Objectives

- The need for national registry
- Beginning of SSCDR
- SSCDR collaborations
- Achievements so far
- Our future goals
- How can we help
The start of unrelated donor registries

- 1971 Anthony Nolan born with Wiskott-Aldrich syndrome

- 1973 first unrelated donor transplant performed (Seattle)


- 1979 Anthony died
Increasing transplant activity
Transplant rates of allogeneic and autologous HSCT combined/10 million population

Transplant rates/10 million population:
- 0 or no report
- 0.1 - 20
- 21 - 100
- 101 - 500
- > 500

- Hong Kong
- Singapore
Increasing transplant activity in middle east


Syed O. A. Ahmed,1 Ardeshir Ghavamzadeh,2 Syed Z. Zaidi,3 Helen Baldomero,4 Marcelo C. Pasquini,5 Fazal Hussain,1 Kamran Almoghaddam,2 Fahad Almohareb,1 Mouhab Ayas,1 Amir Hamidieh,2 Hossam K. Mahmoud,6 Alaa Elhaddad,6 Tarek Ben Othman,7 Abdelrahman Abdelkefi,7 Mahmoud Sarhan,8 Fawzi Abdel-Rahman,8 Salman Adil,9 Salam Alkindi,10 Ali Bazarbachi,11 Said Benchekroun,12 Dietger Niederwieser,13 Mary Horowitz,3 Alois Gratwohl,4 Hassan El Solh,1 Mahmoud Aljurf1

![Graph showing trends of hematopoietic stem cell transplantation in the Eastern Mediterranean Region, 1984-2007. The graph illustrates the number of transplants performed each year, distinguishing between autologous (AUTO SCT) and allogeneic hematopoietic stem cell transplantation (ALLO-HSCT). The data is represented using bar charts for each year from 1984 to 2007.](image-url)
Increasing transplant activity in Saudi Arabia

Transplant centers
1. King Faisal Specialist Hospital – Riyadh
2. Prince Sultan Military Medical City – Riyadh
Increasing transplant activity in Saudi Arabia

Transplant centers

1. King Faisal Specialist Hospital – Riyadh
2. Prince Sultan Military Medical City – Riyadh
3. King Faisal Specialist Hospital – Jeddah
4. King Abdulaziz Medical City – Riyadh
5. King Fahad Specialist Hospital – Dammam
6. King Abdulaziz Medical City – Jeddah
7. King Khalid University Hospital – KSU – Riyadh
8. Madinah Manourah KFH
9. Makkah KAMC
Increasing need for donors of allogeneic SCT

• Donor types
  – Match related donor
    • Sibling or non-sibling
      – The best option
  – Alternative options
    • Fully match unrelated
    • Mismatched related
    • Mismatched unrelated
    • Haploidentical
    • Cord blood
Potential to find match related donor for Saudi patients

<table>
<thead>
<tr>
<th>Number of matching siblings, n (%)</th>
<th>0-5</th>
<th>6-10</th>
<th>11-20</th>
<th>&gt;20</th>
<th>All Patients</th>
</tr>
</thead>
<tbody>
<tr>
<td>Zero</td>
<td>30 (56.6)</td>
<td>30 (38.5)</td>
<td>49 (46.7)</td>
<td>58 (31.4)</td>
<td>167 (39.7)</td>
</tr>
<tr>
<td>One</td>
<td>15 (28.3)</td>
<td>30 (38.5)</td>
<td>36 (34.3)</td>
<td>77 (41.6)</td>
<td>158 (37.5)</td>
</tr>
<tr>
<td>Two</td>
<td>6 (11.3)</td>
<td>12 (15.4)</td>
<td>13 (12.4)</td>
<td>41 (22.2)</td>
<td>72 (17.1)</td>
</tr>
<tr>
<td>Three</td>
<td>2 (3.8)</td>
<td>4 (5.1)</td>
<td>5 (4.8)</td>
<td>7 (3.8)</td>
<td>18 (4.3)</td>
</tr>
<tr>
<td>Four</td>
<td>0 (0)</td>
<td>0 (0)</td>
<td>1 (1.0)</td>
<td>1 (0.5)</td>
<td>2 (0.5)</td>
</tr>
<tr>
<td>Five</td>
<td>0 (0)</td>
<td>2 (2.6)</td>
<td>1 (1.0)</td>
<td>1 (0.5)</td>
<td>4 (1.0)</td>
</tr>
<tr>
<td>Probability of finding a match, %</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Actual</td>
<td>43.4</td>
<td>61.5</td>
<td>53.3</td>
<td>68.6</td>
<td>60.3</td>
</tr>
<tr>
<td>Predicted</td>
<td>54.0</td>
<td>64.5</td>
<td>69.3</td>
<td>73.4</td>
<td>68.4</td>
</tr>
</tbody>
</table>
What is the chance of finding a related (Family) donor!

