



Transitions: From Cancer Kid to Adulting

Tung Wynn, MD June 10, 2023

Transitions

- Definition
- Why is it important?
- What can we do to help?
- What are the transitions in our patients?

Transitions: A definition

- a change from one state or condition to another
 - Merriam-Webster Dictionary

Why are transitions important?



"There is nothing permanent except change." – Heraclitus, Ancient Greek Philosopher (540 BC - 480 BC)

- "If you always do what you've always done You'll always be where you are right now."
 - Unknown

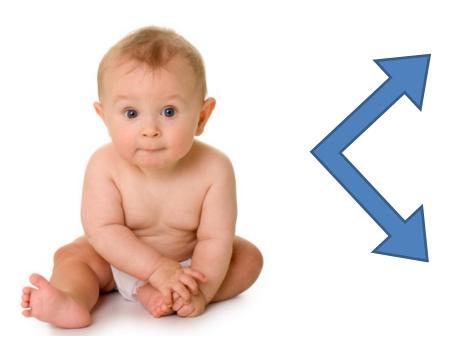
Why are transitions important?



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- In other words,
- No matter what you do or how hard you try, your kids are going to grow up.

Transitions



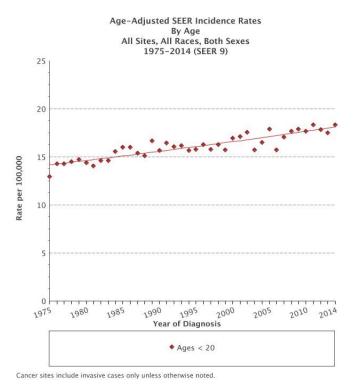






"When I grow up I want to be a little boy."– Joseph Heller

Pediatric Cancer Background



- The incidence of pediatric cancer is approximately 18 cases/100,000
- It is a relatively rare disorder

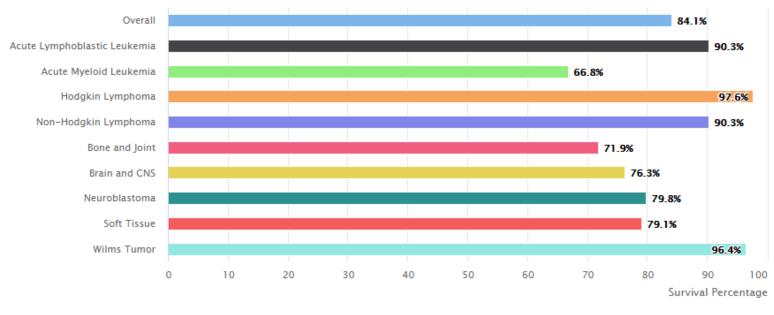
Pediatric Cancer Background

Table 6. Ten Leading Causes of Death by Age and Sex, United States, 2014

	ALL AGES		AGES	1 to 19	AGES 20 to 39		
	MALE All Causes 1,328,241	FEMALE Al Causes 1,298,177	MALE All Causes 12,128	FEMALE All Causes 6,538	MALE All Causes 65,486	FEMALE All Causes 30,221	
1	Heart diseases 325,077	Heart diseases 289,271	Accidents (unintentional injuries) 4,409	Accidents (unintentional injuries) 2,023	Accidents (unintentional injuries) 24,467	Accidents (unintentional injuries) 8,850	
2	Cancer 311,296	Cancer 280,403	Intentional self-harm (suicide) 1,681	Cancer 757	Intentional self-harm (suicide) 10,353	Cancer 4,440	
3	Accidents (unintentional injuries) 85,448	Chronic lowe respiratory diseases 77,645	Assault (homicide) 1,563	Intentional self-harm (suicide) 581	Assault (homicide) 7,040	Intentional self-harm (suicide) 2,649	
4	Chronic lower respiratory diseases 69,456	Cerebro- vascular disease 77,632	Cancer 1,028	Assault (homicide) 477	Heart diseases 5,077	Heart diseases 2,459	
5	Cerebro- vascular disease 55,471	Alzheimer disease 65,179	Congenital anomalies 498	Congenital anomalies 428	Cancer 4,020	Assault (homicide) 1,287	
6	Diabetes mellitus 41,111	Accidents (unintentiona injuries) 50,605	Heart diseases 373	Heart diseases 266			
7	Intentional self-harm (suicide) 33,113	Diabetes mellitus 35,377	Chronic lower respiratory diseases 158	Influenza & pneumonia 126	Diabetes mellitus 970	Chronic liver disease & cirrhosis 628	

