22q11.2 Deletion

Bringing the 22q11.2 Deletion Into the 21st Century
Second International Conference for Families and Professionals

June 22-25, 2000
Penn Tower Hotel
Philadelphia, Pa., U.S.A.

Sponsored by

The Children's Hospital of Philadelphia
A pediatric healthcare network
THURSDAY

7:00 a.m. - 8:00 a.m.
Continental Breakfast,
CHOP, 1st floor,
Stokes Rotunda

8:00 am - 1:00 p.m.
Conference in Session
Penn Tower Hotel,
2nd floor, Ballroom Foyer

1:00 p.m. - 2:15 p.m.
* General Lunch,
Location on ticket

2:15 p.m. - 5:45 p.m.
Conference in Session
Penn Tower Hotel,
2nd floor, Ballroom

3:00 p.m. - 4:00 p.m.
Special Presentation
for Parents and Non-genetics Professionals
Penn Tower Hotel,
2nd floor, Ballroom

6:00 p.m. - 8:35 p.m.
Welcome and Historical Overview
Penn Tower Hotel,
2nd floor, Ballroom

FRIDAY

7:00 a.m. - 8:00 a.m.
Continental Breakfast,
CHOP, 1st floor,
Stokes Rotunda

7:30 a.m. - 6:00 p.m.
Registration
Penn Tower Hotel,
2nd floor, Ballroom Foyer

8:00 am - 1:15 p.m.
Conference in Session
Penn Tower Hotel,
2nd floor, Ballroom

1:15 p.m. - 1:30 p.m.
Special Performance

6:00 p.m.
Star Spangled Celebration

SATURDAY

7:00 a.m. - 8:00 a.m.
Continental Breakfast,
CHOP, 1st floor,
Stokes Rotunda

7:30 a.m. - 6:00 p.m.
Registration
Penn Tower Hotel,
2nd floor, Ballroom Foyer

8:00 am - 1:15 p.m.
Conference in Session
Penn Tower Hotel,
2nd floor, Ballroom

1:15 p.m. - 1:30 p.m.
Special Performance

2:30 p.m. - 6:30 p.m.
Conference in Session: Concurrent Sessions
See Program for Specific Location

SUNDAY

7:00 a.m. - 8:00 a.m.
Continental Breakfast,
CHOP, 1st floor,
Stokes Rotunda

7:30 a.m. - 1:00 p.m.
Registration
Penn Tower Hotel,
2nd floor, Ballroom Foyer

8:00 am - 1:15 p.m.
Conference in Session
Penn Tower Hotel,
2nd floor, Ballroom

1:15 p.m.
Conference Adjourns
# The Second International Conference Program

**Thursday, June 22, 2000**

<table>
<thead>
<tr>
<th>Time</th>
<th>Event</th>
<th>Location</th>
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<tbody>
<tr>
<td>Noon</td>
<td>Conference Registration</td>
<td>Penn Tower Hotel, 2nd floor, Ballroom Foyer</td>
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<tr>
<td>Special Presentation</td>
<td>Penn Tower Hotel, 2nd floor, Ballroom</td>
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<tr>
<td>3 p.m.</td>
<td>Special Presentation for Parents and Non-genetics Professionals: What is the 22q11.2 Deletion?</td>
<td>Donovan M. McDonald-McGinn, M.S., C.G.C. Philadelphia, Pennsylvania, U.S.A.</td>
</tr>
<tr>
<td>6 p.m.</td>
<td>Welcome and Introduction</td>
<td>Donovan M. McDonald-McGinn, M.S., C.G.C.</td>
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<tr>
<td></td>
<td>The Sunshine Singers</td>
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<tr>
<td>6:35 p.m.</td>
<td>Velocardiofacial Syndrome</td>
<td>Rosalie Goldberg, M.S., C.G.C. Bronx, New York, U.S.A.</td>
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<tr>
<td>6:55 p.m.</td>
<td>Conotruncal Anomaly Face Syndrome</td>
<td>Atsuyoshi Takao, M.D. Tokyo, Japan</td>
</tr>
</tbody>
</table>
7:15 p.m.  The Philadelphia Story: Clinical and Molecular Findings in the 22q11.2 Deletion  
Elaine H. Zackai, M.D.  
Beverly S. Emanuel, Ph.D.  
Philadelphia, Pennsylvania, U.S.A.

