

Cardiovascular Risk Assessment in People with Rheumatoid Arthritis

Performance Improvement in an Office-Based Practice

FINAL REPORT April 25, 2015

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Executive Summary

This multispecialty educational and quality improvement initiative was designed for rheumatologists and primary care providers (MDs and NPs) and their clinical and office staff members in an effort to improve rates of cardiovascular risk screening for people with rheumatoid arthritis (RA) who have an increased risk of developing cardiovascular disease.

The intervention began with baseline data measurement of risk factor screening in the population of patients seen by rheumatology providers from Florida Medical Clinic, a single practice network in Tampa, Florida. Baseline data was shared with both the rheumatologists and the primary care providers in the practice at a live CME workshop. Based on these baseline data, as well as a guided self-assessment of office processes in both the rheumatology and primary care offices, physicians assessed performance gaps and reviewed effective strategies to improve screening and system processes. After participating in targeted educational interventions and quality improvement training, the rheumatologists, in coordination with primary care providers, aimed to increase cardiovascular screening rates in people with RA and improve corresponding clinical measures (specifically glycemic control, blood pressure, lipids, and smoking.). A subsequent measurement examining both screening rates and improvement in measurable risk factors was performed to help providers assess their success in meeting their quality improvement goals and identifying areas for continuous quality improvement. The project was done in conjunction with Humedica, a clinical data aggregation and informatics company that works with Florida Medical Clinic on a broader scale. Humedica provided all clinical data used for the practice such that individual chart audits were not required.

Results

The project was successful at educating primary care providers and rheumatologists in this practice on novel methods to address and overcome practice barriers with regards to managing cardiovascular risk in patients with RA. The providers learned how to implement a QI project to address this key issue. However, review of performance and clinical metrics from baseline to the follow up period (about 1 year later) showed only modest (<10%) increase in diabetes and cholesterol screening in patients with RA who did not have diabetes. Diabetes was the most common CAD risk factor not screened for on an annual basis among those without diabetes. Rates of screening of CAD risk factors were high for RA patients with diabetes. The proportion of patients with RA at target for diabetes control, cholesterol and blood pressure did not change much between the baseline and follow up period.

Although the original scope of the project included engaging two practice networks that contained 50 PCPs and 5 Rheumatologists each, we were only able to engage and successfully facilitate one practice—Florida Medical Clinic—through the entire project. We sought to overcome the barrier of aggregate data collection, which required direct involvement of the providers, by using partner informatics company Humedica to provide all data. In the end this actually contributed to limiting the pool of eligible practices, and recruitment of a second practice was not achieved during the allotted timeline.

Project Outline

Target Audience

Rheumatologists and Primary Care Providers and their office staff

Project Goals

- Identify the degree to which CVD risk factors are unmeasured and/or untreated in people with RA in your practices.
- Improve the working relationship between PCPs and Rheumatologists as it relates to comanaging patients with RA.
- Develop PCPs' and rheumatologists' skills to screen for and treat CVD risk factors in people with RA.
- Increase the frequency with which CVD risk factor screening and treatment are performed in people with RA.
- Improve communication and coordination of care between PCPs and rheumatologists around CVD risk factor screening and treatment for people with RA.
- Implement techniques for improved CVD risk factor screening and treatment for people with RA.
- Introduce training tools to improve team-based care.

Learning Objectives

- Describe methods for screening cardiometabolic risk that would be appropriate for use in people with Rheumatoid Arthritis (RA).
- Develop and implement office-based systems for screening for and documentation of cardiometabolic risk factors in RA patients.
- Summarize the role of cardiovascular risk factors in morbidity and mortality in patients with rheumatoid arthritis.
- Identify barriers within the practice and across the consultative care system, to improve timely screening of cardiometabolic risk in people with RA.
- Select goals to improve team-based identification and intervention to treat cardiometabolic risk in people with RA.

Outcomes Hypothesis

The intervention will increase the frequency of complete cardiovascular screening for people with RA (identified by ICD-9 code) over a 6-month period.

- A complete screening will include the factors needed to calculate a modified Framingham risk score: age, gender, smoking status, diabetes status, total cholesterol (TC), HDL cholesterol (HDL-C), LDL cholesterol (LDL-C), blood pressure, and presence or absence of blood pressure medications.
- For the screening to be considered complete, all elements must have been completed within the past 13 months.

Overall Project Milestones and Timeline

Task	Deliverable	Actual Date
Planning and partner engagement	Execute signatures to business	Jan-Jul 2013
meetings	agreements. Initiative and develop	
	comprehensive project plan.	
Enroll selected practices	List of practices and providers	Jul 2013
Collect and analyze pre-	Data summary tables by practice and	Aug 2013
intervention (baseline) data	provider	
Set workshop date(s)	Schedule workshops with practices.	Aug 2013
	Finalize meeting logistics.	
Development of workshop	Design, develop, produce and launch	Aug-Sep 2013
materials, online PI CME module	all PI materials.	
with eMonograph and Joslin		
CareKit™ materials		
Host Diamond Workshops	Joslin to conduct workshops specific	Sep 18, 2013
	to each practice/system	
Report on participation,	Outcomes Report: Competence	Oct 2013
satisfaction and competence of		
workshop attendees		
Practices implement PI-CME	PI-CME plan for each provider or	Feb-June 2014
projects	practice	
Post-activity survey sent to		Omitted
workshop participants		
Report on workshop effectiveness	Outcomes Report: Performance	Omitted
Comparison data collection		Jul-Aug 2014
Synthesize and analyze post-	Pre- and post-intervention data	Sep-Nov 2014
intervention data	summary tables by practice and	
	provider	
Development of post-intervention	Workshop agenda, slide sets	Nov 2014
workshop materials		
Post-intervention workshop(s)	Workshop(s) completed	N/A; Practice leader held
		internal mtg
Summarize findings of intervention	Final Outcomes Report	Mar 2015
Present findings at internal QI	Presentation slide sets, article	No plans to submit for
meetings (Humedica and other	submitted to a peer-reviewed journal	publication
partners); prepare article for		
journal submission		

Project Timeline for the Practice

Task	Time Commitment	Date
Participate in live CME workshop	4 - 5 hours	September 2013
View baseline data report & choose goals	20 minutes	September 2013
Complete 1 CME activity (online)	1 hour	Feb- March 2014

Implement practice improvement plan	(non-additive)	January – March 2014
Review follow-up data report	15 minutes	October 2014
Complete program evaluation	10 minutes	October 2014

Patient Inclusion Criteria & Key Outcome Metrics

Patient Inclusion Criteria

- At least 1 visit with a PCP or rheumatologist with an RA diagnosis in the last year
- AND at least 1 visit with a rheumatologist within the last year
- AND at least 2 total visits with PCP WITHIN the last 18 months
- AND age 18-79 at last visit

Performance Metrics to Assess CVD Risk

- Body Mass Index
- Glucose and fasting glucose levels
- HgLDL, HDL & Total Cholesterol
- Systolic Blood Pressure & Diastolic Blood Pressure
- Smoking status
- A1c

Comorbidity Measures (From ICD 9 Codes)

- Diabetes Mellitus (DM) Dx
- Coronary Artery Disease (CAD) Dx
- Hypertension (HTN) Dx
- Hyperlipidemia (HYPLIP) Dx

Screening Criteria

Diabetes Screen: Any of the following tests done in the last 12 months. If none of these tests were resulted in the chart, it was assumed that the patient was not screened for diabetes during the time period.

- A fasting plasma glucose (FPG) level of 126 mg/dL (7.0 mmol/L) or higher, or
- A 2-hour plasma glucose level of 200 mg/dL (11.1 mmol/L) or higher during a 75-g oral glucose tolerance test (OGTT) or
- A hemoglobin A1c (HbA1c) level of 6.5% of higher

Hyperlipidemia: Total cholesterol measured in the last 12 months **Hypertension:** Blood pressure measured in the last 12 months

Obesity: BMI or waist circumference measured in the last 12 months

Smoking: Documentation of smoking status

Florida Medical Clinic Practice Overview

Florida Medical Clinic (FMC) is a multi-specialty practice with 14 office locations in the Tampa area. The Primary Care department consists of 78 providers over all locations: 53 physicians and 25 other clinical staff (PAs, NPs, nurses). There are 4 rheumatologists in the network.