- In the West: 25-30%

- In Saudi Arabia:
  - Adults up 70% (30% don’t have donors)
  - Children up to 40% (60% don’t have donors)

- Solution= unrelated donors (registry) and cord blood banks.
International stem cell donor registries

- 75 stem cell donor registries in 53 countries
- 53 cord blood banks in 36 countries
- > 32 million registered donors
Do we need local/national registries?
DISTRIBUTION OF STEM CELL DONORS
IN THE WORLD

- < 20,000 donors
- 20,000 – 100,000 donors
- > 100,000 – 1,000,000 donors
- > 1,000,000 donors
Facts

- Different ethnic groups have different frequencies of HLA antigens.
- Certain antigens are more frequent in certain ethnic groups than others.
  - HLA-B*50 worldwide 0.1%-1% (1/1000 to 1/100)
  - In Saudi Arabia 20% (1/5 Saudis).
Common HLA alleles in Saudi individuals

- HLA-A, HLA-A*02:01:01:01 (13.6%)
- HLA-B, HLA-B*50:01:01 (15.8%)
- HLA-C, HLA-C*06:02:01:01 (18.7%)
- HLA-DRB1, HLA-DRB1*07:01:01:01 (26.6%)
- HLA-DQB1, HLA-DQB1*02:01:01 (20.3%)
- Higher allele homozygosity at the different HLA loci tested

<table>
<thead>
<tr>
<th>Haplotype HLA-A</th>
<th>Frequency</th>
<th>P</th>
</tr>
</thead>
<tbody>
<tr>
<td>A*24:02:01:01</td>
<td>B*08:01:01</td>
<td>C*07:02:01:01</td>
</tr>
<tr>
<td>A*23:01:01</td>
<td>B*50:01:01</td>
<td>C*06:02:01:01</td>
</tr>
<tr>
<td>A*30:02:01</td>
<td>B*53:01:01</td>
<td>C*04:01:01:01</td>
</tr>
<tr>
<td>A*02:05:01</td>
<td>B*50:01:01</td>
<td>C*06:02:01:01</td>
</tr>
</tbody>
</table>

Members of the same ethnic group are genetically closer to each other. Therefore, they are more likely to have the same HLA profile.
Common allele in Europe

A*0301
Common in America

B*3501
Common allele in Arab (gene invasion)

B*5001
CREATION OF SSCDR:

**HLA Registry** is the original name of Saudi Stem Cells Donor Registry (SSCDR).

H.E Dr. Bandar Al Knawy approved the establishment of Human Leukocyte Antigen (HLA) Registry under KAIMRC on 10 December 2011.

On 18 March 2013, it was reflected in NGHA Corporate management Account that HLA Registry was renamed as Saudi Stem Cells Donor Registry.
Acknowledgment

SSCDR was launched in 2011 as a national registry for NGHA leaders.
Our Goals

1. To provide stem cells from an HLA identical unrelated donor to national/international patients

2. Raise awareness about stem cell transplant/donation in the country

3. Support national Stem cell transplant programs by facilitating searching process for donors and donations

4. National Collaboration with transplant centers, donor centers and collection centers

5. International collaboration with registries, transplant centers, WMDA, BMDW
BMDW member in 2013
our donors listed in BMDW

What's new?

Brazil Cord blood units included in BMDW
As of 2013-10-29, the cord blood units of Brazil-REDOME - Registro Nacional de Doadores Voluntários da Medula Ossea (Match code: BRMC) are included in BMDW.

Alarvita BioLife Corporation name changed.
Alarvita BioLife Corporation as changed its name into AventLife Inc.

Caitlin Raymond International Registry donors transferred to the NMDP/Be the Match
As of the 2013-10-01 upload, Caitlin Raymond International Registry (CRIR-USA) donors are transferred to the NMDP/Be the Match (USA1). This means that the CRIR donors are now listed under the USA1 match code in BMDW.

