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1. **NICE Guidance**
   1) **Feverish illness in children**

2. **New and Updated Cochrane Systematic Reviews**
   2) **Automated versus non-automated weaning for reducing the duration of mechanical ventilation for critically ill adults and children**

   **Authors’ conclusions:** Automated closed loop systems may result in reduced duration of weaning, ventilation, and ICU stay. Reductions are more likely to occur in mixed or medical ICU populations. Due to the lack of, or limited, evidence on automated systems other than Smartcare/PS™ and Adaptive Support Ventilation no conclusions can be drawn regarding their influence on these outcomes. Due to substantial heterogeneity in trials there is a need for an adequately powered, high quality, multi-centre randomized controlled trial in adults that excludes 'simple to wean' patients. There is a pressing need for further technological development and research in the paediatric population.

   3) **Interventions for promoting participation in shared decision-making for children with cancer**

   **Authors’ conclusions:** No conclusions can be made on the effects of interventions to promote SDM for children with cancer aged four to 18 years. This review has highlighted the dearth of high-quality quantitative research on interventions to promote participation in SDM for children with cancer. There are many potential reasons for the lack of SDM intervention studies with children. Attitudes towards children's participation are slowly changing in society and such changes may take time to be
translated or adopted in healthcare settings. The priority may be on developing interventions that promote children’s participation in communication interactions since information-sharing is a prerequisite for SDM. Restricting this review to RCTs was a limitation and extending the review to non-randomised studies (NRS) may have produced more evidence. We plan to expand the types of studies in future updates. Clearly more research is needed.

4) **Interventions for the restorative care of amelogenesis imperfecta in children and adolescents**

**Authors’ conclusions:** We found no randomised controlled trials of restorative treatments for children and adolescents with AI, and therefore there is no evidence as to which is the best restoration. Well defined randomised controlled trials which recruit children and adolescents and focus on the type and severity of the disorder should be undertaken to determine the best intervention for restoring teeth affected by AI.

5) **Media campaigns for the prevention of illicit drug use in young people**

**Authors’ conclusions:** Overall the available evidence does not allow conclusions about the effect of media campaigns on illicit drug use among young people. We conclude that further studies are needed.

6) **Ready-to-use therapeutic food for home-based treatment of severe acute malnutrition in children from six months to five years of age**

**Authors’ conclusions:** Given the limited evidence base currently available, it is not possible to reach definitive conclusions regarding differences in clinical outcomes in children with severe acute malnutrition who were given home-based ready-to-use therapeutic food (RUTF) compared to the standard diet, or who were treated with RUTF in different daily amounts or formulations. For this reason, either RUTF or flour porridge can be used to treat children at home depending on availability, affordability and practicality. Well-designed, adequately powered pragmatic randomised controlled trials of HIV-uninfected and HIV-infected children with severe acute malnutrition are needed.

7) **Recombinant growth hormone therapy for cystic fibrosis in children and young adults**

**Authors’ conclusions:** Recombinant growth hormone therapy is effective in improving the intermediate outcomes in height, weight and lean tissue mass when compared with no treatment. One measure of pulmonary function test showed moderate improvement. No significant changes in quality of life, clinical status or side-effects were observed in this review. Long-term, well-designed randomised controlled trials of recombinant growth hormone therapy in patients with cystic fibrosis are required prior to evaluation of human growth hormone treatment for routine use in patients.

3. Practice changing research, sourced from Dynamed

8) **Practice changing updates in Pediatrics June 2013**

4. Good Quality Systematic Reviews
9) A review of the utility of EEG depth of anaesthesia monitors in the paediatric intensive care environment
10) Opioid-induced respiratory depression in paediatrics: a review of case reports
11) Vaccination in paediatric patients with auto-immune rheumatic diseases: a systematic literature review for the European League against Rheumatism evidence-based recommendations
12) Adverse effects of second-generation antipsychotics in children and adolescents: a Bayesian meta-analysis
13) Efficacy of tranexamic acid in paediatric cardiac surgery: a systematic review and meta-analysis
14) The TT genotype of methylenetetrahydrofolate reductase 677C>T polymorphism increases the susceptibility to pediatric ischemic stroke: meta-analysis of the 822 cases and 1,552 controls
15) Neurodevelopment in children born to HIV-infected mothers by infection and treatment status
16) Clinical effect of metformin in children and adolescents with type 2 diabetes mellitus: a systematic review and meta-analysis
17) The effect of adjuvant drugs on the quality of tracheal intubation without muscle relaxants in children: a systematic review of randomized trials
18) Severe hyperphosphatemia after administration of sodium-phosphate containing laxatives in children: case series and systematic review of literature
19) Proximal humerus fractures in the pediatric population: a systematic review
20) The ProSeal Laryngeal Mask Airway is more effective than the LMA-Classic in pediatric anesthesia: a meta-analysis
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23) Efficacy and safety of clarithromycin in pediatric patients with upper respiratory infections: a systematic review with meta-analysis
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26) Comparison of articulated and rigid ankle-foot orthoses in children with cerebral palsy: a systematic review
27) Hematopoietic stem-cell transplantation in the pediatric population
28) Treatment and stability of class II division 2 malocclusion in children and adolescents: a systematic review

