Disorders of Sex Development: When to Tell the Patient

Charmian A. Quigley, MBBS LWPES/PAS Mini Course Baltimore, MD 2nd May, 2009

WHEN to TELL the PATIENT?







Outline:



- Why is "disclosure" such an issue?
- Disclosure vs. explanation
- Critical role of the parents
- General approach to the discussions
- Value of patient support groups



Why is "Disclosure" Such an Issue?

- It's hard to give bad news
- Concern about emotional reactions of patient
- Concern about potential to harm gender identity or self esteem
- Concern about effect on patient/parent relationship
- Physician discomfort
- The subject of disclosure is SEX

Historical Attitudes Toward Disclosure

Morris J 1953: "It goes without saying that it would be unwise to inform the patient of the true state of affairs . . it seems only necessary to state that childbearing is impossible."

Why not Tell the Truth? What is the Stigma?



- Y chromosome/testes = "MALE"
 Female body with male "parts"
 Carryover from Victorian attitudes: sexual variations are
 - taboo ("don't ask, don't tell")

What is the Stigma?

• Ambiguity: is this person "really" a male or a female, or something in between?

Consequences of Withholding the Truth

- Shroud of secrecy
- Feelings of exclusion, isolation
- Fears regarding the gravity of what is NOT being revealed
- Sense of "freakishness" or "repugnance"
- Feelings of shame

Disclosure

- Morris J 1953: "It goes without saying that it would be unwise to inform the patient of the true state of affairs ... it seems only necessary to state that childbearing is impossible."
- Conn J et al 2005: "The argument that disclosure would lead to unacceptable harm is no longer valid. Unquestionably, the greatest harm would result if the patient found out her diagnosis by chance in an unsupported environment." BMJ 331:628

Disclos(ur)e, Definitions

- Make known (especially something secret or concealed); e.g. "the disclosed purpose of their wicked plan"
- The act or process of revealing or uncovering
- Something uncovered; a revelation

Disclosure vs. Explanation Explain the facts rather than revealing a secret



General Approach

- Get to know the family
- Understand their fears, issues and concerns . . .





Parents' Issues

- Loss of "normalcy"
- Grief
- Confusion
- Fear and anxiety
- Depression
- "Genetic guilt"
- Shame
- Overprotection

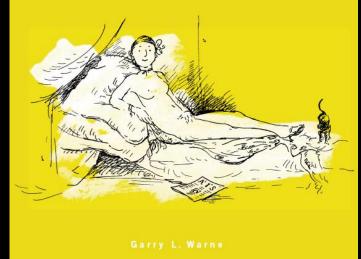


General Approach

- Get to know the family
- Understand their issues/concerns
- Correct misinformation/confusion
- Provide family with information and words they need
- Provide resources (e.g. Garry Warne's booklet; ISNA handbooks; Toronto Sick Kids' Hospital website)
- Support group information
- Contact with other families

Resources

COMPLETE ANDROGEN INSENSITIVITY SYNDROME



http://www.rch.org.au/ publications/CAIS.pdf



Consortium on the Management of Disorders of Sex Development

HANDBOOK for Parents





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http://www.dsdguidelines.org/

Resources: AIS Support Group

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Welcome to our site...

This web site is dedicated to the discussion of Androgen Insensitivity Syndrome (AIS) and similar conditions.

Whether you are an AIS individual, a parent of an AIS child, a medical professional or simply researching information about various intersexed conditions, we are glad you stopped by.



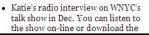
We are here to provide support, information and assistance to all who wish to know more about Androgen Insensitivity Syndrome (AIS) and similar conditions.

I am woman, hear me roar...

