screening and referral to care, and between referral to care and referral for treatment. Clinician education on the epidemiology, interpretation of serologies, clinical course, screening guidelines, treatment options, and treatment outcomes, are intended to improve case detection and referral for appropriate care.

**Non-alcoholic fatty liver disease:** There are no national guidelines on screening for non-alcoholic fatty liver disease and just one agent anticipated to be FDA approved as an adequate (if imperfect) treatment. However it is imperative for clinicians to identify the telltale risk factors for this condition, perform a judicious assessment, and ensure counseling on specific highly effective interventions such as therapeutic weight loss, optimal glycemic control. Further higher-level evaluations such as fibrosis assessments are widely available and should not be the purview of sub-specialists given the massive disease burden. Clinician education on cooperative and systematic approaches to case identification, risk stratification, and management will be discussed.

## How did you assess and/or measure these issues?

How was the educational need/practice gap for this activity identified? Place an X by each source utilized to identify the need for this activity.

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#### What is the problem

The American Cancer Society relies on information from the SEER\* database, maintained by the National Cancer Institute (NCI), to provide survival statistics for different types of cancer.

The SEER database tracks 5-year relative survival rates for testicular cancer in the United States, based on how far the cancer has spread. The SEER database, however, does not group cancers by AJCC TNM stages (stage 1, stage 2, stage 3, etc.). Instead, it groups cancers into localized, regional, and distant stages:

Localized: There is no sign that the cancer has spread outside of the testicles.

Regional: The cancer has spread outside the testicle to nearby structures or lymph nodes.

Distant: The cancer has spread to distant parts of the body, such as the lung, liver, or distant lymph nodes.

A thorough understanding of below factors helps in treating testicular cancer

Knowledge of Causes, Risk factors and Prevention -

Early detection, Diagnosis and staging

Treatment and After treatment

# How did you assess and/or measure these issues?

How was the educational need/practice gap for this activity identified? Place an X by each source utilized to identify the need for this activity.

Attach copies of documentation for each source indicated (REQUIRED)

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# PERSONALIZED TREATMENT OF EARLY STAGE BREAST CANCER - Swathi Namburi MD

# Describe the problems or gaps in practice this activity will address:

#### What are you trying to change?

Most breast cancers are found in women who are 50 years old or older, but breast cancer also affects younger women. About 11% of all new cases of breast cancer in the United States are found in women younger than 45 years of age. While breast cancer diagnosis and treatment are difficult for women of any age, young survivors may find it overwhelming.

Breast cancer is the most common cancer in women, no matter which race or ethnicity.

It is the most common cause of death from cancer among Hispanic women.

It is the second most common cause of death from cancer among white, black, Asian/Pacific Islander, and American Indian/Alaska Native women.

#### What is the problem?

Early detection and treatment is still the best strategy for a better cancer outcome. Have a medical checkups and mammograms on a regular basis. The American Cancer Society recommends women ages 40 to 44 should have a choice to start yearly screening mammograms if they would like. Women ages 45 to 54 should have a mammogram each year, and those 55 years and over should continue getting mammograms every 1 to 2 years. Reduce risk of breast cancer by modifying Lifestyle related Breast Cancer Risks

Genetic Counseling and Testing for Breast Cancer Risk

Deciding Whether to Use Medicine to Reduce Breast Cancer Risk

Tamoxifen and Raloxifene for Lowering Breast Cancer Risk

Aromatase Inhibitors for Lowering Breast Cancer Risk

Preventive Surgery to Reduce Breast Cancer Risk

How did you assess and/or measure these issues?

How was the educational need/practice gap for this activity identified? Place an X by each source utilized to identify the need for this activity.

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x Lack of Knowledge competence	Lack of time to assess or counsel patients
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Lack of consensus on professional guidelines	Patient Compliance Issues

#### What do learners need to be able to know or do to be able to address the gaps in practice?

The learners will learn how to reduce this gap by

- Understanding Role of chemotherapy in early stage breast cancer.
- Use of genomic predictors to personalize therapy
- Understanding about Personalization of HER2 directed therapy in early stage breast cancer

#### WOMEN AND VEINS - Kathy Gibson MD

Describe the problems or gaps in practice this activity will address: What are you trying to change?

