

Complicated Scoliosis Syndrome? with Hip Disarticulation

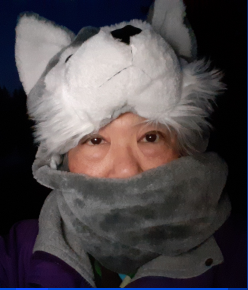
Anna Vergun

UNC-Chapel Hill

Ramona M. Okumura

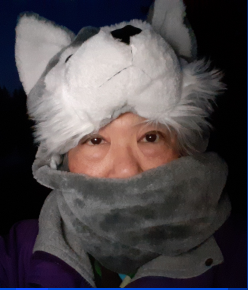
Seattle





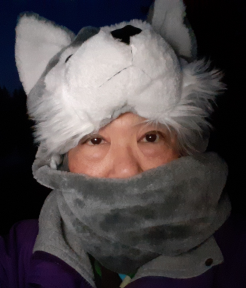
History

- 17 + 2 y.o. female at Gaza amputee summer day camp without private exam
- Congenital scoliosis? Diagnosis?
- Extreme joint laxity
- By pt report, at 3 y.o. subtrochanteric LT HDA from spinal surgery complications
- Transthoracic cardiac echo Normal, 3/2020
- Metabolic Blood Panel, Normal, 3/2020



Clinical Presentation

- Severe thoraco-lumbar scoliosis
- Bilateral hip joint deformity
- Knee jt laxity in valgus, hypermobile wrists
- Hip Disarticulation Prosthesis fit in US 2 1/2 years ago
- Community ambulation with bilateral forearm crutches
- Mild back pain when tired from walking



