

What Does the Future Hold for Autism Families?

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CLARADONPROPERTIES, LLC

First, a little bit about...







SFAutismSociety.org

RESOURCES

Nonprofit Guide

tism. Here are just a few dozen of them



Alto, www.abilitiesunited.org

Provides a variety of programs for kids and adults with disabilities, including aquatic

learning, occupational training, and adult day programs.



Provides programs for kids and teens with special needs to have fun, make friends, and participate in an array of activities including sports, swimming, and arts and crafts.



Anova is a non-profit organization serving children with autism and related social, emotional, and behavioral challenges. In addition to three K-12 campuses in Santa Rosa, San Rafael, and Concord, CA. Anova provides innovative paraprofessional support throughout 15 counties across California.



Autism Fun Bay Area and Azure Concerts, San Francisco

Sponsors free professional musical performances, from classical to jazz, tallored to people on the autism spectrum or have similar challenges, and their families and caregivers. The website also lists a calendar of Bay Area autism-friendly events.

SPAUTISM SOCIETY Autism Society San

Francisco Bay Area, Bay Area-wide, www.sfautismsociety.org

An all-volunteer, grass-roots organization of parents family members, friends and professionals working for the well-being of local autism families, with an emphasis on expanding the limited lifespan care options for the dramatically increasing numbers of adults with autism.



Bay Area Autism Consortium,

A collaboration among researchers from the area's leading research and clinical centers--University of California-San Francisco, Stanford University, Kaiser Permanente Division of Research, the California Department of Public Health, SRI International, Children's Hospital Oakland Research Institute, and the Children's Health

CALENDAR





BLOG



Yes, that's a large handsome man in the women's room



Immersed: An unflinching view of severe autism



For adults with autism, the many layers of "community"



April 15 Dance-a-thon





 Grooooovy multibeneficiary fundraiser

Coming up

March-May Webinar Series



- Employment
- · Police encounters
- · ECT
- · ASD Research
- · Sexuality, hygiene
- Social opportunities

March 23 Cannabis Klatch Sold out



December 2 2017 Conference



- · At Stanford University
- Registration in September



Conference Archives



2014: A Place for Us: Supported Housing Solutions for Adults with Autism/DD



2015: Let a Thousand Flowers Bloom: The Bay Area Adult Autism/DD Programs & Housing Summit



2016: Into the Future: An Adult Autism/DD Planning Workshop

Now, onto...

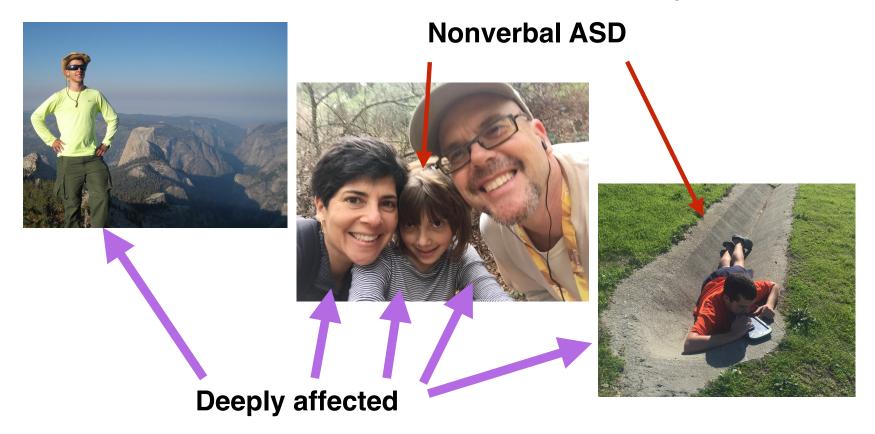
What does the future hold for autism families?



"Hmmm...
I see autism in your family."

"Autism is a whole family condition."

—Jim Ball, ASA



And ... extended family, employers, taxpayers, school districts, social welfare systems, justice system, health care system, friends, and on and on....



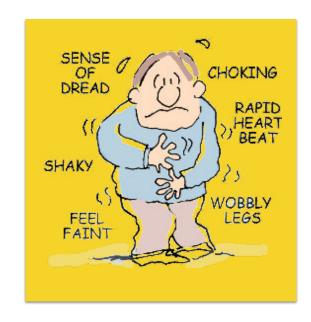
Prediction One:



A growing panic...

A Growing Panic: Why?

- 1. California's autism **population is exploding.**
- 2. Children with autism become **adults with autism**. Autism is a remarkably treatment-resistant condition.
- 3. Autism **parents are aging** and often bear **crushing responsibility.**
- 4. Adult care can be staggeringly **expensive and complicated.**
- 5. Limited **public resources**; restrictive eligibility criteria.
- 6. **Outdated policy** headed in wrong direction.





