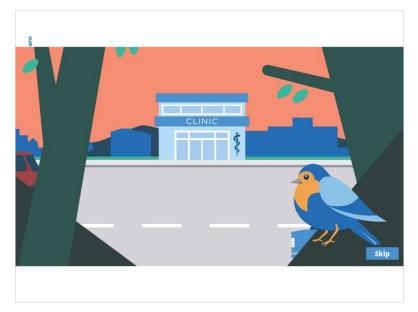
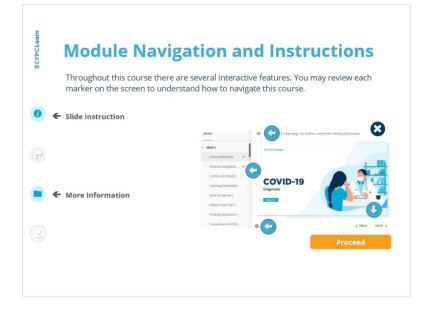
# Case 29\_Michelle Reblok

# **1. Conflicts**

#### 1.1 Intro Video



1.2 Module Navigation and Instructions

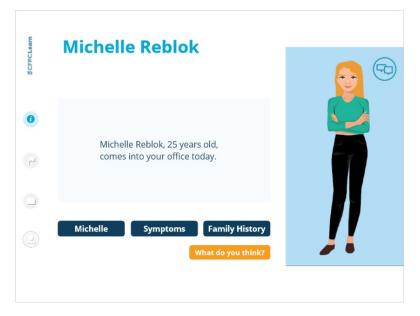


## 1.3 Learning Objectives

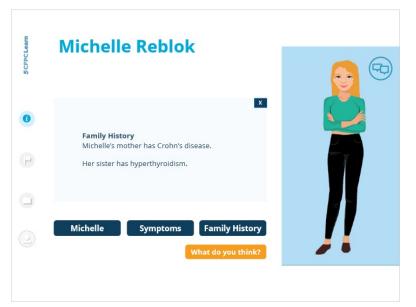
Learning Objectives
At the end of this module participants should be able to:
<ol> <li>Identify key factors/findings in family medicine to help establish common clinical diagnoses.</li> </ol>
<ol> <li>Evaluate best evidence/guidance and practice tools to determine preferred treatment options for patients.</li> </ol>
<ol><li>Synthesize patient preference, evidence and experience to formulate comprehensive plans for patient cases.</li></ol>
Approximately 15 minutes to complete each patient case.
Proceed

## 2. Michele Reblok

#### 2.1 Meet Michelle Reblok



## Family History (Slide Layer)



## Symptoms (Slide Layer)

ØCFPCLearn	Michelle Reblok	<b>E</b>
•	X Symptoms When not feeling well, Michelle's bowel movements change from 1 to 5 urgent bowel movements per day. She also may go 2-3 days without bowel movements. Her symptoms seem to be worse during her university exams.	
0	Michelle Symptoms Family History What do you think?	<u>]</u> ]

#### Michelle (Slide Layer)

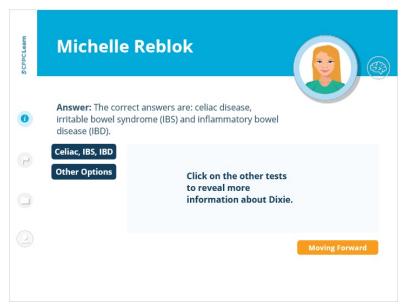


## 2.2 Question

(Multiple Response, 10 points, 1 attempt permitted)

SCFPCLearn	What would be in your differential for her symptoms?	
	Soloct all that apply	
i	Select all that apply.	
	Colorectal cancer	
2	Irritable bowel syndrome	
	Hyperthyroidism	
	Inflammatory bowel disease	
	Celiac disease	
		Submit
		Submit

## 2.3 Michelle Reblok



## **Other Options (Slide Layer)**

& CFPC Learn	Michelle	Reblok
0		ect answers are: celiac disease, ndrome (IBS) and inflammatory bowel
P	Celiac, IBS, IBD Other Options	<ul> <li>Approximately 90% of colorectal cancer occurs in patients over 50 years old (median age: 66 years). It is even more unlikely if there is no family history consistent with Lynch Syndrome or familial adenomatous polyposis.</li> <li>Hyperthyroidism presenting as only GI symptoms is uncommon.</li> </ul>
		Moving Forward

