Managing Repeat Surgery for Young Patients and Familie

Laurel C. Blakemore, MD Chief, Orthopaedic Surgery and Sports Medicine Childrens National Medical Center Washington, D.C.



Disclosures: K2M: consultant, BSA Stryker: speaker's bureau

I have no potential conflicts with this presentation.



The Problem:



•Most current treatment for severe curves requires repeated surgical interventions (even guided growth)



Common Challenges in EOS systems (i.e., things that might make you say uncle)

•Profile of implants, skin breakdown and infection

Loss of fixation

•Kyphosis





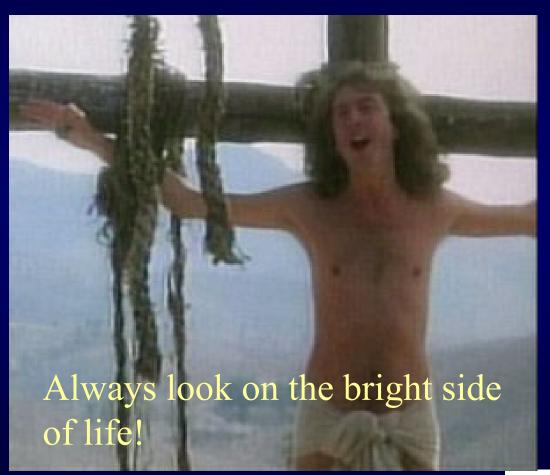
Loss of Fixation

Poor bone quality
Small, short pedicles
Thin lamina
Distraction force
Active kids
Insensate kids





Recurrent Rod Breakage





THREE PRINCIPLES

GOOD PATIENT SELECTION
BEST PREPARATION POSSIBLE
MAKE A PACT





Example #1-Patient selection

8 yo non-ambulatory M with thoracic myeloProgressive gibbus



Is this the right candidate for non-fusion technique?

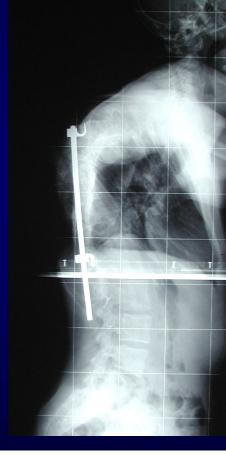
sitting



sitting

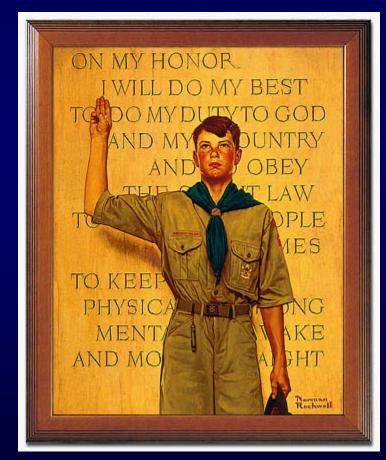
Example #1- the Wrong Patient

SM rod inserted age 11
Patient never returned to primary surgeon
Presented age 14 for lengthening
WRONG OPERATION, WRONG PATIENT





