

Background

For nearly 35,000 Americans diagnosed annually with Multiple Myeloma, standard of care is inpatient autologous stem cell transplant (ASCT). In Spring 2020, COVID-19 forced a reduction in elective hospital admissions, resulting in extended wait times for patients requiring ASCT. With advancements in supportive care, daily outpatient evaluation and careful patient selection, it has become increasingly possible to perform ASCT on an outpatient basis.

Project Overview

Goal of Project

To create pathway for Outpatient Autologous Stem Cell Transplant

Learning Objectives

- Describe the development, implementation and evaluation of an outpatient ASCT program.
- Identify characteristics of a successful outpatient ASCT program.

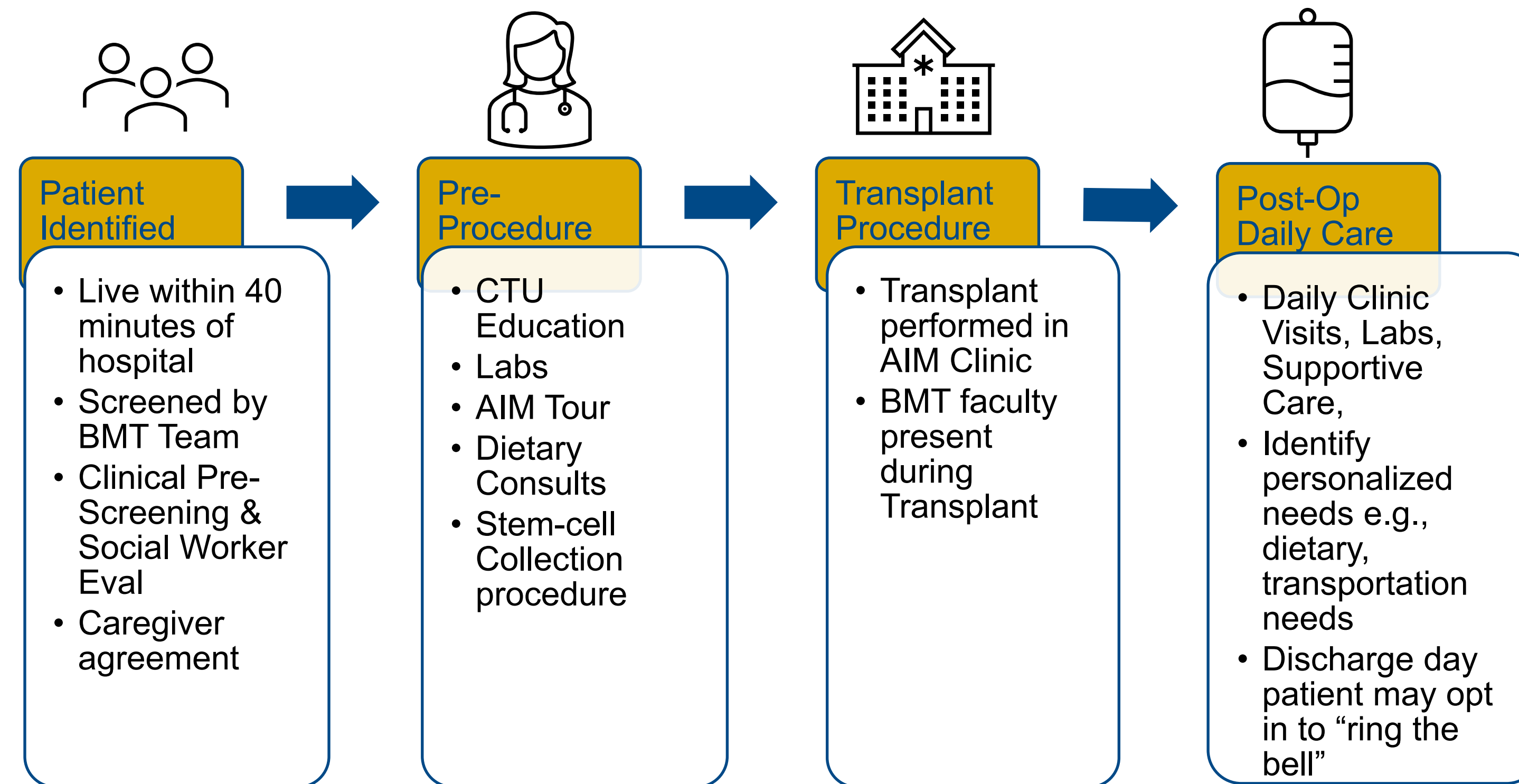
Stakeholder Involvement

- Executive Leadership Sponsorship
- BMT Faculty & APPs
- AIM Nursing Team
- OP BMT Nursing Team
- Inpatient Oncology Nursing Team
- Pharmacy
- Progenitor Lab Leadership
- Dietary, Social Work & Physical Therapy
- Case Management
- Hotel Services

Timeline of Implementation

- **August 2020:** Executive Leadership identified need
- **September 2020–April 2021:** Stakeholder meetings
- **April 14, 2021:** First Transplant performed
- **Ongoing:** Stakeholder meetings to streamline process

Outpatient Autologous SCT Procedure



Outcome and Impact

Time Period: April 2021 – June 2022

- Total Hospital Days Saved: 322
- Total Cost Savings = \$4,0416,230
- Number of ASCT = 28
 - 7 completed OP treatment
 - 21 were hospitalized

	Hospital ASCT	Outpatient ASCT	
		Required Hospitalization	Never Hospitalized
Average Length of Stay	Average 18 days	Average 7 days	Average 14 days
Average Charge	\$483,047	\$74,206	\$148,413

Conclusion

The adoption of this initiative resulted in:

- Increased throughput for inpatient oncological services
- Positive impact on cost savings
- Reduction in OP ASCT visits
- Positive patient and caregiver feedback on ability to go home every night
- Personalized care
- OP ASCT performed within two weeks of stem cell collection

Next Steps

- Accept two OP ASCT per week
- Outpatient CAR T TX program



UC Davis Health AIM / CTU Clinic

Thank you

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- Toby Marsh,, MSN, RN, FACHE, NEA-BC
- Dr. J. Tuscano, MD
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The author has no relevant financial relationships to disclose.