Primary immunodeficiency in Iran

Asghar Aghamohammadi MD, PhD
Research Center for Immunodeficiencies
Children Medical Center Hospital
Tehran University of Medical Sciences
Primary immunodeficiency (PID)

1- No human being can survive without a functioning of immune system.

2- Defects in immune system development and/or function regulate in PID.

3- PID's are much more common than originally appreciated.

4- Clinical features of PID:
   - Recurrent and chronic infections
   - Autoinflammation,
   - Autoimmunity,
   - Malignancy,
During 1926-2016 more than 300 PID disorders have been described
Estimation of the frequency of PADs worldwide

PADs is the most common type of group of PID
Antibody deficiencies account for 50 to 60% of all PID

An incidence of 10.3/100,000 PID person years

### Period of study

<table>
<thead>
<tr>
<th></th>
<th>First report</th>
<th>Second report</th>
<th>Third report</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Population</strong></td>
<td>65,911,000</td>
<td>69,000,000</td>
<td>77,362,373</td>
</tr>
<tr>
<td><strong>Total number of PID</strong></td>
<td>440</td>
<td>930</td>
<td>1661</td>
</tr>
<tr>
<td><strong>A prevalence of PID</strong></td>
<td>0.66</td>
<td>1.34</td>
<td>2.14</td>
</tr>
<tr>
<td>Per/100,000 person</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td><strong>Total number of PAD</strong></td>
<td>202</td>
<td>357</td>
<td>593</td>
</tr>
<tr>
<td><strong>A prevalence of PAD</strong></td>
<td>0.30</td>
<td>0.51</td>
<td>0.76</td>
</tr>
<tr>
<td>per/100,000 person</td>
<td></td>
<td></td>
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</tr>
</tbody>
</table>

### Estimation of frequency of PID in Iran

- PID
- T-Cell defect

![Graph showing estimation of frequency of PID in Iran](image)
Consanguineous marriage in the Middle East

- Consanguineous marriages is a common feature of the family systems in the Middle East
- Its rate varies from 20% to more than 60% in the Middle East
- The mean proportion of consanguineous marriages in Iran is 39%.
- This rate among PID patients is higher is around 67%.

Traditional belief says that marriage agreement between cousins has been made in sky.

Overview of B-cell defects causing antibody deficiency

Overview of B-cell defects causing antibody deficiency

Overview of B-cell defects causing antibody deficiency


ICOS, TACI, CD19, BAFFR, CD81, CD20, CD21, LRBA and more recently IKAROS

ICOS, TACI, CD19, BAFFR, CD81, CD20, CD21, NFkB, PKC3D and more recently IKAROS
Clinical manifestation and organ system affected in PAD

Asghar Aghamohammadi  M.D : Research Center for Immunodeficiency Tehran University of Medical Sciences (TUMS), Iran
Clinical presentation of patients

4 years old boy with following history
Recurrent and severe infections
Pneumonia (4 times) sinusitis (3 times) Otitis media (5 times)
Gastrointestinal infections
absence of tonsils

1-CBC
WBC: 8000/mm³, PMN: 40% Lymph: 58% Hb:13, platlet: 400.000

2- Igs
IgG: 200 mg/dl IgA: 7 mg/dl IgM: 10 mg/dl

3 Sp.An
Anti Teta absent, Anti Diph : absent

3 B&T
WBC:800/mm³ Lymph :58% CD3: 75% CD4: 45% CD8% CD19: 0.1% CD16:15

Diag
X- Linked Agammaglobulinemia (BTK) AR Agammaglobulinemia –(5 genes)

Confirmation
Mutation analysis
The frequency of diagnosed PID cases in Asia, Australia and Africa

