

Science Transforming Life®



A Systems-Based Educational Initiative to Improve the Team-Based Care and Health of Patients with Idiopathic Pulmonary

Fibrosis at an Academic Medical Center

Genentech: G-36867 July 2015-February 2017



Educational Outcomes Summary

18 Month Performance Improvement CME (PI CME) Initiative

Initiative Goal: To enhance the team-based care and improve the health of Idiopathic Pulmonary Fibrosis (IPF) patients at National Jewish Health (NJH) by improving documentation and processes to better assess and treat patients.

Background: The collaborative and interdepartmental team at NJH convened to assess the current Interstitial Lung Disease (ILD) program practices related to quality indicators for best practices in IPF, and identified several gaps and areas for improvement specifically related to quality of life metrics, data tracking and transition of care.

- ✓ 8 IPF Quality Indicators identified and measured over 602 patient visits
- Multidisciplinary ILD team meetings and coordination
- ✓ Electronic Medical Record (EMR) changes and workflow sustained
- ✓ Focus groups: patients and nurses
- ✓ Patient resources developed
- ✓ Patient surveys



Program Summary

Jul 2015 – Sep 2015 PLAN Oct 2015 – Sep 2016 DO Oct 2016 – Feb 2017 STUDY & ACT

Stage A:

Self Assessment

Stage B:

Educational Interventions/ Action Plans

Stage C:

Re-Assessment

Initiative Aims

- 1. Identify quality indicators
- 2. Improve multidisciplinary team collaboration
- 3. Develop sustainable education and tools
- 4. Improve patient communication and care
- 5. Improve patient continuity of care

Format

<u>Plan-Do-Study-Act</u> (PDSA) is an evidence-based model to:

- √ Test the change (Plan)
- ✓ Carry out the test (Do)
- ✓ Observe and learn from consequences (Study&Act)



Outcomes Dashboard

Understand/Address the Gap Practice/Extend the Solution

Program Chair

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National Jewish Health

Participants

9 Physicians

1 PA

6 Nurses

2 MAs

94%

Patients stated interventions improved quality



100% of physicians

reported the process changes are

"sustainable" to

"somewhat sustainable"

141%

Improvement in provider performance over 602

Patient Visits



Quality Indicators Identified Understand/Address the Gap

Eight quality indicators were identified as best practice and measured over one year. Physician performance and patient visits measured over one year individually and as a group.

Immunization recorded

6-minute walk test ordered

Nocturnal oximetry ordered

Weight loss intervention (nutrition consult, IPF education card w/ BMI scale)

Pulmonary rehabilitation referral

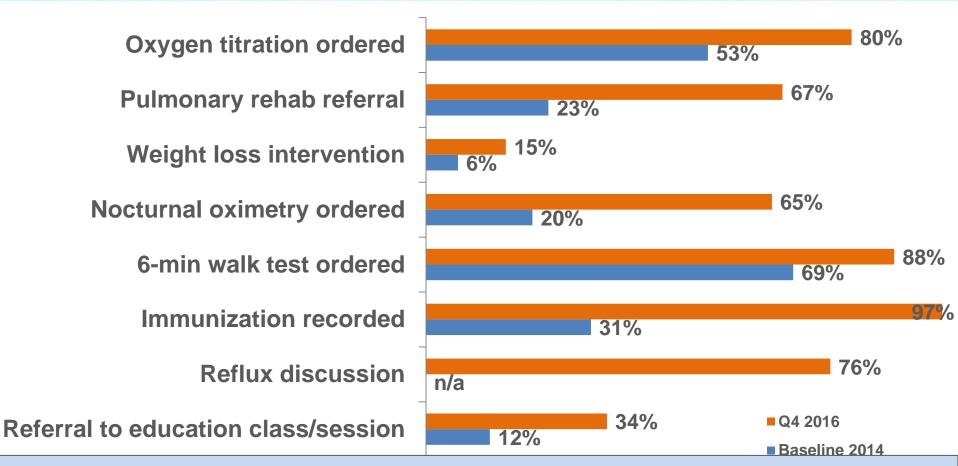
Oxygen titration ordered for new patients