44 members of the Florida Medical Clinic practice attended the live CME Diamond Workshop on September 18, 2013 in Tampa. Evaluation forms were received from 32 participants: 20 physician primary care providers and 3 rheumatologists, along with 9 clinical and office support staff.

A summary of the practice demographics is below.

Provider demographics

Label	Frequency	Percent
MD/DO	23	71.88
Nurse Practitioner	5	15.63
Physician Assistant	1	3.13
Nurse	2	6.25
DPM	0	0.00
Dietitian	0	0.00
Pharmacist	0	0.00
CDE	0	0.00
Other	1	3.13
Total Valid	32	100.00

Medical specialty

Label	Frequency	Percent
Family/General Medicine	15	46.88
Internal Medicine	11	34.38
Rheumatology	4	12.50
Other	2	6.25
Total Valid	32	100.00

Number of years in practice since graduation

Label	Frequency	Percent
< 10	10	31.25
10-20	12	37.50
21-30	8	25.00
> 30	2	6.25
Total Valid	32	100.00

Practice setting

Label	Frequency	Percent
Private office	26	81.25
Inpatient hospital	0	0.00
Outpatient	3	9.38
hospital/clinic		
Other	2	6.25
Total Valid	31	96.88
Total Missing	1	3.13
Total	32	100.00

Size of current practice

Frequency	Percent
0	0.00
16	50.00
4	12.50
11	34.38
31	96.88
1	3.13
32	100.00
	0 16 4 11 31

Providers were primarily internal medicine or family practice doctors who worked in private office settings, in small groups. Most of them have been practicing medicine for at least 10 years.

Providers included in the practice data analysis

Practice-wide data analysis included providers who had at least 10 patients with RA in their panel. Each provider also obtained a report of their own RA patients. *Note: The patient inclusion criteria* significantly reduced the number of eligible providers who could be included in the PI study. However, all interested providers were encouraged to attend the diamond workshop and utilize the educational materials.

	Baseline	Follow Up
Primary Care Providers	16	16
Rheumatologists	4	4
# Patients Reached	309	326

Patient Demographics

Patient data on important clinical measures related to assessment of CV risk in patients with RA in the practice were collected and analyzed at baseline and at follow up. The baseline data was designed to be used by providers to identify gaps in performance and to select goals and develop quality improvement plans based on the gaps. Participants were encouraged to review recommended educational interventions to help them achieve their goals.

RA patients (Managed and shared by 16 PCPs and 4 Rheumatologists)

Demographics	Baseline	Follow Up
Number of patients	309	326
Mean age (yrs)	64.7	64.9
Gender – female/male	F 77% / M 23%	F 76% / M 24%
Average BMI	30.7	30.7

Percent of RA patients with CAD or comorbid conditions that increase risk of CAD

	Baseline N=309	Follow Up N=326
Comorbid Disease	Patients (%)	Patients (%)
Type 2 Diabetes	29%	32%
Coronary Artery Disease	23%	24%
Hypertension	72%	73%
Hyperlipidemia	78%	80%

RA patients in this practice were predominantly middle-aged women. About a quarter of them had coronary artery disease already and a third had diabetes.

Rates of hypertension and hyperlipidemia were very high in this population as well. It is this high prevalence of multiple cardiovascular risk factors that puts them at increased risk for primary and secondary cardiovascular events.

Educational Interventions

Live Diamond Workshop

A 5-hour quality improvement training session was held for the Florida Medical Clinic practice on September 18, 2013 to bring together community-based Rheumatologists, PCPs and their office staff. It was interactive, case-based, and provided the opportunity for practice-systems discussions. Participants were instructed on the steps of Performance Improvement (PI) CME and guided to select goals for the entire practice to work on during the course of the project.

General Session

Time (pm)	Description	Presenter	
4:00 - 4:10	Introduction and Program Objectives	Sherlyn B. Celone	
4:10 - 4:20	Project Overview – Why Are We Here?	Ruth Hertzman-Miller, MD, MPH	
4:20 – 4:55	The Relationship Between Arthritis and	Vib Chana Lin MD	
4.20 - 4.55	Cardiovascular Risk	Yih Chang Lin, MD	
4:55 – 5:30	Cardiometabolic Syndrome and Clinical	Om Canda MD	
4:55 – 5:30	Challenges: Management in Patients with RA	Om Ganda, MD	
5:30 - 5:45	Case Presentation	Ruth Hertzman-Miller, MD, MPH	

5:45 – 6:00 Dinner Break in Main Session Room

Breakout Sessions

Di cultout oct		
Time (pm)	Specialist Room	Primary Care (w/ Office Staff) Room
	Cardiometabolic Lecture: Risk Stratification	Managing Rheumatoid Arthritis in
6:00 - 6:30	and Treatment in RA Patients	Primary Care: What You Need to Know
	Om Ganda, MD	Helen Bateman, MD
	Interpreting Baseline Data:	Interpreting Baseline Data:
6:30 – 6:45	Practice Self-Assessment Workshop	Practice Self-Assessment Workshop
	Patricia J. Bonsignore, MS, RN, CDE and	Practice Self-Assessment Workshop AS, RN, CDE and Ruth Hertzman-Miller, MD, MPH and Yih Chang Lin, MD The Role of the Primary Care Physician
	Helen Bateman, MD	Yih Chang Lin, MD
	The Bala of the Bhoumatalasist and BCB in	The Role of the Primary Care Physician
	The Role of the Rheumatologist and PCP in	and The Rheumatologists in CVD Risk
6:45 – 7:15	CVD Risk Assessment (Case Handout)	Assessment (Case Handout)
	Patricia J. Bonsignore, MS, RN, CDE and Helen Bateman, MD	Ruth Hertzman-Miller, MD, MPH and
		Yih Chang Lin, MD

Workshop (Main Room - All)

Time (pm)	Description	Presenter
7:15 – 8:00	Improving Care Coordination for your	Leader: Ruth Hertzman-Miller, MD, MPH
7.15 - 8.00	Patients with RA: What Works, What Doesn't	and all Faculty/ Participants engage

8:00 – 8:55	Selecting Practice Goals and Developing Your QI Plan For Managing CV Risk Factors in Patients With RA	Sherlyn B. Celone and Patricia J. Bonsignore, MS, RN, CDE
8:55 – 9:00	Discussion of Next Steps and Activity Assessment	Sherlyn B. Celone

Interactive E-monograph

Joslin faculty along with other subject matter experts developed an engaging pdf monograph containing

elements where learners are able to click and interact within the actual document. The e-monograph focused on the following key topics:

- The relationship between rheumatoid arthritis and cardiovascular risk
- Cardiometabolic risk assessment: An overview of the process
- Rheumatoid Arthritis for the primary care provider:
 What these clinicians should know about this condition
- How to coordinate care between primary care providers and rheumatologists to optimize cardiometabolic screening
- Interactive Case: A patient with RA without known CVD or previously identified CV risk factors, shared between a primary care provider and a rheumatologic specialist.

Managing Cardiovascular Risk Assessment in People with Rheumatoid Arthritis

Rheumatoid Arthritis

Rheumatoid adular (RA) a successed with annexed oith for control of the control of the

The monograph is included in this report as Appendix 1.

Joslin CareKit™

Tools and resources were developed to support the physician and practice in providing cardiovascular screening for people with RA:

- Counseling Patients on Reducing Complications of Cardiac Disease in Rheumatoid Arthritis
- Counseling Patients with RA about Physical Activity
- Counseling Patients with RA about Weight Loss
- Monitoring Blood Pressure at Home
- Why Lowering Cholesterol is Important
- Flow Sheet
- Building a Metabolic Syndrome Registry among Patients with RA
- Measuring Blood Pressure in Adults

Performance Improvement Coaching

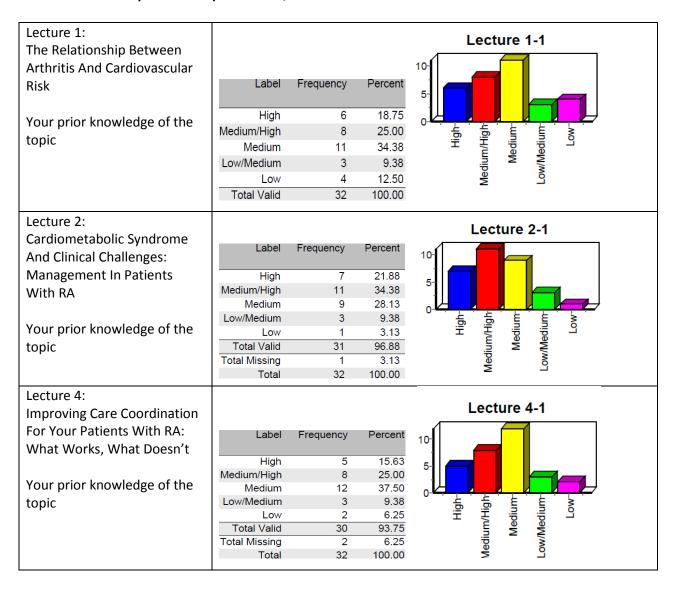
We planned from the outset of the initiative to integrate a role called the 'Practice Champion', to serve as the practice's main point of contact for the project. In addition to facilitating the providers through all stages of the project, the Practice Champion also assisted with further practice recruitment efforts.

