111 International 22q11.2 Foundation **Newsletter June 2023**



22q at the Zoo – Thank You!

Philadelphia, PA, USA

The International 22q11.2 Foundation would like to thank every one of our 22q at the Zoo collaborators including 22q organizations, healthcare providers, basic scientists, industry partners, and especially families for your selfless service to our 22q community – with a total of 22 international locations and 50 US sites participating in 22q at the Zoo Worldwide Awareness Day in 2023!

As you have witnessed over the past few weeks, a social function intended as a friend raiser can have an enormous global positive impact. We know, based on previous feedback, that 22q at the Zoo can help carry families through struggles emerging between events. This includes our local Z00 Philadelphia-area participants, those coming together at events large and small on the 3rd Sunday in May or any other day around the world, as well as those who cannot attend in person but witness the magic virtually as Facebook posts begin to emerge from New Zealand and Australia and they no longer feel alone.

It certainly takes a village to coordinate one of these events, let alone 13 including during a pandemic, but it is with the amazing support of our International 22g11.2 Foundation volunteers, led by Carol Cavana, Debbie DeLoach, Lauren Lairson, and Donna McDonald-McGinn. well as as our extraordinarily hard working and committed global volunteers, that another incredible moment happened for the international 22q community. So, thank you again from the bottom of our collective hearts.

We hope to see even more of you gathering next year for our 14th Annual 22q at the Zoo Worldwide Awareness Day to be held on **May 19, 2024** - because there is no question that 22q at the Zoo Changes You!



Copenhagen, Denmark



Photos from May 21, 2023

Our annual 22q at the Zoo event aims to raise awareness about chromosome 22q11.2 differences while providing families, friends, and professionals a chance to socialize.

Here are some photos from our 2023 event.









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Some of the 22q at the Zoo Locations 2023

Argentina

• Tigre

Australia

- Gold Coast
- · Ipswich
- Melbourne
- Perth
- Sydney

Belgium

Mechlen

Canada

Toronto

Denmark

Copenhagen

England

• Birmingham

Ireland

Dublin

Italy

Florence

Japan (Virtual)

Netherlands

• Emmen

New Zealand

Hamilton

Northern Ireland

Newtownards

Poland

Warsaw

Serbia

Subotica

Spain

• (multiple locations)



United States

- Montgomery, AL
- Phoenix, AZ
- Fresno, CA
- Oakland, CA
- Orange, CA
- Sacramento, CA
- Denver, CO
- Bridgeport, CT
- Boca Raton, FL
- Melbourne, FL
- Tampa, FL
- Atlanta, GA
- Boise, ID
- Baton Rouge, LA
- Shreveport, LA
- Grand Rapids, MI
- St. Paul, MN
- Kansas City, MO
- St. Louis, MO
- Asheboro, NC
- Lincoln, NE
- West Orange, NJ
- Bronx, NY

- Niagara Falls, NY
- Syracuse, NY
- Cincinnati, OH
- Cleveland, OH
- Portland, OR
- Columbus, OH
- Halifax, PA
- Philadelphia, PA
- Pittsburgh, PA
- · Columbia, SC
- Sioux Falls, SD
- Abilene, TX
- Austin, TX
- Beaumont, TX
- Dallas / Fort Worth, TX
- Houston, TX
- North Centra, TX
- Rio Grande Valley, TX
- San Antonio, TX
- Tyler, TX
- Salt Lake City, UT
- Richmond, VA
- Seattle, WA
- Northern WV

If there were no 22q at the Zoo events in your area this year, **you can host one in 2024**! This extraordinary event grows every year because of dedicated volunteers like you.

To ensure maximum success and awareness, the International 22q11.2 Foundation has developed guidelines for 22q at the Zoo Worldwide Awareness Day. Please visit the <u>Host a 22q at the Zoo</u> <u>Event</u> section on our website for more information. We even have an event planner letter ready for you! No zoo? No problem. Consider gathering at a park, a farm, or even an aquarium.

