

Preparing Patients & Families for the Off-Therapy Transition

Emily Browne, DNP, RN, CPNP Director, Transition Oncology Program St. Jude Children's Research Hospital

APHON 44th Annual Conference & Exhibit September 4, 2020







Disclosure

• Emily Browne has no conflicts of interests to disclose.



Outline

- Cancer trajectory phases
- Transition Oncology Program (TOP) impetus
- Off-therapy transition research evidence
- Case examples pre-TOP
- TOP today
- Multi-disciplinary team
- Case examples post-TOP
- Outcomes
- Challenges
- **Future directions**
- Contact information



Childhood Cancer Trajectory Phases

- **On-therapy**
 - Receiving cancer-directed therapy (chemo/immunotherapy, surgery, radiation)
- Off-therapy/Early Survivorship
 - Surveillance for cancer recurrence, late effects
- Long-Term Survivorship
 - Late effect surveillance
 - St. Jude After Completion of Therapy (ACT) Clinic
 - Eligible at 5 years from diagnosis **and** 2 years off-therapy
 - Follow until at least 18 years old **and** 10 years off-therapy ${}^{\bullet}$





TOP Impetus

- Time between on-therapy and ACT = 2.5 to 5 years
 - Disease-focused evaluations every 3-12 months
 - Primary focus of oncology clinics is on-therapy patients
- Clinic- and clinician- level differences re: psychosocial, cognitive assessments for off-therapy patients
 - Lack of prospective screening for psychosocial and cognitive problems
 - Many patients receiving services only after problem noted
- Variable coordination w/ local primary care provider (PCP), specialists
- Pediatric psychosocial standards of care in children with cancer not consistently met for off-therapy patients



Case Example #1: pre-TOP

- 5 y/o male w/ neuroblastoma, nearing completion of therapy
- LOTS of anxiety about returning home after 1+ year
- Questions about health insurance coverage concerns
- Planning to enter kindergarten in the fall
- Needs PT, OT, speech therapy at home
- Needs local ophthalmology, gastroenterologist



Case Example #2: pre-TOP

- 4 y/o girl w/ Wilms tumor, first off-therapy visit (3-months)
- Parental concerns about lack of peer interaction
- Parents not very concerned about evident speech deficit
- Sub-specialty appointments out of sync w/ primary oncology visits
- Mild renal dysfunction in remaining kidney, hydration guidelines



Case Example #3: pre-TOP

- 13 y/o boy w/ osteosarcoma, off-therapy x 1 year
- Disclosed being bullied & physical altercation at school
- Social anxiety, not wanting to return to school
- New onset hypertension dx at outside hospital



Off-therapy Transition Research Evidence

- Interviews with parents (n=17) of children with ALL, 2 months off-therapy
 - Fear of relapse
 - Juxtaposing emotions
 - Return to normalcy
 - Change in relationship w/ healthcare team
- Interviews with families (n=10) of Swedish children w/ cancer, 2-11 months off-therapy
 - "Returning to a changed ordinary life incorporating a trying and contradictory experience"
 - "Feeling relief but still times of stresses and strains"
 - "Wanting closeness but sometimes lacking it"



Muskat et al., 2017; Bjork et al., 2011) Finding cures. Saving children.

Off-therapy Transition Research Evidence



Figure I. Grounded theory model: 'the end of treatment is not the end'

St. Jude Children's **Research Hospital**



'It's not going to go away'

McKenzie & Curle, 2012



Off-therapy Transition Research Evidence



Who Should Provide Transition Information?

