

# Quality Improvement in Transition: The Effect of a Transition Coordinator

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# **Problem Background**

Between 2014 and 2016 the UNC CF Center participated in the ONECF LL2. During those years, the Center created a transition program to help patients improve self-management of their disease, improve patient understanding of the medical system, and transition cystic fibrosis (CF) patients from pediatric pulmonology to adult pulmonology. This included implementing the CF R.I.S.E. program. CF R.I.S.E. is an online, goals-based program designed specifically to help prepare young adults with CF transition to adult care.

In order to sustain the program and translate the work to other pediatric subspecialties, in 2016 the Center leaders sought to hire a Quality Improvement Coordinator, who would have primary responsibility of implementing the new program and tracking outcomes.

# Goals

We aimed to improve transition process for adolescents with cystic fibrosis at UNC by creating a sustainable, streamlined, planned approach to transition. We expected this to decrease the number of delayed transitions, improve health literacy for patients, and improve both patient and provider satisfaction.

To do this we wil

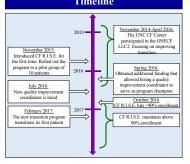
- > Hire a transition coordinator to oversee CF transition
- Streamline and formalize the transition process from the pediatric clinic to the adult clinic
- Write a transition protocol
- > Enroll ≥90% of eligible patients ages 16+ in CF R.I.S.E. by July 1, 2017
- Complete ≥ 60% of CF R.I.S.E. knowledge modules
- ➤ Increase scores by ≥20% for CF R.I.S.E. knowledge module retakes
- ➤ Transition ≥30% of eligible patients to the adult clinic each year

# What is CF R.I.S.E.?

CF R.I.S.E. is a free, online program available to any center that cares for patients with CF. It aims to prepare young adults to transition to adult care. The program focuses on gaining knowledge, building skills, taking responsibility for daily CF care, and setting and meeting goals.

# The Three Cornerstones of CF R.I.S.E: Responsibility Checklists Checklists are away to gauge what percentage of care is being completed by the patient with their caregiver. The patient and caregiver complete the checklists Transition Goals Transition Goals The quality improvement committee of goals.

# Timeline

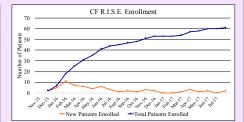


Interventions					
Problem	Background	Intervention	Result		
Transition was not a		In June 2016 the UNC CF Center hired a quality improvement coordinator to oversee transition,	After a few months, transition became a		
	program was diffused among the team so CF R.I.S.E. was	meet regularly with patients, make transition a routine part of patient care, and act as a champion	normal part of clinic and was integrated		
		for transition overall.	into clinic flow.		
Staff did not have	Due to a high patient volume (350+ pediatric patients and 280+	The quality improvement coordinator took over responsibility for all transition-related activities.	Engagement has increased dramatically.		
	adult patients) staff workloads were full, leaving little for	The coordinator oversaw patient transitions, implemented CF R.I.S.E. with both outpatients and	Transition is now a routine part of care,		
	transition. Staff were unable to regularly or meaningfully engage	inpatients, traced transition-related data, and documented in the medical record.	and has been well-received by the		
	patients in CF R.I.S.E., or track patient progress		majority of patients and families.		
Adding a transition	Adding transition into clinic for all patients over the age of	Patients used iPads to work on CF R.I.S.E. activities in the "down time" between seeing care team	Utilizing down time, which used to be		
	sixteen meant that clinic visits were longer, which frustrated	members during clinic visits. Near the end of the visit the quality improvement coordinator would	empty time, added value without adding		
	patients and held up exam rooms.	meet with patients to go over their results.	undue burden to clinic visits		
	Patients forgot about CF R.I.S.E. goals between visits, stalling	Quality improvement coordinator called patients within one week after their clinic visit to follow-	This initiative failed and was abandoned		
outpatient clinic visits	progress and delaying transition-readiness.	up on CF R.I.S.E. Ultimately, calling after visits proved unsuccessful as most patients were busy	in March 2017		
		with school and afterschool activities during office hours.			
	Patients kept forgetting CF R.I.S.E. password, causing delays	Intervention #1: the quality improvement coordinator called patients ahead of their appointments	This intervention failed and was		
	during outpatient appointments.	to remind them to bring their CF R.I.S.E. login information. This intervention ultimately failed, and necessitated intervention #2	abandoned in March 2017.		
information, causing			Definite and Constitution and and		
delays during clinic		Intervention #2: have patients program their CF R.I.S.E. login information into their cell phones,	Patients rarely forget their passwords and		
No formal transition	The process for transitioning a patient to the adult center varied	or stored in another secure location that was easily accessible during clinic visits  The quality improvement coordinator facilitated the creation of a standardized transition protocol,	visits generally run much more smoothly		
			Since implementing the protocol patient		
	considerably from patient to patient due to a lack of guidelines or a formal process.	written jointly by the pediatric and adult care. It was implemented in April, 2017.	hand-offs have gone smoothly and communication among the pediatric and		
nana-ojj	a formai process.		adult teams has improved		
Poor communication	Communication consistently broke down without an organized	The pediatric and adult care teams set up a monthly joint meeting to discuss transition and other	The new communication system works		
	transition process or clear lines of communication	cross-clinic issues. At the meeting we discuss upcoming transitions, match pediatric patients with	well and has been embraced by both the		
and adult teams	dansition process of cical lines of confindingation	an adult provider, review recent transitions, and designate communication point-people.	pediatric and adult teams		
		and property and p	F		