Are you coming to us in response to our members featured on the recent O P R A H show or the A B C Medical Myst-eries <u>Click here...</u> for a page with info just for you! Click on this icon to see a video clip ->



Some recent members in the news....





http://www.aissgusa.org

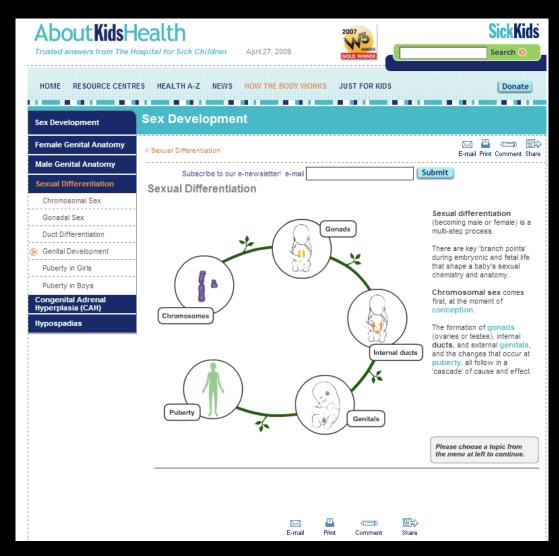
Resources: AIS-DSD-Parents' Group

Yahoo! MyYahoo! Mail M	ske Y! your home page	Search the Web	Search
YAHOO! H	EALTH Sign In New User? Sign Up		Groups - He
	Get home phone, high speed Internet, and wireless or TV under \$100/mo.		
AIS-DSD-Parents	Search for other groups		Search
Home	Stay up to speed on the latest Groups news and updates, visit the Groups blog today!		
Members Only Messages	Home		
Post		Join This (Group!
Files Photos	Activity within 7 days: 66 New Messages - New Questions		
Links			
Database	Description	14.04.0	
Polls Members Calendar Promote Groups Labs (Beta)	A support group for parents/family members of children with Androgen Insensitivity Syndrome (CAIS, PAIS) and other Disorders of S*x Development including gonadal dysgenesis, ambiguous genitalia and others. (Note: use of asterisk (*) above necessary as the original word was disallowed as a descriptor; please refer to DSD Manual link on left for proper terminology).		
Info Settings			
Group Information	Message History		
Members: 106	Jan Feb Mar Apr May Jun Jul Aug Sep Oct Nov Dec		
Category: Care Giving	2009 23 91 51 94		
Founded: Dec 20, 2004 Language: English	2008 78 249 176 220 73 116 145 237 55 29 40 35		
Language: English	2007 32 82 102 127 77 44 46 103 165 278 97 138 2006 117 175 91 94 38 112 91 125 51 37 37 29		
	2005 93 53 72 41 190 129 94 111 53 222 51 74		
Already a member? Sign in to			

http://groups.yahoo.com/group/AIS-DSD-Parents

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Resources



http://www.aboutkidshealth.ca/HowTheBodyWorks/

Role of the Parents



- Parents should be the primary providers of information to the child
- Empower the parents to help their child
- Slowly build information to the child over time
- Age-appropriate details and words
- Other parents can provide guidance

Strategies

- Focus on simply explaining the facts, rather than "disclosing" a secret
- Demystify the chromosomes, gonads and genitalia
- Emphasize the similarities (rather than differences) between male and female development
- Explain concept of different pathways to similar endpoints
 - Some children take the direct route, others take a detour

Sharing the Facts with Parents

- Your daughter has a condition called Androgen Insensitivity Syndrome (AIS)
- AIS is caused by alteration of a gene involved in development of sex - the androgen receptor gene or AR
- Because of the alteration in this gene your daughter has some differences in her sex development compared with average girls

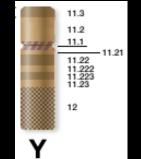
 Most girls/women have 2 X chromosomes . . .



- But some do not
 - ~1 in 2,000 has only one X (Turner)
- ~1 in 20,000 has 1 X and 1 Y (AIS, other)
 Most boys/men have 1 X and 1 Y chromosome
- But some do not . . .
 - ~1 in 500 has 2 Xs and a Y (Klinefelter)
 - ~1 in 100,000 has 2 Xs and no Y (XX male)

- Because she has AIS, your daughter has an X chromosome and a Y chromosome
- AIS occurs in about 1 in 40,000 people
- There are about 7,000 girls/women in the US with AIS
- What does it mean for a girl to have a Y chromosome?