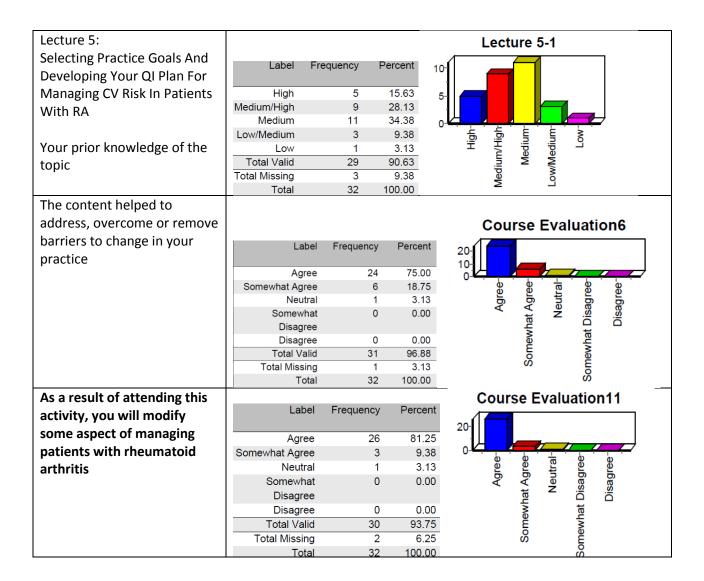
The relationship was established by securing the engagement of FMC practice leadership through a series of orientation calls. From that point the Practice Champion was involved in every step of the project, also traveling to Tampa to participate as faculty in the Diamond workshop. She then tracked members of the practice through the educational interventions and invested significant time in sending customized reminders to each provider at each step in the process.

Outcomes

Level 4: Self-Reported Intent-to-Change

Diamond workshop held on September 18, 2013





If you do plan to modify	Label	Frequency	Percent
patient management as a result of attending this activity, which aspects of your practice do you intend to change?	Apply more effective methods for screening cardiometabolic risk that would be appropriate for use in people with Rheumatoid Arthritis {RA}	21	65.63
	Develop and implement more efficient office-based systems for screening for and documentation of cardiometabolic risk factors in RA patients	18	56.25
	More effectively identify barriers within the practice and across the consultative care system for timely screening of cardiometabolic risk in people with RS	13	40.63
	Improve team-based identification and intervention to treat cardiometabolic risk in people with RA	17	53.13
	Other	2	6.25
	Total Valid	30	93.75
	Total Missing	2	6.25
	Total	32	100.00

Only about 50% of participants reported medium-high to high prior knowledge about the relationship between arthritis and cardiovascular risk and how to manage cardiovascular risk in patients with RA. Even fewer had superior knowledge about effective methods to improve care coordination for RA patients and how to select practice goals and develop a QI plan for managing CV risk in patients with RA. Most of the participants reported that attending the activity helped to address, overcome or remove barriers to change in their practice. Most of them identified specific areas where they planned to make modifications. They felt that the clinical topics were very relevant to their practice and were highly satisfied with the quality of the lectures, case presentations and breakout sections. The entire evaluation from the diamond workshop can be reviewed as Appendix 2.

Quality Improvement Goals and Issues Discussed

Goal	Problems	Solutions		
ВР	Adherence meds	More f/u visits		
		Blood pressure log sheets for home		
		RN follow-up calls		
	Identifying high-risk patients (2)	Specialist document "high CVD risk"		
		put Framingham score in chart		
	Specialist not addressing BP	BP benchmark at which Rheum. Schedules PCP visit (specify time frame)		
		Specialist add "PCP visit for BP" to patient instructions		
		Specialist document BP goals		
		Specialist document action needed		
		Flow sheet with CVD screening/counseling items		
	Suboptimal medication	Establish clear goals (for all pts. vs. for individual pts.)		
	management			

	Lifestyle	Diet counseling/handouts		
	Linestyle			
		DASH diet tracking in chart		
		DASH diet handouts		
		Diet counseling (hire nutritionist? Identify local		
		resources, e.g. grocery?)		
		PCP/specialist agree on common recommendation		
		(e.g., diet)		
LDL	Specialist not ordering	Coordinate lab evaluation (LDL and A1C)		
		Flow sheet with CVD screening/counseling items		
	Not at goal and no changes made	Schedule PCP appointment; counsel patient on reason		
		for appt		
		Use flow sheet		
		Establish clear goals (for all pts. vs. for individual pts.)		
	No lifestyle coaching	Patient education		
	Medication intolerance	Patient education		
		Provider education (try different meds)		
Other/General	Difficult to get patient into Rheum			
	No distinction made between	Talk to primary care staff		
	urgent and routine referrals			
	Notes not available?			
	Notes not being read	Highlight risk assessment in its own note section		
		Sticky note on chart		
	Notes do not contain needed	Highlight risk assessment in its own note section		
	information re: risk assessment and			
	patient risk counseling			
	Incorrect Dx on scheduled referral	Talk to primary care staff		

During the breakout session of the Diamond Workshop, the FMC providers identified and discussed issues that may be barriers to achieving both the screening and clinical goals for CV risk factors in their patients. These issues were a mix of patient-focused (lack of adherence or medication intolerance), skill-based (identifying high-risk patients, suboptimal management or clinical inertia, lack of lifestyle coaching) and also system-related (notes not containing needed information, triaging referrals). The practice also brainstormed solutions to the identified issues. The Practice Champion coached the participants of the Diamond Workshop on how to create a Continuous Quality Improvement (CQI) plan and everyone left the session with the template to create their own CQI plan.

Note: We did not follow up with the individual providers on their CQI plans so do not know how many took advantage of the worksheet to create a structured plan.

Level 5: Performance

Performance data was provided for the eligible practice group as well as for each individual provider. Aggregate practice data results are shown below.

The performance outcome measure was the rate of complete screening for CVD risk factors in patients with RA: Proportion of patients screened for diabetes, hypertension, hyperlipidemia with measure of obesity (BMI or waist circumference) and smoking status documented at baseline and at follow up.

Screening for CVD risk factors – RA Patients without DM

CVD risk factor (% screened)	Baseline N=218	Follow up N=221
DM screen (A1C or FBG or OGTT)	19	22
Dyslipidemia screen	78.5	89.1
Smoking status documented	100	100
% Current smokers	14.6	12.6
Obesity assessment	100	100
Blood pressure screen	100	100

Screening rates for most CVD risk factors improved from baseline to follow up, as there were fewer patients with missing data. There was excellent screening for BP, BMI and smoking status both at baseline and follow up. Screening rates for diabetes were lowest at both baseline and follow up. Random blood glucose was the most common glucose test performed (This alone is not highly sensitive or specific for diagnosing diabetes). There was a small decrease in smoking rates.

Screening for CVD risk factors – RA Patients with DM

CVD risk factor (% screened)	Baseline N=91	Follow up N=105	
DM screen (A1C)	86.7	86.8	
Dyslipidemia screen	92	94	
Smoking status documented	100	100	
% Current smokers	9.8	9.5	
Obesity assessment	100	100	
Blood pressure screen	100	100	

Once again this patient population had excellent rates of CVD screening and much higher rates of A1C testing, likely because they already have diabetes. The screening goals for BP and cholesterol are different for those with and without diabetes; segmenting the baseline data shows achievement of more aggressive cholesterol screening, which is good since diabetes patients have higher rates of CVD than patients without diabetes.

Level 6: Patient Outcomes

CVD risk factors - RA Patients without DM

CVD risk factor ¹	Baseline N=218	Follow up N=221	Absolute Change (%)	% Change
TCHOL < 200	51%	56%	+5	+10%
LDL < 160	77%	77%	-	0%
HDL >50 F, >40 M	59%	65%	+6	+10%
BP < 140/90	80%	85%	+5	+6%

Patients without diabetes achieved modest improvements in blood pressure control and management of dyslipidemia from baseline to follow up.