<table>
<thead>
<tr>
<th>Continent</th>
<th>Rank</th>
<th>Country</th>
<th>Population</th>
<th>Presumed rate of PID</th>
<th>Registered Patients</th>
<th>Undiagnosed Patients</th>
</tr>
</thead>
<tbody>
<tr>
<td>Asia</td>
<td>12</td>
<td>China</td>
<td>1,357,000,000</td>
<td>271400</td>
<td>201(0.07%)</td>
<td>99.93%</td>
</tr>
<tr>
<td></td>
<td>13</td>
<td>India</td>
<td>1,252,000,000</td>
<td>250400</td>
<td>159 (0.06%)</td>
<td>99.94%</td>
</tr>
<tr>
<td></td>
<td>2</td>
<td>Iran</td>
<td>80,000,000</td>
<td>16,000</td>
<td>1800(11.25%)</td>
<td>88.75%</td>
</tr>
<tr>
<td></td>
<td>8</td>
<td>Japan</td>
<td>127,300,000</td>
<td>25460</td>
<td>1240 (4.9%)</td>
<td>95.1%</td>
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<tr>
<td></td>
<td>9</td>
<td>Korea</td>
<td>50,220,000</td>
<td>10044</td>
<td>152 (1.51%)</td>
<td>98.49%</td>
</tr>
<tr>
<td></td>
<td>4</td>
<td>Kuwait</td>
<td>3,369,000</td>
<td>674</td>
<td>76 (11.28%)</td>
<td>88.72%</td>
</tr>
<tr>
<td></td>
<td>10</td>
<td>Malaysia</td>
<td>29,720,000</td>
<td>5944</td>
<td>51(0.86%)</td>
<td>99.14%</td>
</tr>
<tr>
<td></td>
<td>3</td>
<td>Oman</td>
<td>3,632,000</td>
<td>726</td>
<td>90(12.4%)</td>
<td>87.6%</td>
</tr>
<tr>
<td></td>
<td>11</td>
<td>Thailand</td>
<td>67,000,000</td>
<td>13400</td>
<td>67 (0.5%)</td>
<td>99.5%</td>
</tr>
<tr>
<td></td>
<td>5</td>
<td>Turkey</td>
<td>74,930,000</td>
<td>14986</td>
<td>1435(9.6%)</td>
<td>90.4%</td>
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<tr>
<td>Australia and New Zealand</td>
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<td>Australia and New Zealand</td>
<td>27,600,000</td>
<td>5520</td>
<td>209(3.8%)</td>
<td>96.2%</td>
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<tr>
<td>Africa</td>
<td>4</td>
<td>Egypt</td>
<td>75,490,000</td>
<td>15098</td>
<td>64(0.42%)</td>
<td>99.58%</td>
</tr>
<tr>
<td></td>
<td>2</td>
<td>Morocco</td>
<td>32,520,000</td>
<td>6504</td>
<td>424(6.51%)</td>
<td>93.49%</td>
</tr>
<tr>
<td></td>
<td>3</td>
<td>South Africa</td>
<td>50,220,000</td>
<td>10044</td>
<td>168(1.67%)</td>
<td>98.33%</td>
</tr>
<tr>
<td></td>
<td>1</td>
<td>Tunis</td>
<td>10,777,500</td>
<td>2155</td>
<td>710(32.9%)</td>
<td>67.1%</td>
</tr>
</tbody>
</table>
Important points in PID that resulted in the launch World PI week

**Frequency of PID**

1: 1200
Suspected people with a genetic primary immunodeficiency that significantly affect their health

**Affected people**

6 million people worldwide may be living with PID

**Form of PID**

Close to 300 different forms of PID exist

**Undiagnosed patients**

70-90% of PID sufferers remain undiagnosed
All these facts pushed to patients, families, doctors, nurses, patients come together to raise awareness of PID
WPIW Started in 2011

Background

- WPIW started in 2011 and increasing its outreach exponentially since then.
Awareness raising Iran

Tue 23 April 2013

Research Center for Immunodeficiencies (RCID) invites all pediatricians as well as basic and clinical scientists to join this event for the 3rd time to commemorate the World PI Week.

Morning report dedicating to PID, Case discussion, Scientific lectures, Expert PID meeting, Junior scientists meeting, Watching a movie about ethics in PID, Panel discussion and Interviewing with media are parts of the meeting.