If you have any further questions or concerns, please contact us at <u>info@22q.orq</u>. We are here to help you every step of the way. On behalf of The International 22q11.2 Foundation, Inc. we thank you for joining us as we expand awareness of the 22q11.2 differences.

See you at the zoo on May 19, 2024!

Recommended Check Ups for Individuals with 22q11.2 Deletion Syndrome

Individuals with 22q11.2DS often need to deal with multiple medical problems. From time to time, it is important to have health checks, as these may reveal conditions that need attention. Earlier this year, international 22q11.2DS experts published updated clinical recommendations for managing children and adults with the syndrome. Each of these documents contains a useful table that lists the recommended periodic assessments. We have now made these two tables into checklists in the format of a fillable savable pdf. Whenever you or your loved one completes an assessment, just put a check mark directly on the checklist on your computer.

To use these check lists on your computer:

 DOWNLOAD these files onto your hard drive or your cloud first before entering check marks digitally, or else your check marks will not be saved.

Children/Youth

<u>Adult</u>

- Open these files from your system viewer (i.e. Finder on Macs or File Explorer on Windows), not a web browser
- 3. These files are fillable and savable PDFs, so you can type directly into the forms and save your responses.

If you are still unable to enter check marks or save your responses, please consider <u>updating your Adobe</u> <u>Reader</u>. Alternatively, you can print the forms and fill them out on paper.

Here are the links to the clinical recommendations:

- <u>Updated clinical practice recommendations for</u> managing <u>children</u> with 22q11.2 deletion syndrome
- <u>Updated clinical practice recommendations for</u> managing adults with 22q11.2 deletion syndrome

This information is brought to you by the Foundation for educational purposes only. It is <u>not</u> intended to be taken as medical advice. If you have any concerns, please talk to your healthcare provider.