Referral to education class or session conducted by ILD staff

Reflux discussion



Quality Indicators Measured Practicing/ Extending the Solution



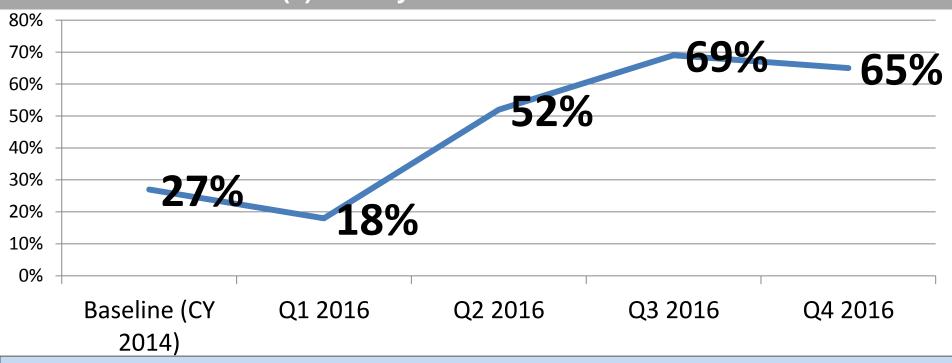
Average relative increase of aggregate metrics from baseline to post-intervention: 141%

Patients' care improved over 602 Visits



Quality Indicators Measured Practicing/ Extending the Solution

ILD Team Physician Performance - combined group performance on (8) Quality Indicators measured



Average relative increase of aggregate metrics from baseline to post-intervention: 141%

Patients' care improved over 602 Visits



Quality Indicators Measured Practicing/ Extending the Solution

	Baseline		Q1 2016		Q2 2016		Q3 2016		Q4 2016		Percent
	ш	0/	.11	0/	.11	0/	11	0/	.11	0/	Change Baseline
Measure	#	%	#	%	#	%	#	%	#	%	to Q4
IPF Patients (target											
population)	232		152		147		145		158		
BMI of 30 or greater only	126		88		85		73		81		
New patients	96		15		17		27		20		
Immunization recorded	73	31%	15	10%	135	92%	133	92%	153	97%	66%
6-minute walk test ordered	159	69%	68	45%	125	85%	128	88%	139	88%	19%
Nocturnal oximetry ordered	46	20%	23	15%	75	51%	95	66%	103	65%	45%
Weight loss intervention	8	6%	5	6%	12	14%	32	44%	12	15%	9%
Pulmonary rehab referral	54	23%	12	8%	50	34%	95	66%	106	67%	44%
Oxygen titration ordered for											
new patients	51	53%	6	40%	10	59%	21	78%	16	80%	27%
Referral to education											
class/education session											
conducted	27	12%	26	17%	29	20%	58	40%	54	34%	22%
Reflux discussion	n/a	n/a	2	1%	93	63%	120	83%	120	76%	76%



Key Interventions Understand/ Address the Gap Practice/ Extend the Solution

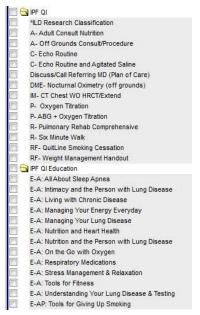
Division meetings with ILD team

- ✓ Discuss development of patient education activation card
- ✓ Gain feedback on new division process for educating patients

Electronic Medical Record (EMR) edits:

- ✓ Order sets specific to ILD divisions for prioritization of best care practices for IPF patients
 - Consolidated list of key quality indicators identified by the team
 - All education classes available and appropriate to IPF patients at National Jewish Health
- ✓ Addition of dictated note to serve as a reminder for the ILD team provider to document all appropriate conversations, recommendations, and actions taken with the patient regarding the eight metrics
- ✓ Generation of referring provider letter to improve communication regarding IPF patients