# Celiac (Slide Layer)

	Michell	e Ker	DIOK			
	Answer: The co irritable bowel s				owel	
3	disease (IBD).	Disease	Prevalence	Typical age of diagnosis	Sex	Risk if family history present
	Other Options	IBS	~10%	18-34 years	Female, mostly	Increases by variable amount
		Celiac	~1%	Variable	Relatively equal	~7-10% for siblings and offspring
		IBD	0.7%	Bimodal peak: 20's, 50's	Relatively equal	5-10%: greater influence in Crohn's disease than ulcerative colitis

## 2.4 Meet Lamis Abad

&CFPCLearn	Michelle Reblok	<b>D</b>
•	You ask Michelle to further elaborate on her symptoms.	
	Michelle You Michelle Responds What do you think?	<u> </u>

#### **Michelle Responds (Slide Layer)**



## You (Slide Layer)

& CFPCLearn	Michelle Reblok	<b>•</b>
•	You "Does the pain ever wake you up from sleeping?"	
0	Michelle You Michelle Responds	
	What do you think?	•

#### Michelle (Slide Layer)

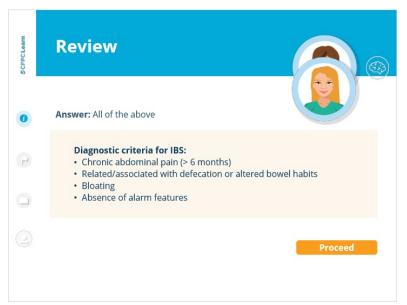


## 2.5 Question

(Multiple Response, 10 points, 1 attempt permitted)

SCFPCLearn	Which of Michelle's symptoms are consistent with irritable bowel syndrome?
0	Select all that apply.
P	Pain is associated with defecation           Altered bowel habits
0	Absence of alarm symptoms (weight loss, nocturnal symptoms, rectal bleeding)
	All of the above
	Length of time symptoms have been present
	Submit

## 2.6 Question Review



## 2.7 Michelle Reblok

& CFPCLearn	Michelle Reblok	
•	You have a few more questions for Michelle.	
2	You Michelle Physical Exam What do you think?	<u>]</u>

## Family History (Slide Layer)



## Physical Exam (Slide Layer)

& CFPCLearn	Michelle Reblok	<b>E</b>
•	<ul> <li>Physical Exam (Objective):</li> <li>Healthy looking female</li> <li>Height: 170 cm, weight: 65 kg (no change), BMI=22</li> <li>Abdominal exam: generalized tenderness; no guarding, rebound or masses felt</li> </ul>	
0	You Michelle Physical Exam What do you think?	<u>]</u> ]

## Michelle (Slide Layer)

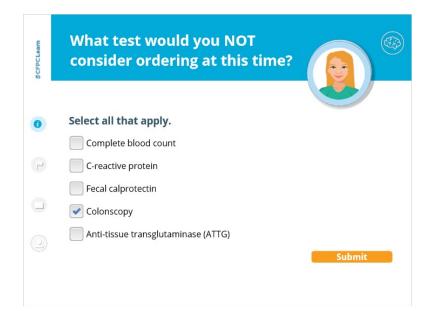


## You (Slide Layer)

SCFPCLearn	Michelle Reblok	
•	You "Michelle, have you noticed any weight loss or bleeding when you have a bowel movement?"	
	You Michelle Physical Exam What do you think?	

## 2.8 Question

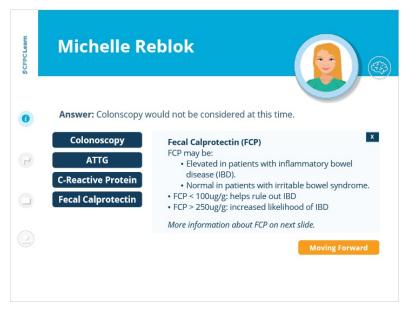
(Multiple Response, 10 points, 1 attempt permitted)



### 2.9 Answer review

ØCFPCLearn	Michelle Re	eblok
0	Answer: Colonscopy w	ould not be considered at this time.
•	Colonoscopy ATTG C-Reactive Protein Fecal Calprotectin	Click on the other tests to reveal more information about Dixie.
		Moving Forward

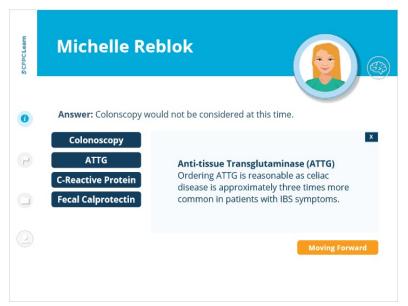
#### Fecal Calprotectin (Slide Layer)