Women can experience a vascular problem called deep vein thrombosis (DVT), DVT can permanently damage the veins resulting in long-term leg pain, swelling, skin changes and possibly leg sores. This condition is known as the post-thrombotic syndrome. DVT can also break off and travel to the lungs, resulting in a pulmonary embolus (PE), which can be fatal.

Certain women are at greater risk for developing DVT, especially those on contraceptives.

Pelvic-derived lower extremity varicosities are more common than most clinicians appreciate. In general, nonsaphenous venous reflux occurs in about 10% of patients. More than one third of this group has varicosities that arise from the pelvis1. In a recent study, 1350 patients with lower extremity varicosities were evaluated with both duplex ultrasound and CT venography to ascertain the source of reflux. A pelvic reflux source was noted in 8.6% of patients2. In another study, 741 female patients with varicose veins from two separate clinics were evaluated with duplex and transvaginal ultrasound. These studies found a pelvic reflux source in 19.5% of patients in one group and 21.5% in the other. Approximately 80% of the pelvic reflux patients were noted to have reflux in the gonadal vein3. Multiple additional studies show similar results leading to the conclusion that approximately one in every five female patients will have lower extremity varicosities as a result of pelvic venous disease.

## What is the problem?

Several specific potential risk factors for a fatal outcome from a COC-induced PE were identified. Recognition of these in combination with a high suspicion of VTE in COC users may reduce the risk of a fatal outcome.

Pelvic venous disease classically presents with a constellation of symptoms that have been described as pelvic congestion syndrome However, many patients are sometimes unaware that they have vaginal varicosities and may not provide this history. It is, therefore, very important that an assessment of

the vaginal region be performed during the lower extremity ultrasound examination.

#### How did you assess and/or measure these issues?

How was the educational need/practice gap for this activity identified? Place an X by each source utilized to identify the need for this activity.

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ultrasound technology

How did you assess and/or measure these issues?	
How was the educational need/practice gap for this activity ic activity. Attach copies of documentation for each source indicated (RI * please make sure when selecting your needs assessment dat	
Method	Example of required document
Previous participant evaluation data	Copy of tool and summary data
Research/literature review	Abstract(s) or articles
X Expert Opinion	Summary
Target audience survey	Copy of tool and summary data
Regulatory body requirements	Requirements summary
Data from public health sources Other (describe)	Abstract, articles, references
ribe the needs of learners underlying the gaps in practice:	
What are the causes of the gaps in practice? Check all that ap	
<ul><li>X Lack of awareness of the problem,</li><li>X Lack of familiarity with the guideline,</li></ul>	Poor self-efficacy, Inability to overcome the inertia of previous practice, and
Non-agreement with the recommendations,	Presence of external barriers to perform recommendations
Other	resence of external barriers to perform recommendations
Why does the gap exist? Check all that apply Lack of Knowledge competence	Lack of time to assess or counsel patients
X Performance-based.	Cost / Insurance/reimbursement issues
Other:	
What do learners need to be able to know or do to be able to a Explain your CME Objectives here A better understanding of use of ultrasound in sports medicin	
• the place for ultrasonography within the spectrum of	of care for musculoskeletal pathologies.
• when to consider regenerative medicine therapies for	or musculoskeletal pathologies.
• when to order an MRI versus an ultrasound for mus	culoskeletal pathologies.
	RHEUMATOID ARTHRITIS - Amish J Dave MD
ECTING DISEASE-MODIFYING ANTI-RHEUMATIC DRUGS FOR	
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Exercise the problems or gaps in practice this activity will addred What are you trying to change? Currently nearly 2% of Americans have rheumatoid a	rthritis and appropriate diagnosis and initiation of disease-modifying anti-
Exercibe the problems or gaps in practice this activity will addreed what are you trying to change? Currently nearly 2% of Americans have rheumatoid a rheumatic drug within the first three months of symptonic drug within the first three monthsymptonic drug within the fi	rthritis and appropriate diagnosis and initiation of disease-modifying anti- om onset is now standard-of-care as per the American College of Rheumat
Currently nearly 2% of Americans have rheumatoid a rheumatic drug within the first three months of sympt Washington State is one of the worst states in the nati number of practicing rheumatologists to patient need.	

as rheumatoid arthritis and psoriatic arthritis) seen by primary care providers and provide them with medical knowledge about diagnosis and treatment of these medical conditions.