CVD risk factors - RA Patients with DM

CVD risk factor ¹	Baseline N=91	Follow up N=105	Absolute Change (%)	% Change
A1C < 7%	61%	58%	-3	-5%
TCHOL < 200	67%	61%	-6	-9%
LDL < 100	56%	48%	-8	-14%
HDL >50 F, >40 M	57%	67%	+10	+18%
BP < 140/80	60%	61%	+1	+2%

The proportion of patients with diabetes that achieved target goal for HDL increased for both men and women from baseline to follow up while patients at goal LDL and total cholesterol decreased slightly. The proportions remained relatively similar from baseline to follow up for A1C at goal and blood pressure at goal.

Final Recommendations to the Practice

- Continue to work to increase screening rates of all CVD risk factors to 100%.
- Diabetes screening is important in this patient population because of their increased risk for CVD and greater likelihood of exposure to medications that antagonize insulin action and increase insulin resistance like steroids.
- Continue aggressive CVD risk factor modification in this subpopulation with RA and diabetes, as they are at significantly increased risk for CVD.
- Utilize tools from this educational intervention to develop specific QI projects in the future.

¹ Targets derived from American Diabetes Association. Standards of Medical Care in Diabetes—2013. *Diabetes Care*. 2013; 36(Suppl 1):S11-S66 and James PA et al. 2014 Evidence-Based Guideline for the Management of High Blood Pressure in Adults. *JAMA*. 2014;311(5):507-520.

Conclusions

Overall, the project did not demonstrate much improvement in screening rates as expected, since screening rates of most of the CVD risk factors were quite high at baseline. This project did help providers identify that they were not screening for diabetes adequately. We also did not see much change in patient outcomes data from baseline to follow up, likely due to the fact that the educational interventions did not specifically address management strategies for CVD risk factors. The providers may benefit from targeted educational activities in this area to help improve their patient-level outcomes.

In addition, we evaluated the physicians in the FMC practice who did <u>not</u> attend the diamond workshop and who did not utilize the resources/e-monograph. The Level 5 and 6 data for these clinicians were very similar to the group that did participate in the initiative:

		Count & Averages -1		% of Pop	ulation		
	Summary	Baseline	Update	Baseline	Update	Change	Standard
	# of Patients	386	387				
	Average Age	62.70	62.65				
Demographics	# of Females	328	323	85%	83%		
	# of Males	57	63	15%	16%		
	Average BMI	31.33	31.31				
Diagnoses	# of Type2 Diabetes Pts	102	111	26%	29%		
	# of CAD Pts	65	78	17%	20%		
	# of HTN Pts	237	256	61%	66%		
	# of Hyperlipidemia Pts	239	260	62%	67%		
Cardiovascular Risk Screening	# of Diabetic Patients with all risk factors measured	81	90	79%	81%	2%	100%
	# of Non Diabetic Patients with all risk factors measured	187	195	66%	71%	5%	100%
	# of Non Diabetic Patients with all risk factors measured except						
	DM screen	190	200	67%	72%	6%	100%
Diabetes Screening	# of Pts (non-diabetic) with one measurement of A1C, Facting						
	glucose or OGTT	48	55	17%	20%	3%	100%
	# of Pts DM Glucose at Goal	56	65	55%	59%	4%	60%
	# of Pts DM LDL at Goal	46	57	45%	51%	6%	70%
Risk Factors	# of Pts DM HDL at Goal	40	58	39%	52%	13%	
(Pts with Diabetes)	# of Pts DM Total Cholesteral at Goal	61	76	60%	68%	9%	70%
(Pts with blabetes)	# of Pts DM BP at Goal	70	73	69%	66%	-3%	60%
	# of Pts DM SMOKING_STATUS Captured	102	111	100%	100%	0%	100%
	# of Pts DM SMOKING_STATUS Current	88	98	86%	88%	2%	
	# of Pts Non DM LDL at Goal	171	177	60%	64%	4%	70%
	# of Pts Non DM HDL at Goal	150	156	53%	57%	4%	
Risk Factors	# of Pts Non DM Total Cholesteral at Goal	108	110	38%	40%	2%	70%
(Pts without Diabetes)	# of Pts Non DM BP at Goal	224	218	79%	79%	0%	70%
	# of Pts Non DM SMOKING_STATUS Captured	284	276	100%	100%	0%	100%
	# of Pts Non DM SMOKING_STATUS Current	223	231	79%	84%	5%	
	Sum of DM Total Cholesteral Captured	87	96	85%	86%		
	Sum of Non DM Total Cholesteral Captured	190	213	67%	77%		

Therefore we conclude that the initiative overall was a negative study. This result could be for several reasons. First, there was only one practice in the study, and they happened to be quite advanced in their screening practices. A second practice may have elicited different results. Second, since the practice was already engaged with Humedica to aggregate and report on their data, it could be a selection bias. One could surmise that any practice that engages with a clinical informatics company is already in the position to be very focused on quality improvement and would regularly evaluate their performance on common metrics, especially for chronic conditions such as cardiovascular disease. Third, FMC may not be representative of most practices because they do have more Rheumatologists and therefore may already have more integrated processes and communications between the Rheumatologists and the PCPs.

Challenges Experienced

The duration of the project was 1 year and 8 months. During this time we experienced several challenges, as we embarked on the detailed project plan and started the engagement with all stakeholders.

- 1. Engagement and Retention of Partner Practices. In the original proposal we had listed several practices, including Beth Israel Deaconess Medical Center, who had initially agreed to endorse the project and encourage their providers to participate. Upon grant award when we re-engaged with these practices they withdrew from participating in the project, citing reasons such as competing internal priorities, suboptimal timing due to participation in other Joslin projects, or changes in leadership since the previous conversations. In addition, for other practices in the Humedica network, most did not have enough PCPs or rheumatologists in the network to qualify to participate under the original study design. To compensate for this change in direction, we explored using other data partners such as the Massachusetts eHealth Collaborative, but eventually determined that their typical practice profile was also not a match to the project. Finally, in July 2013 we were successful in engaging Florida Medical Clinic via Humedica. We continued recruitment efforts for a second practice in parallel but were never able to engage any others to participate.
- 2. **Scope Change**. It was originally proposed that we would apply our Joslin Clinical Audit Tool (JCAT) on the data collected. Once we received the baseline data we realized it was not in the required format to run the JCAT analysis. The way in which Humedica collects practice data is not compatible with the format that we have created to run the JCAT algorithms. This was not realized until the baseline data file was delivered. Consequently, the only way that the JCAT tool could have been utilized would have been from manual chart pulls of 60 patients per provider. This was clearly not feasible from both a time commitment and a budgetary standpoint. More importantly, most providers had fewer than 60 patients with RA in their panels. Therefore, JCAT analysis was omitted from the final project scope.
- 3. **Team Changes**. During the course of the project our internal team experienced some attrition and personnel changes, which affected the continuity of project management and contributed to an overall delay in the completion of the project.

Patient Impact

Despite only modest Level 5 and Level 6 improvements, we believe that the increased provider awareness of elevated CVD risk for RA patients in this practice will ultimately lead to more intensive CVD screening and management and hopefully reduce CVD complications.

Appendix 1: Interactive e-Monograph

Appendix 2: Diamond Workshop Full Evaluation

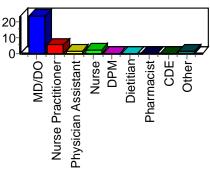
Managing Cardiovascular Risk Assessment in People with Rheumatoid Arthritis

September 18, 2013

What is your professional credential?

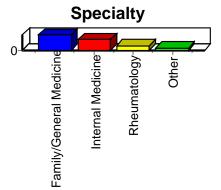
Label	Frequency	Percent	Valid
			Percent
MD/DO	23	71.88	71.88
Nurse Practitioner	5	15.63	15.63
Physician	1	3.13	3.13
Assistant			
Nurse	2	6.25	6.25
DPM	0	0.00	0.00
Dietitian	0	0.00	0.00
Pharmacist	0	0.00	0.00
CDE	0	0.00	0.00
Other	1	3.13	3.13
Total Valid	32	100.00	100.00

Professional Credential



What is your area of practice specialty?

