

IMPLEMENTATION OF A PROGRAM ASSESSMENT ACROSS A NETWORK OF 7 HCT PROGRAMS TO ASSESS RISKS ASSOCIATED WITH CLINICAL OUTCOMES BASED ON THE 2015 CIBMTR CENTER-SPECIFIC SURVIVAL SUPPORT

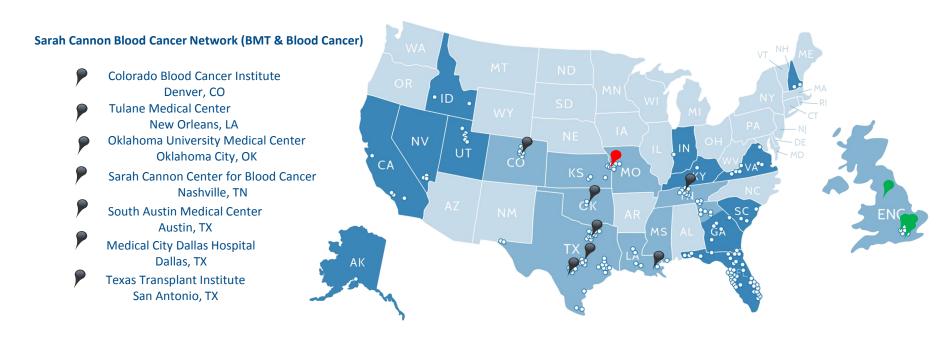
February 23, 2017

DISCLOSURE STATEMENT

I have no relevant disclosures



SARAH CANNON/HCA PROGRAMS



Sarah Cannon Blood Cancer Network program (Blood Cancer)

Sarah Cannon Center for Blood Cancer at Research Medical Center Kansas City, MO

HCA BMT Program outside of SCBC Network

Harley Street at UCH (A)
Harley Street Clinic (P)
London Bridge (A)
London, UK

The Christie Clinic Manchester, UK



SARAH CANNON BLOOD CANCER NETWORK





Standardized BMT pathways **~2,300**patients enrolled in heme trials since inception





Comprehensive Patient Management Software 350+ blood cancer publications to date

Together, we provide world-class blood cancer care close to home for tens of thousands of patients



CIBMTR SURVIVAL OUTCOMES



2014 - 2015 TRANSPLANT CENTER-SPECIFIC SURVIVAL

Survival Statistics for Related and Unrelated Allogeneic Transplant 2015 Survival Outcome Results 2014 Survival Outcome Results (2010 - 2012 timeline) (2011 - 2013 timeline)**Predicted Survival** Predicted Actual Actual % Survival % Survival% (95%CI) Survival % (95% CI) **MCDH** 66.5 64.1 64.5 66.3 Dallas (55.8-72.5)(58.0-75.0)**PSLMC** 69.6 67.7 67.9 66.6 (62.3-73.2)(61.6-71.9)Denver TCMC 59.4 70.7 52.5 70.4 Nashville (55.4-85.4)(56.6-83.6)60.6 TMC 73.6 62.8 74.3 **New Orleans** (58.6-87.5)(59.7-88.0)**OUMC** 61.7 68.1 64.1 67.6 Ok City (60.1-76.2)(58.7-76.4)MH 62.1 59.1 64.9 66.5 (59.0-70.9)(60.8-72.6)San Antonio



Data Sources: 2014 & 2015 CIBMTR Final Transplant Center-Specific Survival Report

2013 SORROR HCT-CI SCORING COMPARISON – PRE AUDIT (2015 CIBMTR REPORT)

Red indicates
the % is less
than the
National CI
average

Red indicates the % is less than the National CI average

	2013 URD	MCDH	CBCI	тсмс	ТМС	оимс	TTI	National
	0	39%	35%	14%	17%	22%	54%	34%
	1	0%	19%	14%	17%	11%	26%	13%
١	2	11%	24%	14%	17%	11%	7 %	14%
	3	22%	8%	0%	17%	33%	11%	16%
	4	17%	5%	29%	17%	22%	0%	10%
	<u>≥</u> 5	11%	8%	29%	17%	0%	2%	12%

	2013 MRD	MCDH	CBCI	TCMC	TMC	OUMC	TTI	National
	0	42%	56%	36%	67%	22%	66%	37%
	1	17%	11%	0%	0%	11%	16%	14%
٢	2	8%	14%	27%	0%	11%	6%	13%
l	3	25%	8%	9%	33%	22%	3%	16%
1	4	8%	6%	18%	0%	0%	3%	8%
	<u>≥</u> 5	0%	6%	9%	0%	33%	3%	12%