| The boxes indicate items recommended by 22q experts. Please put a CHECK II in the box w | | | | | | | | |
|--|-----------------|---------------------|------|------|-------|--------|---|--|
| Assessments and Management | At Diagnosis | Annual/ Biennial | 0-1y | 1-5y | 6-12y | 13-18y | Table 1 provides recommendations for | |
| Genetic | | | | | | | periodic assessment and manageme children and adolescents with 22o11 | |
| Genetic testing (proband: MLPA or microarray; FSH if only available method) (parents: MLPA or FSH) ⁸ Genetic courseling (etiology, natural history, recurrence risk, prenasil | | | | | | | deletion synchrome at diagnosis, annuallybiannually, and by age. | |
| preconception screening/dagnostics) Remaining allele/exome sequencing (when appropriate) ^b | Н | | | | | | 400, attention deficit disorder | |
| General | | | | | | | ADHD, attention defeit hyperactivity | |
| Consultation with clinician(s) experienced with 22q11.2D5 [©] | | | | 11 | | | deorder 450, auton spectrum disorders | |
| Comprehensive history-taking (including family history) | Ы | H | H | Н | E . | Н | CHD, congenital heart cisease BKG, electrocercitogram | |
| Physical examination Nutritional assessment, feeding, swallowing, GERD, constipation, and growth | Н | Н | Н | Н | Н | Н | F.DH, fuorescence in situ hybridization GERD, gastroesophageal refux class | |
| Neurologic and developmental assessment (neurologic exam, milestones, sacral dimple, neuroimaging as needed) | | | | | | | GH, growth homone GUCH, grown-up congenital heart da MURA, multiplex/ligation_dependent p | |
| Assessment of history of infections, allergy, asthma, autoimmunity, and malignancy | | | | | | | emplication PTH, parethyroid homone | |
| Assessment of access to specialized health care and community, developmental, and government resources | | | | | | | SLP, speech language pathologiat SMCP, submucosal deft palate TSH, thyroid stimulating, hormone | |
| Other clinical assessments | | | | | | | VPD, velopheryngeel dysfunction | |
| Cardiac evaluation (using echocardiogram and EKG; determine arch sidedness) | | | | | | | Proband and parents; strategy depending on test availability. | |
| Long term follow-up for all with CHD; transition to GUCH if CHD Periodic screening for arrythmias/EKG abnormalities and | | | | | | | b – When rere recessive condition essociated with 22p11.2 region is | |
| dilated aortic root" Periodic EKG screening in at-risk patients (antiepileptic/ | | | | | | Ц | suspected or atypical phenotypic features observed. c - Having seen many peciatric patient | |
| neuropsychiatric treatment, hypocalcemia, thyroid disease) • Referval so cleft-palate seam to assess for overt cleft, SMCP, | | | | | | | with 22q11.206 both in consultati and in follow-up. | |
| and VPD (nasoendoscopy/video®uoroscopy as needed)® • Evaluation of speech and language by speech-language | | | | | | | d – Applies to children with and childre without known CHD. e – Consider velophanyngsal port imag | |
| pathologist Evaluation by osolaryngologist for recurrent otics media and possible laryngo-tracheo-esophageal anomalies | | | | | | | (e.g., nasopharyngoscopy or spee videofluoroscopy) with deft team (t and surgeon) when adequate spe | |
| Evaluation of hearing using audiogram +/- tympanometry | | | | | | | output and articulation skills are pr to allow for valid diagnostic imaging (- Should include assessment of spee | |
| Ophthalmic evaluation/vision (refractive errors, strabismus, exotropia, sclereocornea, coloboma, ptosis) | | | | | _ | _ | (e.g., articulation, resonance, voice researchie and expressive language | |
| Dental evaluation (measure saliva secretion rate from 6 y) ⁸ Endocrinological assessment (PTH, calcium, magnetium, | | _ | | | Н | | end social pregmatics skills. g - Dental assessment not relevant by age 2 years. | |
| creatinine, TSH, and free T4: GH studies as needed) Consider clinical (multidisciplinary) feeding and/or swallowing | | | | | | | h - Consider videofluoroscopia swelow study or Roercopia endoscopia | |
| evaluation including assessment of airway ^h • Renal and bladder ultrasound | | | | | | | evaluation of swallowing if any sign symptoms of aspiration. | |
| Immunologic assessment: T- and B cell phenotyping¹ Immunologic assessment: IgG, IgA, IgH, IgE levels (not before 6 months) | | | R | | | R | I – T cell phenotyping; CD3, CD4, CD4 counts (~ CD4/CD45R4), 8 cell co (CD19) and subthed memory 8 ce (CD19 or CD20~, CD27-Iel/H). | |
| Immunologic assessment: vaccine responses | _ | _ | | | _ | _ | j - Include antibodies against tetanus, diphtheria, and pneumococci. | |
| Complete blood count and differential Routine scollosis screening with scollometer and with x-ray | | | | | Н | Н | Especially important before VPD surgery to exclude instability; can be | |
| when clinically indicated Radiography of the cervical spine at age ~4 y to exclude instability | | | | | | | performed from age 4 years when sufficient bony ossilication has occurred. | |
| Sleep evaluation (consider polysomnography pre and post VPD repair), sleep hygiene recommendations | | | | | | | I - Increased risk for obstructive sleep apnea after VPD surgery. | |
| Cognitive development, academic functioning, and child psychiatry | | | | | | | Source: Updated pincel precipe recommendation | |
| Assessment of cognitive/learning capacities including language domains with standardized measures | | | | | | | for managing phildren with 22g11.2 di synchrome | |
| Assessment of adaptive functioning (e.g. daily living skills) Psychiatric assessment (ASD, ADHD/ADD, anxiety, and psychotic disorders) | | | | | | | Oskansöttir et al. Genet Ned. 25(3): 100338, 2023 | |