Link to “The Common and Well-Documented (CWD) allele catalogue” added
Link to “The Common and Well-Documented (CWD) allele catalogue” added to HLA information page

Saudi Stem Cells Donor Registry included in BMDW
As of 2013-09-12, the donors of the Saudi Stem Cells Donor Registry (Match code: SA) are included in BMDW.

NP "HPC Registry" became WMDA member
As of April 6th, NP ‘HPC Registry' became a WMDA member.

Cord blood units of Korea Cord Blood Bank are removed from BMDW
As of 2013-08-27, the cord blood units of Korea Cord Blood Bank (Match code: KRCB) are removed from BMDW. The units are included in the Korea-KONOS (KOCB) upload.

Cord blood units of Korean Catholic Hematopoietic Stem Cell Bank are removed from BMDW
As of 2013-06-27, the cord blood units of Korean Catholic Hematopoietic Stem Cell Bank (Match
WMDA member in 2015
What did we achieve so far
OVERALL DONORS RECRUITED:

56,945

OVERALL RECRUITMENT

2011: 457
2012: 1034
2013: 1581
2014: 4643
2015: 6435
2016: 24206
2017: 18589
OVERALL TYPED DONORS:

46,711

OVERALL TYPED DONORS
2011-2017 AGE DISTRIBUTION OF TYPED DONORS:

- **<18**: 301 MALE, 136 FEMALE, 25 UNKNOWN
- **18-25**: 13429 MALE, 11373 FEMALE, 136 UNKNOWN
- **26-35**: 4622 MALE, 6794 FEMALE, 87 UNKNOWN
- **36-45**: 2912 MALE, 1832 FEMALE, 62 UNKNOWN
- **46-55**: 631 MALE, 489 FEMALE, 30 UNKNOWN
- **>55**: 40 MALE, 34 FEMALE, 3 UNKNOWN
- **Missing Age**: 524 MALE, 424 FEMALE, 2435 UNKNOWN
OVERALL SEARCH REQUEST:

- LOCAL
- INTERNATIONAL
- Linear (LOCAL)
2017 TRANSPANT CENTER RATIO:

- Local: 35%
- International: 65%
2017 REQUESTING CENTER - LOCAL

KASCH: 108
KFMC: 3
KFMD: 1
KFSH&RC: 48
KFSH&RC-JEDDAH: 7
KFSH-DAMMAM: 3
KSMC-RH Shumaisy: 1
NGHA-JED: 19
NGHA-RUH: 49
PSMMC: 2
2017 REQUESTING CENTERS- INTERNATIONAL
2017 MATCHING GRADE RATIO:

- 10: 31%
- 9: 8%
- 8: 1%
- 7: 3%
- 6: 21%
- NM: 36%
2017 MATCHING GRADE RATIO:

- 10/10 HLA MATCH: 21%
- 10: 31%
- 9: 8%
- 8: 1%
- 7: 3%
- 6: 21%
- NM: 36%
Full match 10/10 in 2016 was only 8 %
Donations from 2011 to 2017

- SSCDR has facilitated
  - 20 donations in total
  - 4 donations from international donors to Saudi patients
  - 7 donations from Saudi donors for international patients
  - 9 donations from Saudi donors to Saudi patients in different national centers
# Donations from SSCDR in 2017

## 2017 Stem Cell donations:

<table>
<thead>
<tr>
<th>AGE</th>
<th>COUNTRY OF DONOR</th>
<th>DATE OF COLLECTION</th>
<th>PATIENT TRANSPLANT CENTER</th>
</tr>
</thead>
<tbody>
<tr>
<td>36</td>
<td>Qassim-Saudi Arabia</td>
<td>7-Mar-17</td>
<td>KASCH</td>
</tr>
<tr>
<td>18</td>
<td>Kharj-Saudi Arabia</td>
<td>13-Apr-17</td>
<td>KAMC-RH</td>
</tr>
<tr>
<td>21</td>
<td>Riyadh-Saudi Arabia</td>
<td>5-Jun-17</td>
<td>Gazi University</td>
</tr>
<tr>
<td>25</td>
<td>Riyadh-Saudi Arabia</td>
<td>1-Aug-17</td>
<td>NMDP</td>
</tr>
<tr>
<td>23</td>
<td>Jeddah-Saudi Arabia</td>
<td>24-Sep-17</td>
<td>NMDP</td>
</tr>
<tr>
<td>32</td>
<td>Riyadh-Saudi Arabia</td>
<td>17-Oct-17</td>
<td>KASCH</td>
</tr>
<tr>
<td>32</td>
<td>Riyadh-Saudi Arabia</td>
<td>8-Nov-17</td>
<td>NMDP</td>
</tr>
<tr>
<td>23</td>
<td>Riyadh-Saudi Arabia</td>
<td>12-Dec-17</td>
<td>KFSH&amp;RC</td>
</tr>
<tr>
<td>45</td>
<td>Germany</td>
<td>4-Oct-17</td>
<td>KASCH</td>
</tr>
<tr>
<td>18</td>
<td>Germany</td>
<td>19-Oct-17</td>
<td>KASCH</td>
</tr>
</tbody>
</table>
SSCDR donor
Recruitment activities

