

HSCT in 2020
System Capacity Initiative

Hematopoietic Stem Cell Transplantation System Capacity Initiative:



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SIGNIFICANCE AND BACKGROUND

Hematopoietic stem cell transplants (HSCT) is the only known curative therapy for many patients with life-threatening hematologic and oncologic diseases. More than 20,000 HSCTs are performed in the US annually, and this number is expected to increase. To address infrastructure challenges, the System Capacity Initiative (SCI) convened a working group comprised of broad representation from key professional academic organizations, experts and stakeholders, and National Marrow Donor Program (NMDP) Network transplant centers.

SURVEY OBJECTIVES

- To assess current medical center capacity for transplantation
- To characterize future expansion plans
- To identify factors that influence the decision to expand HSCT-related facilities

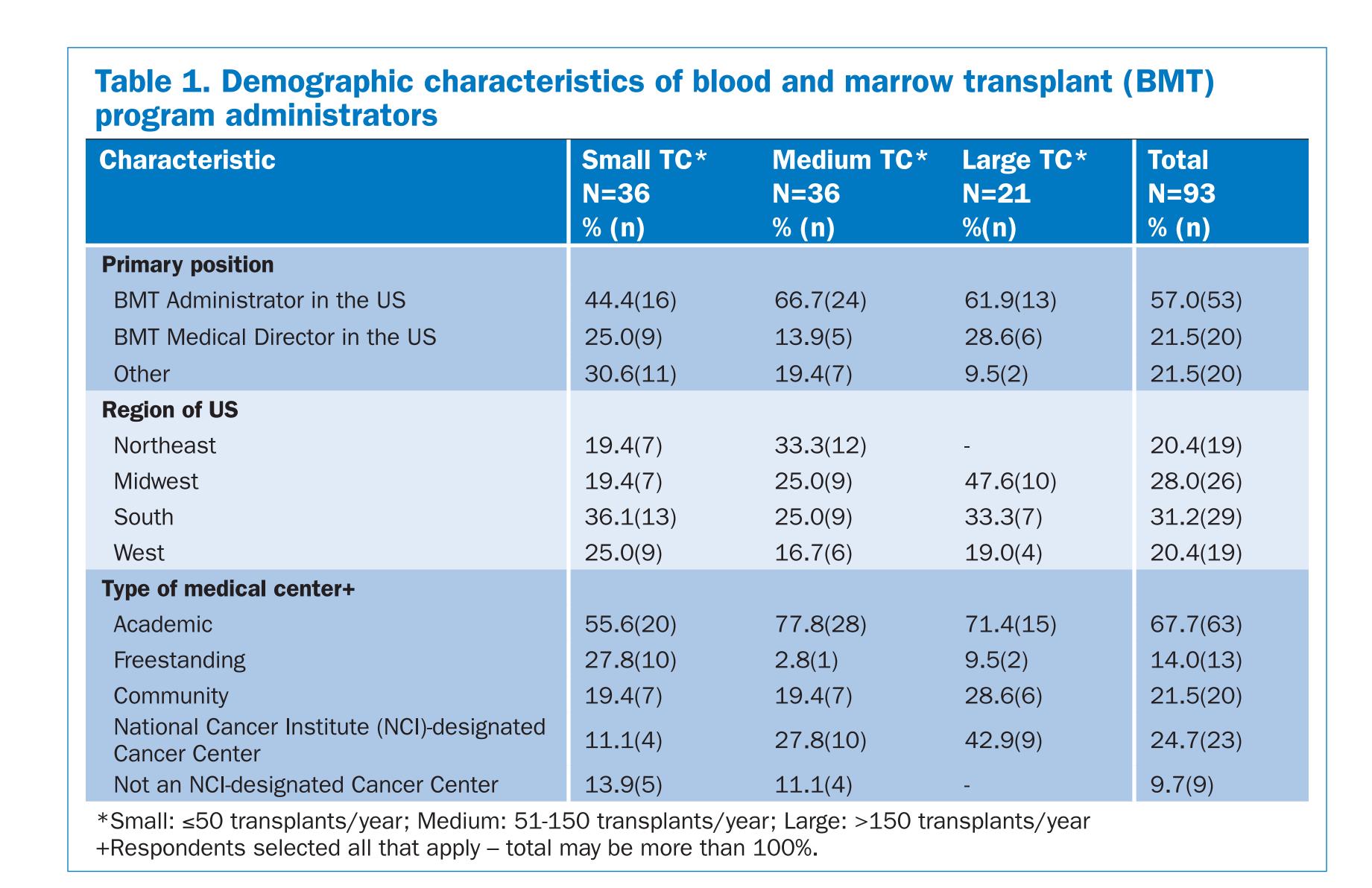
METHODS

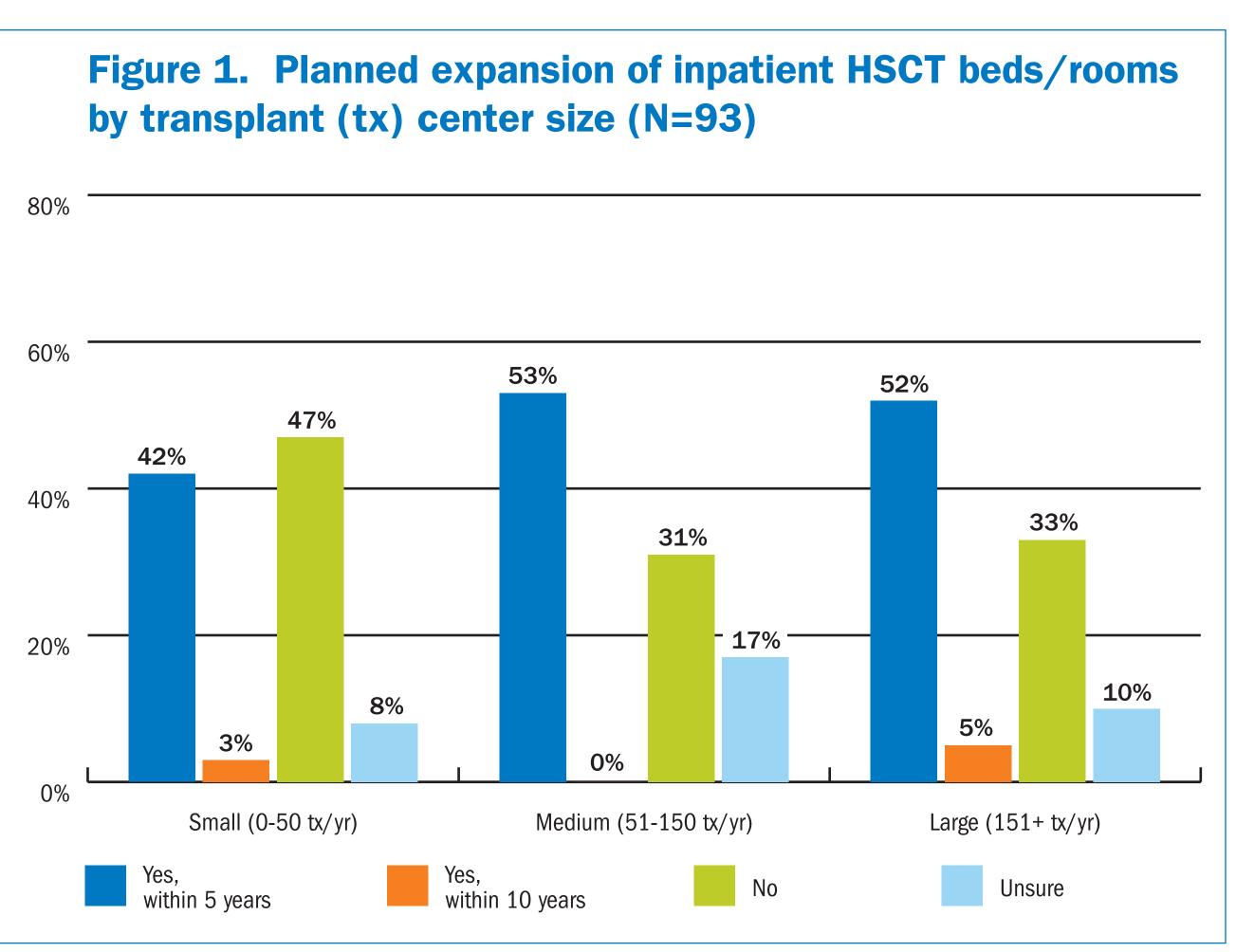
- This study utilized a 30-item cross-sectional survey design. Primary data was collected via internet survey from July 7 – August 6, 2010
- The survey invitations were emailed to marrow and cord blood transplant (BMT) coordinators/data managers of NMDP network and registered Center for International Blood and Marrow Transplant Research transplant centers in the US. Coordinators/data managers were asked to forward the survey to the center BMT administrator or medical director
- Descriptive analysis was performed using SPSS