Imaging

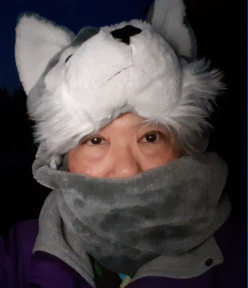
Spine

Probably weight bearing
with prosthesis

No bending films, no
supine films

Difficult to get requested
studies due to logistics



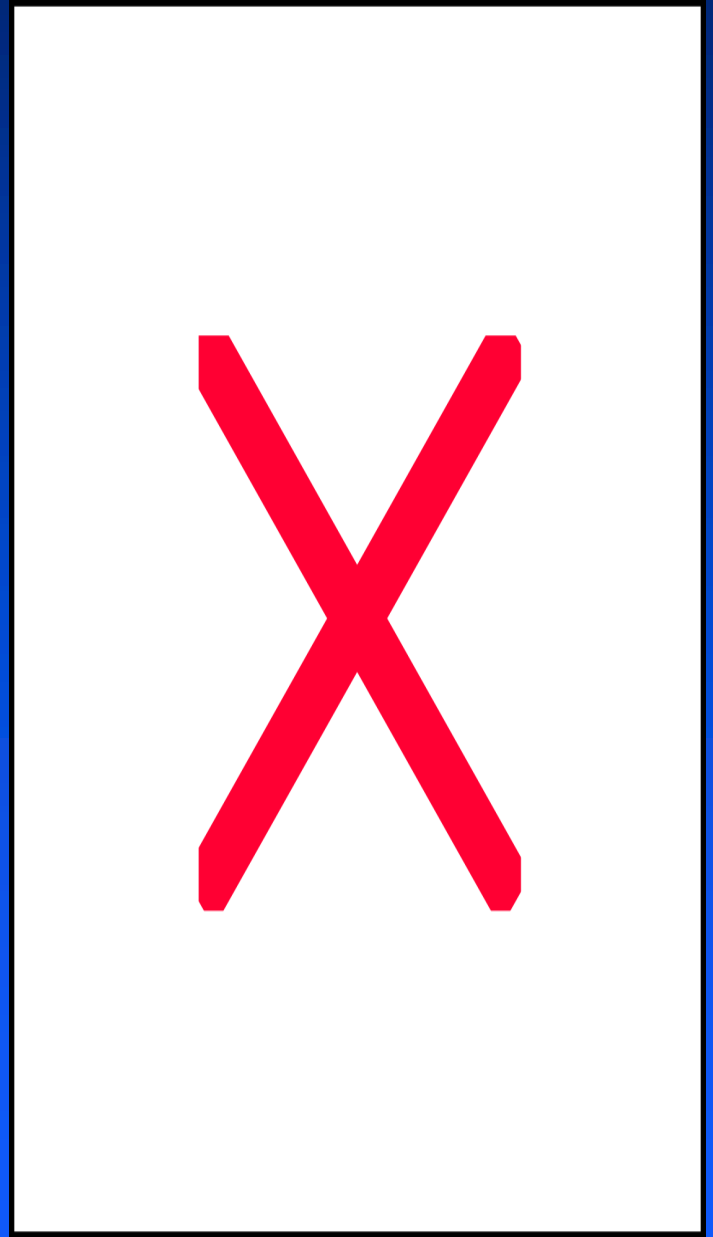


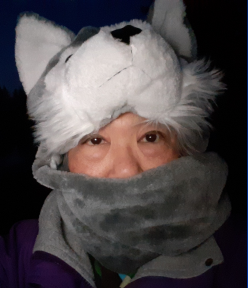
Spinal Mobility

Ambulation without
prosthesis

Can see spinal flexibility
during Rt leg swing
phase

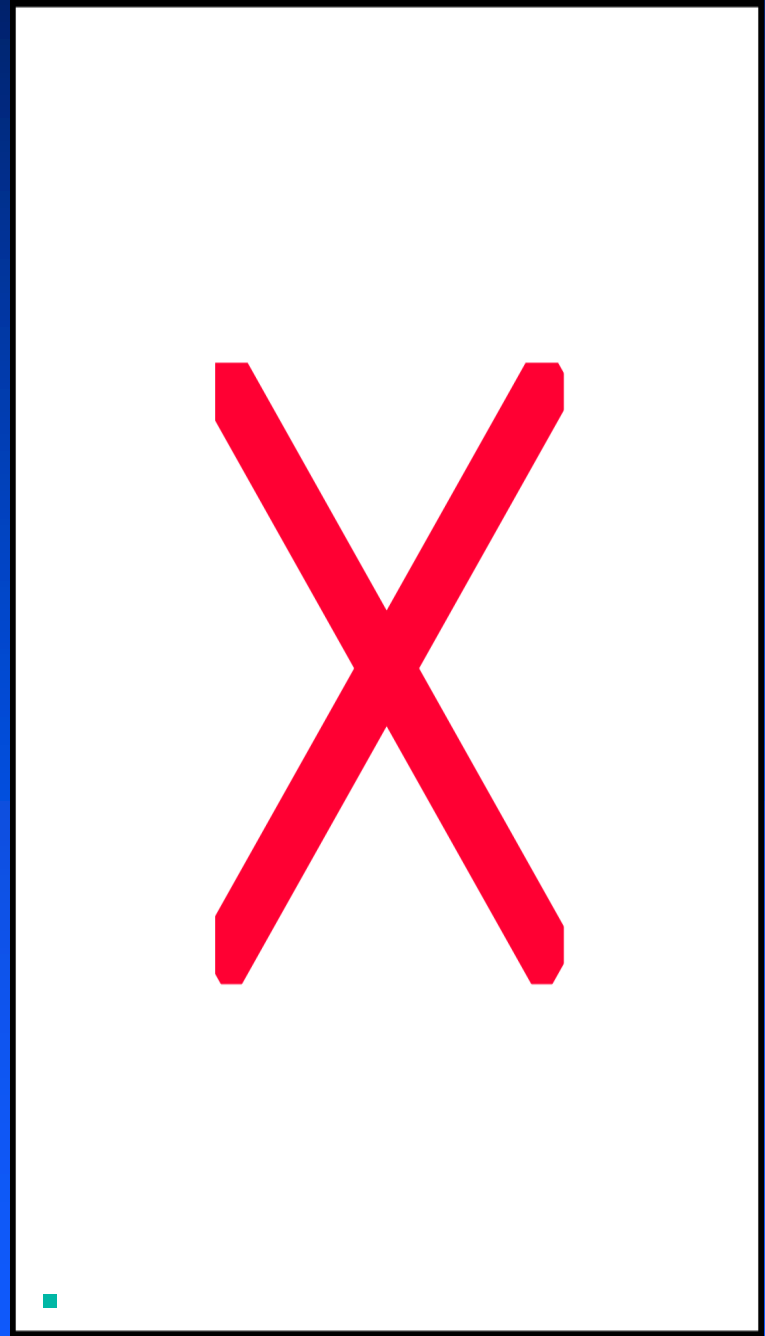
Note relative size of rib
humps

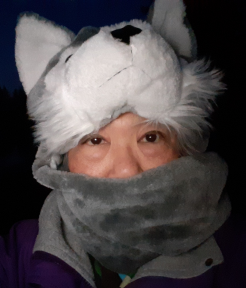




Ambulation with Prosthesis

Ambulation with forearm
crutches and 2 y.o. HD
prosthesis





Joint Laxity

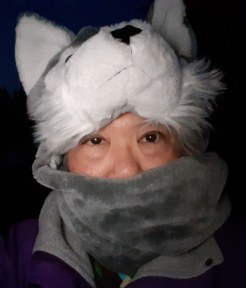
Hypermobile Joints

RT Knee lax in valgus

Wrists ROM flex and
extend to forearm

Note relative size of
hands and feet vs.
height






Cardiac Studies

Echo results normal

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 Specialist of Cardiovascular Medicine & Coronary
 Angiography Al Shataa Hospital.

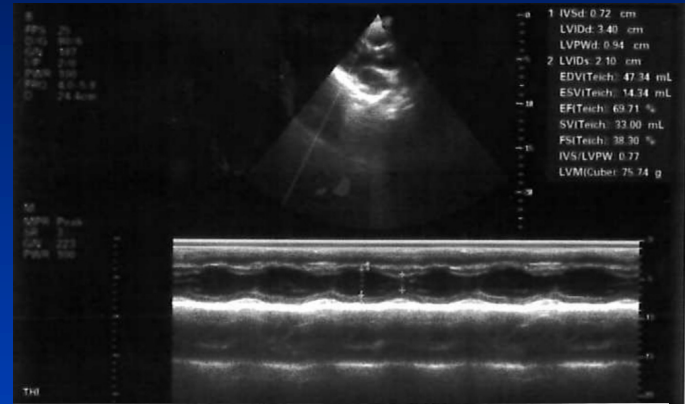


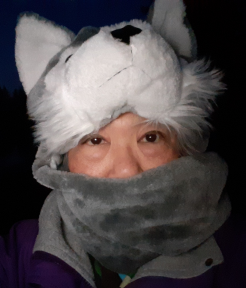
دكتور
 محمد أكروم أبو حسيبة
 ماجستير أمراض القلب والأوعية الدموية (جامعة القاهرة)
 أخصائي أمراض القلب والتدخل القاثية
 وإصلاح شغف الدم - ج. الشفاء

التشخيص
Pro. Trans Thoracic Echocardiography