 Cancer is the 2nd-Leading cause of death in children, only behind accidents and injuries

Pediatric Cancer Background

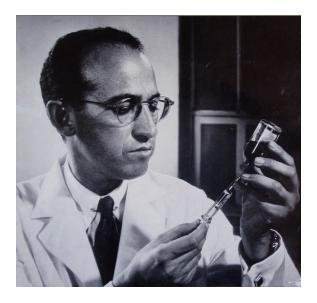


5-Year Survival Rate, Age 0-19

Source: Surveillance, Epidemiology, and End Results (SEER) Program (seer.cancer.gov) SEER 9 areas based on follow up of patients into 2015

- Survival for all pediatric cancers has been steadily improving.
- In 2017, 85% of children diagnosed with cancer are expected to survive

THE MEDICAL TRANSITION



- "Good parents give their children Roots and Wings. Roots to know where home is, wings to fly away and exercise what's been taught them."
 - Dr. Jonas Salk, Discoverer of the Polio Vaccine

2018 AAP Report on Transitions

Youth with medical complexity represent approximately 1% of all US children.

..programs have been established to provide outpatient and inpatient coordination and management for youth and young adults with medical complexity, recognizing their needs for more individualized planning and collaborative care partnerships between pediatric and adult clinicians or practices.

...Special populations may not represent the majority of youth transitioning to adulthood, but in the aggregate, they include those most vulnerable to poor outcomes and higher health care costs.

-Supporting the Health Care Transition From Adolescence to Adulthood in the Medical Home. *Pediatrics* (2018) 142 (5): e20182587.

Survivorship

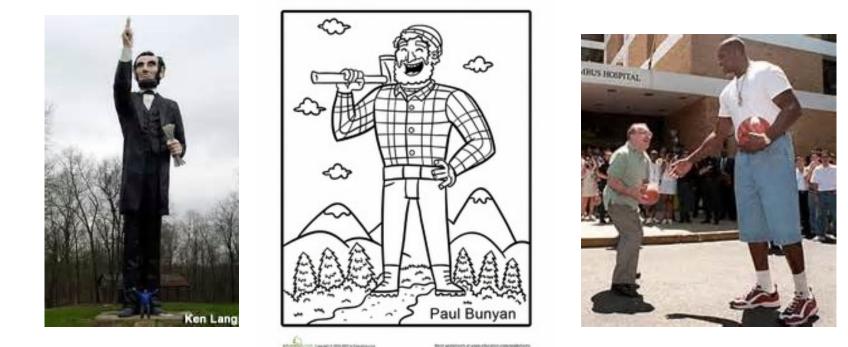
- Late Effects
 - Surgery: Local effects (Neurologic development, orthopedic function, scarring, cosmetic appearances)
 - Radiation: Local effects (Neurologic development, growth, secondary malignancy, organ and endocrine dysfunction)
 - Chemotherapy: Systemic effects (cardiomyopathy, pulmonary fibrosis, growth, neurologic development, xerostomia, secondary leukemia)

What can we do to help



SIX CORE ELEMENTS™ APPROACH AND TIMELINE FOR YOUTH TRANSITIONING FROM PEDIATRIC TO ADULT HEALTH CARE





 "You have to do your own growing no matter how tall your grandfather was."
 Abraham Lincoln

Transition Readiness Assessments

- University of Florida's Electronic Pediatric Transition Assessment Tool
- Transition Readiness Assessments are completed in all General Pediatric and certain Pediatric Subspecialty Clinics including Hematology and Oncology
- EMR allows for patient access and communication