↑ Checklist for Children and Youth

↓ Checklist for Adults

| The boxes indicate items recommended by 22q experts. Please put a CHECK II in the box when complete | | | | | | | |
|--|---|--|--|--|--|--|--|
| Assessments and Management | At Diagnosis or Initial Assessment | At Follow-up (Every 1-2 years | | | | | |
| Genetic | | | | | | | |
| Parental genetic testing (FISH, MLPA, or microarray) ^a | | | | | | | |
| Genetic counseling (including recurrence risk, update on natural history, management) | | | | | | | |
| Family planning, reproductive and prenatal counseling | | | | | | | |
| Additional genetic testing ^b | If applicable | | | | | | |
| General | | | | | | | |
| Consultation with clinician(s) experienced with 22q11.2DS ^C | | | | | | | |
| Comprehensive history-taking (including family history), systems review, and medication review | | | | | | | |
| Assessment of need for/coordination with specialist(s) providing care | | | | | | | |
| Nutritional assessment; diet and exercise counseling | | | | | | | |
| Sleep evaluation (consider polysomnography), sleep hygiene recommendations | | | | | | | |
| Vaccination counseling, other standard preventive health care measures | | | | | | | |
| Assessment of functioning (including hygiene), care/supports (family/community/government), safety issues (e.g. financial, interne | t) 🗌 | | | | | | |
| Physical examination and additional diagnostic tests | | | | | | | |
| BMI, restingheart rate, blood pressure | | | | | | | |
| 22q11.2DS-relevant laboratory tests ^d | | | | | | | |
| Echocardiogram | | | | | | | |
| Abdominal ultrasound | | | | | | | |
| Routine care/hearing, vision, dental assessment ^e | | | | | | | |
| Targeted clinical assessments ^f | | | | | | | |
| CNS—psychiatric, neurologic, neurocognitive assessments (includin for anxiety, psychosis, seizures, movement disorders, formal testing of cognitive and adaptive functioning/ADL) | | | | | | | |
| Congenital cardiac (ACHD) and cardiovascular risk assessment | | | | | | | |
| Endocrinology | | | | | | | |
| Genitourinary, obstetrics/gynecology assessment (including contraception, pregnancy risks, and safe sex counseling) | | | | | | | |
| Hematology, gastroenterology, orthopedic/rheumatology, respirology, immunology, otolaryngology, ophthalmology, dermatology | | | | | | | |
| enjosa precisjoji teksos na standi. Najosa pres name da južijanti u inič 2010. godin konsulation and (dovou) žipositeli. Bila pres presenta da južijanti u inič 2010. godin konsulation and (dovou) žipositeli. Bila preselje uprese da namostani se prestrujo harono, escolaje, and kar Unicho tekso preselje uprese namostani se prestrujo če na doku je preselje na da standarska resolucitar je preselje upreselje na objekto preselje na dovou preselje na da standarska resolucitar je preselje preselje na objekto preselje na doku je preselje na doku je preselje na doku je preselje na resolucitar objekto preselje na objekto preselje preselje na doku je preselje na doku je preselje na doku je preselje na resolucitar objekto preselje na objekto preselje preselje na doku je preselje preselje na doku je preselje na doku je preselje na doku je preselje na doku je preselje presel | Incluses Prot presously performed as an etch on many methemation of 22(11)202, including entric montaleton, gettes behaviolations: 22(11)202, 22(11)2046/straffic entries, 42(06), auX congression 22(11)202, 22(11)2046/straffic entries, 42(06), auX congression 42(11)2046/straffic entries of the analytication. Sources: Located entries: another recommendations for manual Disolated entries: another recommendations for manual | nes, faity liver, and nephocekinosis. heart doesse; ADL, soluties of daily king; nervous system; FIGH, fluorescence in situ hybric | | | | | |

Sharing 22q Resources Using QR Codes



22q11.2 **Deletion and Duplication Syndromes Health Conditions Explained**



 Dental Series Palate Series Mental Health Series 22g Glossary (First Edition)

220 Internati 22gll.2 F



Toronto, ON, Canada

Multiple resources are available for families affected by 22q differences and the medical professionals who take care of them. Let's use technology to get the right resources to the people who need them!