SARAH CANNON IMPLEMENTED A DETAILED PROGRAM ASSESSMENT

In collaboration with the CEOs, Medical Directors and the BMT program staff, Sarah Cannon staff performed assessments at each of the BMT programs during the first 6 months of 2016. We reviewed 318 Allogeneic Charts

The objectives of the assessment were:

- To determine if transplanted patients met the SC patient selection criteria, which were developed and approved by the Sarah Cannon Blood Cancer Network physicians
- To determine accuracy of key data fields against source documentation
- To collaborate on forward-thinking processes to strengthen patient outcomes

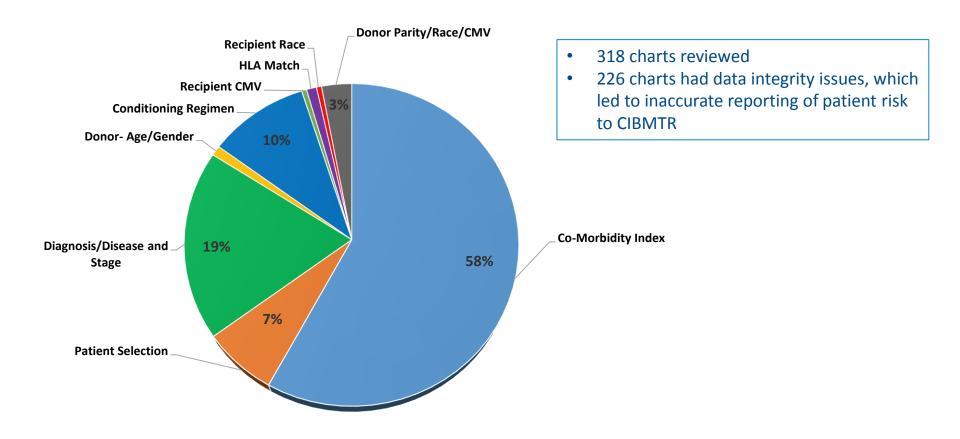
The assessment consisted of reviewing a large sample of the following:

- Mortality Review for patients who died within 1 year of transplant 2012 2014
- Review Pre-Ted Reports for allogeneic transplant patients 2012-2014
- Review Patient Selection Assessment
- Review Disease status reporting process review
- Assess Program's long term follow-up process

During the review of patient records we found consistent issues impacting data integrity that led to inaccurate reporting of patient risk to CIBMTR



SUMMARY OF FINDINGS FROM OUR CHART REVIEW



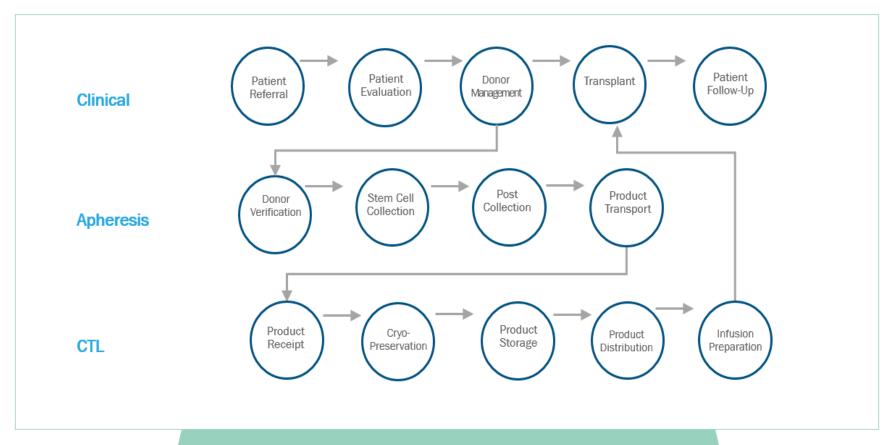


CORRECTIVE ACTION PLAN

Identified Opportunity	Actions	
Sorror HCT-Comorbidity Index	 Implement a pre-transplant dictation template. Provide education on how to score a patient using the Sorror Comorbidity Index, using Dr. Sorror's article "How I assess the Comorbidity before hematopoietic cell transplantation". Include physician review and sign-off. 	
Karnofsky Score	 Include the Karnofsky score in the pre-transplant dictation template. Provide education on how to score a patient using the Karnofsky score. 	
Disease Status	 Implement a process to ensure disease status at time of transplant is documented in the pre-transplant dictation. Implement a process to ensure disease status is verified within 60 days prior to transplant. 	
Conditioning regimen	 Programs were reporting the same conditioning regimens under multiple categories of intensity. Recommended implementation of the CIBMTR conditioning regimen intensity guidance. 	
Long Term Follow-up	 Implement a comprehensive long term follow-up program to ensure post-transplant allogeneic patients receive appropriate long term care. Hire a long term follow-up/post-allogeneic transplant coordinator. 	
Data Management	 Submit all corrected data fields, based on the errors identified to CIBMTR. Provide support to data coordinators to include physician review of key data fields. 	
StafaCT Implementation	Full adoption of StafaCT	