Transition information providers FIGURE 2

Karst et al., 2018



St. Jude Children's Research Hospital

Off-therapy Transition Research Evidence

Information desired by parents and patients (%) TABLE 2

	Parent		Patient		
	Time 1	Time 2	Time 1	Time 2	
Communication with school staff	52.6	87.5	95.8	93.8	Physical activity recommendations
Communication with PCP	88.4	87.5	95.8	88.9	Review of follow-up tests
Emotional/adjustment issues	81.4	87.5	66.7	77.8	Review of late effects
Financial concerns/resources	56.1	76.7	58.8	81.8	Schedule of follow-up appointments
Health insurance information	53.5	54.8	55.6	83.3	School needs and resources
Health/physical restrictions	93.02	93.8	95.8	83.3	Supportive care/psychosocial services
Lifestyle behavior education	83.72	78.1	79.2	88.9	Transition to adult healthcare
Nutritional needs	67.44	71.4	77.3	87.5	Treatment summary
Patient employment/career	27.3	64.3	72.2	81.3	

Pa

10

arent		Patient		
me 1	Time 2	Time 1	Time 2	
74.42	78.1	62.5	58.8	
00	78.1	83.3	77.8	
7.62	96.9	95.7	94.4	
73.3	93.8	83.3	94.4	
58.5	22.2	50	80	
74.42	75.9	65.2	82.4	
35.7	78.1	83.3	88.9	
38.37	75	83.3	88.9	

Karst et al., 2018

St. Jude Children's Research Hospital

Off-therapy Transition Research Evidence



FIGURE 3 Transition timing

Karst et al., 2018

al., 2018 Finding cures. Saving children.



Discussion Question

- What challenges do you have related to patients transitioning off-therapy?
- What type of education do you provide at the end of therapy?
- Do you have any formal/informal off-therapy transition programs?
- Please include your name & where you work



TOP Scope

- Support oncology patients prior to end of therapy through first ACT visit
- Provide anticipatory guidance for major transitions:
 - On-therapy to off-therapy, community re-entry
 - Off-therapy to ACT
 - Adolescent to age of majority, adult health care
- Provide education and resources for transition-related needs
- Screen for psychosocial, cognitive, and physical effects/risks
- Assist with transition to local health care providers





Transition Oncology Program

St. Jude Children's Research Hospital









TOP Multi-Disciplinary Team

Role	Team Members	Visit Schedule
Academic Coordinators	3	Age 3+: Pre-EOT & PRN
Nurse Practitioner Navigators	3	Intro, Initial (1-2 months p EOT), EOT, yearly, PRN; screening b/t visits
Rehabilitation Services Coordinator	1	w/ Rehab needs: ~1-mor pre-EOT & PRN
Psychologists	3	1-2 months pre-EOT & PF
Psychological Examiner	-	1 st off-therapy visit
Social Workers	2	1 st off-therapy visit & PR
Total	12	

EOT = End of Therapy





Academic Coordinators

- Educate patients/families about the potential for cognitive late effects that can influence learning and school performance
- Assist school personnel in understanding the impact of treatment so they can monitor for changes in learning or behavior
- Provide recommendations for an IEP or 504 Plan and support families in navigating the evaluation process
- Follow up with patients/families regarding results of psychological testing



Nurse Practitioner Navigators

- Introduce TOP services to patients/families
- Develop and update oncology treatment summaries
- Serve as a liaison between primary oncology team, St. Jude subspecialists, primary care providers, local sub-specialists
- Provide education about late effects, healthy behaviors, health literacy
- Screen for physical, psychosocial, cognitive concerns between appointments
- Serve as a point of contact for transition-related needs



TOP Oncology Treatment Summaries

- **Diagnostic information**
- Chemotherapy, surgery, radiation therapy details
- Disease status
- Late effect surveillance
- Past medical history, ongoing problems
- Central line, other devices
- Current medications
- Management recommendations (fever, immunizations, dental)
- Healthy lifestyle recommendations
- Contact information





Rehabilitation Services Coordinator

- Help families identify providers
 - Physical therapy, occupational therapy, speech/language pathology, audiology
- Educate families on obtaining services in their local community
- Assist families with navigating insurance benefits
- Care coordination with Head Start, early intervention, and school via IEPs and 504 plans
- Ensure continuity of care between outpatient and inpatient rehab facilities



Psychologists

- Evaluate potential behavioral, social, emotional, or family functioning factors that may impede successful transition
- Locate or provide support to mitigate the impact of transition barriers
- Assess for potential cognitive and academic risks
 - Collaborate with the family and TOP Academic Coordinators to implement recommendations to bolster academic success
- Provide anticipatory guidance and psychoeducation on potential emotional/adjustment, social, and academic concerns, as well as strategies for seeking support