- Campaigns
- Donor drives
- Donor centers
- Website registration
More than 200 donor drives/campaigns in most of regions
Campaign in Qassim
Campaign in Jeddah
Campaign in Jazan
KASCH CAMPAIGN

SSCDR WORKSHOPS
Local donor centres
SSCDR branch in Jeddah
### Jeddah campaigns in 2017

#### Details of Campaigns held in 2017 per regions:

<table>
<thead>
<tr>
<th>JEDDAH</th>
<th>DATE</th>
<th>RECRUITED DONORS</th>
</tr>
</thead>
<tbody>
<tr>
<td>NGHA- JEDDAH</td>
<td>12-Jan-17</td>
<td>229</td>
</tr>
<tr>
<td>Jeddah Spring Festival campaign</td>
<td>02-14 Feb 2017</td>
<td>938</td>
</tr>
<tr>
<td>Jeddah Bike week</td>
<td>09-11-Mar-17</td>
<td>322</td>
</tr>
<tr>
<td>Erfan Hospital</td>
<td>26-Apr-17</td>
<td>26</td>
</tr>
<tr>
<td>KAIMRC-WR</td>
<td>28-Apr-17</td>
<td>4</td>
</tr>
<tr>
<td>Red Sea Mall</td>
<td>28-Sep-17</td>
<td>341</td>
</tr>
<tr>
<td>Pharma Day</td>
<td>28-Sep-17</td>
<td>64</td>
</tr>
<tr>
<td>Jeddah Donor Center</td>
<td>02-Sep-17</td>
<td>6</td>
</tr>
<tr>
<td>KAU-Jeddah</td>
<td>02-Oct-17</td>
<td>522</td>
</tr>
<tr>
<td>AlDiyafa campaign</td>
<td>14-15 Dec-17</td>
<td>53</td>
</tr>
<tr>
<td>Jeddah University</td>
<td>12-17 Dec-17</td>
<td>247</td>
</tr>
<tr>
<td>Oswa Campaign</td>
<td>01-Jun-17</td>
<td>1593</td>
</tr>
<tr>
<td><strong>TOTAL</strong></td>
<td></td>
<td><strong>4345</strong></td>
</tr>
</tbody>
</table>
Recruitment through SSCDR website
patients with incurable diseases, such as leukemia and genetic blood diseases and inherited immunodeficiency, are the beneficiaries of the Hematopoietic Stem Cells transplants. >> Read More

153 donors
Registered through SSCDR website

56,973
Total Count of SSCDR Donors

Join now
You can join and register with Saudi Stem Cell Donor Registry through the following options:

1. SSCDR Campaign [click here] to view list of events
2. Donor Centers [click here]
3. Website sign up: Now that you have decided to join the Saudi Stem Cell Donor Registry to save a life through Website, please follow the registration process. The process should take approximately 10 minutes. Registration steps:
   1. Fill out the initial consent form
   2. Fill out donor information form
   3. Fill out the medical conditions
To avoid your application being rejected, make sure that you fulfill the general guideline requirements.
Initial Consent Form:

Having been made acquainted with the subject of the Hematopoietic Stem Cells (HSCs) donation along with possible benefits, risks of donation, and subscription with the registry, and with my full autonomy, I am willing to subscribe as potential Hematopoietic Stem Cells (HSCs) donor that might have my cells collected through Peripheral Blood or pelvic bones. I know that all required tests include the following list, although this list is not exclusive: ABO grouping, HLA and infectious Disease Markers will be completed several times during the donation process and my DNA will be stored for any further tests as necessary.

