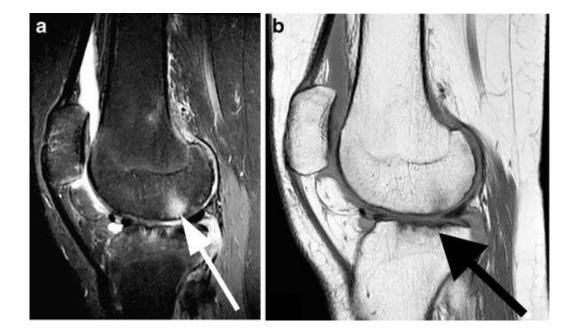
JIA Subtypes: Typical Cases

- Oligoarthritis
 - Alicia 4 y.o.
 - 3 weeks ago Fell on her R knee playing
 - 2 days later swelling in the knee, warm, NWB
 - Worse for 2-3 hours after getting out of bed
 - GP prescribed ibuprofen and referred to orthopaedic team
 - X rays show soft-tissue swelling

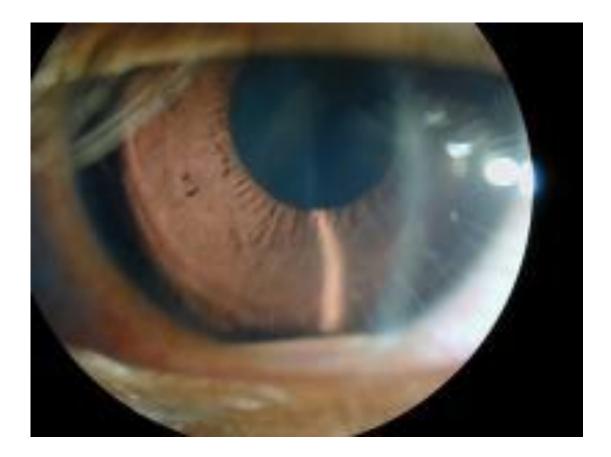






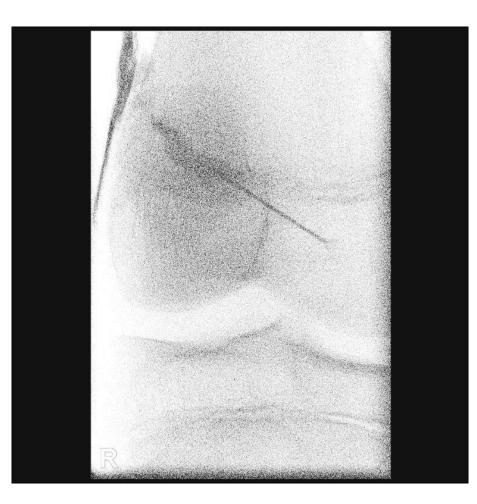
- Orthopaedic assessment:
 - 20 degrees FFD
 - Knee kept in external rotation and "dragged" on the side
 - Allows examination of her knee, although in pain*
 - Blood tests showed:
 - FBC normal
 - ESR 40
 - Not for arthroscopy, Referred patient to paediatric rheumtologist
- Paediatric rheumatology assessment
 - Similar findings on clinical examination, however, on examination of the external eye structures:

Severe Anterior Uveitis: Hypopyon



- Laboratory was contacted and ANA and RF were requested
 - ANA titre 1:640, Speckled pattern
 - RF negative
- Arrangement was made for intra-articular steroid injection under GA
- Naproxen was prescribed 10mg/kg B.D. p.o.
- Urgent referral made to ophthalmologist

- Progress notes:
 - The joint was successfully injected after aspirating 25 mls of straw color fluid
 - Triamcinolone hexacetonide 1mg/kg used



Synovial fluid analysis

Body Fluid 1 M/C/S

Specimen/Site	Synovial Fluid (Right Knee)	
Volume	4	mL
Appearance	Slightly blood stained	
Viscosity	Low	
Leucocytes	4927	x10*6/L
Erythrocytes	12000	x10*6/L
Neutrophils	27	%
Lymphocytes	66	%
Monocytes	7	%
Eosinophils	<1	%
Gram stain comment	No bacteria seen	
Other	No crystals seen	
Culture	No growth	

Comments

Interpretive Ranges for Leucocytes in Synovial FluidNormal< 200 x 10*6 /L</td>Non-inflammatory200 - 2000 x 10*6 /LInflammatory> 2000 x 10*6 /L

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• There was dramatic improvement post injection and active and passive physiotherapy was implemented

- Night time splint was made by OT and orthotist and proved very helpful
- Extension improved to -5 degrees 1 month later
- However, the news at the eye clinic were not as good: In spite of topical steroid drops there was excessive activity in the anterior chamber, as well as increased intra-articular pressure

Keratic precipitate



- Ophthalmologist contacted paediatric rheumatologist to commence MTX.
- This was tried for 6 months with some improvement, but deteriorating inflammation overall.

Therapeutic options for escalating treatment

Infliximab infusion

- Infliximab 6mg/kg given at 0, 2, 6, 14 weeks and 8 weekly from then on.
- Not PBS approved
- Needs hospital admission and iv treatment
- Risk of allergic reactions

Adalimumab subcutaneous injections

- 10mg (<15kg), 20mg (16-30kg), 40mg (>30kg) every two weeks
- Not PBS approved
- Compassionate access with patient support
- Less risk of allergic reaction

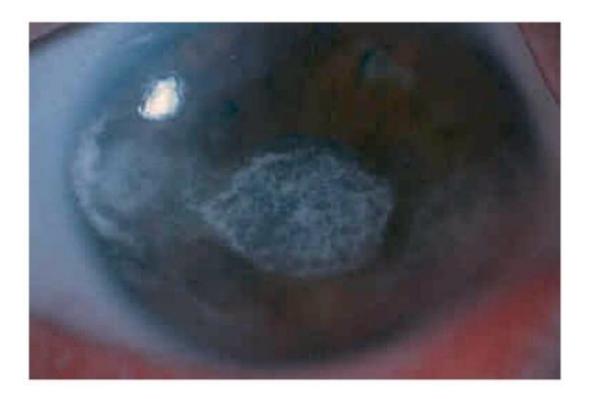
Adalimumab was preferred

- Injection site pain reported but managed with education/Buzzy Bee
- The uveitis completely resolved after 6 months
- 3 monthly follow up continued by the ophthalmologist
- Arthritis did not relapse or extend

Band Keratopathy



Late kerato precipitate



In conclusion:

- Timely referral for paediatric rheumatology assessment when there is no evidence of tumour/trauma/infection
- Think about uveitis early with low threshold to commence systemic low dose methotrexate treatment early under the care of a paediatric rheumatologist
- We need to ask PBAC/Medicare for equitable and timely access to TNF-a blockers or other biologics if necessary to aggressively manage uveitis.