Prediction Two:



Bye-bye autism Kool-Aid



"It's just better ascertainment."

"It's just diagnostic shift."

"Even Einstein was autistic."



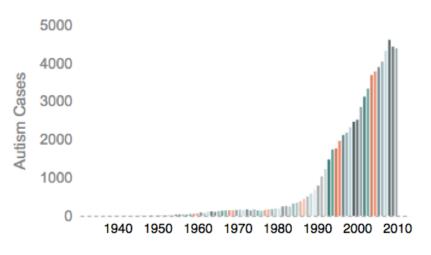
"Autism's always been around, just hidden under other labels."

"Autism is a gift, handed down through the generations from our ancestors."

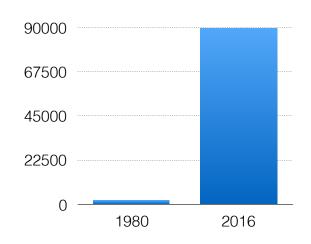


Calif DDS Autism Soon = 100,000





DDS Autism Cases: 1980 v 2016



- Early 1980s: 2,000± DDS autism cases. Today **91,000**.
- Within 20 years California DDS adult autism will quadruple

The increase is real, the social services implications are dire.

We are facing a national emergency.



Prediction Three:



Shaking up tired old policy

Beastly, Outdated, Smokin' Weed Policy

1. Federal Government's **Quiet War Against Adults with Autism** (Medicaid restrictions).



2. **Questionable priorities** (prisons, walls, trips to Mars); while ignoring autism tsunami, essential human services.



- 3. No federal or state housing plan.
- 4. State focus on spending for less than .5% of DD population; **little long-term planning** for 95.5%.

What to do...?





With this <u>unprecedented</u> crisis and must bring federal and state policy into the 21st century of autism.



One priority...



Prediction Four:



Tons of "institutions" (no not like that)

We must strengthen autism-serving "institutions"





State "Institution" (big "I")

v. Community "institutions" (small "i")

- **-How?** Tax reforms and incentives
- —Smarter funding streams
- —Empower parents to create housing / programs



Prediction Five:



The break-up (of sorts)

Our Land of Vague Fuzzies



He's "sick."

A head cold? Stage 4 lung cancer? Hangover? Acute lead poisoning? A tummy bug? Ebola?

He's "on the spectrum."



A prodigious memory? Nonverbal and self-injurious? Social anxiety? Needs 24/7 care due to severe mental disability?

The Matrix: A More Refined, Realistic View of "Autism"

Socio-adaptive functioning

Thinking/ Learning/IQ

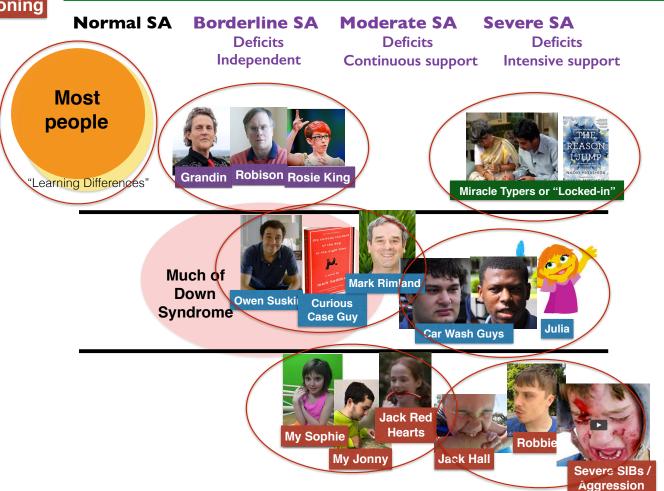
> Normal IQ Normal language

Borderline/
Mild Intel.
Disability
Slow/unusual
language

Moderate IDSome language

Severe IDMinimal or no language

Profound ID

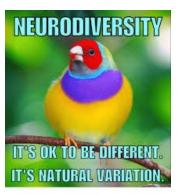


Beware of over-grouping and euphemism.

For example, my son is no "self-advocate" with mere "learning differences."



Neurodiversity is a helpful construct to build acceptance, highlight strengths, and empower individuals who don't fit cognitive norms.



But "natural"? We must not ignore the biological pathology of autism and other DDs.



Prediction Six:



Smarter Science

Another hat: Research philanthropist



Past grantees include: Harvard University • UCSF • UCSD • UCLA
University of Bristol • Child Health and Development Survey
University of Copenhagen • Rockefeller University • Brown University
Autism Speaks • Linkoping University • University of Chicago
Stanford University • Florida State University • North Carolina State University
Colorado State University • Keystone Symposia • Gordon Research Conferences •
International Society for Autism Research
Environmental Mutagenesis & Genomics Society • and more

What's causing autism?