7:55 p.m.  Clinical Findings in the Belgium Population  
Koen Devriendt, M.D., Ph.D.  
Leuven, Belgium

8:15 p.m.  The 22q11 Deletion Syndrome: A Multidisciplinary Project in Sweden  
Sólveig Óskarsdóttir, M.D.  
Göteborg, Sweden

8:35 p.m.  Adjourn
Friday, June 23, 2000

7:00 a.m.  Continental Breakfast  CHOP, Main Building, 1st floor, Stokes Rotunda

7:30 a.m.  Conference Registration  Penn Tower Hotel, 2nd floor, Ballroom Foyer

8:00 a.m.  General Conference Session I  Penn Tower Hotel, 2nd floor, Ballroom

Moderators: Bruno Marino, M.D.
           Atsuyoshi Takao, M.D.

8 a.m.  Cardiac Abnormalities: An International Perspective
        Bruno Marino, M.D.
        Rome, Italy
        Elizabeth Goldmuntz, M.D.
        Philadelphia, Pennsylvania, U.S.A.
        Atsuyoshi Takao, M.D.
        Tokyo, Japan

8:45 a.m.  Tetralogy of Fallot (TOF) Associated With
           Chromosome 22q11 Deletion in Adolescents and
           Young Adults
           Momma, Matsuoka, Takao
           Tokyo, Japan

8:55 a.m.  22q11 Microdeletions in Adults With Familial
           Tetralogy of Fallot
           Hokanson, Pierpont, Hirsch, Molier
           Minneapolis, Minnesota, U.S.A.

9:05 a.m.  Identifying the Cardiac Patient With a 22q11
           Deletion: Cardiac and Extracardiac Features
           Shores, Jawad, Driscoll, Stouffer, Kenton,
           Hoess, Mitchell, Goldmuntz
           Philadelphia, Pennsylvania, U.S.A.
9:15 a.m. Pulmonary Atresia/VSD (PA-VSD): Prevalence of Deletion 22q11 in the Different Anatomic Patterns
Anaclerio, Marino, Toscano, Gitto, Digilio, Giannotti, Dallapiccola
Rome, Italy

9:25 a.m. Outcomes of Cardiothoracic Surgery
J. William Gaynor, M.D.
Philadelphia, Pennsylvania, U.S.A.

9:40 a.m. Questions and Answers

9:50 a.m. Break
Penn Tower Hotel, 2nd floor, Assembly Room

Moderators: Kathleen Sullivan, M.D., Ph.D
John Riski, Ph.D., F.A.S.H.A., C.C.C.-S.

10:15 a.m. Immunodeficiency and Rheumatologic Findings in the 22q11.2 Deletion Syndrome
Kathleen Sullivan, M.D., Ph.D.
Philadelphia, Pennsylvania, U.S.A.

10:35 a.m. T-Cell Receptor Repertoire and Function in DiGeorge/Velocardiofacial Syndrome
Pierdominici, Marziali, Giovannetti, Oliva, Rosso, Marino, Digilio, Giannotti, Novelli, Aiuti, Pandolfi
Rome, Italy

10:45 a.m. The 22q11 Deletion Syndrome: A Multidisciplinary Project in Sweden: Immunological Aspects
Óskarsdóttir, Fasth
Göteborg, Sweden

10:55 a.m. Immunologic Characteristics of Catch 22 Syndrome
Ryu, Jo, Kil, Lee
Taejon, Republic of Korea
11:05 a.m. Natural History of the Immunodeficiency in Chromosome 22q11.2 Deletion Syndrome
Sullivan, McDonald-McGinn, Zackai, Jawad
Philadelphia, Pennsylvania, U.S.A.