BE PREPARED



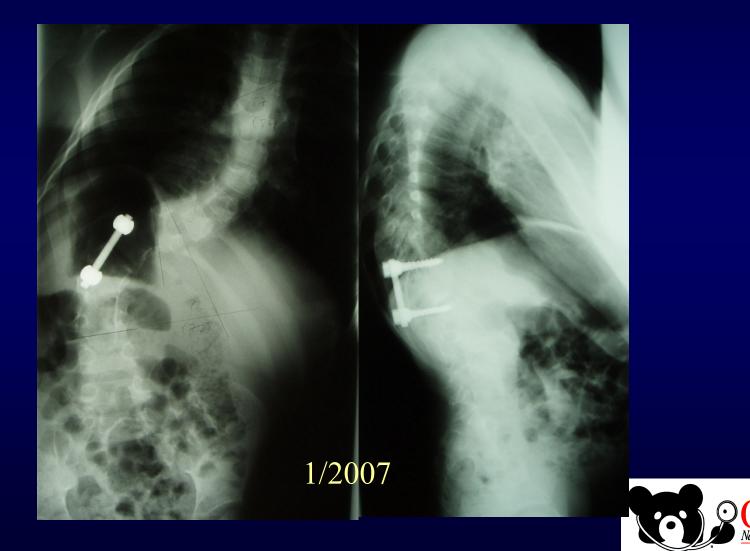


Preop Meeting

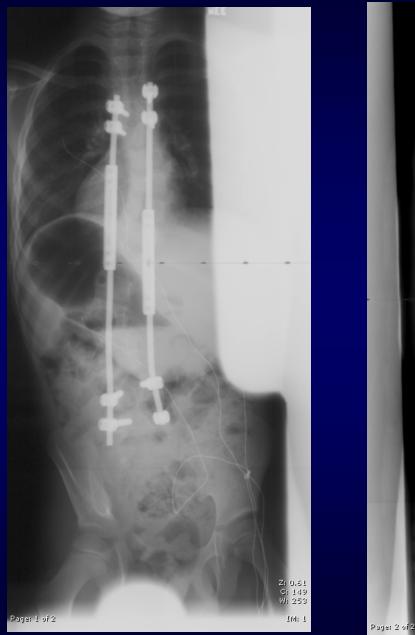
Emphasize *expected* complications
Outline time frame
Elucidate end points
Family needs to buy in



Example #2: family not ready to stop



ens



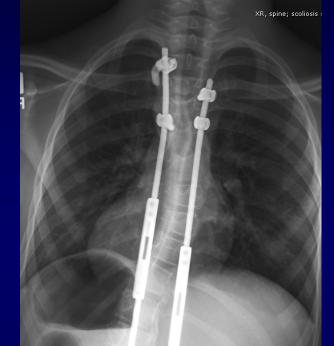












DIMINISHING RETURNS- SURGEON RECOMMENDS FUSION- FAMILY IS SHOCKED!