# What is the problem?

Early treatment for rheumatoid arthritis should involve patients with this autoimmune condition being diagnosed and begun on steroidsparing disease-modifying anti-rheumatic drug therapy (DMARD) within three months of symptom onset. Primary care providers should understand what initial labs to send off for patients with inflammatory polyarthritis and how to distinguish between crystalline and non-crystalline inflammatory polyarthritis. Patients and providers should understand the incidence and prevalence (epidemiology) of rheumatoid factor (RF), anti-nuclear antibody (ANA), anti-citric citrullinated antibody (CCP), and HLA-B27 antigen studies in making a diagnosis of inflammatory polyarthritis. Primary care providers should understand the role of corticosteroids and biologic and non-biologic DMARDs in short-term and long-term management of rheumatoid arthritis and other inflammatory polyarthropathies. Primary care providers also should understand risks of infection and malignancy associated with DMARD therapy for common autoimmune conditions. Basic knowledge about risks of biologic and non-biologic DMARD therapies with pregnancy, as well as risks of corticosteroids with glycemic control in diabetes is also important.

# How did you assess and/or measure these issues?

How was the educational need/practice gap for this activity identified? Place an X by each source utilized to identify the need for this activity.

Attach copies of documentation for each source indicated (REQUIRED)

Method		Example of required document	
	Previous participant evaluation data	Copy of tool and summary data	
х	Research/literature review	Abstract(s) or articles	
х	Expert Opinion	Summary	
	Target audience survey	Copy of tool and summary data	
	Regulatory body requirements	Requirements summary	
	Data from public health sources	Abstract, articles, references	
	Other (describe)		

Describe the needs of learners underlying the gaps in practice:					
What are the causes of the gaps in practice? Check all that apply					
x Lack of awareness of the problem,	Poor self-efficacy,				
x Lack of familiarity with the guideline,	x Inability to overcome the inertia of previous practice, and				
Non-agreement with the recommendations,	Presence of external barriers to perform recommendations				
Other					
Why does the gap exist? Check all that apply					
x Lack of Knowledge competence	Lack of time to assess or counsel patients				
x Performance-based.	Cost / Insurance/reimbursement issues				
Lack of consensus on professional guidelines	Patient Compliance Issues				

# What do learners need to be able to know or do to be able to address the gaps in practice?

# It can be addressed by making sure the prescribing physician knows

1. Outline the roles of the rheumatologist and primary care provider in diagnosing rheumatoid arthritis

2. Describe the mechanisms of action of biologic and non-biologic disease-modifying anti- rheumatic drugs used to treat rheumatoid arthritis

3. Discuss differences in outcomes and extraarticular manifestations of rheumatoid arthritis in patients with seropositive and seronegative rheumatoid arthritis

# MANAGING INFLAMMATORY BOWEL DISEASE IN THE ERA OF PERSONALIZED MEDICINE - Tim Zisman MD

# Describe the problems or gaps in practice this activity will address:

# What are you trying to change?

Inflammatory bowel disease (IBD) is growing on a worldwide scale and is a chronic, frequently progressive condition that affects approximately 1.6 million people in the United States. Substantial room for improvement in the care of patients with IBD is needed. The outcomes of patients with IBD are diminished by multiple factors, including uncertainty about approaches to diagnosis, assessment, and treatment, as well as, a lack of knowledge about available therapies. To meet the persistent challenges associated with IBD management, health care professionals must be knowledgeable about the evidence-based and expert-recommended strategies for the treatment of patients with IBD to avoid disease flares, prevent structural damage and disability, and restore quality of life

Current therapies for IBD have not, yet, been able to prevent the need for surgical intervention in more than 50% of patients with IBD. Education for clinicians who manage patients with moderate-to-severe IBD about the immunopathophysiology of IBD and the latest available options to individualize IBD treatment can reduce the use of corticosteroids and need for hospitalizations or surgery, resulting in improved quality of life for these patients.