Transition Readiness Assessments

(III) Patient Core	± ↓	I know how to make and cancel my own doctor's appointments.
Responsible 📩 Create Note	🖌 Show All Choices 🛛 🖋	No I want to learn Yes
Patient Core Questions	*	I have a way to get to my doctor's office.
I can explain my health needs to others		No I want to learn Yes 🔻 🗅
No I want to learn Yes 🔻 🗅		I know how to get a summary of my medical information (e.g. online portal).
I know how to ask questions when I do not understand what my doctor says.		No I want to learn Yes 🔻 🗅
No I want to learn Yes		I know how to fill out medical forms.
I know my allergies to medicines.		No I want to learn Yes 🔻 🗅
No I want to learn Yes		I know how to get a referral if I need it.
I know my family medical history.		No I want to learn Yes
No I want to learn Yes		I know what health insurance I have
I talk to the doctor instead of my parent/caregiver talking for me.		No I want to learn Yes
No I want to learn Yes		I know what I need to do to keep my health insurance.
I see the doctor on my own during an appointment.		No I want to learn Yes V
No I want to learn Yes		
I know when and how to get emergency care.		I talk with my parent/caregiver about the health care transition process.
No I want to learn Yes 🔻 🗅		No I want to learn Yes 🔻 🗅
I know where to get medical care when the doctor's office is closed.		I know my own medicines.
No I want to learn Yes 🔻 🗅		No I want to learn Yes 🖤 🗅
I carry important health information with me every day (e.g. insurance card, emergency	contact information).	I know when I need to take my medicines without someone telling me.
No I want to learn Yes		No I want to learn Yes
I know that when I turn 18, I have full privacy in my health care.		I know how to refill my medicine if and when I need to.
No I want to learn Yes		No I want to learn Yes
I know at least one other person who will support me with my health needs.		Patient Core - Action
No I want to learn Yes	1	V D

Transition Readiness Assessments

Specialties
Responsible 拉 Create Note 🗌 Show Last Filed Value 🗹 Show All Choices 👂
Pediatric Specialties
Pediatric Specialties
🗋 Primary Care 📋 Adolescent Medicine 📋 Allergy/Immunology 📋 Cardiology 📋 Craniofacial 🛛 🖷 🦷 🗋
CT Surgery Developmental/Behavior Diabetes Endocrine Gastroenterology
🗌 Infectious Disease 🗸 Hematology/Oncology 🗌 Nephrology 🗌 Neurology 🗌 Neuromuscular
Neurosurgery Ophthalmology Otolaryngology Orthopedics Surgery Psychiatry
Pulmonary Rheumatology Sleep Urology Other
HemOnc sub-specialty:
Hematology Oncology Sickle Cell
How confident do you feel about your ability to move to a doctor who cares for adults before age 22?
0 (not) 1 2 3 4 5 6 7 8 9 10 (very)
The transfer to adult health care usually takes place between the ages of 18 and 22. How important is it to you to move to a doctor who cares for adults before age 22?
0 (not) 1 2 3 4 5 6 7 8 9 10 (very)
What is most important to you when you transition to an adult doctor?
Specialty Summary - Action
▼ C
Has the patient received and reviewed the UF Health Transition Policy?
Yes No Not sure
Has the parent/caretaker received and reviewed the UF Health Transition Policy?
Yes No Not sure

Transition Education

• Education and Documentation Tool

ansition Education provided:	\mathbf{Q}	
Торіс	Date	Educator Initials
Age 12-14		
Transition Policy Provided		
✓ Diagnosis	1/3/23	DMR
Medications and their purpose		
Keeping track of your medications		
Disease Treatment Plan	1/3/23	DMR
Age 15-16	•	•
Clinic visit preparation		
Communicating with your care provider		
Following up with tests and labs	1/3/23	DMR
Contacting your care provider		
Keeping track of your appointments		
Age 17-Adults	•	•
Managing your money and budgeting		
Eating right and managing meals		
Refilling Medications		
Insurance		

SIX CORE ELEMENTS™ APPROACH AND TIMELINE FOR YOUTH TRANSITIONING FROM PEDIATRIC TO ADULT HEALTH CARE



Planning the Transfer

- Set a time of the transfer
- Identify barriers
- Identify an Adult Physician
- Outline the process
- Complete Medical Summary
- What happens after the transfer?