11:15 a.m. Graves Disease in Patients With a 22q11.2 Deletion
Kawame, Adachi, Tachibana, Masuno, Kurosawa, Ochiai
Kanagawa, Japan

11:25 a.m. Questions and Answers

11:35 a.m. Endocrinology of the 22q11 Deletion Syndrome
Stuart Weinzeimer, M.D.
Philadelphia, Pennsylvania, U.S.A.

11:50 a.m. Feeding Issues: Old Challenges, New Solutions
Peggy Eicher, M.D.
Yardley, Pennsylvania, U.S.A.

12:10 p.m. Palatal Abnormalities
Richard Kirschner, M.D.
Philadelphia, Pennsylvania, U.S.A.

12:25 a.m. Outcomes of Speech Measures Using Instrumentation
John Riski, Ph.D., F.A.S.H.A., C.C.C.-S.
Atlanta, Georgia, U.S.A.

12:40 p.m. Videofluoroscopic Evaluation of Velopharyngeal Function in Children With Velocardiofacial Syndrome
Rommel, Vantrappen, Hermans, Smet, Devriendt,
Feenstra, Fryns
Leuven, Belgium

12:50 p.m. Questions and Answers

1 p.m. Lunch

See your Ticket for Location
2:15 p.m. **General Conference Session II**  
**Penn Tower Hotel, 2nd floor, Ballroom**

**Moderators:**  
Linda D’Antonio, Ph.D.  
Richard Kirschner, M.D.

2:15 p.m.  
**Ear, Nose and Throat Findings**  
Ian Jacobs, M.D.  
Philadelphia, Pennsylvania, U.S.A.

2:30 p.m.  
**The 22q11 Deletion Syndrome—**  
A Multidisciplinary Project in Sweden:  
Audiological Aspects  
Jönsson, Öskarsdóttir, Hanner  
Göteborg, Sweden

2:40 p.m.  
**Tracheal Agenesis in the 22q11.2 Deletion**  
Mable, McDonald-McGinn, Russell, Zackai  
Philadelphia, Pennsylvania, U.S.A.

2:50 p.m.  
**Questions and Answers**

3 p.m.  
**Communication Issues**  
Nancy Scherer, Ph.D.  
Johnson City, Tennessee, U.S.A.  
Linda D’Antonio, Ph.D.  
Loma Linda, California, U.S.A.  
Cynthia Solot, M.A., CCL-S  
Philadelphia, Pennsylvania, U.S.A.

3:40 p.m.  
**22q11 Deletion Syndrome—**  
A Multidisciplinary Project in Sweden:  
Speech and Language Aspects  
Persson, Öskarsdóttir  
Göteborg, Sweden

3:50 p.m.  
**Questions and Answers**
4 p.m.  Break  Penn Tower Hotel, 2nd floor, Assembly Room

Moderators:  Paula Goldenberg
Kimberly Grace, M.S.

4:20 p.m.  Exceptional Parents
Joseph M. Valenzano Jr.
Oradel, New Jersey, U.S.A.

4:45 p.m.  International Parents Panel
Paula Goldenberg, U.S.A.
Julie Squain, U.K.
Dominique Pfeiffer, France
Alex Bakalinsky, Ukraine
Josie Snyder, Canada

5:30 p.m.  Faces of Sunshine

5:45 p.m.  Adjourn

6 p.m.  Red, White and Blues: A Star Spangled Celebration
at the Leonard and Madlyn Abramson Pediatric Research Center

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Red, White and Blues:
A Star Spangled Celebration

From many countries near and far
From all across the nation
We gathered here for thought and cheer
And now a celebration

Philly food and spirits now
Mummers and face painting
Dancing while the night is young
Until the band stops playing!
Saturday, June 24, 2000

7:00 a.m.  Continental Breakfast  CHOP, Main Building, 1st floor, Stokes Rotunda

8:00 a.m.  General Conference Session I  Penn Tower Hotel, 2nd floor, Ballroom

Moderators:  Ann Swillen, M.S.
Eva Chow, M.D.