At 22q at the Zoo in Toronto this year, we shared multiple important documents using QR codes (see the images on the left and on top). A QR code is an image that stores information – in our case, the information stored in each QR code is the website address of a 22q resource.

Zoo day participants in Toronto simply scanned the code using their smart phones and accessed the webpages directly. With this easy-to-use method, we shared:

- 3 sets of updated clinical recommendations for 22q11.2 deletion syndrome
- 4 research articles for 22q11.2 duplication syndrome
- The Health Conditions Explained section from the website of our Foundation

Feel free to enlarge this newsletter on your screen, focus on one of the QR codes on the left, and use a second phone to scan it. You'll reach the resource!

For your next event, you can make your own QR codes for 22q-related resources using a free online code generator. Or email info@22q.org if you would like to get them from us.

TIP: Share the clinical recommendation documents with healthcare providers who are less familiar with 22q11.2 deletion or duplication syndrome.

Mental Health Series

Information sheets now available on our website

https://22q.org/symptoms-care/health-conditions-explained/

Medical terms can be overwhelming, especially for families who are affected by multiple health conditions. To help our patients and families navigate through their medical journeys, we started a section called "Health Conditions Explained" on our website. The information sheets are generated by individuals who are highly involved in 22q-related education and communication, and the content is carefully reviewed by 22q experts.

The topics published previously are:

HEART SERIES

- The Heart and Normal Blood Flow
- Ventricular Septal Defect (VSD)
- Tetralogy of Fallot (ToF)
- Truncus Arteriosus (TA)
- Interrupted Aortic Arch (IAA)

DENTAL SERIES

- Let's Talk 22q Teeth Info for Families
- Dental Health in Children with 22q Info for Dentists

PALATE SERIES

- The Velopharynx
- Cleft Palate & Submucous Cleft Palate
- Velopharyngeal Dysfunction: Introduction and Causes
- Velopharyngeal Dysfunction: Diagnosis
- Velopharyngeal Dysfunction: Surgery
- Velopharyngeal Dysfunction: Speech Issues

22q GLOSSARY

First Edition (87 entries)

We will add more contents on various topics as they become available.

Mental health is often an area of significant concern for parents of children and adults with 22q11.2 deletion and duplication syndromes. Psychiatric conditions are **treatable** illnesses, and individuals can recover. Parents can play an active role in decreasing the impact of their children's mental health conditions.

The latest addition to our "Health Conditions Explained" series focusses on mental health. The 8 information sheets and the Q&A provide background information about specific conditions and some tips on possible management. Each person is different – Please consult your healthcare provider about the best approach to assessment and management for you or your loved one with 22q11.2DS or 22q11.2DupS.