# What is the problem?

Care of the inflammatory bowel disease (IBD) patient presents unique challenges, as decisions regarding therapy must consider numerous distinct characteristics of each patient. Beyond the dichotomy between Crohn's disease (CD) and ulcerative colitis (UC), which may be difficult to ascertain in some patients, several distinct phenotypes exist within these diseases. IBD can be categorized by existing severity, location and extent, and potential for complications. It may be further categorized according to responsiveness to medical therapy. A number of individualized markers of disease, however, may allow for better prediction of response to therapy and disease course. Decisions for therapy must also be tailored to the comorbidities or risks of an individual patient, such as the risk of hepatosplenic T-cell lymphoma among men younger than 35 years.1 As such, IBD constitutes an opportunity for personalized medicine, and strategies should be tailored to maximize the success of the current treatment, minimize loss of response to therapy or relapses in the future, and address the risks associated with specific medications for given patients.

How did you assess and/or measure these issues?

How was the educational need/practice gap for this activity identified? Place an X by each source utilized to identify the need for this activity.

Attach copies of documentation for each source indicated (REQUIRED)

Duraniana a stining ( 1 (1 1)	Example of required document
Previous participant evaluation data	Copy of tool and summary data
Research/literature review	Abstract(s) or articles
x Expert Opinion	Summary
Target audience survey	Copy of tool and summary data
Regulatory body requirements	Requirements summary
Data from public health sources	Abstract, articles, references
Other (describe)	hat are the causes of the gaps in practice? Check all that apply
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Lack of familiarity with the guideline,	Inability to overcome the inertia of previous practice, and
Non-agreement with the recommendations,	Presence of external barriers to perform recommendations
Why does the gap exist? Check all that apply	T 1 C
Lack of Knowledge competence	Lack of time to assess or counsel patients
Performance-based.	Cost / Insurance/reimbursement issues
Lack of consensus on professional guidelines	Patient Compliance Issues
<ul> <li>Need to have a proper understanding of the natura</li> <li>Be knowledgeable of considerations in selecting the Aware of strategies to optimize short- and long-term</li> </ul>	herapy for patients with IBD
• Be knowledgeable of considerations in selecting the	herapy for patients with IBD
<ul> <li>Be knowledgeable of considerations in selecting the</li> <li>Aware of strategies to optimize short- and long-term</li> </ul>	herapy for patients with IBD rm response to medication in IBD
<ul> <li>Be knowledgeable of considerations in selecting the Aware of strategies to optimize short- and long-ter</li> <li>DF IR IN TREATMENT OF PROGRESSIVE PARKINSON'S DISEARCH</li> </ul>	herapy for patients with IBD rm response to medication in IBD
<ul> <li>Be knowledgeable of considerations in selecting the Aware of strategies to optimize short- and long-ter</li> <li>OF IR IN TREATMENT OF PROGRESSIVE PARKINSON'S DISEA</li> <li>hat are you trying to change?</li> <li>Patients at late stage Parkinson's disease (PD) develop sev quality of life. These complications include motor fluctuae dysautonomia, dementia, hallucinations, sleep disorders, of Dopamine replacement with levodopa was first shown to a [1], and since then has been the mainstay of PD treatment experience a narrowing of the therapeutic window, resultio off and parkinsonian symptoms re-emerge) and levodopa- and disability for patients and are difficult to treat [4,5]. "</li> </ul>	herapy for patients with IBD rm response to medication in IBD ASE - Dr. Sanjiv Parikh MD veral motor and nonmotor complications, which dramatically impair their tions, dyskinesia, unpredictable or absent response to medications, falls, depression, and psychosis. reduce clinical signs and symptoms of Parkinson's disease (PD) in the 1960s [2,3]. However, the majority of patients who respond to levodopa eventually ng in motor complications, including "Off" time (when medication has worm induced dyskinesias [2]. These complications can be a major source of distra
<ul> <li>Be knowledgeable of considerations in selecting the Aware of strategies to optimize short- and long-tere</li> <li>OF IR IN TREATMENT OF PROGRESSIVE PARKINSON'S DISE/</li> <li>hat are you trying to change?</li> <li>Patients at late stage Parkinson's disease (PD) develop sev quality of life. These complications include motor fluctuae dysautonomia, dementia, hallucinations, sleep disorders, or Dopamine replacement with levodopa was first shown to a [1], and since then has been the mainstay of PD treatment experience a narrowing of the therapeutic window, resultion off and parkinsonian symptoms re-emerge) and levodopa- and disability for patients and are difficult to treat [4,5]. "In functional impairment in patients with advancing PD [6–9]</li> </ul>	ASE - Dr. Sanjiv Parikh MD ASE - Dr. Sanjiv Parikh MD Veral motor and nonmotor complications, which dramatically impair their tions, dyskinesia, unpredictable or absent response to medications, falls, depression, and psychosis. reduce clinical signs and symptoms of Parkinson's disease (PD) in the 1960s [2,3]. However, the majority of patients who respond to levodopa eventually ng in motor complications, including "Off" time (when medication has worm induced dyskinesias [2]. These complications can be a major source of distre Off" time is of particular interest, as this is arguably the biggest contributor t