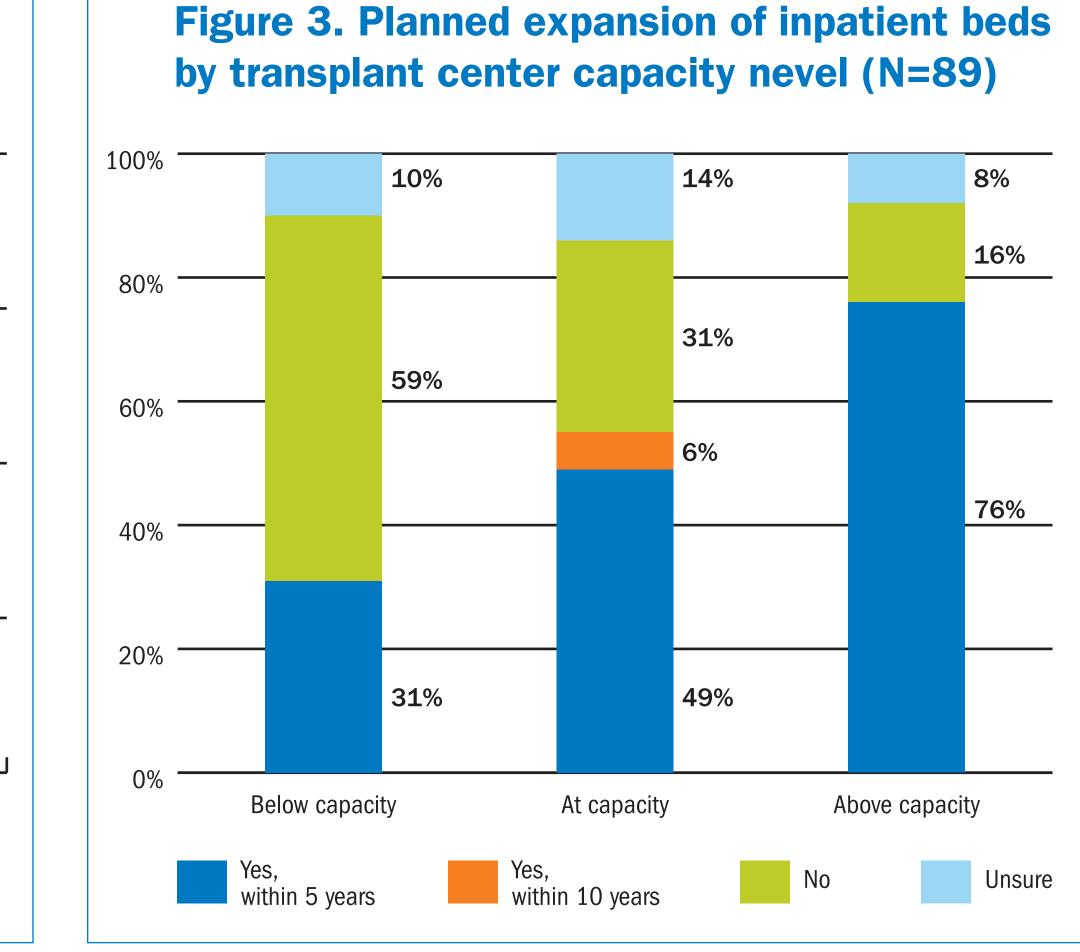
FINDINGS

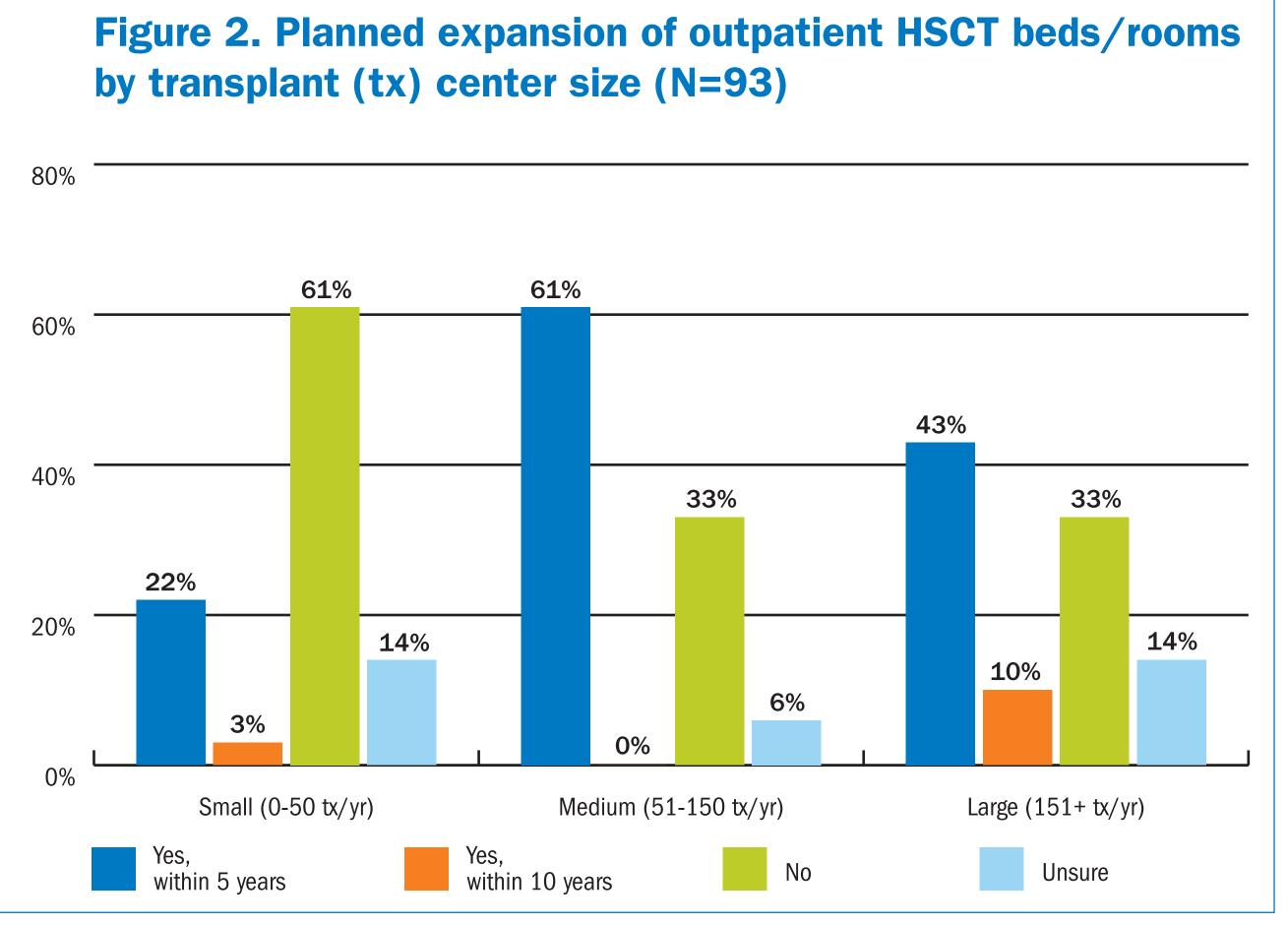
The survey invitation was emailed to 270 BMT coordinators/data managers with an estimated response rate of 34% (N=93; Table 1).