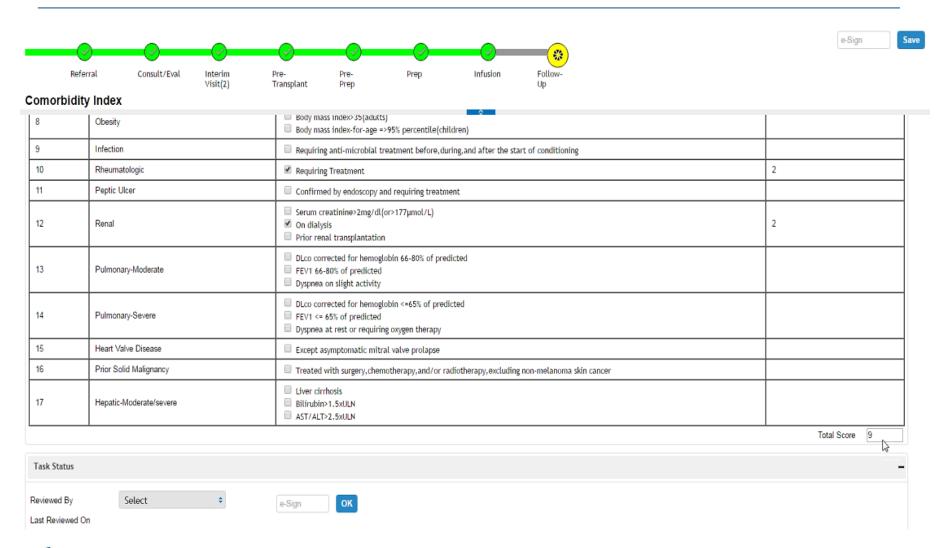
WORKFLOW SOFTWARE SOLUTION, ALLOWING COMPLAINCE MANAGEMENT



Supported by Data Management and Quality & Compliance Modules



STAFACT – CMI SCREEN (2 OF 2 SCREENS TO BE COMPLETED BY PHYSICIAN)





TTI'S 2013 SORROR HCT-CI SCORING COMPARISON - PRE AUDIT VS POST-AUDIT

2013 URD	TTI 2015 CIBMTR	TTI 2016 CIBMTR
0	54%	17%
1	26%	11%
2	7%	9%
3	11%	24%
4	0%	20%
<u>≥</u> 5	2%	20%

2013 MRD	TTI 2015 CIBMTR	TTI 2016 CIBMTR
0	66%	28%
1	16%	13%
2	6%	9%
3	3%	25%
4	3%	13%
≥5	3%	9%

All Allogeneic Charts were reviewed at Texas Transplant Institute, having a significant positive impact on CI Scoring!

Data Sources: 2015 & 2016 CIBMTR Final Transplant Center-Specific Survival Report



LONG TERM FOLLOW UP – PROGRAM DEVELOPMENT

- Identified the need to implement a comprehensive long term follow-up program
- Physicians agreed to develop a standardized approach across the Network
- An APP lead taskforce was formed to establish standard of care for patients in the LTFU setting
- Goals of the taskforce

☐ Define LTFU model
☐ Determine Staffing/Resources
☐ Scheduling/Frequency of Visits
☐ Develop Order Sets/Pathways
☐ Develop Practice Guidelines
☐ Develop Discharge Guidelines
☐ Develop Communication Plan for Referring Physicians
☐ Determine Consulting Services needed for LFTU care
☐ Work with StafaCT to develop a Post-Transplant module (Long-term Care/Survivorship)

 Other Key Considerations as we build our LTFU program is the work the NMDP/Be The Match is doing around patient-centered outcomes, which is being led by Dr. Linda Burns





THANK YOU

I would like to recognize and sincerely thank all of the staff across the Sarah Cannon Blood Cancer Network who participated in the assessments at our 7 HCT Programs!