The Event will take place in The Arib Conference Room, Children's Medical Center Hospital, Tehran, Iran

Email: aghamohammadi@tums.ac.ir and rezaei_nima@tums.ac.ir
http://rcid.tums.ac.ir
Awareness efforts in Iran during WPIW

The Iranian IPOPI National Member Organisation and the Iranian Research Center for Immunodeficiencies (RCID) carried out different activities to commemorate the WPIW for the fourth consecutive year on 22-29 April 2014 at the Children’s Medical Center Hospital, Tehran.

On the first day of WPIW, the walk was organized from the Hospital to the Laleh Park and the 10 warning signs poster was distributed to the general public. Members of the hospital attracted people’s attention and handed out postcards of the World PI Week and leaflets with the 10 warning signs of primary immunodeficiency.

The morning report (a medical training programme) of the Children’s Medical Center Hospital was dedicated to PIDs and a lecture on a case of CVID was given for pediatricians, pediatric residents and medical students. Afterwards, two lectures by Dr Aghamohammadi and Dr Rezaei on the approach to PID patients and PID activities in Iran, respectively.

On 23 April, another scientific meeting was organized in Rasoul Akram Hospital, one of the main general hospitals in Tehran. A large number of people participated in this ceremony which was held by the Iranian NMO in the Children’s Medical Center. TV artists were invited to perform joyful programs for children.

On the following days, a ceremony in appreciation of the people primary immunodeficiency patients and a theater play were held at Children’s Medical Center Hospital. All proceeds from the theater went directly to patients care and were used to buy medications and purchase supplies for patients.

Dr Aghamohammadi, Head of Research Center for Immunodeficiencies and Dr Rezaei, the Deputy President of the Research Center for Immunodeficiencies participated in several television and radio interviews and spoke about prevalence of PIDs in Iran, warning signs of primary immunodeficiency and treatment of PID patients.

Ashghar Aghamohammadi
Nima Rezaei
Babak Mirminachi
Iran – Scientific Day 2015

Who:

- Research Centre for Immunodeficiency and Children’s Medical Centre, Tehran University of Medical Sciences

Action:

- The Research Center for Immunodeficiencies (RCID) and Children’s Medical Center invited all pediatricians as well as basic and clinical scientists to join an event for the 5th time to commemorate the World PI Week.
- Starting with a morning report dedicated to PID, and continuing with case discussions, scientific lectures, PID expert Meeting, junior scientist meeting, patients and their families meeting, panel discussion and interviews with the media.

Find out more about the events here
WPIW 2015: Country Involvement

76 countries reported their involvement
Many more events taking place across the globe

Austria
Australia
Argentina
Azerbaijan
Belarus
Belgium
Bosnia
Brazil
Bulgaria
Canada
Chile
China
Colombia
Cyprus
Czech
Republic
Egypt
Estonia
France
Germany
Greece
Hungary
Iceland
India
Ireland
Iran
Italy
Israel
Kazakhstan
Japan
Lithuania
Malaysia
Mexico
Morocco
Norway
Palestine
Peru
Poland
Portugal
Romania
Russia
Serbia
Slovakia
Slovenia
South Africa
Spain
Sweden
Switzerland
Taiwan
Turkey
Uganda
United Kingdom
United States (appr 25 States)
Ukraine
اقدامات مهم هفته جهانی نقص ایمنی در سال ۱۳۹۵

• افزایش سطح آگاهی مردم و جامعه
الف - تهیه و توضیح پمپلتن در زمینه بیماری های نقص ایمنی به زبان ساده برای مردم
ب - نصب چندین بیلپورد آگاهی دهنده در زمینه بیماری های نقص ایمنی در شهر تهران
ج - تهیه و تکثیر تمپر پستی بمنظور گرامیداشت هفته جهانی نقص ایمنی

• برگزاری کنفرانسی نقص ایمنی با حضور متخصصین ایمونولوژی داخل و خارج کشور

• برنامه ریزی در خصوص راه اندازی شبکه تشخیص و درمان نقص ایمنی در ایران

• راه اندازی روشن ثبت بیماران به طریقه اینترنت
Planning for World Primary Immunodeficiency Week In 2016