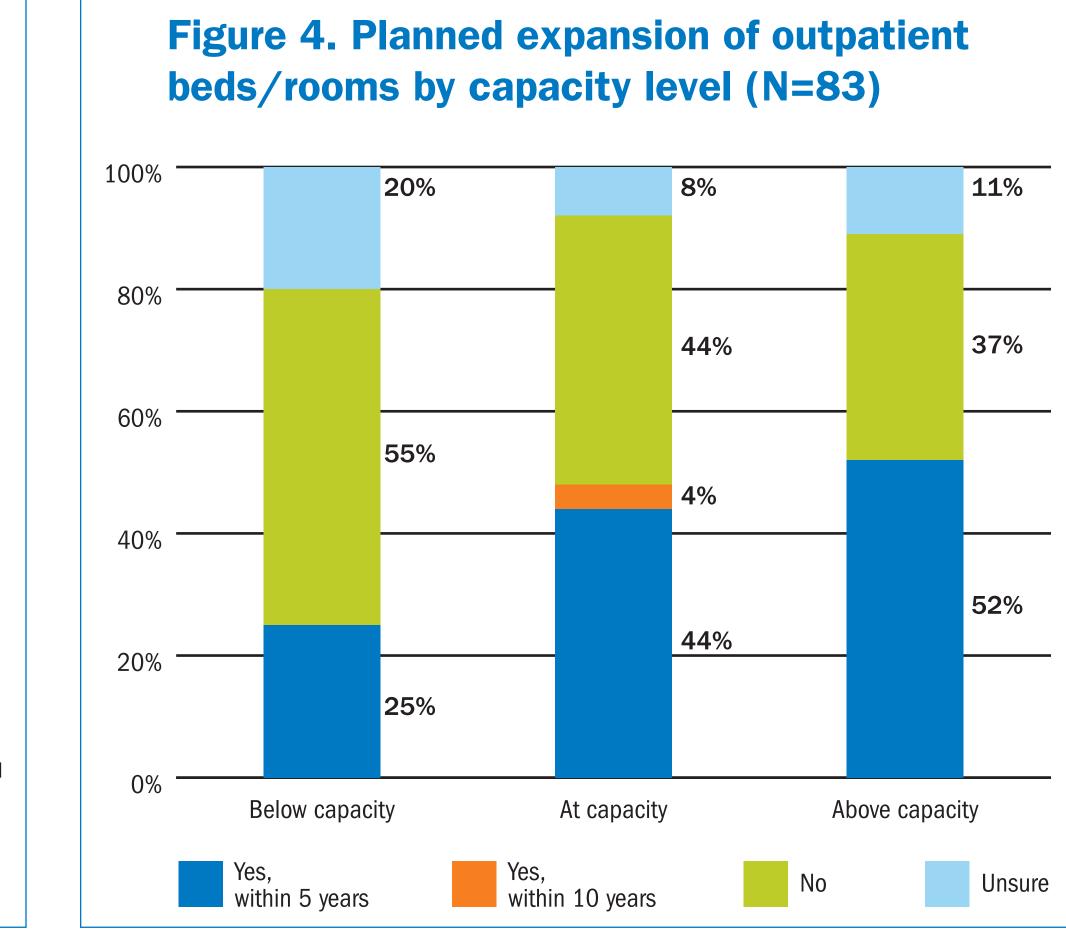
- The majority of respondents reported that both inpatient and outpatient HSCT units are currently at or above capacity
- 51% of transplant centers report a planned expansion of inpatient HSCT beds. Of these centers:
 - 33 will add ≤10 beds
 - 7 will add >10 beds
 - 7 are unsure of the number of beds to be added
- 45% of transplant centers report a planned expansion of outpatient HSCT beds. Of these centers:
 - 26 will add ≤10 beds
 - 8 will add >10 beds
 - 8 are unsure of the number of beds to be added











FINDINGS CONTINUED

- When deciding to expand the HSCT program, the following factors are important or very important:
 - Available space (95%)
 - Financial return (93%)
 - Mission of the hospital/medical center (92%)
 - Projected cost (92%)
 - Market demand (to meet existing or projected demand) (90%)
 - Market share (to be or remain regionally competitive) (85%)
 - Additional research capacity (61%)

CONCLUSIONS AND WORKING GROUP RECOMMENDATIONS

To meet increasing patient volume demands, many transplant centers are planning to expand inpatient and outpatient HSCT units. To support these efforts, the working group recommends:

- Creating and funding an award to highlight successful growth models among rural, community and academic programs. This would increase visibility and identify "best practice" models for expansion
- Developing a resource center for transplant centers considering expansion plans that would include industry data, such as demand analysis and best practices, used to support proposals for program and facility expansion
- Assessing the impact of innovation in care delivery models and their effect on future facility needs

Recommendations will be provided to transplant centers and professional organizations to inform capital allocation decisions and direct Year II working group initiatives.

ACKNOWLEDGEMENTS

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