MAKE A PACT



POST PER. 18 TO FEE. 20

WAR PRODUCTION CO-DROINATING COMMITTEE

WE'RE IN IT FOR THE LONG HAUL





Example #3: Everybody ready to

stop

18 MO male unclassified syndromehips out, CVT



0

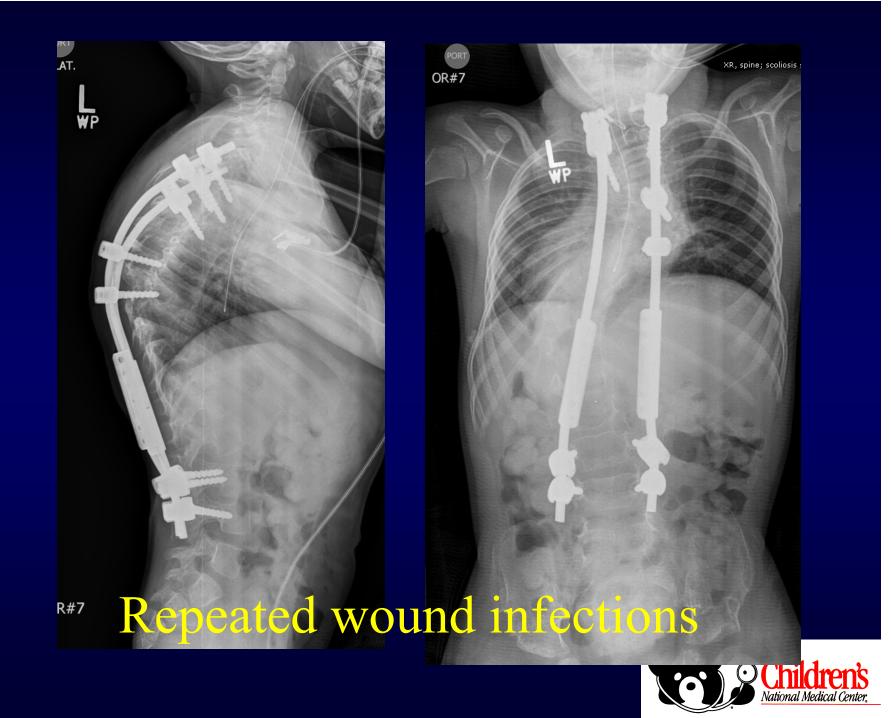
standing

s/p VCR, SM rod insertion







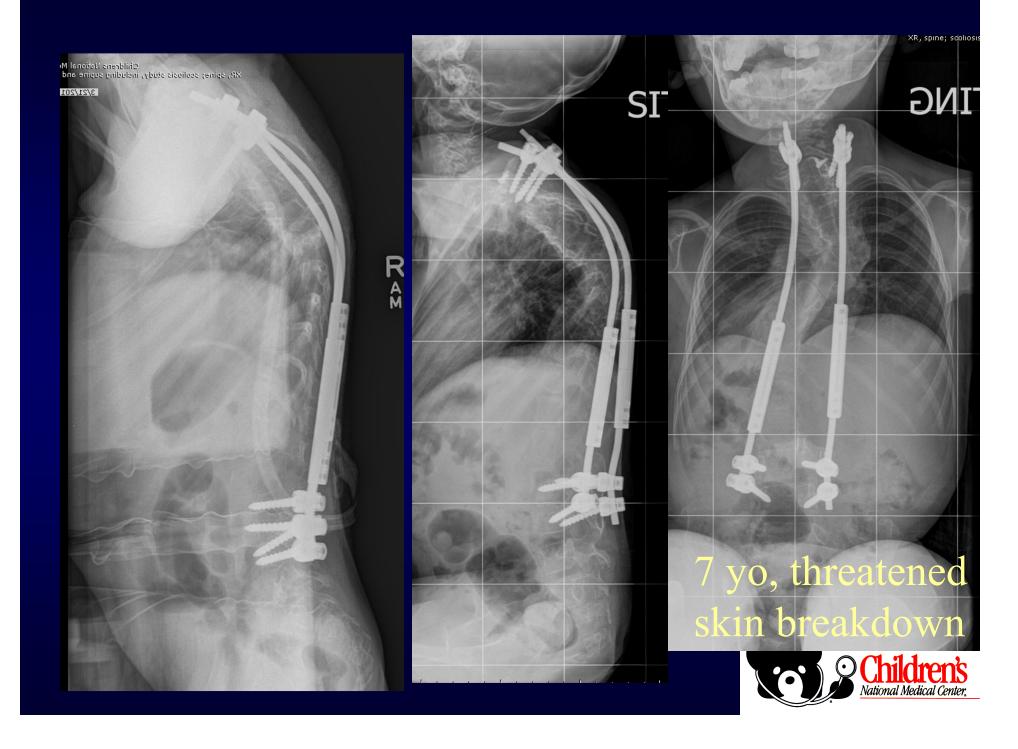




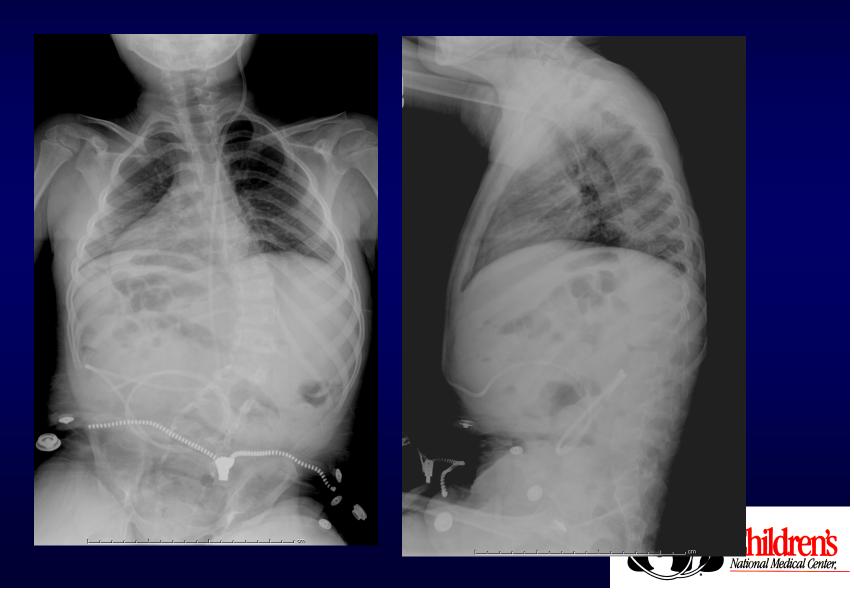
STEF

X٠





Example #4: The enduring partnership: 7 yo myelodysplasia

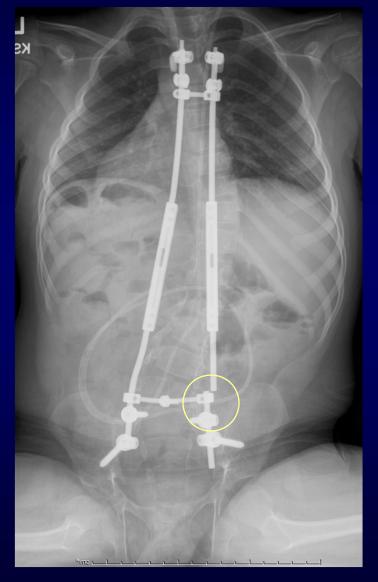




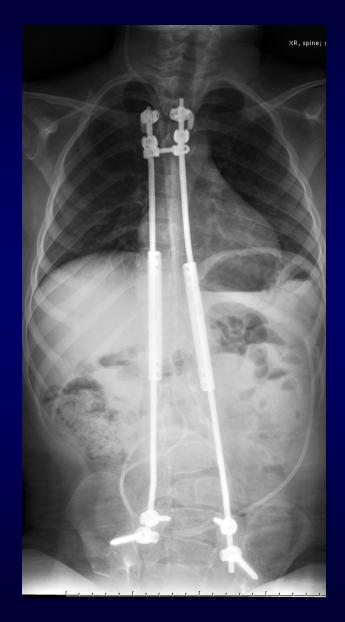
10/2008



8/09



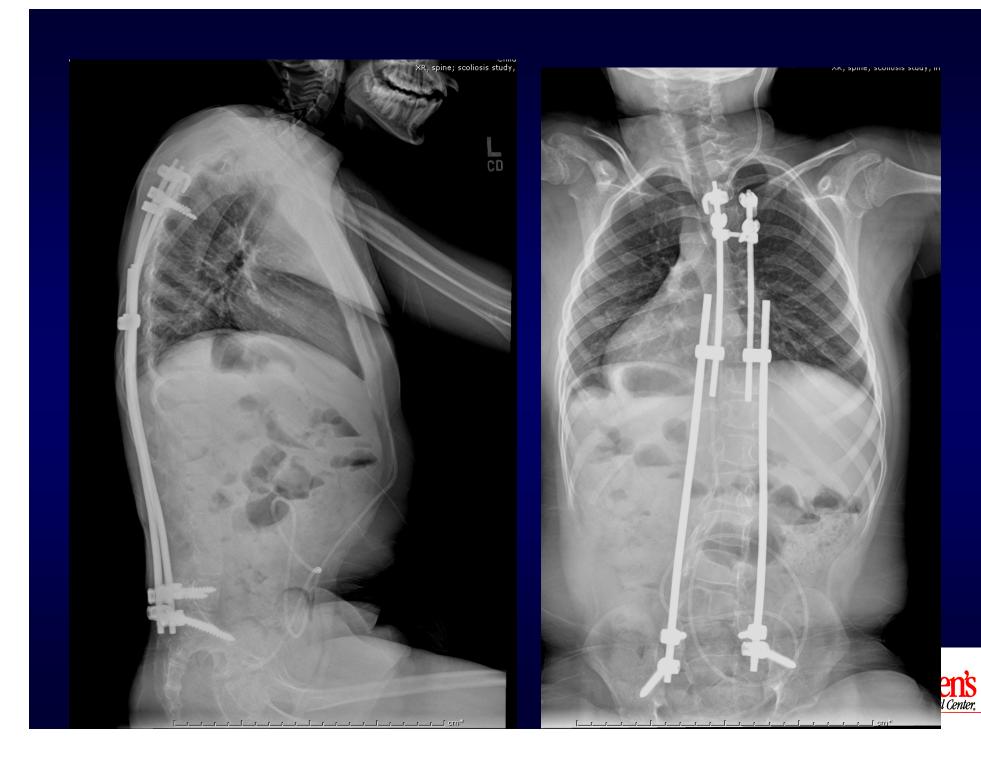




3/11 manuel













Current Practice: When to fuse:

- •"Skeletal maturity"
- •PHV achieved
- •No further lengthening achieved (diminishing returns)
- •Failure of technique:
 - infection
- inability to maintain fixation
 Curve progression despite lengthenings
 Typically age 10 minimum





Lessons I've learned:

•Preparedness

You can never over prepare a familyPatience

- Families hear what they want to hear
- Curves don't behave
- •Perseverance
 - The patients and families will stay the course with you despite adversity







never never never give

(winston churchill)

Walt Disney

"The way to get started is to quit talking and begin doing.

- Read his story -

Walt Disney - Founder of Walt Disney Co.