#### **C-Reactive Protein (Slide Layer)**

& CFPCLearn	Michelle Reblok		
0	Answer: Colonscopy wo	uld not be considered at this time.	
2	ATTG C-Reactive Protein Fecal Calprotectin	<b>C-Reactive Protein (CRP)</b> CRP is a general inflammatory marker. While not specific, a negative (i.e., normal) result will reassure that the condition is unlikely inflammatory.	
		Moving Forward	

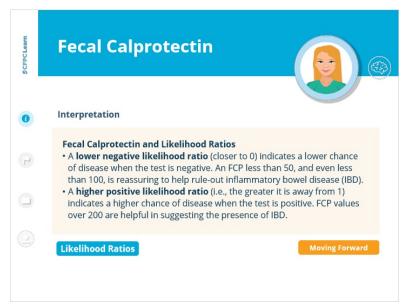
#### ATTG (Slide Layer)



#### **Colonoscopy (Slide Layer)**

& CFPCLearn	Michelle Reblok		
0	Answer: Colonscopy wo	ould not be considered at this time.	
2	Colonoscopy ATTG	Colonscopy Testing in young people without alarm features: minimal likelihood of organic findings.	
0	C-Reactive Protein Fecal Calprotectin	A large primary care cohort of ~6000 patients with undifferentiated disease at 6 months found the diagnosis was irritable bowel syndrome for 32% and irritable bowel disease for 3.5%.	
		Moving Forward	

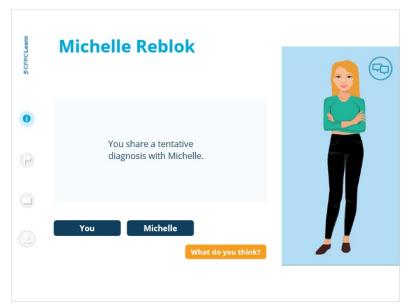
#### 2.10 Question Review



#### Likelihood Ratios (Slide Layer)

Fecal	Calpro	tectin		
Interpretat	ion			
FCP Result (ug/g)	Sensitivity	Specificity	Likelihood ratio: Positive	Likelihood ratio: Negative
50	93	62	2.4	0.1
100	86	77	3.7	0.2
250	62	90	6.2	0.4
Likelihood	Destina			Moving Forward

## 2.11 Michelle Reblok



# Michelle (Slide Layer)

SCFPCLearn	Michelle Reblok	<b>D</b>
•	X Michelle "I read about that online and some scary ones too. I hope you are testing for those? Is there anything to do in the meantime? This sucks."	
0	You Michelle What do you think?	ļ

#### You (Slide Layer)

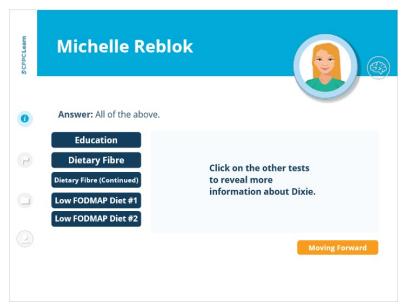


## 2.12 Question

(Multiple Response, 10 points, 1 attempt permitted)

SCFPCLearn	What would you consider for her initial treatment(s)?	
0	Select all that apply.	
	Dietary fibre	
P	Low FODMAP Diet	
	Education about IBS and reassurance	
	All of the above	
0	Education, reassurance and low FODMAP diet only	
	_	Submit

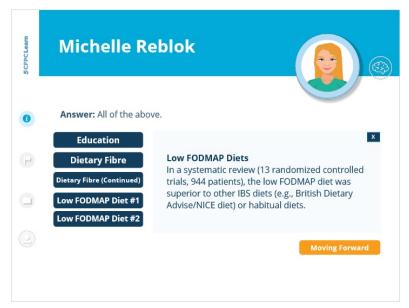
#### 2.13 Review answer



#### Low FODMAP Diet - Contd (Slide Layer)

ØCFPCLearn	Michelle Reblok		
0	Answer: All of the above	ve.	
4	Education Dietary Fibre	Low FODMAP Diets (Continued)     FODMAPs was ranked first in overall	
0	Dietary Fibre (Continued) Low FODMAP Diet #1	<ul><li>improvement, pain and bloating. It was effective primarily for diarrhea-subtype IBS.</li><li>This review had limitations: short studies (mostly less than 4 weeks duration), none in primary care,</li></ul>	
	Low FODMAP Diet #2	risk of publication bias. Moving Forward	