| | | Set Realistic Goals | Finding a Care Provider |
|--|---|--|--|
| Mertal health is often an area of significant concern for parents 22q11.2 deletion and dupication syndromes. Psychiatric (ilmesse, and individuals can recover. Parents can play an a impact of their children's mental health conditions. | conditions are treatable | Some individuals may have goals that are unrealistic and far beyond their capabilities. They may not understand or accept that they have mental health or cognitive issues. Some may be unwilling to admit that | The counsellar, psychologist, family doctor, or psychiatrist should be informed about 22q112DS or 22q112Dup5. Mental health issues in the affected individual need to be |
| Help Reduce the Risks | Regular Assessments | they need help. | assessed and treated in the context of. |
| 1. Help the children maintain a healthy lifestyle | Children with chromosome | Possible strategies found helpful include: • Discuss dreams vs. realistic (achievable) goals | Language abilities |
| Eat a balanced diet | 22g11.2 differences tend to | Redirect the young person to other areas of interest | Thinking and learning abilities |
| Do lots of physical activities | have multiple medical issues. For the sake of | Redirect the young person to other areas or interest Establish a routine that provides structured, fulfilling | Overall functioning Physical health conditions |
| Establish good sleep habits | early detection and | Establish a routine trial provides structured, running tasks with appropriate supervision | Prtysical realth conditions Family doctors and psychiatrists can |
| 2. Helpiremind the young person to avoid alcohol and drugs | treatment, it is important | · Review neurocognitive test results and | prescribe medications. Psychologists |
| The use of maniuana increases the risk of developing mood | not to overlook mental health | recommendations to help understand the developmental age | perform neurocognitive / psychoeducational assessments. |
| disorders and a psychotic disorder (e.g. schizophrenia). | input from parents/ | developmental age | As for all healthcare, consider whether |
| 3. Find sources of excess stress and actively reduce them | caregivers is often crucial | Talk to Your Child about | your health insurance covers the type of |
| When a person's capacity does not match what the | to help healthcare providers make a | Possible Mental Health Issues | care to be provided See Mental Health Providers – Tips on |
| environment requires, this can lead to stress. For | diagnosis - for example, to | When to talk | Finding One from Mayo Clinic, AZ, USA |
| example, if the child can handle a social situation for just | be able to determine if the symptoms are part of a | Use the child's developmental age (not | and the second s |
| one hour but not more, consider arriving late or leaving early from a visit. | physical health condition | chronological age) and emotional maturity as a | References/Resources |
| Be vigilant about the presence of external stressors such | such as a thyroid problem or are a part of a treatable | guide | + Lipbaled circuit practice recommendations, for |
| as bulying. | mental health condition. | Talk about mental health as part of other natural conversations about health | metaging children with 22c11.2 deletion syndrome - 2023 |
| | | How to talk | · Updated circal practice recommendations for |
| Detect and Manage Problems Early | | | managing white with 22g11.2 deletion synchrone 2023 |
| 1. Identify problems early | | Be informed about 22q11.2DS or 22q11.2DupS Be proactive | Coontine Development And Mental Health - 14 |
| · Treating problems early helps achieve the best possible outco | ome. | Be open | videos from 22q11 Europe - 2022 • Parenti, perspectives, as personnes, and need for support when commanicating, with their childher |
| Parents and caregivers are in the best position to recognize v | then changes occur and can | Draw parallels between mental health and other | |
| help bring them to the attention of the healthcare provider. | | features of 22q11 2DS or 22q11 2DupS | stod the psychiatry manifestations of 22g112 deletion syndrome (22g1102) - 2021 |
| 2. Record changes and inform healthcare providers | | Use suitable and positive words that the child | Practical cusclement for managero adult, with |
| Worsening of emotional or temper outbursts may be a sign of psychotic illnesses. | untreated anxiety or | can understand | 22u11.2 deletion syndrome - 2015 |
| Changes in emotions, thinking, behavior, and functioning may | he early sime of mental | Consider asking your healthcare provider for advice | Montal Health Providens – Task on Finding One – Mayo Clinic, AZ, USA |
| changes in enotions, binking, behavior, and rancioning may health issues. | be carry ages or mental | | |

MENTAL HEALTH SERIES

- Mental Health and 22q11.2 Deletion Syndrome
- Mental Health and 22q11.2 Duplication Syndrome
- What Parents Can Do for Their Children
- Attention Deficit Hyperactive Disorder
- Autism Spectrum Disorder
- Anxiety Disorders
- Psychotic Disorders [Including schizophrenia]
- Mood Disorders
- Mental Health Q&A (Spring 2023)

Congratulations to Our Graduates!

Children and youth with 22q11.2 differences often face multiple challenges – speech and language delays, intellectual disabilities, and learning disabilities. In addition, they often need to take time off school to deal with their medical problems. To be able to graduate is a significant accomplishment!

Graduates - We admire your perseverance. Congratulations on your success!

Parents, caregivers, teachers, therapists, and everyone who have been part of the journey – For the care and encouragement, we salute you!

Here are some of the 2023 graduates from our 22q community.