Label	Frequency	Percent	Valid
			Percent
Family/General	15	46.88	46.88
Medicine			
Internal Medicine	11	34.38	34.38
Rheumatology	4	12.50	12.50
Other	2	6.25	6.25
Total Valid	32	100.00	100.00



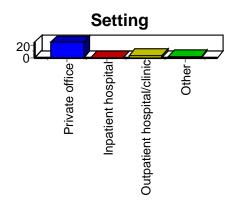
How many years have you been in practice (years since graduation)?

Label	Frequency	Percent	Valid
			Percent
< 10	10	31.25	31.25
10-20	12	37.50	37.50
21-30	8	25.00	25.00
> 30	2	6.25	6.25
Total Valid	32	100.00	100.00



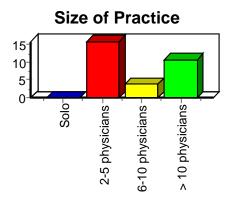
In which setting do you perform most of your patient care?

Label	Frequency	Percent	Valid
			Percent
Private office	26	81.25	83.87
Inpatient hospital	0	0.00	0.00
Outpatient	3	9.38	9.68
hospital/clinic			
Other	2	6.25	6.45
Total Valid	31	96.88	100.00
Total Missing	1	3.13	
Total	32	100.00	



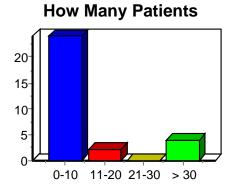
What is the size of your practice?

Label	Frequency	Percent	Valid
			Percent
Solo	0	0.00	0.00
2-5 physicians	16	50.00	51.61
6-10 physicians	4	12.50	12.90
> 10 physicians	11	34.38	35.48
Total Valid	31	96.88	100.00
Total Missing	1	3.13	
Total	32	100.00	



Approximately how many patients with diabetes do you typically see in a week?

Label	Frequency	Percent	Valid
			Percent
0-10	24	75.00	80.00
11-20	2	6.25	6.67
21-30	0	0.00	0.00
> 30	4	12.50	13.33
Total Valid	30	93.75	100.00
Total Missing	2	6.25	
Total	32	100.00	



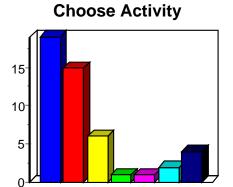
How did you hear about this activity?

Label	Frequency	Percent	Valid
			Percent
Mail	0	0.00	0.00
Colleague	18	56.25	58.06
Website	0	0.00	0.00
Email	6	18.75	19.35
Other	9	28.13	29.03
Total Valid	31	96.88	100.00
Total Missing	1	3.13	
Total	32	100.00	



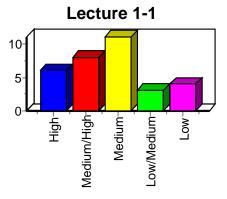
Why did you select this activity?

Label	Frequency	Percent	Valid
			Percent
Activity content	19	59.38	63.33
CME credit	15	46.88	50.00
It was a Joslin	6	18.75	20.00
Diabetes Center			
activity			
Time and date	1	3.13	3.33
Faculty	1	3.13	3.33
Location	2	6.25	6.67
Other	4	12.50	13.33
Total Valid	30	93.75	100.00
Total Missing	2	6.25	
Total	32	100.00	



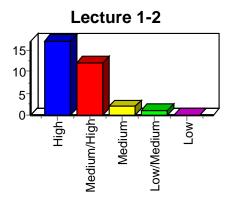
Lecture 1: The Relationship between Arthritis and Cardiovascular Risk - Your prior knowledge of topic:

Label	Frequency	Percent	Valid
			Percent
High	6	18.75	18.75
Medium/High	8	25.00	25.00
Medium	11	34.38	34.38
Low/Medium	3	9.38	9.38
Low	4	12.50	12.50
Total Valid	32	100.00	100.00



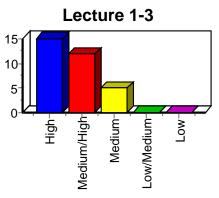
Lecture 1: The Relationship between Arthritis and Cardiovascular Risk - Relevance to your educational needs:

Label	Frequency	Percent	Valid
			Percent
High	17	53.13	53.13
Medium/High	12	37.50	37.50
Medium	2	6.25	6.25
Low/Medium	1	3.13	3.13
Low	0	0.00	0.00
Total Valid	32	100.00	100.00



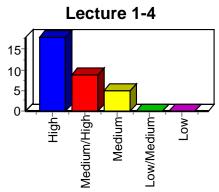
Lecture 1: The Relationship between Arthritis and Cardiovascular Risk - Depth/scope of coverage:

Label	Frequency	Percent	Valid
			Percent
High	15	46.88	46.88
Medium/High	12	37.50	37.50
Medium	5	15.63	15.63
Low/Medium	0	0.00	0.00
Low	0	0.00	0.00
Total Valid	32	100.00	100.00



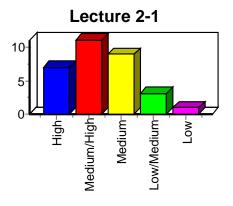
Lecture 1: The Relationship between Arthritis and Cardiovascular Risk - Quality of presentation:

Label	Frequency	Percent	Valid
			Percent
High	18	56.25	56.25
Medium/High	9	28.13	28.13
Medium	5	15.63	15.63
Low/Medium	0	0.00	0.00
Low	0	0.00	0.00
Total Valid	32	100.00	100.00



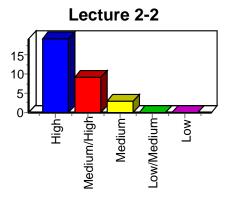
Lecture 2: Cardiometabolic Syndrome and Clinical Challenges: Management in Patients with RA - Your prior knowledge of topic:

Label	Frequency	Percent	Valid
			Percent
High	7	21.88	22.58
Medium/High	11	34.38	35.48
Medium	9	28.13	29.03
Low/Medium	3	9.38	9.68
Low	1	3.13	3.23
Total Valid	31	96.88	100.00
Total Missing	1	3.13	
Total	32	100.00	



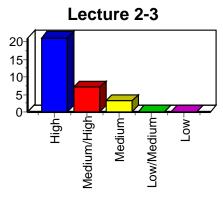
Lecture 2: Cardiometabolic Syndrome and Clinical Challenges: Management in Patients with RA - Relevance to your educational needs:

Label	Frequency	Percent	Valid
			Percent
High	19	59.38	61.29
Medium/High	9	28.13	29.03
Medium	3	9.38	9.68
Low/Medium	0	0.00	0.00
Low	0	0.00	0.00
Total Valid	31	96.88	100.00
Total Missing	1	3.13	
Total	32	100.00	



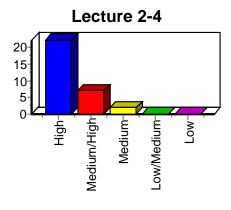
Lecture 2: Cardiometabolic Syndrome and Clinical Challenges: Management in Patients with RA - Depth/scope of coverage:

-	_		
Label	Frequency	Percent	Valid
			Percent
High	21	65.63	67.74
Medium/High	7	21.88	22.58
Medium	3	9.38	9.68
Low/Medium	0	0.00	0.00
Low	0	0.00	0.00
Total Valid	31	96.88	100.00
Total Missing	1	3.13	
Total	32	100.00	



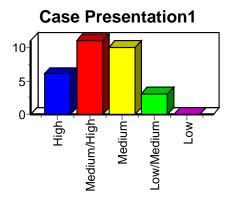
Lecture 2: Cardiometabolic Syndrome and Clinical Challenges: Management in Patients with RA - Quality of presentation:

Label	Frequency	Percent	Valid
			Percent
High	22	68.75	70.97
Medium/High	7	21.88	22.58
Medium	2	6.25	6.45
Low/Medium	0	0.00	0.00
Low	0	0.00	0.00
Total Valid	31	96.88	100.00
Total Missing	1	3.13	
Total	32	100.00	



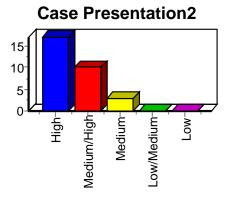
Case Presentation - Your prior knowledge of topic:

Label	Frequency	Percent	Valid
			Percent
High	6	18.75	20.00
Medium/High	11	34.38	36.67
Medium	10	31.25	33.33
Low/Medium	3	9.38	10.00
Low	0	0.00	0.00
Total Valid	30	93.75	100.00
Total Missing	2	6.25	
Total	32	100.00	