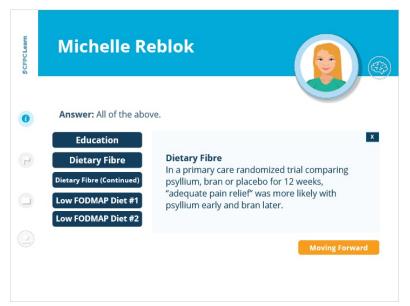
#### Low FODMAP Diet (Slide Layer)



#### **Dietary Fibre - Contd (Slide Layer)**

& CFPC Learn	Michelle Reblok		
0	Answer: All of the above.		
2	Education Dietary Fibre Dietary Fibre (Continued)	× Dietary Fibre (Continued) In a primary care randomized trial comparing psyllium, bran or placebo for 12 weeks, "adequate pain relief" was more likely with	
0	Low FODMAP Diet #1	psyllium early and bran later. Moving Forward	

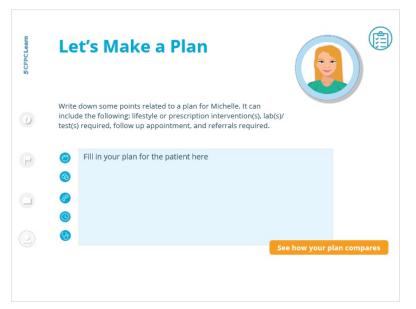
#### **Dietary Fibre (Slide Layer)**



#### **Education (Slide Layer)**

SCFPCLearn	Michelle Reblok		
0	Answer: All of the above	<u>×</u>	
	Dietary Fibre Dietary Fibre (Continued) Low FODMAP Diet #1 Low FODMAP Diet #2	<b>Education</b> Providing education on a patient's condition and reassurance is almost always reasonable.	
		Moving Forward	

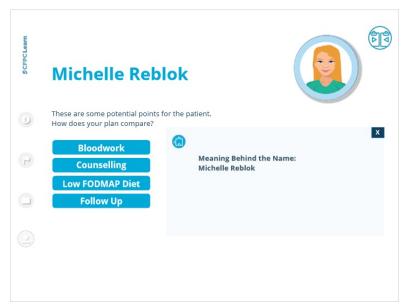
## 2.14 Let's Make a Plan



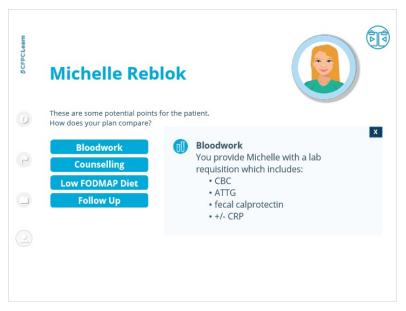
#### 2.15 Plan Answers

CFPCLearn	Michelle Reblok These are some potential points for the patient. How does your plan compare?	
	Bloodwork Counselling Low FODMAP Diet Follow Up	Click on the buttons to see suggested answers

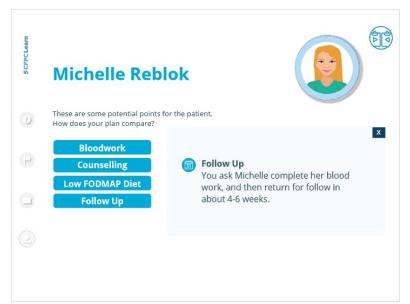
#### Name (Slide Layer)



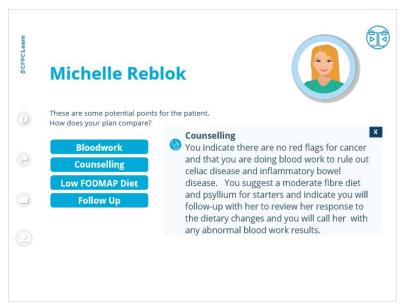
#### **Bloodwork (Slide Layer)**



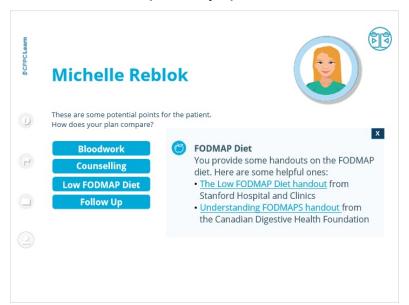
#### Follow Up (Slide Layer)



#### **Counselling (Slide Layer)**



#### Low FODMAP Trial (Slide Layer)



## 2.16 References