8 a.m.  Neurological Manifestations of Patients with 22q11 Deletions
David Lynch, M.D., Ph.D.
Philadelphia, Pennsylvania, U.S.A.

8:15 a.m.  Functional MRI Results
Stephan Eliez, M.D., Ph.D.
Stanford, California, U.S.A.

8:30 a.m.  Structural and Functional Neuroanatomy in the 22q Deletion Syndrome
Carrie Bearden, M.D.
Philadelphia, Pennsylvania, U.S.A.

8:45 a.m.  The Association Between White Matter Anomalies and Cognitive Functioning in Velocardiofacial Syndrome
Kates, Burnette, Kaufmann, Pearlson
Baltimore, Maryland, U.S.A.

8:55 a.m.  Brain Abnormalities Associated With Deletion at 22q11: Implications for Psychosis
van Amelsvoort, Daly, Critchley, Robertson, Henry,
Suckling, Owen, K. Murphy, D. Murphy
London, England

9:05 a.m.  Questions and Answers
9:15 a.m.  Aspects of Development
Ann Swilen, M.S.
Leuven, Belgium
Edward Moss, Ph.D.
Philadelphia, Pennsylvania, U.S.A.

9:45 a.m.  An Investigation of the Neuropsychological Profile in Velocardiofacial Syndrome
Henry, van Amelvoort, Morris, Owen, K. Murphy, D. Murphy
London, England

9:55 a.m.  Cognitive Development and Behavioral Manifestations in Children With Velocardiofacial Syndrome
Freier, Freeman, D'Antonio, Ermsbar, Vaz
Loma Linda, California, U.S.A.

10:05 a.m.  Questions and Answers

10:15 a.m.  Break  Penn Tower Hotel, 2nd floor, Assembly Room

Moderators:  Anne S. Bassett, M.D., FRCPC
Kieran Murphy, M.D., M.R.C. Psych

10:40 a.m.  Overview of Developmental and Educational Needs
Marsha Gerdes, Ph.D.
Michael Woodin, Ph.D.
Philadelphia, Pennsylvania, U.S.A.

11:10 a.m.  Educating the Educators
Brenda Finucane M.S., C.G.C.
Elwyn, Pennsylvania, U.S.A.

11:25 a.m.  Questions and Answers

11:35 a.m.  Psychiatric Issues
Anne S. Bassett, M.D., FRCPC
Toronto, Canada
Kieran Murphy, M.D., M.R.C. Psych
London, England
Naushad Jessani, M.D.
Philadelphia, Pennsylvania, U.S.A.
12:20 p.m.  The 22q11 Deletion Syndrome—
A Multidisciplinary Project in
Göteborg, Sweden: Some Neuropsychiatric
and Neuropsychological Aspects
Niklasson, Rasmussen, Óskarsdóttir, Gillberg
Göteborg, Sweden

12:30 p.m.  Neurobehavioral Phenotype of the 22q11.2 Deletion
Syndrome
Bearden, Woodin, Moss, Wang, Emanuel,
McDonald-McGinn, Zackai
Philadelphia, Pennsylvania, U.S.A.

12:40 p.m.  Early Signs of Psychiatric Problems in Patients with
Velocardiofacial Syndrome
Vogels, Swillen, Devriendt, Fryns
Leuven, Belgium

12:50 p.m.  Neurocognition in 22q11 Deletion Syndrome;
Adults With and Without Schizophrenia
Chow, Watson, Janiszewski, Young, Weksberg, Bassett
Toronto, Canada

1 p.m.  Questions and Answers

1:15 p.m.  Special Performance by Michelle Kelly
"Just One Day" and "In My Hands"

1:30 p.m.  Lunch  See your Ticket for Location
Concurrent Sessions

I. Basic Science Research Sessions

Moderators: Peter Scambler, M.D.
Marcia Budarf, Ph.D.

