# Growing Your Teaching Methodology in BMT Staff Education:

Going Beyond PowerPoint™



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# Memorial Cancer Institute/Memorial Hospital West BMT Program

- Community healthcare system located in South Florida
   Broward County serving population 1.9 million
- 1 of only 5 BMT adult programs in Florida
- BMT Program since 2007
  - FACT accredited for autologous BMT
- 12/11 opened 40 bed inpatient/outpatient unit



Memorial



# MCI/MHW BMT Program Background

- June 2013 planned expansion to include allogeneic transplantation
- Increased complexity of allogeneic transplant mandated that we improve the effectiveness of our educational process
- 4 months to educate 60 nurses & support staff



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#### **How to Grow Your Teaching** Methodology

- Recognize oncology nurses as adult learners
- Utilize educational theory & research on adult learning
- Avoid a "death by PowerPoint™' approach to education
- Apply teaching methods that facilitate adult learning
- Engage both novice and experienced BMT nurses







#### Perspectives - Our Team of Experts

- Medical Director
- Program Manager
- BMT Nurse Coordinators
- BMT Quality/PI Coordinator BMT ARNPs
- Clinical Specialist
- BMT Infusion Nurses & Clinical Manager
- BMT Pharmacist
- Oncology Psychologist
- · Blood Bank Chief Technologist
- Radiation Physicist
- Physical Therapist
- Dietician
- Social Worker
- BMT Patients, Families & Donors

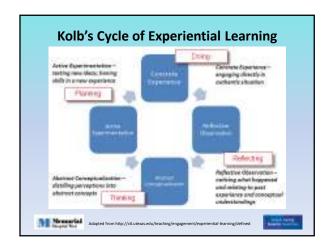


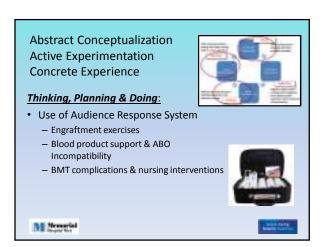
## Kolb's Learning Theory

- Adult learning is a holistic perspective that combines experience, perception, cognition and behavior
- · Learning is cyclical and involves acquiring abstract concepts that can be applied with flexibility in a range of situations

"Learning is the process whereby knowledge is created through the transformation of experience"(p.38).



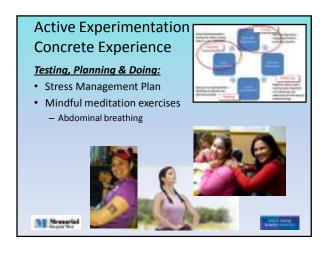












| Learning Cycle                            | Teaching<br>Methods                                                               | Content Examples                                                                            |
|-------------------------------------------|-----------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------|
| Concrete Experience  Doing                | Practical Exercises Discussions/examples Games ADR – I-Clicker * Panel Discussion | BMT Search YouTube<br>BMT Donor Search Examples<br>GVHD examples<br>BMT Survivors Panel     |
| Reflective Observer  Watching             | Videos<br>Discussions<br>Reflective questions<br>ADR – I-Clicker ®                | NDMP education video<br>Nursing Challenges –<br>Compassion Fatigue<br>Blood Product Support |
| Abstract<br>Conceptualization<br>Thinking | Lecture<br>Analogies<br>Models & Theory                                           | Overview of BMT<br>Pharmacology 101<br>HPC Infusion & ECP Therapy<br>Acute & GVHD           |
| Active Experimentation Testing & Planning | ADR – I-Clicker * Mindful Meditation Simulations Panel Discussion                 | Engraftment<br>Stress Management<br>Compassion Fatigue Plan<br>BMT Survivors Panel          |

# **Teaching Strategies**



- Audience response system [ARS]
- Critical thinking exercises
- YouTube & Internet videos
- Games
- Case studies
- Mindful meditation exercise
- Professional & personal reflection activities
- Survivorship panel discussions





### Course Content Day 1



- Introduction to BMT
- Donor Search & Selection
- HPC Collection, Processing & Storage
- Extracorporeal Therapy
- FACT Update
- Psychosocial Perspective & Care



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#### Course Content Day 2



- BMT Pharmacology 101
  - Preparative regimens
  - Immunosuppression therapies & Supportive Care
- Total Body Irradiation
- Blood Product Support & ABO Incompatibility
- HPC Infusion
- Engraftment
- Acute Complications & GVHD
- Nursing Considerations & Evidence-based practice





#### Course Content Day 3



- Exercise & BMT
- Chronic GVHD
- Supportive Care
  - Psychosocial
  - Nutrition
- Nursing Challenges Compassion Fatigue
- Survivorship
- Patient & Caregiver/donor Panel Discussion





### **Findings & Interpretation**

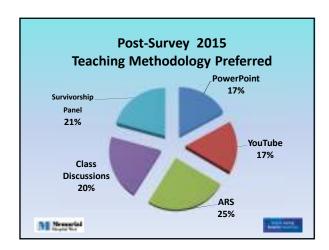
- 72 staff attended program since 06/2013:
  - BMT/oncology nurses
  - Case Resource Managers
  - Research Nurses
  - Pharmacists
  - Physical Therapists
  - Dieticians

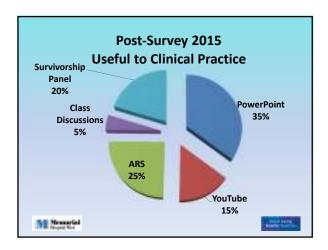


• 96% learners rated program excellent [1-10 scale]



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#### **Future Directions**

- Expand allogeneic transplant topics
- Re-evaluate our teaching strategies
- Routinely survey staff 6-12 months post-class



DOM: NAME

#### **Conclusions**

- Adopting a team approach, especially incorporating patients and family perspectives, is key to adult learning
- Applying teaching strategies beyond PowerPoint supports experiential learning theory and styles
- Teaching the complexity & intensity of BMT care is enhanced through various experiential learning activities
- Designing learning activities to encourage classroom interactions results in a high level of learner satisfaction well after initial course

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"Tell me and I forget.
Teach me and I remember.

Involve me and I learn".

~ Benjamin Franklin ~