Case Presentation - Relevance to your educational needs:

Label	Frequency	Percent	Valid
			Percent
High	17	53.13	56.67
Medium/High	10	31.25	33.33
Medium	3	9.38	10.00
Low/Medium	0	0.00	0.00
Low	0	0.00	0.00
Total Valid	30	93.75	100.00
Total Missing	2	6.25	
Total	32	100.00	



Case Presentation - Depth/scope of coverage:

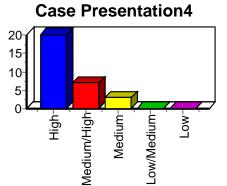
	=	=	_
Label	Frequency	Percent	Valid
			Percent
High	17	53.13	56.67
Medium/High	10	31.25	33.33
Medium	3	9.38	10.00
Low/Medium	0	0.00	0.00
Low	0	0.00	0.00
Total Valid	30	93.75	100.00
Total Missing	2	6.25	
Total	32	100.00	

High—Medium/High—Low/Medium—Low

Case Presentation3

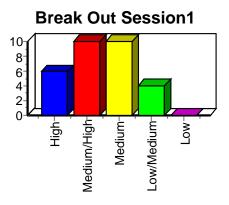
Case Presentation - Quality of presentation:

Label	Frequency	Percent	Valid
			Percent
High	20	62.50	66.67
Medium/High	7	21.88	23.33
Medium	3	9.38	10.00
Low/Medium	0	0.00	0.00
Low	0	0.00	0.00
Total Valid	30	93.75	100.00
Total Missing	2	6.25	
Total	32	100.00	



Break Out Session - Your prior knowledge of topic:

Label	Frequency	Percent	Valid
			Percent
High	6	18.75	20.00
Medium/High	10	31.25	33.33
Medium	10	31.25	33.33
Low/Medium	4	12.50	13.33
Low	0	0.00	0.00
Total Valid	30	93.75	100.00
Total Missing	2	6.25	
Total	32	100.00	



Break Out Session - Relevance to your educational needs:

Label	Frequency	Percent	Valid
			Percent
High	16	50.00	53.33
Medium/High	12	37.50	40.00
Medium	2	6.25	6.67
Low/Medium	0	0.00	0.00
Low	0	0.00	0.00
Total Valid	30	93.75	100.00
Total Missing	2	6.25	
Total	32	100.00	

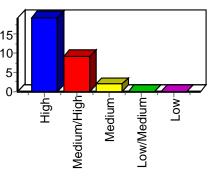
Break Out Session2



Break Out Session - Depth/scope of coverage:

	-	•	_
Label	Frequency	Percent	Valid
			Percent
High	19	59.38	63.33
Medium/High	9	28.13	30.00
Medium	2	6.25	6.67
Low/Medium	0	0.00	0.00
Low	0	0.00	0.00
Total Valid	30	93.75	100.00
Total Missing	2	6.25	
Total	32	100.00	

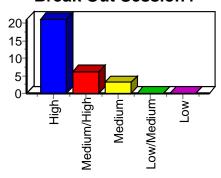
Break Out Session3



Break Out Session - Quality of presentation:

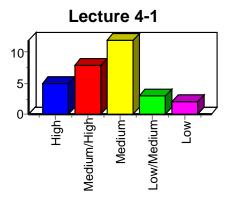
Label	Frequency	Percent	Valid
			Percent
High	21	65.63	70.00
Medium/High	6	18.75	20.00
Medium	3	9.38	10.00
Low/Medium	0	0.00	0.00
Low	0	0.00	0.00
Total Valid	30	93.75	100.00
Total Missing	2	6.25	
Total	32	100.00	

Break Out Session4



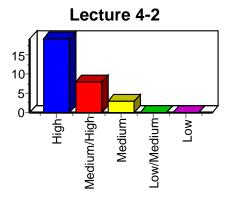
Lecture 4: Improving Care Coordination for your Patients with RA: What Works, What Doesn't - Your prior knowledge of topic:

Label	Frequency	Percent	Valid
			Percent
High	5	15.63	16.67
Medium/High	8	25.00	26.67
Medium	12	37.50	40.00
Low/Medium	3	9.38	10.00
Low	2	6.25	6.67
Total Valid	30	93.75	100.00
Total Missing	2	6.25	
Total	32	100.00	



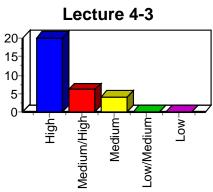
Lecture 4: Improving Care Coordination for your Patients with RA: What Works, What Doesn't - Relevance to your educational needs:

Label	Frequency	Percent	Valid
			Percent
High	19	59.38	63.33
Medium/High	8	25.00	26.67
Medium	3	9.38	10.00
Low/Medium	0	0.00	0.00
Low	0	0.00	0.00
Total Valid	30	93.75	100.00
Total Missing	2	6.25	
Total	32	100.00	



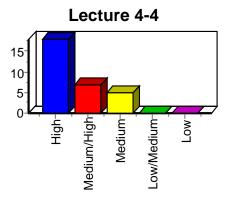
Lecture 4: Improving Care Coordination for your Patients with RA: What Works, What Doesn't - Depth/scope of coverage:

Label	Frequency	Percent	Valid
			Percent
High	20	62.50	66.67
Medium/High	6	18.75	20.00
Medium	4	12.50	13.33
Low/Medium	0	0.00	0.00
Low	0	0.00	0.00
Total Valid	30	93.75	100.00
Total Missing	2	6.25	
Total	32	100.00	



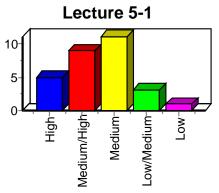
Lecture 4: Improving Care Coordination for your Patients with RA: What Works, What Doesn't - Quality of presentation:

Label	Frequency	Percent	Valid
			Percent
High	18	56.25	60.00
Medium/High	7	21.88	23.33
Medium	5	15.63	16.67
Low/Medium	0	0.00	0.00
Low	0	0.00	0.00
Total Valid	30	93.75	100.00
Total Missing	2	6.25	
Total	32	100.00	



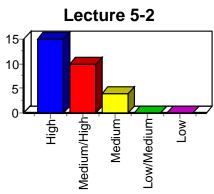
Lecture 5: Selecting practice goals and developing your QI plan for managing CV Risk factors in patients with RA - Your prior knowledge of topic:

Label	Frequency	Percent	Valid
			Percent
High	5	15.63	17.24
Medium/High	9	28.13	31.03
Medium	11	34.38	37.93
Low/Medium	3	9.38	10.34
Low	1	3.13	3.45
Total Valid	29	90.63	100.00
Total Missing	3	9.38	
Total	32	100.00	



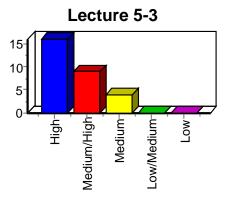
Lecture 5: Selecting practice goals and developing your QI plan for managing CV Risk factors in patients with RA - Relevance to your educational needs:

Label	Frequency	Percent	Valid
			Percent
High	15	46.88	51.72
Medium/High	10	31.25	34.48
Medium	4	12.50	13.79
Low/Medium	0	0.00	0.00
Low	0	0.00	0.00
Total Valid	29	90.63	100.00
Total Missing	3	9.38	
Total	32	100.00	



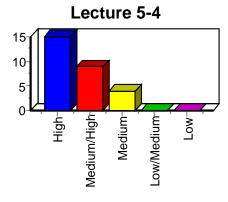
Lecture 5: Selecting practice goals and developing your QI plan for managing CV Risk factors in patients with RA - Depth/scope of coverage:

Label	Frequency	Percent	Valid
			Percent
High	16	50.00	55.17
Medium/High	9	28.13	31.03
Medium	4	12.50	13.79
Low/Medium	0	0.00	0.00
Low	0	0.00	0.00
Total Valid	29	90.63	100.00
Total Missing	3	9.38	
Total	32	100.00	



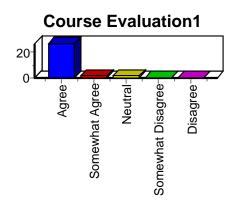
Lecture 5: Selecting practice goals and developing your QI plan for managing CV Risk factors in patients with RA - Quality of presentation:

Label	Frequency	Percent	Valid
			Percent
High	15	46.88	53.57
Medium/High	9	28.13	32.14
Medium	4	12.50	14.29
Low/Medium	0	0.00	0.00
Low	0	0.00	0.00
Total Valid	28	87.50	100.00
Total Missing	4	12.50	
Total	32	100.00	



The activity met the learning objectives:

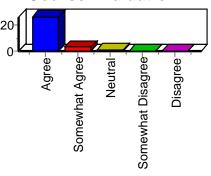
Label	Frequency	Percent	Valid
			Percent
Agree	27	84.38	87.10
Somewhat Agree	2	6.25	6.45
Neutral	2	6.25	6.45
Somewhat	0	0.00	0.00
Disagree			
Disagree	0	0.00	0.00
Total Valid	31	96.88	100.00
Total Missing	1	3.13	
Total	32	100.00	



The scope, depth, and level of activity content were appropriate:

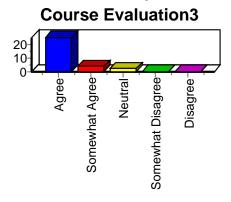
		-	
Label	Frequency	Percent	Valid
			Percent
Agree	26	81.25	86.67
Somewhat Agree	3	9.38	10.00
Neutral	1	3.13	3.33
Somewhat	0	0.00	0.00
Disagree			
Disagree	0	0.00	0.00
Total Valid	30	93.75	100.00
Total Missing	2	6.25	
Total	32	100.00	

Course Evaluation2



The content of the presentations reflected a fair, balanced review of the selected topics:

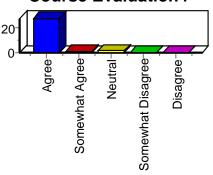
Label	Frequency	Percent	Valid
			Percent
Agree	25	78.13	80.65
Somewhat Agree	4	12.50	12.90
Neutral	2	6.25	6.45
Somewhat	0	0.00	0.00
Disagree			
Disagree	0	0.00	0.00
Total Valid	31	96.88	100.00
Total Missing	1	3.13	
Total	32	100.00	



The content was evidence-based:

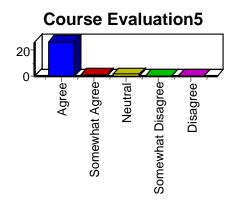
Label	Frequency	Percent	Valid
			Percent
Agree	28	87.50	90.32
Somewhat Agree	1	3.13	3.23
Neutral	2	6.25	6.45
Somewhat	0	0.00	0.00
Disagree			
Disagree	0	0.00	0.00
Total Valid	31	96.88	100.00
Total Missing	1	3.13	
Total	32	100.00	

Course Evaluation4



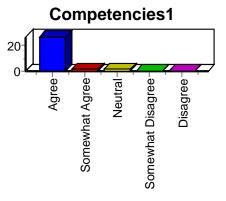
The content was aligned with professional practice/activities:

Label	Frequency	Percent	Valid
			Percent
Agree	27	84.38	90.00
Somewhat Agree	1	3.13	3.33
Neutral	2	6.25	6.67
Somewhat	0	0.00	0.00
Disagree			
Disagree	0	0.00	0.00
Total Valid	30	93.75	100.00
Total Missing	2	6.25	
Total	32	100.00	



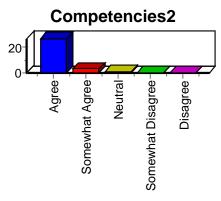
The content of this activity addressed the following desireable clinicain attributes from IOM/ACGME Competencies - Medical knowledge:

Label	Frequency	Percent	Valid
			Percent
Agree	27	84.38	87.10
Somewhat Agree	2	6.25	6.45
Neutral	2	6.25	6.45
Somewhat	0	0.00	0.00
Disagree			
Disagree	0	0.00	0.00
Total Valid	31	96.88	100.00
Total Missing	1	3.13	
Total	32	100.00	



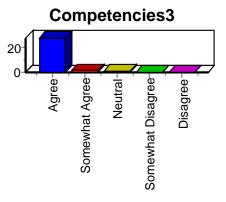
The content of this activity addressed the following desireable clinicain attributes from IOM/ACGME Competencies - Professionalism:

Label	Frequency	Percent	Valid
			Percent
Agree	27	84.38	87.10
Somewhat Agree	3	9.38	9.68
Neutral	1	3.13	3.23
Somewhat	0	0.00	0.00
Disagree			
Disagree	0	0.00	0.00
Total Valid	31	96.88	100.00
Total Missing	1	3.13	
Total	32	100.00	



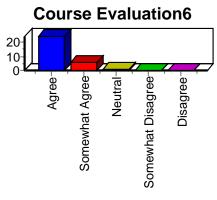
The content of this activity addressed the following desireable clinicain attributes from IOM/ACGME Competencies - Evidence-based practice:

Label	Frequency	Percent	Valid
			Percent
Agree	28	87.50	90.32
Somewhat Agree	2	6.25	6.45
Neutral	1	3.13	3.23
Somewhat	0	0.00	0.00
Disagree			
Disagree	0	0.00	0.00
Total Valid	31	96.88	100.00
Total Missing	1	3.13	
Total	32	100.00	



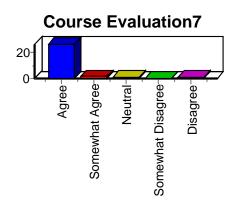
The content helped to address, overcome, or remove barriers to change in your practice:

Label	Frequency	Percent	Valid
			Percent
Agree	24	75.00	77.42
Somewhat Agree	6	18.75	19.35
Neutral	1	3.13	3.23
Somewhat	0	0.00	0.00
Disagree			
Disagree	0	0.00	0.00
Total Valid	31	96.88	100.00
Total Missing	1	3.13	
Total	32	100.00	



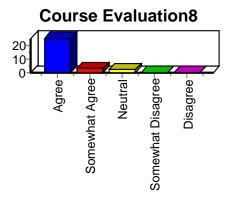
The content was not commercially biased:

Label	Frequency	Percent	Valid
			Percent
Agree	26	81.25	86.67
Somewhat Agree	2	6.25	6.67
Neutral	1	3.13	3.33
Somewhat	0	0.00	0.00
Disagree			
Disagree	1	3.13	3.33
Total Valid	30	93.75	100.00
Total Missing	2	6.25	
Total	32	100.00	



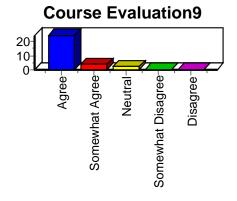
The format was appropriate for the objectives and desired result:

Label	Frequency	Percent	Valid
			Percent
Agree	25	78.13	83.33
Somewhat Agree	3	9.38	10.00
Neutral	2	6.25	6.67
Somewhat	0	0.00	0.00
Disagree			
Disagree	0	0.00	0.00
Total Valid	30	93.75	100.00
Total Missing	2	6.25	
Total	32	100.00	



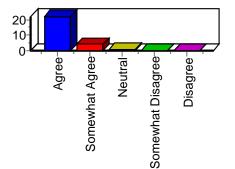
There was adequate time for questions and faculty interaction:

Label	Frequency	Percent	Valid
			Percent
Agree	24	75.00	80.00
Somewhat Agree	4	12.50	13.33
Neutral	2	6.25	6.67
Somewhat	0	0.00	0.00
Disagree			
Disagree	0	0.00	0.00
Total Valid	30	93.75	100.00
Total Missing	2	6.25	
Total	32	100.00	



The use of ARS enhanced the learning experience:

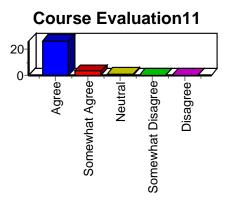
Label	Frequency	Percent	Valid
			Percent
Agree	22	68.75	81.48
Somewhat Agree	4	12.50	14.81
Neutral	1	3.13	3.70
Somewhat	0	0.00	0.00
Disagree			
Disagree	0	0.00	0.00
Total Valid	27	84.38	100.00
Total Missing	5	15.63	
Total	32	100.00	



Course Evaluation10

As a result of attending this activity, you will modify some aspect of managing patients with rheumatoid arthritis:

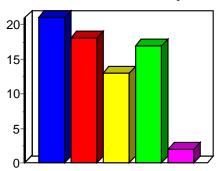
Label	Frequency	Percent	Valid
			Percent
Agree	26	81.25	86.67
Somewhat Agree	3	9.38	10.00
Neutral	1	3.13	3.33
Somewhat	0	0.00	0.00
Disagree			
Disagree	0	0.00	0.00
Total Valid	30	93.75	100.00
Total Missing	2	6.25	
Total	32	100.00	



If you do plan to modify patient management as a result of attending this activity, which aspects of your practice do you intend to change?