2:30 p.m. Animal Models
Antonio Baldini, M.D.
Houston, Texas, U.S.A.
Rajiv Kucherlapati, Ph.D.
Bronx, New York, U.S.A.
Roger Reeves, Ph.D.
Baltimore, Maryland, U.S.A

3:30 p.m. Questions and Answers

3:40 p.m. Mechanisms of the Deletion
Beverly S. Emanuel, Ph.D.
Philadelphia, Pennsylvania, U.S.A.
Bernice Morrow, Ph.D.
Bronx, New York, U.S.A.

4:20 p.m. Questions and Answers

4:30 p.m. Break

Moderators: Antonio Baldini, M.D.
Beverly S. Emanuel, Ph.D.

4:45 p.m. Genes in the Region
Peter Scambler, M.D.
London, England
Marcia Budarf, Ph.D.
Montreal, Quebec, Canada

5:25 p.m. Questions and Answers

Penn Tower Hotel, 2nd floor, Ballroom
Penn Tower Hotel, 2nd floor, Assembly Room
5:35 p.m.  Functional Analysis of Promoter Region of UFD11, A Gene Commonly Deleted in DiGeorge and Velocardiofacial Syndromes
Amati, Conti, Amicucci, Botta, Dallapiccola, Novelli
Rome, Italy

5:45 p.m.  Isolation and Molecular Characterization of a Gene (PAQ1/2) Deleted in DiGeorge and Velocardiofacial Syndromes
Novelli, Mittler, Amati, Berti, Conti, Bengala, Botta, Dallapiccola, Meisterenst
Rome, Italy

5:55 p.m.  ZNF74, a Gene Deleted in DiGeorge Syndrome, is Expressed in Thymus and Parathyroids, two glands which development is perturbed in patients
Ravassard, Bazinet, Mallet, Aubry
Paris, France and Montreal, Quebec

6:05 p.m.  Elucidation of the DiGeorge-like Phenotype on Chromosome 10p
Van Esch, Groenen, Frys, Thakker, van de Ven, Devriendt
Oxford, England

6:15 p.m.  The 22q Deletion Syndromes: From Diversity to a Single Gene Theory
De Decker, Lawrenson
Cape Town, South Africa

6:25 p.m.  Questions and Answers

6:30 p.m.  Adjourn
## Concurrent Sessions

### II. Psychosocial Issues

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<tr>
<th>Time</th>
<th>Session Title</th>
<th>Location</th>
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<tbody>
<tr>
<td>2:30 p.m.</td>
<td>Psychosocial Issues</td>
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<tr>
<td>A.</td>
<td>Developmental Stimulation for Your Child: Birth Through 5 Years</td>
<td>IS39 CHOP, Main Building, 1st floor, Stokes Auditorium</td>
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<tr>
<td>B.</td>
<td>Financial Planning</td>
<td>IS40 Leonard and Madlyn Abramson Pediatric Research Center, 1st floor, 123-A/B</td>
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<td>James Kalil, Ph.D.</td>
<td>Wilmington, Delaware, U.S.A.</td>
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<tr>
<td>C.</td>
<td>Supporting the Unaffected Sibling: A Workshop for Parents</td>
<td>IS41 CHOP, Richard D. Wood Pediatric Ambulatory Care Center, Wood Clubs</td>
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<td></td>
<td>Laura Bedrossian, B.S.</td>
<td>Philadelphia, Pennsylvania, U.S.A.</td>
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<td>Kimberly Grace, M.S.</td>
<td>San Diego, California, U.S.A.</td>
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<td>D.</td>
<td>Self Esteem: Support for the Older Child or Adult With the Deletion</td>
<td>IS42 Leonard and Madlyn Abramson Pediatric Research Center, 1st floor, 123-C</td>
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<td>Brenda Finucane, M.S., C.G.C.</td>
<td>Elwyn, Pennsylvania, U.S.A.</td>
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<td>3:45 p.m.</td>
<td>Educational Interventions</td>
<td>IS43 CHOP, Main Building, 1st floor, Stokes Auditorium</td>
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<td>E.</td>
<td>Edward Moss, Ph.D.</td>
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<td>Paul Wang, M.D.</td>
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<td>Michael Woodin, Ph.D.</td>
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<td>Philadelphia, Pennsylvania, U.S.A.</td>
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<td>Ann Swillen, M.S.</td>
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<td>Leuven, Belgium</td>
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F. Feeding Workshop  
CHOP, Richard D. Wood Pediatric Ambulatory Care Center, Wood Clubs  
Peggy Eicher, M.D.  
Yardley, Pennsylvania, U.S.A.

