Congenital Hand Anomalies
- Radial Dysplasia

Occupational Therapy Department
The Royal Children’s Hospital, Melbourne, 2014
Radial Dysplasia
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What is it?
- Deficiencies in structures of the radial side of the limb
- Underdeveloped or absent thumb
- Stiffness and muscle weakness

Goals of therapy:
- Reduce radial deviation contracture and increase alignment of hand or forearm
- Optimise mobility of fingers
- Facilitate functional use of the hand
- Commence therapy as young as possible
Splinting for Congenital Hand Anomalies - General Treatment Goals

• Maximise range of motion
• Maximise functional hand use and independence in occupational performance
• Minimise secondary consequences
Radial Dysplasia

Functional considerations

• Dressing: fasteners, reaching, grip strength
• Toileting: reach, grasp, position
• Grooming: taps, grasping toothbrushes/hairbrushes
• Feeding: opening containers/packets, grasping cutlery
• Fine motor tasks: Writing, school tasks
• Leisure: participation in sports, musical instruments, arts
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