☑️ I testify that I have read and completely acquainted of the above information. I agree to subscribe with the registry.
Raise awareness about Stem Cell Donation & SCT

• Pre – campaigns awareness activities
• Social media, twitter, fb, Snapchat, Instagram,
• Educational brochures and booklets
• You tube channel
• Lectures for medical students in different universities
• SSCDR website
Methods of sample collection
Campaigns
شروط الانضمام إلى السجل:

• يجب أن يكون عمر المسجل ما بين 18 إلى 49 سنة.
• أن يكون بصحة جيدة.
• الاستعداد التام للتبرع بالخلايا الجذعية في حال الحاجة لذلك.
Steps from recruitment to donation

السجل السعودي للمتبرعين بالخلايا الجذعية
Saudi Stem Cells Donor Registry

الطريقة التبرع بالخلايا الجذعية:

التبرع بعينة للانضمام للسجل

البحث عن مطابق

جمع الخلايا الجذعية من المتبرع وزرعها في المريض

☎: 00966580408393 ✉: sscdr@ngha.med.sa
Steps from recruitment to donation
Educational materials
وان أحيائها...

أنا مصاب بمرض اللوكيميا ولا يوجد لي علاج إلا زراعة الخلايا الجذعية للدم.. لا يوجد لي من الأقارب.

هل تكون أنت المتبرع؟
و من أحيانا... 

أنا مصابة بمرض نقر المناعة الوراثية، ولا يوجد لي علاج إلا زراعة الخلايا الجذعية للصر. لا يوجد لي متبرع من الأقارب.

هل تكون أنت المتبرع؟
Our futures plans

- **Initial phase:** target of 100,000 donors
- **Second phase:** target regions and ethnicities that are not represented well in our donor pool
- SSCDR satellite donor centers in most cities
- National collection and transplant centres collaborations
- Gulf countries collaboration – donor centers, collection and transplant centers
- International collaborations: NMDP and others
- WMDA accreditation
How to contact SSCDR

+966580408393
011 4299999  Ext.: 94406 – 94409
SSCDR.ORG.SA
SSCDR@NGHA.MED.SA
@SSCDR1
SSCDR
Search requests

• For search requests;
  – Saudi-sc-search@ngha.med.sa
  – 011-4299999 Ext. 94407 or 94401

• You send us the search request and we can do local and international search for you
# Preliminary Search Request

<table>
<thead>
<tr>
<th>Date of Request:</th>
<th>Type of Search to be performed:</th>
<th>Is this search urgent?</th>
</tr>
</thead>
<tbody>
<tr>
<td>day / month / year</td>
<td>☐ Stem Cell Donors Only</td>
<td>☐ Yes  ☐ No</td>
</tr>
<tr>
<td></td>
<td>☐ Cord Blood Units Only</td>
<td>Are mismatches accepted?</td>
</tr>
<tr>
<td></td>
<td>☐ Stem Cell Donors &amp; Cord Units</td>
<td>☐ Yes  ☐ No</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>ID Number:</th>
<th>Last Name:</th>
<th>First Name:</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
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</tbody>
</table>

<table>
<thead>
<tr>
<th>Date of Birth:</th>
<th>Gender: ☐ Male  ☐ Female</th>
</tr>
</thead>
<tbody>
<tr>
<td>day / month / year</td>
<td>Weight: ________ kg</td>
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</tbody>
</table>

<table>
<thead>
<tr>
<th>Diagnosis:</th>
<th>Date of Diagnosis: day / month / year</th>
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<table>
<thead>
<tr>
<th>Race (optional):</th>
<th>Geographic Ethnicity (optional):</th>
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<tbody>
<tr>
<td></td>
<td></td>
</tr>
</tbody>
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## Patient Class I Typing Results:

<table>
<thead>
<tr>
<th></th>
<th>A</th>
<th>B</th>
<th>C</th>
</tr>
</thead>
<tbody>
<tr>
<td>First antigen:</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Second antigen:</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Testing method:</td>
<td>☐ Sero. ☐ DNA</td>
<td>☐ Sero. ☐ DNA</td>
<td>☐ Sero. ☐ DNA</td>
</tr>
</tbody>
</table>