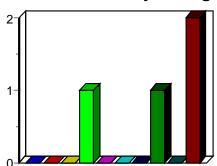
Label	Frequency	Percent	Valid Percent
Apply more effective methods for	21	65.63	70.00
screening cardiometabolic risk that	21	03.03	70.00
would be appropriate for use in			
people with Rheumatoid Arthritis			
{RA}	10	50.05	00.00
Develop and implement more	18	56.25	60.00
efficient office-based systems for			
screening for and documentation of			
cardiometabolic risk factors in RA			
patients			
More effectively identify barriers	13	40.63	43.33
within the practice and across the			
consultative care system for timely			
screening of cardiometabolic risk in			
people with RS			
Improve team-based identification	17	53.13	56.67
and intervention to treat			
cardiometabolic risk in people with			
RA			
Other	2	6.25	6.67
Total Valid	30	93.75	100.00
Total Missing	2	6.25	
Total	32	100.00	

Do Plan to Modify



If you do not plan to modify patient management, why not? Do Not Plan To Modify Management

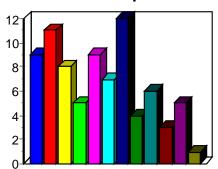
Label	Frequency	Percent	Valid
			Percent
Current practice is	0	0.00	0.00
satisfactory			
Lack of patient	0	0.00	0.00
visit time			
Lack of practice	0	0.00	0.00
management time			
Lack of staff	1	3.13	33.33
resources			
Lack of materials	0	0.00	0.00
and tools			
Lack of support	0	0.00	0.00
for change by			
administration			
Administrative/syst	0	0.00	0.00
em costs			
Care	1	3.13	33.33
costs/insurance			
coverage	_		
Patient barriers	0	0.00	0.00
Other	2	6.25	66.67
Total Valid	3	9.38	100.00
Total Missing	29	90.63	
Total	32	100.00	



What topics would you like to see covered in future Joslin CME activities to help you improve your practice, patient care, and patient outcomes?

Label	Frequency	Percent	Valid Percent
Designing treatments for type 2 diabetes	9	28.13	37.50
Using treatment guidelines in diabetes treatment	11	34.38	45.83
Managing and troubleshooting insulin treatment programs	8	25.00	33.33
Preventing cardiovascular complications in patients with diabetes	5	15.63	20.83
Managing neuropathy in patients with diabetes	9	28.13	37.50
Initiating and managing insulin therapy	7	21.88	29.17
Improving patient adherence to diabetes treatment plans	12	37.50	50.00
Diagnosing and treating cardiovascular disease	4	12.50	16.67
Caring for the diabetic foot	6	18.75	25.00
Reducing clinical inertia in diabetes care	3	9.38	12.50
Implementing new diabetes treatment	5	15.63	20.83
Improving office systems of diabetes care	1	3.13	4.17
Total Valid	24	75.00	100.00
Total Missing	8	25.00	
Total	32	100.00	

Future Topics



What is your professional credential?
Comment
MA
What is your area of practice specialty?
Comment
Admin
ID
In which setting do you perform most of your patient care?
Comment
FMC
Admin
How did you hear about this activity?
Comment
FMC Email
Humedics
FMC Email
FMC Email
FMC Email
FMC
FMC
Why did you select this activity?
Comment
Colleague
Colleague
Interesting topic
Doctor
If you do plan to modify patient management as a result of attending this activity, which
aspects of your practice do you intend to change? Other:
Comment
Not a provider
If you do not plan to modify patient management, why not? Other:
Comment
Not a provider
Patient preference

Other comments?

Comment
Thank you
Superb event!
It was very interesting and educative
Excellent initiative

Item Statistics:

	Professional	Specialty	Years in	Setting	Size of Practice	How Many	Hear About
	Credential		Practice			Patients	Activity
Mean	1.66	1.78	2.06	1.39	2.84	1.47	-
Variance	2.49	0.82	0.83	0.85	0.87	1.09	-
Standard Deviation	1.58	0.91	0.91	0.92	0.93	1.04	-
Standard Error	0.28	0.16	0.16	0.17	0.17	0.19	-
Minimum	1.00	1.00	1.00	1.00	2.00	1.00	-
Maximum	9.00	4.00	4.00	4.00	4.00	4.00	-

	Choose Activity	Lecture 1-1	Lecture 1-2	Lecture 1-3	Lecture 1-4	Lecture 2-1	Lecture 2-2
Mean	-	3.28	4.41	4.31	4.41	3.65	4.52
Variance	-	1.56	0.57	0.54	0.57	1.10	0.46
Standard Deviation	-	1.25	0.76	0.74	0.76	1.05	0.68
Standard Error	-	0.22	0.13	0.13	0.13	0.19	0.12
Minimum	-	1.00	2.00	3.00	3.00	1.00	3.00
Maximum	-	5.00	5.00	5.00	5.00	5.00	5.00

	Lecture 2-3	Lecture 2-4	Case	Case	Case	Case	Break Out
			Presentation1	Presentation2	Presentation3	Presentation4	Session1
Mean	4.58	4.65	3.67	4.47	4.47	4.57	3.60
Variance	0.45	0.37	0.85	0.46	0.46	0.46	0.94
Standard Deviation	0.67	0.61	0.92	0.68	0.68	0.68	0.97
Standard Error	0.12	0.11	0.17	0.12	0.12	0.12	0.18
Minimum	3.00	3.00	2.00	3.00	3.00	3.00	2.00
Maximum	5.00	5.00	5.00	5.00	5.00	5.00	5.00

	Break Out	Break Out	Break Out	Lecture 4-1	Lecture 4-2	Lecture 4-3	Lecture 4-4
	Session2	Session3	Session4				
Mean	4.47	4.57	4.60	3.37	4.53	4.53	4.43
Variance	0.40	0.39	0.46	1.21	0.46	0.53	0.60
Standard Deviation	0.63	0.63	0.67	1.10	0.68	0.73	0.77
Standard Error	0.11	0.11	0.12	0.20	0.12	0.13	0.14
Minimum	3.00	3.00	3.00	1.00	3.00	3.00	3.00
Maximum	5.00	5.00	5.00	5.00	5.00	5.00	5.00

	Lecture 5-1	Lecture 5-2	Lecture 5-3	Lecture 5-4	Course	Course	Course
					Evaluation1	Evaluation2	Evaluation3
Mean	3.48	4.38	4.41	4.39	4.81	4.83	4.74
Variance	1.04	0.53	0.54	0.54	0.29	0.21	0.33
Standard Deviation	1.02	0.73	0.73	0.74	0.54	0.46	0.58
Standard Error	0.19	0.14	0.14	0.14	0.10	0.08	0.10
Minimum	1.00	3.00	3.00	3.00	3.00	3.00	3.00
Maximum	5.00	5.00	5.00	5.00	5.00	5.00	5.00

	Course	Course	Competencies1	Competencies2	Competencies3	Course	Course
	Evaluation4	Evaluation5				Evaluation6	Evaluation7
Mean	4.84	4.83	4.81	4.84	4.87	4.74	4.73
Variance	0.27	0.28	0.29	0.21	0.18	0.26	0.69
Standard Deviation	0.52	0.53	0.54	0.45	0.43	0.51	0.83
Standard Error	0.09	0.10	0.10	0.08	0.08	0.09	0.15
Minimum	3.00	3.00	3.00	3.00	3.00	3.00	1.00
Maximum	5.00	5.00	5.00	5.00	5.00	5.00	5.00

	Course	Course	Course	Course	Do Plan to	Do Not Plan To	Future Topics
	Evaluation8	Evaluation9	Evaluation10	Evaluation11	Modify	Modify	
						Management	
Mean	4.77	4.73	4.78	4.83	-	-	-
Variance	0.32	0.34	0.26	0.21	-	-	-
Standard Deviation	0.57	0.58	0.51	0.46	-	-	-
Standard Error	0.10	0.11	0.10	0.08	-	-	-
Minimum	3.00	3.00	3.00	3.00	-	-	-
Maximum	5.00	5.00	5.00	5.00	-	-	-