



# Regional Activity Report

Cape Town, South Africa  
2014

*Worldwide Network for Blood and Marrow Transplantation*  
*NGO in official relations with the World Health Organization*



# South Africa (SASCeTS)

|   |  |                        |
|---|--|------------------------|
| National society:                             | yes  | no                     |
| Data report to international society?         | CIBMTR<br>APBMT<br>WBMT  | EBMT<br>EMBMT<br>LABMT |
| Requirement for national authority reporting? | Yes  | No                     |
| National recipient registry                   | Yes  | No                     |
| Cord blood bank                               | Yes  | No                     |
| Donor registry                                | Yes (unrelated)  | No                     |
| Financing (most prominent method)?            | In Cape Town: State for sibling donor<br>Rest: private / medical insurance |                        |



# South Africa (SASCeTS)

|  |   |           |
|--|---|-----------|
| Donor outcome registry?                                    | Yes   | No        |
| Number of transplant <u>centers in your country</u> 2013:  | 4   | reporting |
| Total number of <u>transplants in your center</u> in 2013: | 9   |           |
| Number of transplants by category in your country 2013:    | 221   |           |
| • Re-transplants   | 7   |           |
| • Unrelated donor transplants                              | 29  |           |
| • Related donor transplants                                | 68  |           |
| • Autologous transplants                                   | 113   |           |
| • Cord blood transplants                                   | 4   |           |
| Indications (diseases) – please list:                      | AML, ALL, CML, NHL, MM, ALD, SAA, SS, Thal, SCID, CDA, JMML, MPS, HL, Fanconi |           |



# South Africa (SASCeTS)

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What is the biggest barrier to transplantation in your region?

Availability of beds / facilities funded by the state.

Do you have a QM System?

Yes

No

Do you know the mortality rate in 2013 in %? Yes

No

If „yes“, what is it?

Treatment related mortality (100 days)



# South Africa (SASCeTS)

- Patient Population:
- **All patients**

| Variable               | Value           |
|------------------------|-----------------|
| Total transplants      | 683             |
| Reporting centres      | 4               |
| Age, median            | 45.9            |
| Female / male          | 290 / 393       |
| Alive / dead / missing | 459 / 115 / 107 |



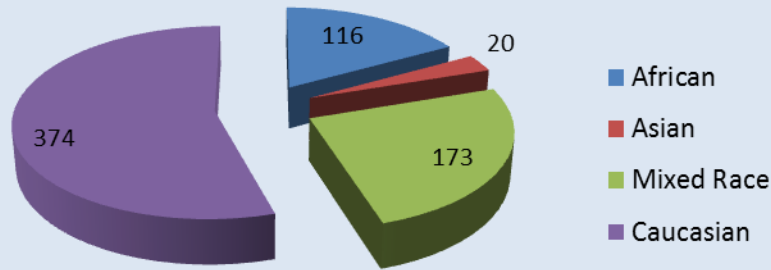
# South Africa (SASCeTS)

- Patient Population:
- **Allogeneic**

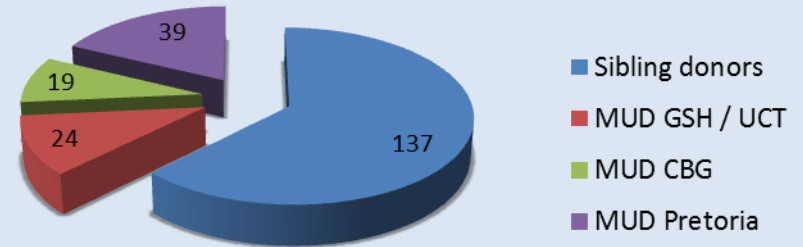
| Variable   | Value           |
|--|-----------------|
| All allo / first allogeneic / autologous                       | 312 / 252 / 354 |
| Conditioning in allogeneic SCT<br>Myeloablative / RIC /missing | 268 / 37 / 7    |
| Donor type: sibling / MUD                                      | 230/ 82         |
| Stem cell source<br>BM / PBPC / CBB                            | 7 / 270 / 7     |
|  |                 |

