

A Smart-phrase to Improve Documentation of Supportive Measures for IPF Christine Anderson, DNP, NP-C, Christine Tocchi, PhD, GNP-BC, Lake Morrison, MD, Craig Rackley, MD

Introduction

- · Idiopathic pulmonary fibrosis (IPF) is a chronic, progressive fibrosin interstitial pneumonia of unknown cause¹.
- Supportive care measures that are outlined by the clinical guidelines f treating IPF which provides patients with IPF management of the symptoms².
- These include breathlessness³, cough and fatigue and may include oxyge therapy, pulmonary rehabilitation, acid reflux therapy (for GERD symptoms sleep apnea testing and pulmonary hypertension assessment.

Project Aims

- Develop a smart-phrase of supportive care measures for IPF patients to k utilized by physicians during clinic visits.
- Assess knowledge base of the physician group on the ATS guidelines ar supportive care measures as evidenced by pre-test post-test scores durin an ATS guideline education seminar.
- Absent documentation of supportive care measures will decrease by 50% by the physician group.

Project Method

- Physician Education: Pre-test, education session on current ATS guidelines post-test.
- Chart review was performed on a random sample of IPF patient charts from the ILD clinic to identify the percentage of compliance by the physicia group with documentation of the supportive care measures.
- measured included supplemental oxygen, Variables pulmona rehabilitation, pulmonary hypertension assessment, vaccinatic gastroesophageal reflux, lung transplantation and sleep apnea.
- The smart-phrase that could be inserted into the patient chart in electronic medical record (EMR) by using a dot-phrase .IPFSUPPORT generate the checklist (Figure 1).



	Sample Demographics of ILD Physicians (n=7)							
	Gender							
ng	Male		6					
	Female		1	-				
or	Board Certified in Puln	nonary Medicine						
eir	Yes		7	7				
	Νο		C)				
en	Experience caring for I	PF Patients (in year	s					
s),	Range		1-1	10				
	Mean		4	ļ				
	Median		5					
	Mode		5					
	New Patients Seen in C	Clinic Per Week						
be			21 on a	verage				
	Figure 1.							
nd	.IPFSUPPORT							
ng		Supportive Care Measures for IPF patients						
0		therapy:	Already on oxygen					
%			No oxygen required					
			Not assessed					
			***	100.24				
	Puimona	ary Rehabilitation:	Rehabilitation program complete Enrolled in rehabilitation program					
	10000		Rehabilitation ordered					
es,	Electron Contraction of the Cont		Not assessed					

m	Vaccina	ons: Influenza up to date						
an	T THE COLUMN		Prevnar up to date					
			Pneumovax up to date					
iry			Not assessed					
n,	Pulmona	ary Hypertension:	Echocardiogram done					
			Echocardiogram ordered					
ne			Not assessed					
to		- Constant Sec	***					
	GERD:	On medical th						
		No reflux sym Not assessed	otoms noted					

	Sleep ar	onea: On therapy						
		Sleep study s	cheduled					
		Sleep study d	ne and no therapy indicated					
		Not assessed						
	• • • • • • •	*** ananlant Evoluatior						
		ansplant Evaluatior	 Not a transplant candidate Too early for referral 					
			Referral to transplant done					
			Not assessed					

Results

One-way repeated measures ANOVA analysis of Implementation Data											
	Pre-study		Post-implementation at 6 weeks		Post-six week implementation						
Supportive Care											
Measure	n=44	%	n=44	%	n=44	%	Significance				
Oxygen Therapy	41	93	44	100	44	100	p=.083				
Pulmonary Rehab	23	52	40	90	44	100	p<.000				
Pulmonary Hypertension	19	43	37	85	32	73	p<.000				
Vaccination	8	18	44	100	44	100	p<.000				
Lung Transplantation	16	36	35	79	42	95	p<.000				
GERD Treatment	33	75	44	100	44	100	p<.000				
Sleep Apnea	11	25	31	70	31	70	p<.000				
D.S. Let S. D. S. Market											

Discussion

- All project aims were met: smart-phrase developed, physician knowledge assessed with 100% accuracy, and absent documentation was decreased by more than 50%.
- Documentation of pulmonary hypertension and sleep apnea did not improve over 70% as these are often later findings in patients with IPF.
- There were noted to be a couple of barriers to complete documentation by the physician group: short new patient time-slots of 40 minutes which is not enough time to fully assess all pertinent systems, and there are other tests that need to be completed after the initial visit prior to a proper diagnosis being made.
- Using the smart-phrase did not increase the work-load on the physician which is consistent with current research.
- IPF is a progressive disease that worsens over time. Some of the co-morbid conditions have not developed at the initial visit and are often not assessed up front.