## Patient Class II Typing Results:

<table>
<thead>
<tr>
<th>First antigen:</th>
<th>DRB1</th>
<th>DRB3/4/5</th>
<th>DQB1</th>
<th>DPB1</th>
</tr>
</thead>
<tbody>
<tr>
<td>Second antigen:</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Testing method:</td>
<td>☐ Sero. ☐ DNA</td>
<td>☐ Sero. ☐ DNA</td>
<td>☐ Sero. ☐ DNA</td>
<td>☐ Sero. ☐ DNA</td>
</tr>
</tbody>
</table>

Are Haplotypes Identified: ☐ YES  ☐ NO

### Requesting Hospital:
- Telephone: 
- Fax: 
- Email: 
- Transplant Center: 

Thank you, on behalf of this patient.

Signature

---

King Abdullah International Medical Research Center
P.O. Box 22490 Riyadh 11426
Mail Code 1515
Tel No: +966-11-429-9999 Ext. 944079/4405
Fax: +966-11-80-4360
Email: saudicdc-search@sina.med.sa

Saudi Stem Cells Donor Registry
Ministry of National Guard - Health Affairs
King Abdullah International Medical Research Center
PRELIMINARY SEARCH REQUEST

Date of Request: 2, 16, 2016
day month year

Type of Search to be performed:
- Stem Cell Donors Only
- Cord Blood Units Only
- Stem Cell Donors & Cord Units

Is this search urgent? [ ] Yes [ ] No

Are mismatches accepted? [ ] Yes [ ] No

ID Number: ____________________________

Last name: ____________________________
First Name: ____________________________

Date of Birth: 29, 6, 2010
day month year

Gender: [ ] Male [ ] Female

CMV Status: [ ] Positive [ ] Negative [ ] Unknown

Weight: _______ kg

Diagnosis: Pancreatitis

Date of Diagnosis: _______/_____/_____
Day Month Year

Race (optional): ____________________________

Geographic Ethnicity (optional): ____________________________

Patient Class I typing results:

<table>
<thead>
<tr>
<th></th>
<th>A</th>
<th>B</th>
<th>C</th>
</tr>
</thead>
<tbody>
<tr>
<td>First antigen:</td>
<td>03:01:01G</td>
<td>01:02:01G</td>
<td>01:02:01G</td>
</tr>
<tr>
<td>Second antigen:</td>
<td>11:01</td>
<td>05:01</td>
<td>15:02:01C</td>
</tr>
<tr>
<td>Testing method:</td>
<td>Sero. DNA</td>
<td>Sero. DNA</td>
<td>Sero. DNA</td>
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</tbody>
</table>

Patient Class II typing results:

<table>
<thead>
<tr>
<th></th>
<th>DRB1</th>
<th>DRB3/4/5</th>
<th>DQB1</th>
<th>DPB1</th>
</tr>
</thead>
<tbody>
<tr>
<td>First antigen:</td>
<td>11:01</td>
<td>03:01</td>
<td>03:01</td>
<td></td>
</tr>
<tr>
<td>Second antigen:</td>
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ARE HAPLOTYPES IDENTIFIED: [ ] Yes [ ] No

REQUESTING HOSPITAL:

Telephone: ____________________________
Fax: ____________________________
Email: ____________________________

Transplant Center: ____________________________

Thank you, on behalf of this patient.

Signature: ____________________________

SSCDR N01
### SEARCH REPORT

**Patient:**
- **Gender:** Male
- **DOB:** December 3, 1981

**ABO:**
- **Rhesus:** 02:05

**Local ID:**
- **Diagnosis:** 3459946

**Date of request:** November 28, 2016

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**10/10 Antigen Match: 12 donors**
Subsequent steps

- HR typing or Confirmatory typing (CT request)
- Donor activation and donor work up request
- Stem cell collection prescription (BM harvest or PBSC collection)
- Stem cell collection and shipment
ACKNOWLEDGEMENT OF SSCDR TEAM:

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Director
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HLA Lab director
Prof. Ali Hajer

Deputy Director
Dr. Dunia Jawdat

Associate Director- Western Region
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Mr. Moayed Baethem (Jeddah)

Ms. Noha Tashkandi
Ms. Sumaya Al Khamees
Ms. Qamariyyah Alnafie
Ms. Dalal Melabari (Jeddah)
Ms. Zainab Almutairi
Be a donor
Save a life