Planning the Transfer - Barriers

- Developmental Disability
- Financial Dependency
- Continuing Education College or Trade School
- Relocation
- Intimate Relationships
- Transportation
- Successful Adult Role Models

Planning the Transfer - Adult Physician

- Relates to overcoming the barriers
 - Relocation
 - Insurance
- Dedicated Survivorship Clinic
- Another Adult Oncologist
- An Adult Oncologist "practicing" Pediatrics
- Academic Center or Private Practice
- Primary Care Physician
- Offer to contact the new physician

Why are transitions important?



• "Parents can only give good advice or put them on the right paths, but the final forming of a person's character lies in their own hands."

– Anne Frank

 If change is inevitable, it is important that we give our patients the right tools to take care of themselves and lead successful lives

Cancer Treatment Summary

- Basic Demographics
- Diagnosis information
- Treatments Used
 - Chemotherapy
 - Surgery,
 - Radiation
- Complications experienced

CHILDREN'S ONCOLOGY GROUP

The world's childhood cancer experts

Long-Term Follow-Up Guidelines

for Survivors of Childhood, Adolescent, and Young Adult Cancers



Version 5.0 - October 2018





Website: www.survivorshipguidelines.org Copyright 2018 © Children's Oncology Group All rights reserved worldwide

Survivorship Care Plan

- Known or expected effects resulting from the treatments
- Degree of risks to health of these effects
- A monitoring and treatment plan for health maintenance

Passport for Care



	Demographic Information	🗭 Edit Demographics 🛛 💆 Delete Publient 🛛 🕹 Survivor Account
7 years old Male DOB: . Record Number Email:	Namir Medical Record Namber: Sex: Male Email Address	Dute of Birth: . Race/Ethnicky: White Address: , Unknown US
Manage Patient Record Cumulative Summary Abbreviated Summary Additional Information	Primary Diagnosis Diagnosis: Leukemia: Acute lymphoblastic leukemia Dute of Diagnosis: October 03, 2018 Date Therapy Completed: December 26, 2020	☑ Edit Primary Diagnosis Age at Diagnosis: 3 years, 3 months Primary Site: Bone Marrow
Follow-Up Guidelines Evaluations PLE Patient Output	Relapses No relapses entered.	C Add Relapse
PLE Patient Output (Spanish) Survivorship Care Plan	SMNs No SMNS entered.	C Add Salar
Health Links Printable Guidelines for	Treatment Center Primary Diagnosis: Leukemia: Acute lymphoblastic leukemia	Add Treatment Center
This Patient All Printable Guidelines	Primary utagnosis: Leukerna: Acute rymphobiastic teukerna University of Florida Driscoll Children's Hospital	E Delete
Cancer Screening Guidelines Evidence-Based Scoring	Protocol	Add Protocol
Survivor Account Revision History	Primary Diagnosis: Leukemia: Acute lymphoblastic leukemia Standard Risk ALL - AALL0932	B Delete

Cancer Treatment Summary

Chemotherapy		Add Chemotherapy
Primary Diagnosis: Leukemia: Acute lymphoblastic leukemia		
Methotrexate PO		🛅 Delete
Thioguanine (6TG)		🛅 Delete
Cyclophosphamide	1000 mg/m2	📋 Delete
Doxorubicin	75 mg/m2	🛅 Delete
Methotrexate (low dose IV)		🧰 Delete
Mercaptopurine (6MP)		a Delete
Methotrexate IT		🛅 Delete
Cytarabine IT		a Delete
Asparaginase		🛅 Delete
Dexamethasone		🔂 Delete
Vincristine		🛅 Delete
		.
Surgery		Add Surgery
No surgeries entered.		
Radiation		C Add Radiation
No radiations entered.		
Hematopoietic Cell Transplant		Add Hematopoietic Cell Transplant
No hematopoietic cell transplants entered.		
Other Therapeutic Modality		Add Other Therapeutic Modality
No other therapeutic modalities entered.		
Complications/Late Effects		Add Complication/Late Effect
No complication/late effects entered.		
Adverse Drug Reaction		C Add Adverse Drug Reaction