Congratulations Saralyn!

Celebrating Saralyn for her school graduation! We wanted to share encouraging words from Saralyn's mom... for our 22q families...

"From the time I got pregnant with Saralyn, doctors didn't give her much of chance of even surviving to birth. After birth, it still seemed to be one challenge after another and we were told she would never walk, run, talk, or learn. The brick and mortar school in our area basically suggested life skills-only classes. But we are so happy to share June 5th, Saralyn graduated kindergarten and though she receives special education class work, she has excelled and surprised everyone with the potential she holds inside!!! A church friend created a slideshow for her to commemorate all her life and all her important milestones of graduating kindergarten."

So proud of you, Saralyn—keep up the great work! Saralyn is featured in the International 22q Faces of Sunshine calendar for the month of September.

CLASS OF 2023



CONGRATULATIONS TO OUR GRADUATE ADAM / #22qawareness | @22qFoundation |22q.org

Congratulations Adam!

Meet 11-year-old Adam, born with 22q11.2 Deletion syndrome. Adam is graduating from Grade 6 and moving on to middle school in September. Adam is nervous and will miss his teacher, who he has been lucky to have for the past 4 years. School has been very challenging for Adam, but we try our best to keep it positive. We are from Kitchener, Ontario, Canada.

CLASS OF 2023



Congratulations Maren!

Maren is graduating from Access Academy in Little Rock, Arkansas. She was diagnosed with 22q11.2 deletion syndrome at 15 months. Maren loves horses, books, and tik tok. She plans to volunteer in her community, take art classes, and seek employment after graduation. We are so grateful for the support of Maren's teachers, therapists, and her healthcare team. We love you, Maren, and we are proud of you!

CLASS OF 2023



#22qawareness | @22qFoundation |22q.org

Congratulations Elijah!

Elijah is graduating from Central East High School in Fresno, California! Elijah was diagnosed with 22q11.2 Duplication Syndrome at age 11, after years of visiting countless specialists and therapists. While it helped to have a diagnosis, we know there is much advocacy and research to be done to help this population! We are so proud of Elijah and all that he has overcome to finish high school on time. After graduation, he will be participating in a day program to help with his executive functioning and independent living skills. His future is bright!

CLASS OF 2023



CONGRATULATIONS TO OUR GRADUATE MADELEINEI #22qawareness | @22qFoundation |22q.org

Congratulations Madeleine!

My name is Madeleine Dawley and I have 22q. After years of hard work, I finally reached my goal of receiving my Associate of Arts degree.

I was diagnosed with 22q when I was very young. Through velo-pharyngeal surgery, dental rehab surgery, 2 spinal surgeries and many other complications I was able to still focus on my education. I am very proud to say that I am a part of the college graduating class of 2023. Although I couldn't have done it alone. I wanted to give a very special thank you to my mom and dad, for everything they have done for me. Without them me graduating and enjoying my best life wouldn't have been possible. I also wanted to shout out my grandparents for celebrating every accomplishment with me and my parents and for supporting me through everything. Lastly, I wanted to thank everyone else for their support and love through everything. Anything is possible.

CLASS OF 2023



CONGRATULATIONS TO OUR GRADUATE JACKSONI #22qawareness | @22qFoundation |22q.org

Congratulations Jackson!

My name is Jackson Cabrera, I am 23 years old, I was born with 22q11.2 deletion syndrome and I have undergone 8 heart surgeries because of being born with Tetralogy of Fallot. I just graduated from Palomar College with an AA degree in Cinema Studies. I will be transferring to JP Catholic University in the fall to achieve my BFA in the Game Development Program with an emphasis in Game Development and Design.

CLASS OF 2023



Congratulations Kathryn!

My name is Kathryn Gainor and I have 22q. I finally got to walk the stage for graduation on May 20, 2023! I was a student from 2010 to 2014. I dropped out in 2014 to take care of my health. I worked for 6 and a half years. I did work full time for 4 of those years.