- Normal L.V. internal dimensions
 (LVIDD: 3.4cm, LVIDS: 2.1cm).
- Normal wall thickness (IVS: 0.7cm, LVPW: 0.9)
- Normal LV EF 69-70%
- Normal aortic root diameter
- Normal aortic valve. No A.S. No AR
- Normal left atrium
- Normal mitral valve. No MR. No M.S

مركز تشخيص أمراض القلب والأوعية الدموية
 مستشفى الشفاء - ج. الشفاء
 011-2833015
 العيادة: غزة - الهرمان - شارع عمر المختار - كاتيل مول الطابق الثالث - مقابل مرطبات كاسم - هاتف: 011-2833015
 مواعيد العمل: أيام السبت - الإثنين - الأربعاء من الساعة الثامنة عصرا وحتى الثالثة مساء
 ملاحظة: المراجعة خلال أسبوعين من تاريخ الكشف - يوجد إحصار الوحدة الطبية عند المراجعة





Cardiac Studies

Metabolic Blood Panel

RADIOMETER ABL5

Patient report #846

Input Parameters

Time 10:50

Date 07.03.20

Op ID

Pt ID

Type Not spec

Temp 37.0 °C

tHb 15.0 g/dL

FIO₂ 21.0 %

Measured Parameters

pH 7.38

pCO₂ 36 mmHg

pO₂ 42 mmHg

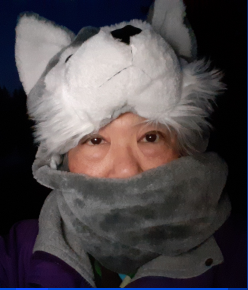
Derived Parameters

sO₂ 77 %

HCO₃⁻ 21 mmol/L

ABE -3 mmol/L

Analyzer # 003



Questions

- Can you suggest a syndrome or diagnosis?
- Surgical indications/contraindications for spine and/or hip?
 - If spine, will it affect ambulation? Risk?
- Long-term implications of scoliosis?
 - Vital capacity? Inspiratory capacity?
 - Pain?