G. Sibshop: A Special Program for Siblings  
of Children With the 22q11.2 Deletion  
Leonard and Madlyn Abramson Pediatric Research Center, 1st floor, 123-C  
Child Life Specialists from The Children’s Hospital of Philadelphia  

5 p.m.

H. Communication Workshop  
CHOP, Main Building, 1st floor, Stokes Auditorium  
Cynthia Solot, M.A., C.C.C.S.  
Philadelphia, Pennsylvania, U.S.A.

I. Parental Support  
CHOP, Richard D. Wood Pediatric Ambulatory Care Center, Wood Clubs  
Laura Bedrossian, B.S.  
Philadelphia, Pennsylvania, U.S.A.  
Deborah Eunpu, M.S., C.G.C.  
Glenside, Pennsylvania, U.S.A.

J. Grandparents Need Attention Too!  
Leonard and Madlyn Abramson Pediatric Research Center, 1st floor, 123-C  
Karen Russell, M.S., C.G.C.  
Philadelphia, Pennsylvania, U.S.A.  
Karlene Coleman, R.N.  
Atlanta, Georgia, U.S.A.

K. Financial Management During Crisis  
Leonard and Madlyn Abramson Pediatric Research Center, 1st floor, 123-A/B  
Peggy Dolan  
Ambler, Pennsylvania, U.S.A.

6 p.m. Adjourn
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<tr>
<th>Time</th>
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<tr>
<td>7:00 a.m.</td>
<td>Continental Breakfast</td>
<td>CHOP, Main Building, 1st floor, Stokes Rotunda</td>
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<tr>
<td>8:00 a.m.</td>
<td>General Conference Session I</td>
<td>Penn Tower Hotel, 2nd floor, Ballroom</td>
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<td>Moderators:</td>
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<td>Koen Devriendt, M.D., Ph.D.</td>
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<td>Angelo DiGeorge, M.D.</td>
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<td>8:00 a.m.</td>
<td>Gastrointestinal and Nutritional Aspects</td>
<td>IS50</td>
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<td>David Piccoli, M.D.</td>
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<td>Philadelphia, Pennsylvania, U.S.A.</td>
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<td>8:15 a.m.</td>
<td>Urologic Manifestations</td>
<td>IS51</td>
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<td>Douglas Canning, M.D.</td>
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<td>Philadelphia, Pennsylvania, U.S.A.</td>
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<td>8:30 a.m.</td>
<td>Dental Issues</td>
<td>IS52</td>
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<td>Rosario Mayro, D.M.D., D.D.S.</td>
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<td>Philadelphia, Pennsylvania, U.S.A.</td>
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<td>8:45 a.m.</td>
<td>Associated Ophthalmologic Abnormalities</td>
<td>IS53</td>
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<td>Jane Edmonds, M.D.</td>
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<td>Philadelphia, Pennsylvania, U.S.A.</td>
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<td>8:55 a.m.</td>
<td>The 22q11 Deletion Syndrome—Ocular and Facial Characteristics</td>
<td>A27</td>
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<td>Stömländ, Öskarsdóttir, Borén, Aring, Hellström</td>
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<td>Göteborg, Sweden</td>
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<td>9:05 a.m.</td>
<td>Questions and Answers</td>
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<td>9:10 a.m.</td>
<td>Auxological Evaluation in Patients With Deletion 22q11</td>
<td>A28</td>
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<td>Digilio, Marino, Cappa, Cambiaso, Giannotti, Dallapiccola</td>
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<td>Rome, Italy</td>
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9:20 a.m.  Height and Head Circumference in 122 Patients With the 22q11.2 Deletion
Jawad, Stouffer, McDonald-McGinn, Zackai
Philadelphia, Pennsylvania, U.S.A.