#### Data

CF R.I.S.E. Engagement										
			Knowledge Assessments			Responsibility Checklists				
As of Month	New Patients Enrolled	Total Patients Enrolled	Total Assessments Available	Completed Assessments for Month	Total Completed Assessments (Cumulative)			Completed Checklists for Month	Total Completed Checklists (Cumulative)	Checklist Completion Rate to Date
Nov-15		2	22	3	3	14.0%	12	0	0	0.0%
Dec-15		7	77	5	8	10.0%	42	3	3	7.0%
Jan-16		18	198	16	24	12.0%	108	3	6	6.0%
Feb-16		25	275	20	44	16.0%	150	14	20	13.0%
Mar-16		31	341	5	49	14.0%	186	6	26	14.0%
Apr-16		35	385	15	64	17.0%	210	13	39	19.0%
May-16	6	41	451	13	77	17.0%	246	7	46	19.0%
Jun-16	3	44	484	17	94	19.0%	264	2	48	18.0%
Jul-16	1	45	495	12	106	21.0%	270	10	58	21.0%
Aug-16	2	47	517	18	124	24.0%	282	10	68	24.0%
Sep-16	1	48	528	4	128	24.0%	288	7	75	26.0%
Oct-16		51	561	18	146	26.0%	306	3	78	25.0%
Nov-16	2	53	583	12	158	27.0%	318	2	80	25.0%
Dec-16	0	53	583	16	174	30.0%	318	0	80	25.0%
Jan-17	0	53	583	14	188	32.0%	318	0	80	25.0%
Feb-17	1	54	594	5	193	32.0%	324	0	80	25.0%
Mar-17	3	57	627	9	202	32.2%	342	0	80	23.4%
Apr-17	1	58	638	4	206	32.3%	348	0	80	23.0%
May-17	2	60	660	13	219	33.2%	360	1	81	22.5%
Jun-17	0	60	660	4	223	33.8%	360	0	81	22.5%
Jul-17	2	61	671	5	228	34.0%	366	0	81	22.1%

CF R.I.S.E. Knowledge Module Retakes							
Knowledge Assessment Topic	First Score Average	Last Score Average	Percent Improvement to Date	All Time National Average score (as of July 2017)	Number of Retakes Taken	Percent Improvement for Retakes Only	
CF Liver Disease (CFLD)	67	59	-11.9%	67	2	200%	
CF-Related Diabetes (CFRD)	84	84	0.0%	86	0		
College & Work	78	78	0.0%	82	0		
Equipment Maintenance & Infection Control	87	87	0.0%	89	0		
Female Sexual Health	90	89	-1.1%	89	2	13%	
General CF Health	88	88	0.0%	90	1	25%	
Insurance & Financial	73	71	-2.7%	71	1	54%	
Lifestyle	88	88	0.0%	91	0		
Lung Health & Airway Clearance	84	84	0.0%	88	3	5%	
Male Sexual Health	93	88	-5.4%	86	1	41%	
Pancreatic Insufficiency & Nutrition	76	74	-2.6%	75	2	31%	
Screening & Prevention	81	79	-2.5%	75	1	42%	
All Knowledge Assessments	83	81	-2.4%	82	13	37%	







## Results

Goals						
Hire a quality improvement coordinator	<b>V</b>					
Streamline and formalize the transition process	/					
Write a transition protocol	<b>/</b>					
≥90% enrollment in CF R.I.S.E. for patients with CF ages 16+	~					
Complete ≥60% of available knowledge modules in CF R.I.S.E.	×					
Improve CF R.I.S.E. knowledge module scores by ≥20% when retaken	×					
Transition ≥30% of eligible patients to the adult clinic each year	<b>~</b>					

- Over 95% CF R.I.S.E. enrollment has been sustained since October 2016.
- Completion of CF R.I.S.E. knowledge module rose from 21% to 34% between July 2016 and July 2017. Patients can only complete 1-2 modules per visit, so progress is slower than expected. We are prioritizing modules moving forward in order to improve.
- Completion of CF R.I.S.E. responsibility checklists dropped from 21% to 22%. In December 2016 we decided to have patients prioritize knowledge modules because we found they needed the knowledge in order to fully do the responsibility checklists.
- The majority of patients, families, and providers have expressed positive views of the new focus on transition
- CF R.I.S.E. is now a standard part of care and is
- integrated into the outpatient clinic workflow

  > All CF patients now go through a planned transition

## Lessons Learned

- ➤ Designate a transition champion
- ➤ Having one person act as a point person for both clinics—and as a consistent face for patients streamlined the program, increased efficiency, and relieved the workloads of other team members (nurses, psychologist, social workers, etc.) who had been undertakine transition-related activities
- ➤ When dealing with teenagers, texting is better than phone calls
- > Teenagers, due to school hours and afterschool activities, are not often at liberty to speak during office hours. Additionally, most of our adolescent patients said they would rather text than talk on the phone
- Create clear communication channels
- Creating clear lines of communication is essential for success. Designating point people at both the pediatric and adult clinics streamlines communication and maintains investment

# Conclusions

Adding the quality improvement coordinator to the care team has proven an effective way to increase engagement among patients, integrate transition into the normal outpatient clinic workflow, and improve the transition program overall. The quality improvement coordinator streamlined workflow for other staff members. Having a transition champion increased collaboration among the pediatric and adult teams, and provided consistency for patients and families. Overall, the initiative has been a success with patients, providers, and families.

#### Contact Information:

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