Demystifying the Y Chromosome



22.3

22.2

22.1

21.3

21.1 11.4 11.3 11.23 11.22 11.21 11.21

12

13

21.1

21.2

21.1 22.2 22.3

23

25

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Chromosomes are just packages to store genes (DNA)
Y chromosome is basically a "shrunken" X chromosome
Y carries the same critical genes as the X

Clarifying the Genetics of Sex Determination

- It's not just about the X or the Y chromosome
- At least 20 genes are involved in development of sex (probably 100s)
- 3 known "sex genes" on X
- I known "sex gene" on Y
- At least 1 "sex gene" on each of chromosomes 2, 3, 4, 5, 8, 9, 10, 11, 12, 17, 19 etc.

Clarifying Sex Development

- ALL babies, no matter what sex they are going to be, begin life with the same internal and external structures
- "Gonads" are initially neither testes nor ovaries
- Genitalia are undeveloped, neither male nor female
- Whether the child develops as a boy of a girl depends on the effects of a whole lot of genes, not just having an X or Y chromosome

- Most girls/women have ovaries
- But some do not . . .
 - Turner, Swyer syndrome: "streak" ovaries
- Girls and women with AIS have testes instead of ovaries
- Testes and ovaries are structurally and functionally similar



- Because her body doesn't respond to male hormones, she developed physically as a girl
- However, her testes blocked the development of the uterus
- Because the cells can't use testosterone, the body converts it to estrogen
- Estrogen causes female body shape to develop at puberty
 ³⁰

How will this affect her?



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- She will be generally healthy
- Her puberty may be late
- She will not menstruate
- She will not be able to get pregnant
- She will have reduced pubic hair and armpit hair
- Her vagina may be smaller than average (needs to be checked when she's older), but this can be helped

Guidance to Parents for Explaining to the Child

Toddler years



- introduce the concept of differences "everyone's body is different in many ways"
- provide easy examples
- Childhood (various ages)
 - explain that not everyone has children the "ordinary" way
 - some families adopt children
 - explain sexual/reproductive organs and differences between individuals

Guidance to Parents for Explaining to the Child

- Late childhood (especially if the child has started learning biology in school)
 - some girls don't have periods for various reasons; she will not have periods
 - some women can't have children "the typical way"
 - like many other women, she will not be able to become pregnant
 - there are other ways to have a family

Explaining to the Child/Teen

Late childhood/early teens

- like all girls/women with AIS, she has a Y chromosome
- Y chromosome caused testes to develop
- testes blocked uterus from developing
- testes produce "boy hormones" and "girl hormones" (just as ovaries do)
- her body can't use the "boy hormones" but can only use the "girl hormones", so she developed as a girl

Explaining to the Child/Teen Late childhood/early teens

- Avoid stereotypes or references to movie stars (not all women with AIS look like models)
- Don't minimize the importance of the patient's losses
- Don't be afraid of tears
- Check for understanding at each step, by asking patient to tell you what she knows



Roles of Parent/Patient Support Groups



- Other parents/patients know
 EXACTLY how they feel → bonding
- Affected girls/women share a "sisterhood"
- Safe place to discuss their issues and concerns
- Provide strategies for coping with emotional and practical issues
- Share successes and failures
- Provide role models

Parents' Support Group

- Parents "offer emotional support but not medical advice"
- From one parent to the mother of a newlydiagnosed patient:
- "You know how Oprah has her 'this I know for sure'insights? Well, what I know for sure is that being able to explain AIS will get easier over the years because you'll know more about it, you'll be more comfortable with it, you'll know from experience what things make people wince when you say them, and your growing daughter will be evidence that this isn't as awful as it sounds.What we live with it isn't as awful as it first sounded." 37

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Some recent members in the news....

 Katie's radio interview on WNYC's talk show in Dec. You can listen to the show on-line or download the



http://www.aissgusa.org http://www.accordalliance.org