Survivorship Care Plan

Generously Supported by									
Passport for Care"		Patient I	nt List 🛛 🏖 User Administ	tration 🔐	Patient Report	8 +	Help/FAQs 🛛 🚀 Contact Us	Hi,	
	Recommende	ed Testing							
	All sections include History and	~							
	System		Exposure	Exposure		Screening		Frequency	
	Cardiovascular		Chemotherapy Anthracycline antibiotic Doxorubicin			E	Screening ECHO (or comparable imaging to evaluate cardiac function) EKG (include evaluation of QTc interval)	Baseline at entry into long-term follow-up, repeat as clinically indicated	
			To gauge the frequency of screenin doxorubicin isotoxic equivalents pri dose. Doxorubicin: Multiply total dose x Damorubicin: Multiply total dose x 0. Idarubicin: Multiply total dose x 5 Mitoxantrone: Multiply total dose x 5	prior to calculating total x 1 ex 0.5 0.67 5					
				Recom	mended Frequency of Echoc	icardiogram			
				Anthracycline Dose*	Radiation Dose**	Recomme Frequer			
				None	< 15 Gy or none	No screening			
					≥ 15 - < 35 Gy ≥ 35 Gy	Every 5 years Every 2 years			
				< 250 mg/m ²	< 15 Gy or none	Every 2 years Every 5 years			
					≥ 15 Gy	Every 2 years	211		
				instructions in section 3 **Based on radiation du chest, abdomen, spine [dose with potential impact e [thoracic, whole], TBI). See	et to heart (radiation ee section 76.	ersion tition to		
			Based on our	calculations you	should receive a p	periodic scr	creening every 5 years.		
	CNS		Chemotherapy Antimetabolite Methotrexate IT						
			Chemotherapy Antimetabolite Methotrexate IT				Screening Referral for formal neuropsychological evaluation	Baseline at entry into long-term follow-up, then periodically clinically indicated for patients with evidence of impaired educational or vocational progress	
	Dental		Chemotherapy Any Chemotherapy				Screening Dental exam and cleaning	Every 6 months	
	GI/Hepatic	Hepatic dysfunction; Sinusoidal obstruction syndrome (SOS) [previously known as veno-occlusive disease (VOD)]	Chemotherapy Antimetabolite Mercaptopurine (6MP) Thioguanine (6TG)			A A	Screening ALT AST Bilirubin	Baseline at entry into long-term follow-up, repeat as clinical indicated.	

Why use Passport for Care

- Quick and Easy to Use
- Linked to the Children's Oncology Group's Long-Term Survivorship Guidelines
 - Recommendations are up to date
- Accessible electronically from any computer

SIX CORE ELEMENTS™ APPROACH AND TIMELINE FOR YOUTH TRANSITIONING FROM PEDIATRIC TO ADULT HEALTH CARE



The Transfer

- Stick to the Plan
- Support the new team
 - Provide them with information
 - +/- Peds team at first clinic visit
 - Emphasize the adult team's leadership
- Support the patient and the family
 - Reassurance

SIX CORE ELEMENTS™ APPROACH AND TIMELINE FOR YOUTH TRANSITIONING FROM PEDIATRIC TO ADULT HEALTH CARE



Transition Completion

- Be available for questions
- Opportunity to get feedback on the process
- Quality Measures of the Transition Process
 - # visits/year to adult hematologist
 - # visits/year to Emergency Room
 - # prescription refills for hydroxyurea
- It is not closing the door
 - It is a child leaving his family to go to college
 - The pediatric team is still there to support them
 - Still like to know how patients are doing and where they are in life

Not just the medical transition

THE LIFE TRANSITIONS

What does adulting mean?

- Where in the world am I
- Your on your own
- College and Trade school
- Independence
- It's my decision
- My significant other
- Do I make enough money
- What is my health insurance plan





 "Too many people grow up. That's the real trouble with the world-- too many people grow up. They forget. They don't remember what it's like to be 12 years old."

– Walt Disney

Introduction of the Panel

• In their own words....