GENES

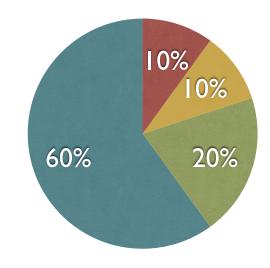
100s of genes contribute—about 10% of cases can be attributed to known genomic errors, 10% more forecast

PROXIMAL FETAL STRESSORS

le, prematurity, multigravidas, hypoxia, certain drugs, infection, maybe 10-20%

UNKNOWN

Probably at least 60% of cases, but **strong** evidence of heritability (among sibs)



Poll: For the unknown causes — what side am I on?

GENES/INHERITANCE

ENVIRONMENT HARMING THE FETAL BRAIN



OR

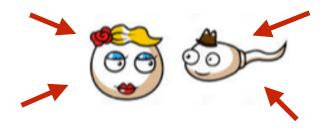






Genetics*

*Because a lot of (bad) stuff happens to our genes.



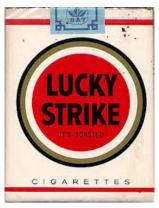
- Mutations
- Regulatory genomeEpigenetics

 - · Cytoplasmic stuff

- Loads of toxic culprits from the past
- Particularly in early critical windows (when our eggs/sperm were forming)
- Small errors can have outsize impacts on neurodevelopment

"Time Bomb" Hypothesis of Autism, an Example

A pregnancy exposure affects 3 generations at once





Grandmother exposed to toxicant as adult

Daughter exposed as fetus

Future grandchildren exposed at genetic level via germ cells

1965

Woman smokes while pregnant with her daughter. Errors occur in the daughter's eggs.



30 years later, the daughter conceives with one of those eggs and then gives birth to a baby boy.



Two years later, the boy is diagnosed with autism. Doctors say "It's genetic."

A 32-year lag between gene exposure and "genetic" pathology.



My "time bomb"?

I was born in 1965 in Los Angeles. Like all girls, I was born with all my eggs.



Some decades later, from those eggs, I had three beautiful, genetically normal children from three low-risk, full-term, normal pregnancies.

Two are nonverbal autistic, no one knows why.



Son, 18



Daughter, 10

Three miraculous discoveries

١.

In 2010, I obtained my mother's 1965 obstetric records. What did they mean?

2.

Prenatal Exposure to Synthetic Progestins and Estrogens: Effects on Human Development

June Machover Reinisch, Ph.D.,1 and William G. Karow, M.D.2

Seventy-one offspring of mothers administered combinations of synthetic progestins and estrogen for the maintenance of at-risk pregnancy were evaluated for their performance on IQ and personality tests. Siblings born of untreated pregnancies acted as controls. Hormone-exposed subjects were partitioned into three treatment subgroups dependent on the ratio of progestin to estrogen administered to their mothers during pregnancy. No difference in IQ was obtained among the three treatment subgroups even when scores were adjusted for sibling score and prenatal and perinatal complications. Responses to the personality questionnaire provided significant differences among the three groups. The group exposed to the progestin regime (progestin alone or in combination with very low doses of estrogen) and the estrogen regime (higher doses of estrogen than progestin) were most dissimilar. Progestin regime exposed subjects were characterized as more independent, sensitive, self-assured, individualistic, and self-sufficient. In contrast, the subjects exposed to the estrogen regime were more group oriented and group dependent. Analysis of difference scores generated by subtracting the score of an unexposed sibling from that of the exposed cosibling provided similar results. A general discussion is presented on the efficacy of hormone treatment for pregnancy maintenance, augmented fetal wastage of males, birth order and treatment, maternal knowledge of treatment and its possible postnatal effects on the offspring, and drug effects on the fetus.

KEY WORDS: synthetic progestin; estrogen; diethylstilbestrol; humans; personality; IQ; pregnancy maintenance; prenatal.

In 2011, I discovered I had been a subject in a study (Reinisch 1977) examining fetal effects of synthetic steroid hormone drugs.

3.



In 2013, I obtained records from the Kinsey Institute detailing my heavy exposure to synthetic steroid hormone drugs.

So what?

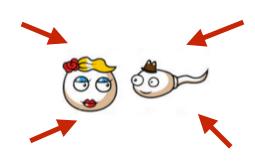
There are likely three, not two, primary ways to think about autism causation:



1. <u>Genetics</u> naturally occurring random mutation in genes



2. Direct risks to the developing **fetal brain** (somatic)



3. Genomic or gametic errors—induced by outside factors (time bomb)

In summary, a psychic rap



Panic we're not faking
Kool-aid—no more partaking
Policy we'll be shaking
"i"nstitutions we creating
Spectrum needs some breaking
Smarter science is in the making

Thank you