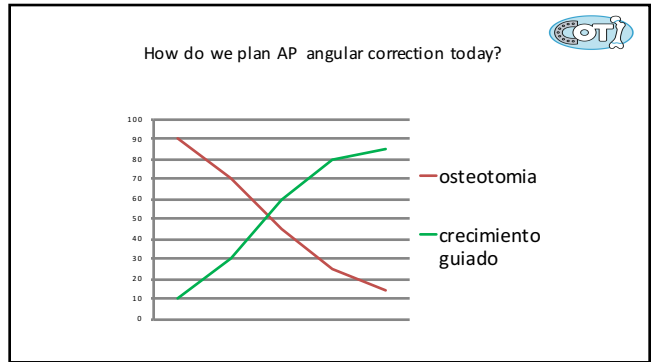



## Guided Growth WS Sao Paulo 2017

### AP deformity correction


Juan Carlos Hernández Bueno COTI Chile  
H Roberto del Río , Santiago






### Goal

1. Avoid progression of deformity
2. Correct deformity



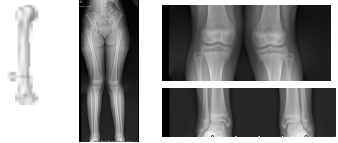


### Remember:


Physeal remanent growing is relative to segments involved

Proximal Physis    Distal physis

No symmetric closure:

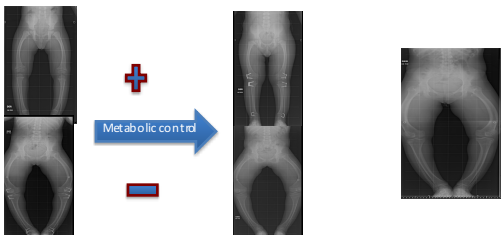



Yearly correction : **fémur 7° - tibia 5°**



Always have to consider:

Patho etiology affecting the compromise bones:









Always have to consider:


Patho etiology affecting the compromise Physis:

**BLOUNT disease**

Always have to considere: 

**Speed of corection with available implants**

<p><b>staples:</b> Fémur 0,6 grados/mes (0,5-0,8) Tibia 0,55 grados/mes (0,45-0,78)</p> 	<p><b>Screws</b> Fémur 0,75 grados/mes (0,5-1,5) Tibia 0,62 grados/mes (0,4-0,8)</p> 	<p><b>Plates</b> Fémur 1,4 grados/mes (11-30% más rápidas)</p> 
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Always have to considere: 

Remanent growth in Physes vs angular magnitud to correct


	Reversible	Acción	Inicio Acción
Pemister	No	Directo	Inmediato
Bowen	No	Directo	Inmediato
Tornillos canulados	Si (?)	Directo	Inmediato
Grapas	Si	Compresión	Inmediato
Placas de fisiodesis	Si	Banda tensión	Latencia
Sutura	Si	Banda tension	Latencia






Espacio para instalación ots: 

Rodilla: Fémur - Tibia

Muñeca - Tobillo



Carefully plan implants for different physes: 

- Estudio radiológico adecuado 
- Test alineamiento: lugar de deformidad (es) 
- Crecimiento remanente (estructuración compensaciones) 
- Momento de hemifisiodesis: M 
- Elección del implante 

There will always be time for an OSTEOTOMY.... 