Order set from EMR





Key Interventions

Understand/ Address the Gap Practice/ Extend the Solution

Develop patient education activation card

- ✓ Prompt for healthcare professional discussion of best care practices with patients
- ✓ Including BMI chart for weight management discussion

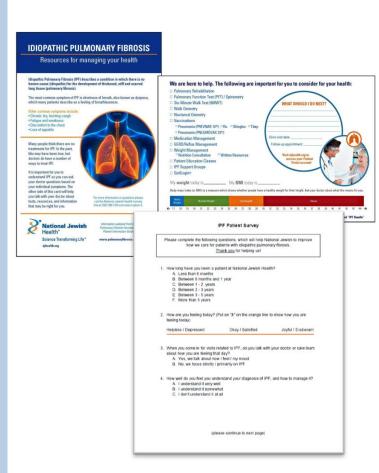
Focus groups

- ✓ Patient focus groups to assess patient's baseline IPF knowledge
- ✓ ILD team nurses (patient navigators) to understand effectiveness of initiative's educational and informational approach

Patient Surveys

✓ Survey of IPF patients to understand how new approaches were perceived

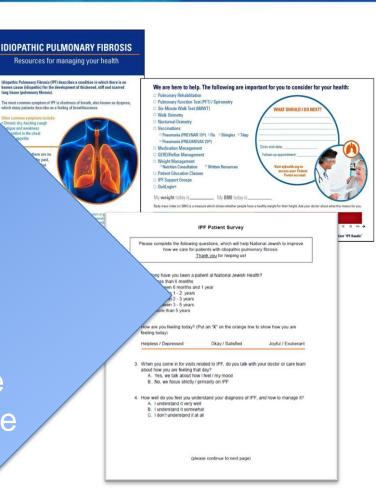
Patient Activation Card & Survey





Survey and Focus Groups

- Patient focus group analysis indicated the <u>patient activation card</u> developed in this initiative <u>was</u> considered helpful for understanding and managing the IPF diagnosis.
- Similarly, nurse focus group feedback demonstrated The patient activation card was critical, because it allowed them to approach or continue important conversations at the appropriate time for the patient





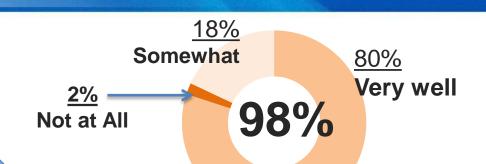
Patient Surveys (N=49) Patients Treated at NJH

Patients Treated at NJH During Measurement Period

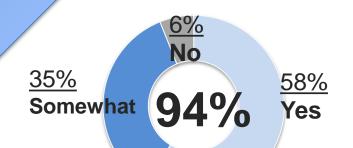
Patients treated at NJH during the measurement period indicated they understand their diagnosis.

Supporting focus group findings, patient survey responses related to **quality of life**:

96% of Patients stated
understanding their diagnosis
of IPF and how to manage it
has improved their
quality of life
(N=49)



Patients stated they understand their IPF diagnosis and how to manage it



Patients stated understanding their diagnosis of IPF and how to manage it has improved their quality of life

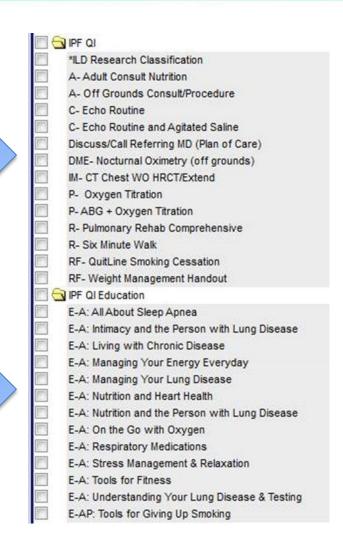


Qualitative Achievements Understand/Address the Gap Practice/Extend the Solution

Revised clinic workflow in ILD division for improved assessment, documentation impacting best patient care