TOP Cognitive Screen

- Scheduled for first off-therapy visit, approximately 90 minutes
- Follow-up letter with results, recommendations
- Academic Coordinator consultation for "flagged" screens

Domains Assessed
Developmental Skills (0-3.11)
Estimated IQ
Working Memory
Processing Speed
Attention
Academics
Mood/Behavior



Social Workers

- Conduct psychosocial transition assessments
 - Vocational, educational, and mental and behavioral health
 - Insurance status
 - Access to local medical care
 - Medical decision making (e.g. conservatorship)
- Interventions
 - Psychoeducation and anticipatory guidance
 - Supportive counseling
 - Connect to hospital- and community-based resources



TOP Resources

- Oncology Treatment Summaries
- Cognitive screen
- Local service navigation
 - Rehab, Mental Health, Medical (Primary/Specialty)
- Health insurance assessment (MedAssist)
- *Together* website (<u>www.together.stjude.org</u>)
- Patient Family-Centered Care (Parent Mentors)
- Adult health care skills assessment/education (TRAQ)



Case Example #1: pre-TOP

- 5 y/o male w/ neuroblastoma, nearing completion of therapy
- LOTS of anxiety about returning home after 1+ year
- Questions about health insurance coverage concerns
- Planning to enter kindergarten in the fall
- Needs PT, OT, speech therapy at home
- Needs local ophthalmology, gastroenterologist



Case Example #1: post-TOP

- 5 y/o male w/ neuroblastoma, nearing completion of therapy
- **Psychologist:** Emotional support, coping strategies related to transition anxiety
- Social Worker: Addressed insurance coverage concerns
- **School Liaison**: School entry, accommodations for hearing deficits
- **Rehab Coordinator**: Arrangements for local PT, OT, speech
- **NP Navigator**: Coordination w/ local ophthalmologist, gastroenterologist, pediatrician



Case Example #2: pre-TOP

- 4 y/o girl w/ Wilms tumor, first off-therapy visit (3-months)
- Parental concerns about lack of peer interaction
- Parents not very concerned about evident speech deficit
- Sub-specialty appointments out of sync w/ primary oncology visits
- Mild renal dysfunction in remaining kidney, hydration guidelines



Case Example #2: post-TOP

- 4 y/o girl w/ Wilms tumor, first off-therapy visit (3-months)
- **Social Worker**: Addressed parental concerns about lack of peer interaction
- **Psychologist:** Cognitive Screener flagged concern for speech delays
- **School Liaison**: Follow-up re: concerns for speech delays
- **Rehab Coordinator**: Arrangements for local speech therapy
- **NP Navigator**:
 - Worked w/ SJ sub-specialty clinics to avoid prolonged or additional return visits
 - Oncology treatment summary outlined hydration recommendations, letter



Case Example #3: pre-TOP

- 13 y/o boy w/ osteosarcoma, off-therapy x 1 year
- Disclosed being bullied & physical altercation at school
- Social anxiety, not wanting to return to school
- New onset hypertension dx at outside hospital



Case Example #3: post-TOP

- 13 y/o boy w/ osteosarcoma, off-therapy x 1 year
- **NP Navigator**:
 - Screening contact revealed new issues: being bullied & physical altercation at school, social anxiety, new onset hypertension
 - Obtained records related to hypertension, updated treatment summary
- **Social Worker**: Follow-up re: bullying, local mental health
- **School Liaison**: Follow-up re: plans for school this fall; bullying resource for teachers
- **Rehab Coordinator**: Previously identified local PT options
- **Psychologist:** Previously worked with patient on school avoidance



Outcomes Measurement

- Process measures:
 - Transition to PCP, local specialists, medications, mental health
 - Immunization catch-up
 - Oncology treatment summaries for every patient
- Outcome measures:
 - Adequate social and emotional support
 - Improved health literacy
 - Patient/Family, oncology team, PCP satisfaction
 - Successful school re-entry with appropriate accommodations
- Balance measures:
 - Additional appointments
 - Role confusion