29) A meta-analysis of adherence to antiretroviral therapy and virologic responses in HIV-infected children, adolescents, and young adults

30) Posttransplant metabolic syndrome in children and adolescents after liver transplantation: a systematic review

31) Efficacy of risperidone in children with disruptive behavioural disorders

32) Mortality and morbidity among infants at high risk for severe respiratory syncytial virus infection receiving prophylaxis with palivizumab: a systematic literature review and meta-analysis

33) Efficacy and safety of intraoperative dexmedetomidine for acute postoperative pain in children: a meta-analysis of randomized controlled trials

34) Computerized clinical decision support for medication prescribing and utilization in pediatrics

35) Methylenetetrahydrofolate reductase polymorphism C677T is a protective factor for pediatric acute lymphoblastic leukemia in the Chinese population: a meta-analysis

36) Continuous infusion versus bolus injection of furosemide in pediatric patients after cardiac surgery: a meta-analysis of randomized studies

37) Delayed-release oral suspension of omeprazole for the treatment of erosive esophagitis and gastroesophageal reflux disease in pediatric patients: a review

38) Risk of recurrence in children operated for thyroglossal duct cysts: a systematic review

39) Systematic review of dexamethasone as an adjuvant therapy for bacterial meningitis in children

40) Selective decontamination of the digestive tract in critically ill children: systematic review and meta-analysis

41) Comparative effectiveness of different types of splenectomy for children with congenital hemolytic anemias

42) Exercise interventions in children with cancer: a review

43) Mannose-binding lectin and the risk of HIV transmission and disease progression in children: a systematic review

44) A pooled analysis of thyroid cancer incidence following radiotherapy for childhood cancer

45) Assessment of immunochemotherapy and stem cell transplantation on EBV-associated hemophagocytic lymphohistiocytosis in children: a systematic review and meta analysis

46) Growth hormone improves growth in pediatric renal transplant recipients - a systemic review and meta-analysis of randomized controlled trials
47) Efficacy and safety of cyclosporine A in treatment of refractory nephrotic syndrome in children: a systematic review of randomized controlled trials

48) Role of procalcitonin in the diagnosis of severe infection in pediatric patients with fever and neutropenia: a systematic review and meta-analysis

49) A meta-analysis of antipseudomonal penicillins and cephalosporins in pediatric patients with fever and neutropenia

50) Is there a role for carboplatin in the treatment of malignant germ cell tumors? A systematic review of adult and pediatric trials

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56) Surgical approaches for open reduction and pinning in severely displaced supracondylar humerus fractures in children: a systematic review

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59) Diagnostic procedures in autism spectrum disorders: a systematic literature review

60) Systematic review of randomized controlled trials: fiber supplements for abdominal pain-related functional gastrointestinal disorders in childhood

61) The relationship between percutaneous endoscopic gastrostomy and gastro-oesophageal reflux disease in children: a systematic review

62) XRCC1 Arg399Gln and Arg194Trp polymorphisms in childhood acute lymphoblastic leukemia risk: a meta-analysis

63) The clinical effectiveness and cost-effectiveness of primary stroke prevention in children with sickle cell disease: a systematic review and economic evaluation

64) Evidence based practice review: cranberry for urinary tract infection prophylaxis in children at risk of recurrent UTI

65) A systematic review of clinical diagnostic systems used in the diagnosis of tuberculosis in children
66) Audiologic management of auditory neuropathy spectrum disorder in children: a systematic review of the literature

67) Effect of adenotonsillectomy on c-reactive protein levels in children with obstructive sleep apnea: a meta-analysis

68) Dexmedetomidine versus morphine or fentanyl in the management of children after tonsillectomy and adenoidectomy: a meta-analysis of randomized controlled trials

69) Laparoscopic versus open appendectomy for complicated and uncomplicated appendicitis in children

70) Salivary gland botulinum toxin injections for drooling in children with cerebral palsy and neurodevelopmental disability: a systematic review

71) Meta analysis of the efficacy of Xiyanping injection in the treatment of autumnal diarrhea in children

72) Parenteral omega-3 fatty acid lipid emulsions for children with intestinal failure and other conditions: a systematic review

73) Prevention of oral mucositis in children receiving cancer therapy: a systematic review and evidence-based analysis

74) Psychotropic medications in children with autism spectrum disorders: a systematic review and synthesis for evidence-based practice

75) Does cytochrome P450 1A1 Mspl polymorphism increase acute lymphoblastic leukemia risk? Evidence from 2013 cases and 2903 controls

76) A meta-analysis of the risk of boys with isolated cryptorchidism developing testicular cancer in later life

5. NHS Behind the Headlines

77) Could a mother's lack of iodine harm her child's IQ?

78) No proof kids of lone parents are less intelligent

79) Negative parenting linked with kids being bullied

80) MMR catch-up campaign targets a million children

81) Does tough love work?

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84) *Child: Care, Health and Development*

85) *Clinical Pediatrics*

86) *European Journal of Pediatrics*

87) *Journal for Specialists in Pediatric Nursing*

88) *Journal of Pediatric Healthcare*

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