# South Africa (SASCeTS)

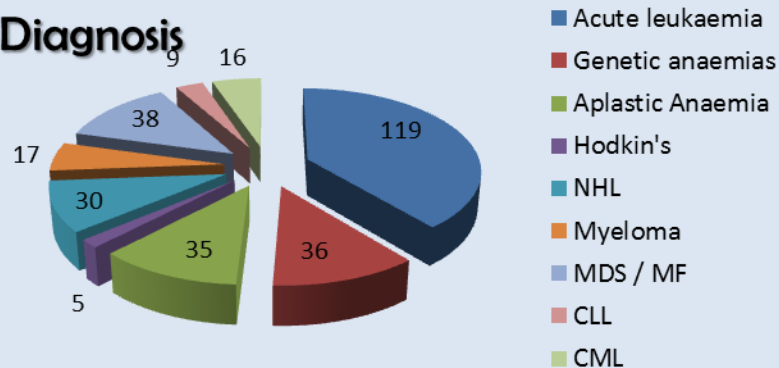
## Racial Distribution



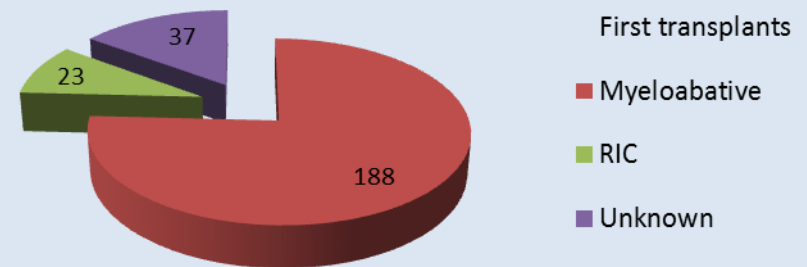
## Graft type and Centre



## Diagnosis



## Conditioning intensity



# South Africa (SASCeTS)

- Patient Population
- **First allogeneic SCT**

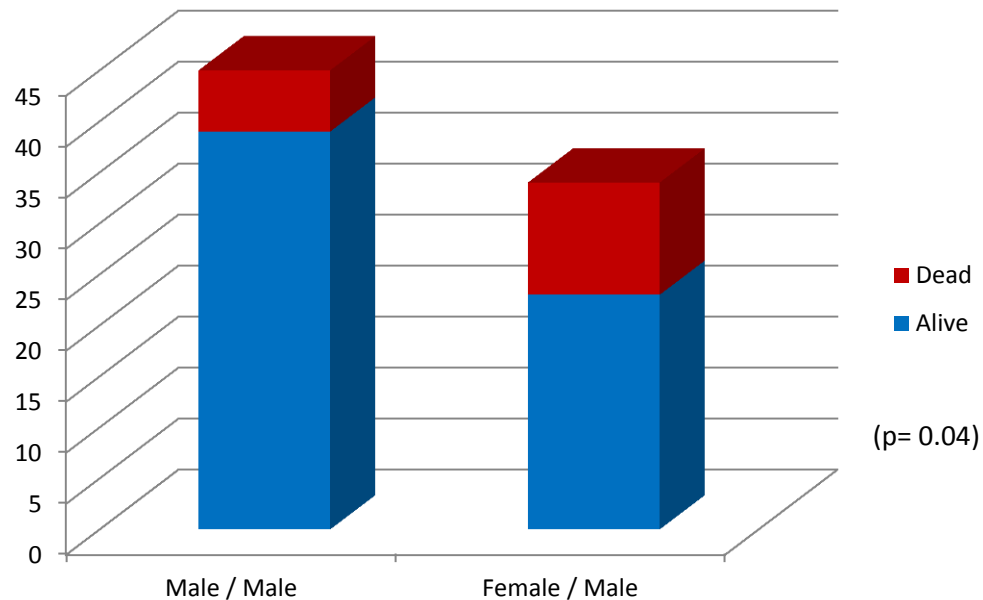
| Variable  | No                               |
|---|----------------------------------|
| All / first transplant                                      | 312 / 253                        |
| At last report: Alive / dead / no                           | 190 / 60 / 3                     |
| Donor: sibling / MUD / mismatched family                    | 131 / 69 / 43                    |
| Myeloablative: Y / N  | 195 / 23                         |
| Engrafted / Not / unknown                                   | 225 / 6 / 17                     |
| GvHD prophylaxis:<br>Alemtuzumab / unfractionated / unknown | 212 / 23 / 11                    |
| ATG: sibling / MUD  | 9 / 24                           |
| PBPC / BM / CB  | 226 / 6 / 7                      |
| GvHD: No / Yes / unknown                                    | 146 / 23 / 83                    |
| • TcD vs. No  | 16 / 169 vs. 7 / 23<br>(p= 0.01) |



