Disclosure Statement of Financial Interest

I do not have a financial interest or affiliation with one or more organizations that could be perceived as a real or apparent conflict of interest in the context of the subject of this presentation.
Setting quality standards and tools for managing BMT data

My model for business is The Beatles. They were four guys who kept each other’s kind of negative tendencies in check. They balanced each other and the total was greater than the sum of the parts. That’s how I see business: great things in business are never done by one person, they’re done by a team of people.

- Steve Jobs
Focus points

- Managing patient workload among data managers to ensure equality and productivity
- Tracking forms due to ensure CPI compliance
- Utilizing AGNIS dashboard to ensure high quality data submission
Managing patient workload among data managers to ensure equality and productivity
Workload Management: Past State

Pre-FormsNet
- Paper form submission
  - Data entry encouraged, not enforced in database
  - Working in close quarter
  - 100% manual and ineffective mailing of forms to CIBMTR

Post-FormsNet
- Electronic CIBMTR database
  - Data entry enforced in database
  - Flexible work arrangement
  - Data managers assigned by disease specialty
Workload Management: Present State

**AGNIS / BRAIN**

- Submitting data electronically
  - Home-grown database built on the platform of electronic submission of forms to the CIBMTR
  - Experienced data managers
  - Utilizing interfaces with EMR

**Restructure / Redistribute**

- Expand specialization
Workload Management: Future State

**Enhanced follow-up**
- Follow-up forms
  - With technology comes better follow-up
  - Data managers following patient’s throughout all follow-up

**Outside documentation**
- Information age
  - Technological advances will bridge EMRs to advance data collection
  - More automation to reduce error and improve quality
Present State:

Strategic Workflow Mission: Equality, Expertise and Productivity

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**Our Vision**

to develop top-level data management professionals capable of facilitating the needs of our organization and being a voice for our industry

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**Our Target**

Disrupt the comfort level of our staff to promote growth. Create equal workloads between data management staff. Increase productivity by association.

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**Our Strategy**

Education, education, education. Assign all transplants to a set rotation of data managers. Redistribute follow-up forms to make the previous workloads even.
Tracking forms due to ensure CPI compliance
Tools for Success

- **Melding** different form tracking strategies to design a uniform workflow tool / Ownership equals **buy-in**
- Reporting weekly to all data management staff on forms due **statistics**
- Instilling a culture of **teamwork** to finish strong and help each other
- Reward: 100% CPI compliance within **1½ months** of a new CPI period
Ask Yourself

How do you take the guess work out of a workflow process?
Automate it...

- The AGNIS dashboard works by the rules of the CIBMTR and auto generates the next form due after a form has been submitted.
Utilizing AGNIS dashboard to ensure high quality data submission
Implementing quality principles to improve productivity and accuracy of BMT data

Lessons learned

- Listen to the end user of the application
- Engaging the team to instill ownership
- With calculated risk there is reward
  - Acute GVHD: automated overall grade scoring
  - Comorbidity scoring: calculate automatically
Database & Dashboard Validation

Risk / Reward

- Data validation is **unforgiving**
- Validation creates **checkpoints** before submission that allows for increased data accuracy
- **AGNIS form tracking** sends validation messages if something is missing to further provide a level of accuracy to the data
Performance and Trends

- Engraftment ANC and platelet
- Volumes based on type of HCT and donor type. Length of stay for HCT admission and re-admission rates
- Survival, mortality and cumulative incidence statistics based on an array of different identified parameters
To Summarize

- Development of a uniform tool: increases proficiency and productivity
- Workload equality is essential for data management staff
- Validation can improve the quality of data submitted
- Listen to the end users
- The level of experience within data management can impact quality
- Whenever you can – take the ‘guess work’ out of the process
- Instill an environment where ‘teamwork’ is important
Technology is nothing. What’s important is that you have a faith in people, that they’re basically good and smart, and if you give them tools, they’ll do wonderful things with them.

Steve Jobs