I decided to go back to college in 2019. I found out McDaniel College was dropping my major and I really wanted to finish it. At one point, I was working part time and going to school part time. During covid I was able to take more classes virtually, so it worked for me!

In December 2021, I was 2 weeks away from finishing my senior seminar. That was when I got diagnosed with triple negative breast cancer, one of the most aggressive breast cancers. I had to start chemo within weeks, so I had to defer that semester. In March of 2022, I finally graduated after passing my senior seminar. I was going to walk in May of 2022, but was too sick on chemo. It was literally my last week of chemo, and I could barely stand for long periods of time. Instead, I got my diploma and hung it up.

Fast forward, I finally beat cancer and finished treatment in October. I decided this is the year that I will walk, and so I finally walked and rang the bell out of college which is McDaniel's tradition. It is tradition to ring the bell in and ring it out.

So yes, I am very proud! I hope that my story inspires others to never give up! I will always love learning! I also learned that health is most important and if you take care of yourself, you can succeed in anything! I am so proud to officially have a Bachelor of Arts in religious studies from McDaniel College!

22q and me – Finnegan's Story

Finnegan ("Finn") was born in December of 2015 at UPMC Mercy Hospital of Pittsburgh, Pennsylvania. He is enjoying school, his friends, and annoying his older sister. He is turning 7 this December!

Finn's 22q11.2 deletion was diagnosed when he was 1 month old. His parents knew from an anatomical ultrasound during pregnancy that he would be born with bilateral club feet, but otherwise had a normal, full-term pregnancy. He was delivered via scheduled C-Section and happily got to go back to the hospital room with Mom and Dad. The neonatologist came into the hospital room to examine Finn more closely and noticed a few midline defects (bifid uvula, submucosal cleft palate) in addition to the club feet and wanted him to be monitored more closely, so he went to the NICU at UPMC Mercy. That night, he had an apnec episode, so the next day he was transferred to UPMC Children's Hospital of Pittsburgh to undergo many tests and needed to get over several more hurdles before he could go home more than three weeks later. Finnegan's first Christmas and New Year were spent in the NICU.

One of the many tests and examinations that Finn underwent right after birth was a genetic panel. About 30 days later, Finn's doctors were able to explain all of Finn's irregularities as actually being related to his genetic diagnosis of DiGeorge Syndrome or 22q11.2 deletion. Shortly thereafter, Finn's schedule became filled with more tests and doctors' appointments to monitor his syndrome, and to understand which body systems had been affected: Cardiology, Nephrology, Endocrinology, Immunology, ENT. Orthopedics, Pediatric Surgery, Ophthalmology, Cleft-Craniofacial Team and Genetics.

At 10 months old, Finn suffered his first apnec seizure – the first of countless others in a 4month period. Regular hospital stays and Neurology appointments entered Finn's life until the doctors were able to control his seizures



with medication. Finn had difficulty swallowing and could not nurse at birth, so a G-Tube was placed for nutrition. While Finn no longer uses the tube for feedings, it has become quite handy for administering medications.

This December, Finn will be undergoing palate surgery to help with speech. His family cannot wait to hear all the stories Finn has to tell them when he has words. Until then, he will continue to use the sounds and gestures that he must get his point across.

Finn is a happy and very silly first grader. He spends about 85% of his day in the classroom with his schoolmates. The rest of the day Finn spends with school interventionists and therapists (Occupational, Physical, and Speech). Finn is learning how to read, sign, and use his talker at school.

Finn has participated in several activities such as swimming lessons, gymnastics, and some martial arts. This Fall was Finn's first soccer season! He loves to play with his vehicles (mostly trucks and buses), ride his bike, jump on the trampoline, swim, and play video games (he is very competitive!).

Finn's family is so proud of everything that he has accomplished so far and cannot wait to see what is next for him. Finn wants to grow up to be a firefighter and school bus driver.

For more inspirational stories, please visit: https://22q.org/inspirational-stories/

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