# Registry review

Patient  
Population

First allogeneic  
SCT





# South Africa (SASCeTS)

- Patient Population
- **Allogeneic as Second SCT**

| Variable               | Value   |
|------------------------|---------|
| Patient No             | 30      |
| Diagnosis / surviving: |         |
| • Acute leukaemia      | 3 / 1   |
| • Aplasia / Fanconi's  | 10 / 9  |
| • Myeloma              | 10 / 6  |
| • Lymphoma             | 4 / 2   |
| Donor                  |         |
| Sibling / MUD          | 16 / 14 |
| Intensity              |         |
| Myeloablative / RIC    | 18 / 12 |
| TcD / no               | 27 / 3  |
| Conditioning           |         |
| Mel Flu                | 13      |
| Flu Cy                 | 10      |
| Bu Mel Cy / Flu        | 7       |

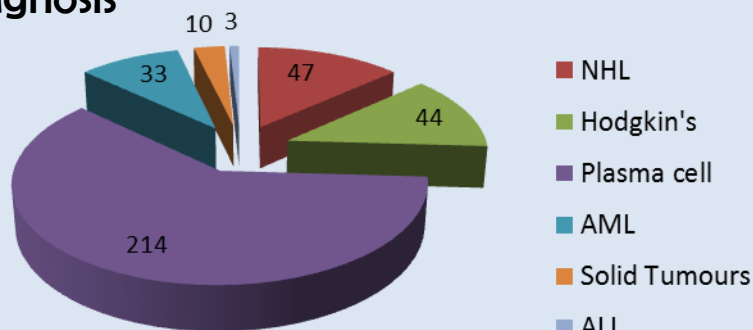
# South Africa (SASCeTS)

- SASCeTS Patient Population
- **Autologous SCT**

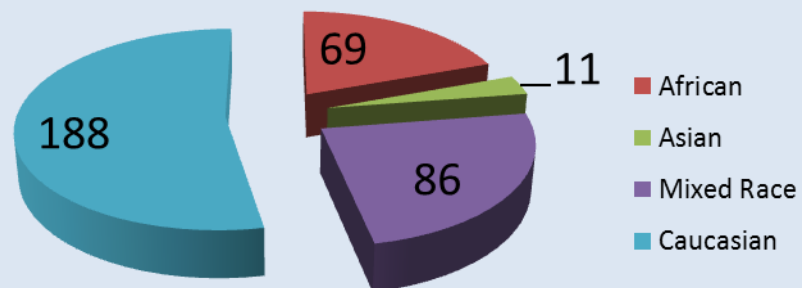
| Variable  | No  |
|---|---|
| All patients                                    | 355   |
| First transplants                               | 315   |
| Age, median                                     | 45.9  |
| Gender: Female / Male                           | 140 / 215   |
| Disease status<br>Remission / response / active | 213 / 87 / 15   |
| Conditioning<br>Myeloma<br>AML / NHL / HL       | Melphalan<br>BEAM<br>Bu-Mel-Cy<br>Etopo-Cy<br>TBI-Cy<br>Etopo carbo |

# South Africa (SASCeTS)

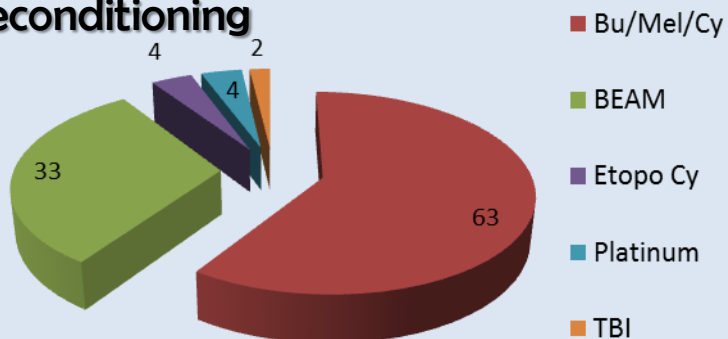
## Diagnosis



## Racial distribution



## Preconditioning



# South Africa (SASCeTS)

- Patient Population
- **Auto SCT**

| Variable                        | No            |
|---------------------------------|---------------|
| Infusion complications yes / no | 48            |
| TRM                             |               |
| Myeloma (n=213)                 | 8             |
| Other (n= 139)                  | 9             |
|                                 |               |
| At last entry                   |               |
| Alive / Died / unknown          | 279 / 45 / 30 |
|                                 |               |



# South Africa (SASCeTS)

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## Conclusions

- Young registry
- Substantial transplant activity
- Willingness to submit data
  - Information must be accurate and complete
    - Diagnosis, type of conditioning, origin of stem cells
  - Milestones are of critical value
    - Outcome
    - Date of recurrence
    - Date of death
    - Cause of death
    - ....