- **Doctors' awareness concerning PID:** Organizing 8th Conference on PID

- **Public awareness of Primary Immunodeficiencies.**
  - Preparation and distribution of pamphlets in the field of PID
  - Through the billboards in urban areas
  - Design and print postage stamp in the field of immunodeficiency

- **Establishment of Iranian Primary Immunodeficiency Network**

- **To lunch online registration of PID patients in PID Registry (IPIDR)**
گزارش فعالیت آموزشی در زمینه نقش ایمنی در هفته جهانی سال ۱۳۹۶ - "بیماری های نقش ایمنی اولیه"
در این مقاله، از سیستم ایمنی و میکروب‌ها در نگاهی کوتاه مدت برای افراد بزرگ به روزرسانی می‌شود. در این مقاله، دانشمندان نشان می‌دهند که این میکروب‌ها در سیستم ایمنی انسان به وسیله ایمنی‌های دهانی و رحمی و سیستم ایمنی عمومی (فیلم‌های ایمنی) کاربرد دارند. به همراه این، این مقاله نشان می‌دهد که این میکروب‌ها به‌طور کلی به‌طور مستقیم یا غیرمستقیم به سیستم ایمنی انسان می‌پردازند.
Increasing awareness of Public and PID families

10 Warning Signs of Primary ImmunoDeficiency

1. Four or more new skin infections within one year.
2. Two or more serious skin infections within one year.
3. Two or more months of persistent, loose stools with little or no fever.
4. Persistent cough or frequent colds.
5. Frequent sore throats.
6. Persistent skin or organ infections.
7. Persistent excessive thirst or sugar intolerance.
8. Need for intravenous antibiotics to clear infections.
9. Loss of appetite, weight loss, or failure to thrive.
10. Persistent fever.

Presented as a public service by:

http://www.ianpita.org
E-mail: info@ianpita.org

De علامات هشدار دهنده وجود بیماری نقص اولیه ایمنی

وجود بیماری نقص اولیه ایمنی اولویت ویژه‌ای انسان سبب می‌گردد که کودکان و بچه‌های بزرگ دچار عفونت‌های مکرر گردد. در هر فرد ناپدید می‌گردد در حالت چنین مبتلاهایی به افراد چنین مبتلا به این بیماری باید اطلاع داشته باشند. با این حال، آنتی‌بیوتیک‌هایی که به دست پیدا نمی‌کنند ممکن است بتوانند به حالت پزشکی درمانی مانند درمان و درمان درمان گردد. از بررسی است خسته ایده‌پردازی بتواند به پزشک مراجعه شود.
The global organization working to improve the quality of life for people with PID
THE J PROJECT
Steering Committee Members