baseline. The mean ( $\pm$ SD) exposure to LCIG w reduced by a mean of 3.9 ( $\pm$ 3.2) h/day and "Or compared to baseline. For the 168 patients (87 complication of device insertion (21.4%), and (12.5%) patients discontinued, including 14 (7 results from this advanced PD cohort demonst	ns. Patients (average PD duration 12.4 yrs) were taking at least one PD medication at was 256.7 (±126.0) days. Baseline mean "Off" time was 6.7 h/day. "Off" time was n" time without troublesome dyskinesia was increased by 4.6 (±3.5) h/day at Week 12 7.5%) reporting any adverse event (AE), the most common were abdominal pain (30.7%), procedural pain (17.7%). Serious AEs occurred in 60 (31.3%) patients. Twenty-four 7.3%) due to AEs. Four (2.1%) patients died (none deemed related to LCIG). Interim rate that LCIG produced meaningful clinical improvements. LCIG was generally well- nplications, while generally of mild severity, were common. AC3661282/
How did you assess and/or measure these issues?	
activity. Attach copies of documentation for each source ind	activity identified? Place an X by each source utilized to identify the need for this licated (REQUIRED) ssment data and references that you highlight applicable components.
Method	Example of required document
Previous participant evaluation data	Copy of tool and summary data
Research/literature review	Abstract(s) or articles
X Expert Opinion	Summary
Target audience survey	Copy of tool and summary data
Regulatory body requirements	Requirements summary
Data from public health sources	Abstract, articles, references
Other (describe)	
<ul><li>cribe the needs of learners underlying the gaps in pra</li><li>What are the causes of the gaps in practice? Check</li><li>X Lack of awareness of the problem,</li></ul>	
X Lack of familiarity with the guideline,	Inability to overcome the inertia of previous practice, and
Non-agreement with the recommendations,	Presence of external barriers to perform recommendations
Other Why does the gap exist? Check all that apply	
X Lack of Knowledge competence	Lack of time to assess or counsel patients
Performance-based.	Cost / Insurance/reimbursement issues
Lack of consensus on professional guidelines	Patient Compliance Issues
Other:	
What do learners need to be able to know or do to b	be able to address the gaps in practice?
Explain your CME Objectives here The latest treatment for progressive Parkinson's dis	yease can be learning
Treatments of progressive Parkinson's disease. Understanding role of Dopa Gel pump via dedicate	d Gastrojejunostomy tube in treatment of Parkinson's disease
Understanding Efficacy of Dopa Gel RGETED THERAPIES IN NEUROLOGY - Leo Wang MI	D
-	
escribe the problems or gaps in practice this activity	will address:
What are you trying to change?	
Understanding genetic or molecular mechan	nism behind a specific disease and how the targeted therapy can achieve the goal previousl
not obtainable.	

