A study of the incidence of childhood scleroderma in the UK and Ireland
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METHOD
- Monthly ascertainment from the British Paediatric Surveillance Unit between July 2005 and July 2007 (25 months)
- Members of the UK Scleroderma Study Group (SSG), the British Society for Paediatric and Adolescent Rheumatology (BSPAR) and the British Association of Dermatologists (BAD) also contacted
- Clinicians reporting a case during the 25 month period were sent a questionnaire
- 12 months after notification, clinicians with a valid case were sent a follow-up questionnaire

CASE DEFINITION
- All cases of abnormal skin thickening newly diagnosed in the past month (the skin will usually be difficult to pinch normally) suspected by the reporting paediatrician to be linear scleroderma or systemic sclerosis (age up to 16 years)
- We also asked clinicians to report morphoea especially when contacting dermatologists

CASE ASCERTAINMENT
- 3.4 per million children per year with localised scleroderma
- 0.2 per million children per year with SSc

ONSET AND DIAGNOSIS DELAY
- Mean delay of 19 months for localised scleroderma and 9 months for SSc
- Majority of cases followed up showed signs of improvement

DEMOGRAPHIC PROFILE
- Majority of cases are female
- Majority are White British

CONCLUSIONS
- 98% of cases are actively treated following diagnosis and 65% reported to be improving 12 months after notification
- Current delays in diagnosis may adversely affect treatment outcome
- Rarity presents a challenge to research
- This study raised awareness of childhood scleroderma and highlighted the need for further research to inform management

BACKGROUND
- Childhood scleroderma represents a poorly understood and very rare spectrum of conditions
- Few studies have assessed the incidence of childhood scleroderma in the UK and Ireland
- Affected children are seen by different specialists

STUDY QUESTIONS
- What is the incidence of scleroderma in children?
- What is the age, sex, ethnicity and geographical distribution of affected children?
- What is the delay between symptom onset and diagnosis?
- What is the medical management of affected children?

GEOGRAPHICAL DISTRIBUTION
- Majority of cases (93%) were localised scleroderma
- Only one case from the Republic of Ireland

RESULTS
- Incidence
  - Localised scleroderma affects skin and subcutaneous tissue and in children, can be extremely debilitating and cause growth problems
  - Children can also suffer from systemic sclerosis which is associated with skin thickening and vascular involvement and can also affect the internal organs

INFORMATION SHARED