1. Albania
   Tirana
   Ismini Georgina Kuli-Lito
   gkuli_lito@hotmail.com

2. Azerbaijan
   Baku
   Ganimard Nasrinigayaeva
   g.nasrinigayaeva@hotmail.com

3. Belarus
   Minsk
   Mikhail Reblevsky
   bellevsky_vm@mail.ru

4. Bosnia and Herzegovina
   Sarajevo
   Velma Muladunic
   velma_muladunic@hotmail.com

5. Bulgaria
   Sofia
   Eliza Stoyanova
   stoyanovas@gmail.com

6. Croatia
   Zagreb
   Jadranka Kolar
   jkolar@gmail.com

7. Czech Republic
   Prague
   Anna Vlava
   anna.vlava@fimotol.cz

8. Czech Republic
   Brno
   Jiri Litman
   jiri.litman@fimotol.cz

9. Egypt
   Cairo
   Assia El-Murra
   asseela@outlook.com

10. Estonia
    Tallinn
    Sirje Vellmi
    vellmi_sirje@outlook.com

11. Estonia
    Tallinn
    Krista Rossi
    krissa.rossi@gmail.com

12. Hungary
    Debrecen
    Lajos Marton
    lmarton@med.unideb.hu

13. Hungary
    Debrecen
    Melinda Erdős
    melinda.erdos@yahoo.com

14. Hungary
    Debrecen
    Beáta Tóth
    beata.toot@freemail.hu

15. Iran
    Tehran
    Asghar Aghamohammadi
    aghamohammadi@tums.ac.ir

16. Iran
    Tehran
    Nima Rezaei
    nima_rezaei@yahoo.com

17. Kazakhstan
    Astana City
    Nurzhan Otarchayev
    otarchayev@rambler.ru

18. Latvia
    Riga
    Tautums Prokofjeva
    marga@bankteicija.lv

19. Lithuania
    Kaunas
    Brigitas Stikenskien
    brigitas.stikenskiene@kaunasklinikos.lt

20. Poland
    Warsaw
    Ewa Bernatowska
    bernatowska@pol.pl

21. Poland
    Warsaw
    Malgorzata Rac
    malgorzata.poci@wp.pl
History of activities in primary immunodeficiency diseases in Iran

1. 1977 - Founding field of immunology and allergy residency by Dr. Farshad and his colleagues
2. 1988 - Establishing field of Immunodeficiency Medicine in the Children's Hospital in Iran by Dr. Farshad
3. 1999 - Establishment primary Immunodeficiency association (PIA) in Iran
4. 2000 - Constitution of research group to study in field of primary immunodeficiency
5. 2003 - Publishing of primary immunodeficiency books collaborating with international scientists
6. 2005 - Organizing international congress of primary immunodeficiency and world PI berries
7. 2009 - 2010 - Establishment of research center for Immunodeficiency (RCID)
8. 2012 - Establishment of training program for PID candidates to the field of PID by RCID
9. 2016 - Establishment PID network in Iran

1. 1367 - Ra'ad el-adaviya of Imam Amin ebn-e-Ali in Iran
اقدامات مهم هفته جهانی نقص ایمنی در سال ۱۳۹۶

- افزایش سطح آگاهی مردم و جامعه

الف - تهیه و توضیح پمپلیت در زمینه بیماری‌های نقص ایمنی به زبان ساده برای مردم

ب - نصب چندین بیلبورد آگاهی دهنه در زمینه بیماری‌های نقص ایمنی در شهر تهران

ج - تهیه و تکثیر تمبر پستی به منظور گرامیداشت هفته جهانی نقص ایمنی

- برگزاری کنفرانس نقص ایمنی با حضور متخصصین ایمونولوژی داخل و خارج کشور

- برنامه ریزی در خصوص راه اندوزی شبکه تشخیص و درمان نقص ایمنی در ایران

- راه اندوزی روشن ثبت بیماران به طریقه اینترنتی
On behalf of the Research Center for Immunodeficiencies (RCID), we invite you to participate in the 8th Conference on Primary Immunodeficiency (PID) taking place April 23-24, 2016 at the Tehran University of Medical Sciences (TUMS) in Tehran, Iran.

RCID which is affiliated to Tehran University of Medical Sciences (TUMS) was established in 2010 and is dedicated to develop and improve the science and practice of PID. The mission of RCID is to facilitate education, translational research and to promote in the care of patients with PID. In order to increase awareness of medical community, every year during World week PID (22-29 April), RCID organizes 2 days meeting focusing on update in diagnosis and treatment of affected patients with PIDs.

In the 2016, RCID is planning to organize the 8th Annual Conference on Primary immunodeficiency on the 23-24th April at Children’s Medical Center Hospital, Tehran.

Abstracts are now being accepted for the 2016 RCID Annual Conference. The deadline for abstract submission is 29th February 2016. Notification of selected Abstracts will take place in late February.

A preliminary agenda is available now, with registration open now as well!