9:30 a.m.  Cephalofacial Morphometrics in Children With the 22q11.2 Deletion
Minugh-Purvis, Kirschner, LaRossa,
McDonald-McGinn, Zackai
Philadelphia, Pennsylvania, U.S.A.

9:40 a.m.  Craniofacial Anthropometric Analysis in Patients With 22q11.2 Microdeletion
Philip, Guyot, Dubuc, Dutour
Marseille, France

9:50 a.m.  Questions and Answers

10 a.m.  Congenital Diaphragmatic Hernia in the 22q11.2 Deletion
Russell, McDonald-McGinn, Mahale, Howell,
Kasperski, Wilkes, Meyer-Cohen, Hustead,
Schauer, Adzick, Zackai
Philadelphia, Pennsylvania, U.S.A.

10:10 a.m.  Deletion 22q11 and Oculo-auriculo-vertebral (Goldenhar) Spectrum
D’Agliolo, Marino, Toscano, Giannotti, Dallapiccola
Rome, Italy

10:20 a.m.  Craniosynostosis in the 22q11.2 Deletion Syndrome
Gripp, McDonald-McGinn, Kirschner, Hustead,
Schauer, Bartlett, Stolle, Driscoll, Emanuel, Pasquariello,
Whitaker, Zackai
Philadelphia, Pennsylvania, U.S.A.

10:40 a.m.  Questions and Answers

10:50 a.m.  Break  Penn Tower Hotel, 2nd floor, Assembly Room
Moderators: Brenda Finucane, M.S., C.G.C.
Nicole Philip, M.D.

11:10 a.m. The DiGeorge/Velocardiofacial Syndrome Portuguese Experience
Gaspar, Nogueira, Macedo, Anjos, Lourenço, Pinto, Reis, Soares, Arroz, KaKu, Feijoó
Lisbon, Portugal

11:20 a.m. 22q11 Microdeletion and Clinico-genetic Correlation in Catch 22 Syndrome
Kil, Lee, Chung
Taejeon, Republic of Korea

11:30 a.m. Audit of 479 Referrals to a FISH Laboratory for the Detection of Deletion 22q
Robson, St. Heaps, Smith
Westmead, Australia

11:40 a.m. Questions and Answers

11:50 a.m. Prenatal Diagnosis
Deborah Driscoll, M.D.
Philadelphia, Pennsylvania, U.S.A.

12:10 p.m. Navigating the Healthcare System
Allan Bombard, Aetna U.S. Healthcare Oakland, California, U.S.A.

12:30 p.m. Pediatric Perspective on Clinical Management: A Take Home Message
Patrick S. Pasquariello Jr., M.D.
Philadelphia, Pennsylvania, U.S.A.

12:50 p.m. Professional and Parent Recognition Awards Acknowledgements
Closing Remarks
Donna M. McDonald-McGinn, M.S., C.G.C.
Elaine H. Zackai, M.D.
Philadelphia, Pennsylvania, U.S.A.

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