Current Metrics

	%
Patients w/ PCP identified by EOT	82%
Successful between-appointment screening contacts	68%
Patients "flagged" by cognitive screener	
Patients w/ established local rehab services (as recommended)	80%





Survey of Primary Services (May 2020)

- What is the TOP team doing well?
 - "Everything! We love the program and honestly haven't had near the amount of **problems** as before with patients transitioning. Excellent resource, very comprehensive!"
 - "I really appreciate the concept of TOP and that **psychosocial support** is integrated in. The transition back to home and real life can offer significant psychosocial difficulties, so this is great!"
 - "Preparing patients to leave SJ campus. Setting realistic expectations for off therapy services from SJ."
 - "Accessibility, communication with primary team, response to families in a timely manner."





Survey of TOP Families (Spring 2020)

- How did TOP support your family during the transition off therapy?
 - "We had a few appointments leading up to our end of therapy. Each time it was good to know what was coming and how we would be supported as we transitioned off therapy. Now just two weeks off therapy we have already had a TOP rep call to check in and see how things are going. While we are in the midst of COVID especially it is nice to know that we haven't been tossed to the wind with the hopes it all works out."
 - "They have **kept in touch** to see how my son is doing since off treatment and always ask if we have any concerns or need any additional services after moving home. Rehab services followed up with us regarding speech and referred us to MO First Steps."



Survey of TOP Families (Spring 2020)

- How did TOP support your family during the transition off therapy?
 - "Primarily, TOP gave me a **point person** to talk to regarding "life after chemo and weekly trips to St. Jude." We were able to **discuss needs and options** for our child in regards to nutrition, physical therapy, occupational therapy, psychology, education and overall care. We were concerned about the side effects and TOP made it a priority to help us calm our concerns."
 - "I had many questions and worries when my son finished treatment, and the TOP team were super helpful. They eased my worries."





Challenges

- Rapid expansion
- Patient tracking
- Inconsistency among clinicians re: recommendations
- Avoidance of redundancy
- "Too many cooks"
- Lack of baseline data



Future Directions

- Research studies
- Telehealth
- Transplant population



References

- Bjork, M., Nordstrom, B., Wiebe, T., & Hallstrom, I. (2011). Returning to a changed ordinary life--families' lived experience after completing a child's cancer treatment. Eur J Cancer Care (Engl), 20(2), 163-169. doi:10.1111/j.1365-2354.2009.01159.x
- Hobbie, W. L., Ogle, S. K., Reilly, M., Ginsberg, J. P., Rourke, M., Ratcliffe, S., & Deatrick, J. A. (2010). Identifying the educational needs of parents at the completion of their child's cancer therapy. J Pediatr Oncol Nurs, 27(4), 190-195. doi:10.1177/1043454209360778
- Karst, J. S., Hoag, J. A., Chan, S. F., Schmidt, D. J., Anderson, L. J., Englebert, N. E., . . . Bingen, K. M. (2018). Assessment of end-of-treatment transition needs for pediatric cancer and hematopoietic stem cell transplant patients and their families. Pediatr Blood Cancer, 65(8), e27109. doi:10.1002/pbc.27109



References

- McKenzie, S. E., & Curle, C. (2012). 'The end of treatment is not the end': parents' experiences of their child's transition from treatment for childhood cancer. *Psychooncology*, 21(6), 647-654. doi:10.1002/pon.1953
- Muskat, B., Jones, H., Lucchetta, S., Shama, W., Zupanec, S., & Greenblatt, A. (2017). The Experiences of Parents of Pediatric Patients With Acute Lymphoblastic Leukemia, 2 Months After Completion of Treatment. J Pediatr Oncol Nurs, 34(5), 358-366. doi:10.1177/1043454217703594
- Nagel, K., Eves, M., Waterhouse, L., Alyman, C., Posgate, S., Jamieson, J., . . . Wright, M. (2002). The development of an off-therapy needs questionnaire and protocol for survivors of childhood cancer. J Pediatr Oncol Nurs, 19(6), 229-233. doi:10.1177/104345420201900607



Let's continue the discussion & questions...

- emily.browne@stjude.org or top@stjude.org
- www.stjude.org/top