Join us for this momentous occasion that promises to be one of the best conferences on primary immunodeficiency.
Sponsorship for
8th ICID conference on Primary Immunodeficiency (PID)

Office of Vice Chancellor for Global strategies and international affairs, Tehran University of Medical Sciences

Iranian stem cell donor program (ISCDP)

National Elites foundation

Municipality of Tehran

Biotest Pharmaceuticals Corporation  CSL Behring AB

Tehran University of Medical Sciences

Iran Science Elites Federation

CSL Behring

Biotherapies for Life™
Scientific meetings

5th Translational Immunology School (TIS)
25 - 27 February 2016
Werdorf OT Petzow (Germany)

Advances in Primary Immunodeficiency
A Winter School run by the UCL Centre for Immunodeficiency
07 - 09 March 2016
Windsor, UK

8th International Conference of Primary Immunodeficiency Diseases (ICID)
23 - 24 April 2016
Tehran, Iran

ESID 2016 Eastern Spring School in Primary Immunodeficiencies
18 - 21 May 2016
Telbörk, Czech Republic

EAACI 2016
11-15 June 2016
Vienna, Austria
The Jeffrey Modell Foundation’s Medical Academy takes great pride in supporting novel, cutting edge, and innovative research. Here, physicians, scientists, and
Conferences

April 23 - April 24, 2016
8th International Conference on Primary Immunodeficiency (PI)
Children’s Medical Center, Tehran, Iran
For more information,
rcidcong.ir

April 29 - May 1, 2016
APSID (Asia Pacific Society for Immunodeficiencies)
Hong Kong, China
For more information,
paed.hku.hk/APSID/APSID2016/
IPOI, the International Patient Organisation for Primary Immunodeficiencies, is the Association of national patient organisations dedicated to improving awareness, access to early diagnosis and optimal treatment for primary immunodeficiency (PID) patients worldwide.

Established in 1992, IPOI works as the global advocate for the PID patient community in cooperation with its National Member Organisations (NMOs) and key PID stakeholders.

Visit our new website page on Severe Combined Immunodeficiency (SCID Newborn screening)
If you want your events included in the IPOPI International Calendar, please send a mail to info@ipop.org.

<table>
<thead>
<tr>
<th>Month</th>
<th>Date</th>
<th>Event Details</th>
<th>Location</th>
<th>Details</th>
</tr>
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<tbody>
<tr>
<td>Apr</td>
<td>6-10</td>
<td>International Congress on Autoimmunity 2016</td>
<td>Leipzig, Germany</td>
<td>Autoimmunity 2016</td>
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<tr>
<td>Apr</td>
<td>22-29</td>
<td>World Primary Immunodeficiencies Week (WPIW)</td>
<td>Worldwide</td>
<td>WPIW</td>
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<tr>
<td>Apr</td>
<td>23-24</td>
<td>RCID Annual Conference 2016</td>
<td>Tehran, Iran</td>
<td>RCID</td>
</tr>
<tr>
<td>Apr</td>
<td>27-28</td>
<td>IPOPI Asian Regional Patients Meeting</td>
<td>Hong Kong</td>
<td>IPOPI</td>
</tr>
<tr>
<td>Apr-May</td>
<td>29-1</td>
<td>ASPID Conference</td>
<td>Hong Kong</td>
<td>ASPID</td>
</tr>
<tr>
<td>May</td>
<td>25-26</td>
<td>IPFA/PEI 23rd annual International Workshop on ‘Surveillance of Blood Borne Pathogens’</td>
<td>Lisbon, Portugal</td>
<td>IPFA</td>
</tr>
<tr>
<td>Sep</td>
<td>21-24</td>
<td>ESID Biennial Meeting (together with IPOPI and INGID)</td>
<td>Barcelona, Spain</td>
<td>ESID IPOPI INGID</td>
</tr>
</tbody>
</table>
### Events by Discipline

- **Health Science** (999)
- **Engineering** (688)
- **Life Science** (603)
- **Computer Science** (506)
- **Chemistry** (337)
- **Earth Science** (331)
- **Physics** (276)
- **Materials Science** (259)
- **Social & Behavioral Science** (245)

### Events by Location

- **Europe** (1038)
- **North America** (655)
- **Asia** (340)
- **Australia** (55)
- **Africa** (45)
- **South America** (34)

