Accurate Data Entering
A Difficult Task

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No disclosure

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Our center performs approximately 100 allogenic SCT a year both myeloablative and non-myeloablative, children and adults, using BM, PBSC, single and double CBU. At the moment we do follow up for 950 patients a year

Our center is a research center

Data collection is performed by 2 data managers and 3 other staff members all nurses. We collect baseline data used for data collection to local database, CIBMTR and EBMT and data managers do all the follow up and data entry
Accurate Data Entering A Difficult Task

• We had a problem
• Where did we go wrong?
• What are we doing now?
• How do we maintain accuracy in the future?
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We had a problem

EBMT Study proposal “Effect of Second Generation TKI on Allogeneic SCT in adult CML patients” a Prospective Non-Interventional study including patients undergoing Allogeneic SCT in the period Jan 1. 2010 to Sept. 30 2013

Discrepancy between patients eligible for the study in the EBMT database and our local database
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How come that EBMT only identified 3 out of 10 CML patients eligible for the study when all Danish patients have access to treatment with first and second course TKI?

We had to identify if data were correctly reported in the local database, in the CIBMTR database and in the EBMT database

We had to identify how the error occurred
Audit including 7 points regarding disease and treatment

- Diagnosis
- Date of diagnoses
- Molecular markers present
- Cytogenetic abnormalities
- Treatment
- Treatment with first course TKI
- Treatment with second course TKI
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Patients included in the Audit

We included 20 consecutive retrospective patients diagnosed with CML from the day of the study proposal (Nov 5 2007 until July 1 2013)
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Diagnose

0 coding errors in the **local** database
0 coding errors in the **CIBMTR** database
0 coding errors in the **EBMT** database
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Date of diagnose

0 coding errors in the local database
0 coding errors in the CIBMTR database
0 coding errors in the EBMT database
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Molecular markers present

0 coding errors in the local database
0 coding errors in the CIBMTR database
2 coding errors in the EBMT database
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Cytogenetic abnormalities

0 coding errors in the local database
0 coding errors in the CIBMTR database
0 coding errors in the EBMT database
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Treatment

1 coding errors the local database
0 coding errors the CIBMTR database
2 coding errors the EBMT database
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Treatment with first course TKI

1 coding errors in the local database
0 coding errors in the CIBMTR database
3 coding errors in the EBMT database
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Treatment with second course TKI

8 coding errors in the local database
0 coding errors in the CIBMTR database
2 coding errors in the EBMT database
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Where did we go right?

- Knowledge on disease & treatment
- Knowledge on retrieving data from the medical record
- Paper draft has zero errors
- Correct data entering in the CIBMTR database
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Where did we go wrong?

• Data entering in the EBMT database in relation to molecular markers and treatment

• Data entering in the local database in relation to treatment especially second course TKI
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Where did we go wrong?

- Data entering in the EBMT database
- Mismatch between paper form & database screen
- Order of the question is not intuitive (to us)
- Bypass a question and still complete the data entry
- Lack of validation checks
- Typo
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Where did we go wrong?

• Data entering in the local data base
• Add on of new data entering points with new form releases (and these are not placed intuitively)
• Mismatch between paper form & database screen
• Order of the question is not intuitive (to us)
• Bypass a question and still complete the data entry
• Lack of validation checks
• Typo
Accurate Data Entering: A Difficult Task

- **Accuracy is very important otherwise data entering is a difficult task!**

**How do we maintain accuracy in the future?**

- Knowledge on etiology, disease & treatment
- Logic data flow in form & databases
- Informative manuals
- Identical forms & databases
- Local audit & strategies for correcting errors
- Meetings
- Training labs/education
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Thank you for listening

Any questions?