Recent advances in the field of precision medicine has helped to improve outcome in the diseases such as hereditary amyloid neuropathy, spinal muscular atrophy, refractory autoimmune neurological conditions such as NMO, myasthenia gravis. What is the problem? Recent advances in disease treatment based on molecular / genetic level pathology Until now, treatment for diseases covered in today's discussion were primarily nonspecific or heavily symptomatic without any diseases modification or specific target towards the underlying disease mechanism. Even though existing treatments were unable to achieve some of the described goals, the success rate was less than satisfactory, or improvement was marginal. Significant number of cases were described as refractory with minimal or no treatment option. Some of the treatments, even being nonspecific, carried side effects and risks. How did you assess and/or measure these issues? How was the educational need/practice gap for this activity identified? Place an X by each source utilized to identify the need for this activity. Attach copies of documentation for each source indicated (REQUIRED) \* please make sure when selecting your needs assessment data and references that you highlight applicable components. Method **Example of required document** Previous participant evaluation data Copy of tool and summary data Research/literature review Abstract(s) or articles х х Expert Opinion Summary Target audience survey Copy of tool and summary data Regulatory body requirements Requirements summary Abstract, articles, references Data from public health sources Other (describe) Describe the needs of learners underlying the gaps in practice: What are the causes of the gaps in practice? Check all that apply x Lack of awareness of the problem, Poor self-efficacy, x Inability to overcome the inertia of previous practice, and Lack of familiarity with the guideline, Non-agreement with the recommendations, Presence of external barriers to perform recommendations х Other Why does the gap exist? Check all that apply Lack of Knowledge competence Lack of time to assess or counsel patients Performance-based. Cost / Insurance/reimbursement issues Lack of consensus on professional guidelines Patient Compliance Issues Other: New era of medicine with no prior treatment. х What do learners need to be able to know or do to be able to address the gaps in practice? Explain your CME Objectives here. A better understanding can me achieved by -Discuss Basic Pathology behind disease -Describe Therapeutic development based on pathology Analyze Cost and efficacy of treatment

#### MAKING A DIFFERENCE IN DIABETES: EVALUATING ETIOLOGY AND FACING FEARS AND FALSEHOODS - Janet Leung MD

## Describe the problems or gaps in practice this activity will address: What are you trying to change?

The prevalence of diabetes worldwide is predicted to increase by 69% in adults in developing countries between 2010 and 2030. 1 Between 2010 and 2030, diabetes prevalence is expected to increase by 72% in India, from 7.6% to 9.1%, with an estimated 87 million diabetic adults by year 2030

1. Data from the U.S. National Health Interview Survey from 1997–2008 showed that age- and sex-adjusted prevalence of type 2 diabetes in the U.S. was higher in Asian Americans (4.3-8.2%) than in whites (3.8-6.0%) and most notably, Asian Indians had the highest odds of diabetes

2. A population-based study of U.S. Asian Indians found diabetes prevalence in adults was 17% compared to 8% in non-Hispanic whites, 13% in non-Hispanic blacks, 10% in Hispanic Latinos and 15% in Native Americans/Alaskan natives

3. Dampening the spread of diabetes across the South Asian population has significant health and economic implications.

This increasing prevalence of diabetes in South Asians is multifactorial – due to both biologic and lifestyle factors, with urbanization and immigration playing a large role. South Asians have increased visceral adiposity and insulin resistance, impaired  $\beta$ -cell function, and a genetic predisposition to diabetes which culminates in a markedly increased risk of diabetes.

4. Additionally, urbanization across Asia is leading to decreased physical activity, increased intake of dietary fats and processed foods and increased mental stress which amplify the effects of insulin resistance and abdominal obesity.

#### What is the problem?

Asians have an increased incidence of CAD and cerebrovascular disease but a lower incidence of PAD, which is not entirely understood. In terms of microvascular complications, compared to Caucasians, South Asians have an increased incidence of retinopathy and nephropathy but a lower incidence of neuropathy which is also not well understood. Research is underway to understand the biologic mechanisms and genetic polymorphisms that are playing a role in the development of these diabetes complications. Given the great economic and health burden of diabetes and its complications in South Asians, the focus should be on prevention. Lifestyle modification and metformin therapy have been proven to prevent or delay diabetes in South Asians. Several ongoing studies are investigating the effectiveness of different culturally appropriate lifestyle interventions. 159–161 We are optimistic that the results of these studies will help to foster changes in public health and health policy and thereby help to reduce the incidence of diabetes and its complications in the South Asian community worldwide.

## How did you assess and/or measure these issues?

How was the educational need/practice gap for this activity identified? Place an X by each source utilized to identify the need for this activity.