### Events by Date

- **2016** (2529)
- **2017** (100)
- **2018** (14)
- **2019** (2)

### Why use Global Events List?
- Select events
- Stay up-to-date
- Engage & interact
- Plan ahead
International Spring School on Primary Immunodeficiency

22–24 April 2016
Tehran, Iran, Islamic Republic Of

Organization: Tehran University of Medical Science, Children's Medical Center Hospital

Disciplines: Life Science, Health Science

Subdisciplines: Biology, Genetics, Immunology, Medicine, Allergy / Clinical Immunology, Infectious Diseases, Immunology

Event type: Conference, Lecture, Meeting

Venue: Children's Medical Center
اقدامات مهم هفته جهانی نقص ایمنی در سال ۲۰۱۶

• افزایش سطح آگاهی مردم و جامعه
الف – تهیه و توضیح پمپلتن در زمینه بیماری های نقص ایمنی به زبان ساده برای مردم
ب – نصب چندین بیلبورد آگاهی به زبان ساده در زمینه بیماری های نقص ایمنی در شهر تهران
ج – تهیه و تکثیب تمبر ویژه برای گرامیداشت هفته جهانی نقص ایمنی

• برگزاری کنفرانس نقص ایمنی با حضور متخصصین ایمونولوژی داخل و خارج کشور

• برنامه‌های ویژه در مورد تشخیص و درمان نقص ایمنی در ایران

• راه انددازی روش ثبت بیماران به طریقه اینترنت
Establishment of Iranian Primary Immunodeficiency Network
Missions and Visions of PID network

1- To increase the awareness about PID among physicians, patients and public

2- To improve the diagnostic facilities in peripheral centers

3- To modify the method of referring patients to the third level center

4- To promote and develop the national PID patients’ registry

5- To increment the relation with health policy makers in ministry of health
Organization of the national PID network

Founding board.
- Board of Trustees for PID network
  from different medical universities of the country

Steering committee

CEO and Deputies

Executive committees

- Publications
- Treatment and Management of Patients
- Standard Guidelines preparation
- Genetic of PID
- Innate immunity
- Humoral Immunity
- Cellular Immunity
- National registry
I want to welcome you to the Iranian Primary Immunodeficiency Network (IR-PIN), the organisation dedicated to the primary immunodeficiency. The Iranian Primary Immunodeficiency Network (IR-PIN) is a multidisciplinary organisation dedicated to those primary immunodeficiency (PID) disorders including disorders of innate and antigen-specific immunity. The main aim of network is to improve the care of PID patients.

All scientists and medical practitioners in the Iran who are involved in the healthcare of patients with primary immune deficiencies or research into these diseases are invited to be members of IRPIN.

Asghar Aghamohammadi, MD, PhD
Professor of Pediatrics
Director of Research Center for Immunodeficiencies (RCID)
Tehran University of Medical Sciences
اقدامات مهم هفته جهانی نقص ایمنی در سال ۱۳۹۶

- افزایش سطح آگاهی مردم و جامعه

الف - تهیه و توضیح پمپلته در زمینه بیماری‌های نقص ایمنی به زبان ساده برای مردم

ب - نصب چندین پیکربند آگاهی دهنه در زمینه بیماری‌های نقص ایمنی در شهر تهران

ج - تهیه و تکثیر تمبر بمنظور گرامیداشت هفته جهانی نقص ایمنی

- برگزاری کنفرانس نقص ایمنی با حضور متخصصین ایمپولوژی داخل و خارج کشور

- برنامه ریزی در خصوص راه اندازی شبکه تشخیص و درمان نقص ایمنی در ایران

- راه اندازی روشن فیت بیماران به طریق اینترنت
For More information and reading materials

Rezaei N, Aghamohammadi A, Notarangelo LD. Primary immunodeficiency diseases: definition, diagnosis and management. © Springer 2008

Aghamohammadi A, Rezaei N. Clinical Cases in Primary Immunodeficiency Diseases: A Problem-Solving Approach. Springer 2013
Thanks for your attention