Processes sustained

- Structured Order sets for best practice approach to IPF patients
- Discussion with patients to increase understanding of disease and management expectations





Provider Survey Outcomes

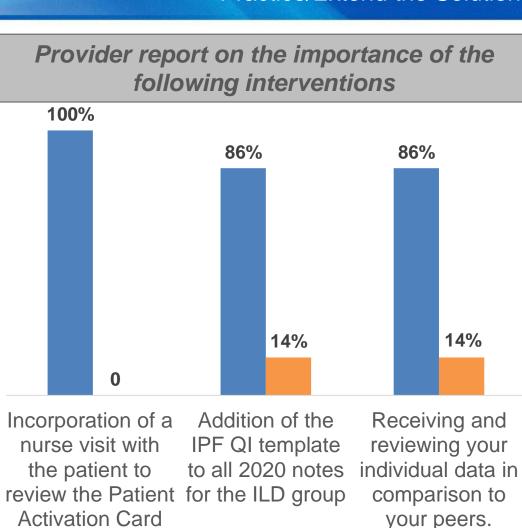
Understand/Address the Gap Practice/Extend the Solution

■ Not at All Important

100% of participating providers (N=7) report that they believe the process changes are "sustainable" to "somewhat sustainable" as a result of the activity

Providers report that the activity motivated them to do the following:

- Involve the ILD nurses more intentionally in the IPF patient visit (100%)
- Recognize the benefit of addressing related topics such as weight management and GERD with your IPF patients (71%)
- Talk about and/or refer to organizational support tools/resources with your IPF patients (57%)



■ Somewhat to Very Important



Conclusions Achieved Initiative Aims

1. Identify quality indicators

- ✓ Eight quality indicators identified as best practice, measured over one year. Physician performance and patient visits measured individually and as a group.
- 2. Improve multidisciplinary team collaboration
- ✓ 100% of the physician participants reported activity motivated them to Involve the ILD nurses more intentionally in the IPF patient visit.
- 3. Develop sustainable education and tools
- ✓ Patient activation card was developed with the ILD team and patient inputvalidated by the nursing and patient focus groups.
- 4. Improve patient communication and care
- ✓ Performance/patient care improved 141%. The patient activation card is provided to the patient, reinforced by ILD team, and allows the patient to initiate conversations after initial diagnosis whey they are able to better absorb information.
- 5. Improve patient continuity of care
- ✓ New referring provider letter to improve communication regarding IPF patients was implemented.



Conclusions

The initiative was successful in improving implementation of best care practices, and adjustments to the EMR to document these quality indicators supports sustainability. The initiative helped identify critical needs for improving our IPF patients' care as well as their understanding and management of the disease.

Lessons Learned as a result of this initiative

- Streamlining processes for the entire team aids in improving implementations of best practices overall
- > Time to allow patient education is limited, so engaging the team can both address the barrier and empower clinical team members
- We understand now that providing take away resources and incorporating conversations at variable times as dictated by the patient, rather than upon initial NJH ILD visit, is critical for success.



Accreditation

National Jewish Health is accredited by the Accreditation Council for Continuing Medical Education (ACCME) to provide continuing medical education for physicians and by the California Board of Registered Nursing to provide nursing contact hours for nurses.



National Jewish Health designated this initiative for:

20 AMA PRA Category 1 Credit(s) ™

for participating physicians



About NJH

- ✓ Largest pulmonary division in the world and the only hospital whose principal focus is respiratory and related diseases.
- √#1 or #2 ranking in Pulmonology category by U.S. News & World Report (since category was added in 1997).
- ✓ Top 7 percent of institutions funded by the National Institutes of Health, an extraordinary achievement for an institution of NJH's size.
- ✓ Designated as a Specialized Center of Research for ILD by The National Institute of Health.
- ✓ 30 doctors named to "America's Top Doctors" in 2015.