Attach copies of documentation for each source indicated (REQUIRED)

	Me	thod	Example of required document
	X	Previous participant evaluation data	Copy of tool and summary data
		Research/literature review	Abstract(s) or articles
	х	Expert Opinion	Summary
		Target audience survey	Copy of tool and summary data
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		Other (describe)	
Desc	ribe	the needs of learners underlying the gaps in practice:	
	What are the causes of the gaps in practice? MAKING A DIFFERENCE IN DIABETES: EVALUATING ETIOLOGY AND FACIN		E IN DIABETES: EVALUATING ETIOLOGY AND FACING
	FEARS AND FALSEHOODS		
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	Non-agreement with the recommendations,	Presence of external barriers to perform recommendations
	Other	· · ·
Wh	y does the gap exist? MAKING A DIFFERENCE IN D	IABETES: EVALUATING ETIOLOGY AND FACING FEARS AND
FA	LSEHOODS	
Х	Lack of Knowledge competence	Lack of time to assess or counsel patients
	Performance-based. Lack of consensus on professional guidelines	Cost / Insurance/reimbursement issues Patient Compliance Issues
	Other:	
Wh	at do learners need to be able to know or do to be able to	o address the gaps in practice?
		01 1
Cor Dise	cuss when to consider evaluating for T1DM in adult ons	lations differ from US (with majority Caucasian ethnicity) set diabetes, T2DM in childhood onset diabetes, and pancreatic (Type 3c) diab re about T1DM and T2DM and how that can affect management
ANNING	G FOR THE WORST: CODE STATUS, POLST, AND ADVAN	ICE CARE PLANNING - Hope Wechkin, MD
Docoribo	the problems or gong in practice this activity will addre	
	the problems or gaps in practice this activity will addre at are you trying to change?	əə.
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Wh	will examine different combinations of choices on the directives for dementia care. at is the problem? Ideally all patients with a limited life expectancy, or w	cuments, as well as some nuances that arise in these complex discussions. We POLST form, when they might be clinically appropriate, and will discuss adva
Wh	<ul> <li>will examine different combinations of choices on the directives for dementia care.</li> <li>at is the problem?</li> <li>Ideally all patients with a limited life expectancy, or w because of age, advanced illness, or both will have lend-of-life care. And all physicians will be equipped t care as indicated on the POLST form will be both read understanding of the difference between palliative care directing their patients toward the system of care for w</li> </ul>	cuments, as well as some nuances that arise in these complex discussions. We POLST form, when they might be clinically appropriate, and will discuss adva hose death would not be surprising should it occur in the next year either had discussions with their surrogate decision makers regarding their wishes for o facilitate these discussions at a basic level. Preferences regarding end-of-life lily accessible and routinely checked. Medical providers will have a clear e and hospice care, and preferences indicated on the POLST form aid them in thich they are medically eligible and is in alignment with goals of care.
Wh	<ul> <li>will examine different combinations of choices on the directives for dementia care.</li> <li>at is the problem?</li> <li>Ideally all patients with a limited life expectancy, or w because of age, advanced illness, or both will have lend-of-life care. And all physicians will be equipped t care as indicated on the POLST form will be both read understanding of the difference between palliative care directing their patients toward the system of care for w In addition, advance care planning will be incorporated</li> </ul>	cuments, as well as some nuances that arise in these complex discussions. We POLST form, when they might be clinically appropriate, and will discuss adva hose death would not be surprising should it occur in the next year either had discussions with their surrogate decision makers regarding their wishes for o facilitate these discussions at a basic level. Preferences regarding end-of-life lily accessible and routinely checked. Medical providers will have a clear e and hospice care, and preferences indicated on the POLST form aid them in which they are medically eligible and is in alignment with goals of care. d into office visits of both primary and specialty providers, and these providers sully, patients will never be given POLST forms to complete on their own with

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Other:	I
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	lress the gaps in practice?
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better understanding by learning ptions for care in section B of the POLST form based on	location of care.
	location of care. cardiac arrest.

Usha M Reddy Usha M Reddy MD Executive Director Washington Association of Physicians of Indian Origin Email: admin@wapiusa.com Phone: 425 301-6317

WAPI, an organization that is driven by the consensus of its members that has the following mission:



To provide an umbrella organization to bring together American Physicians, Dentists and Allied Healthcare Professionals of Indian Origin, defining Indian in the broad sense of Indian Ancestry; to provide a conduit to strive to be an exemplary strong ethnic group of professionals with a mission to serve the community by their expertise, cultural heritage and charitable work; to provide high educational and social services to its members. We envision this to be a collegial organization with actively participating members, who believe in its mission and are willing to further its cause.