statistically significant difference in risk factors for raised DL comparing age, bowel resection, absence of ileo-caecal valve, abnormalities on barium study and use of proton pump inhibitors. SBL was significantly shorter (p = 0.001) in raised DL group (median 29.6%; range 11.4–100) than in group without (median 100%; range 19.10–100). Patients with <35% SBL had 77% sensitivity for developing raised DL. Relationship to feed could not be analysed due to lack of accurate information on patients’ carbohydrate intake. Response to treatment was available in 12/25 and all had improvement in symptoms with fall in DL. Recurrence occurred in 48%.

**Conclusion** Children with IF due to <35% expected SBL, when screened, have a 77% likelihood of having SBBO shown by raised DL. Screening in at risk patients allows prompt detection and treatment of SBBO. Recurrence is common necessitating prolonged antibiotic regimens.

**G197**

**HEPATIC HAEMANGIOMA AND CONJUGATED HYPERBILIRUBINEMIA – A CASE REPORT**

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1ND Ruth, 2J Kirk, 3D Kelly. Liver Unit, Birmingham Children’s Hospital, Birmingham, UK; 2Dept of Endocrinology, Birmingham Children’s Hospital, Birmingham, UK

**Background** Infantile hepatic haemangioma, the most common benign vascular tumour of the liver in childhood, presents within the first months of life. 80% present in infancy and nearly half have associated cutaneous hemangiomas. Other extrhepatic lesions may also be present including pulmonary and cerebral haemangioma.

**Subjects and Methods** A term neonate presented with respiratory distress, unstable blood sugars and was small for gestational age. She was referred to a liver unit for management of hepatic haemangioma.

**Results** We describe a neonate who presented with hepatic haemangioma, cardiac failure and conjugated hyperbilirubinemia which was due to hypopituitarism. This combination of clinical disease has not previously been reported. The diagnosis of hypopituitarism was considered because the infant had low blood sugars with prolonged conjugated jaundice during the initial treatment. Jaundice is associated with large hepatic haemangioma it is generally unconjugated unless there is a degree of biliary obstruction associated with the size of the haemangioma. Following diagnosis of hypopituitarism, commencement of replacement therapy with hydrocortisone and thyroxine resulted in resolution of symptoms and stabilisation of her condition.

**Conclusion** This is an unusual presentation of hypopituitarism, and could have been overlooked in view of the other pathology present with adverse consequences for her future health and development.

**G198**

**PLASMA ARGinine LEVELS AND BLOOD GLUCOse CONTROL IN VERY PRETERM INFANTS RECEIVING TWO DIFFERENT PARENTERAL NUTRITION REGIMENS**

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1L Burgess, 2C Morgan, 3K Mayes, 4M Tan. Department of Neonatology, Liverpool Women's Hospital, Liverpool, UK; 2Department of Clinical Chemistry, Alder Hey Children's Hospital, Liverpool, UK; 3Department of Paediatrics, Alder Hey Children's Hospital, Liverpool, UK

**Background and Introduction** We have previously shown that improving early protein intake is associated with a reduction in intravenous treated hyperglycaemia in preterm infants <29 weeks gestation. The effect of amino acids (AA) on insulin secretion is well described in preterm infants with arginine recognised as a potent secretagogue. We hypothesised that low arginine levels would be associated with an increase in insulin-treated hyperglycaemia and higher mean daily blood glucose levels (day1–15) in infants born <29 weeks gestation.

**Methods** We performed a secondary analysis on previous randomised controlled trial data comparing hyperalimentation (H) and control (C) regimens. The hyperalimentation regimen provided 20% more carbohydrate than the control regimen. Daily carbohydrate and protein intake data and mean daily blood glucose and insulin use data from the first 15 days of life were stratificated according to high (highARG) or low (lowARG) arginine levels on day 8–10 using a reference population based median plasma level (57micromol/l).

**Results** In group C, stratification identified 41 lowARG and 19 highARG infants. There were no differences in basic demographic factors, carbohydrate or protein intake. Hyperglycaemia peaked on day 5–10. Low arginine levels were associated higher mean daily blood glucose levels (day 6–10) and more insulin treatment (Table 1; group C). In group H, stratification identified 33 lowARG and 22 highARG infants. LowARG infants were of lower gestation and birthweight (p <0.01) There were no differences in carbohydrate or protein intake. Low arginine levels were associated higher mean daily blood glucose levels (day 1–5, 6–10) and more insulin treatment (Table 1; group H).

**Conclusion** Low plasma arginine levels in very preterm infants are associated with poorer blood glucose control.

**G199**

**USE OF FISH-OIL BASED INTRAVENOUS LIPID EMULSION AS A RESCUE IN INFANTS WITH INTESTINAL FAILURE-ASSOCIATED LIVER DISEASE WHO DEVELOP SEPSIS**

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1HM Lee, 2A Hickey, 3M O’Meara, 4L Thompson, 5J Hind. 1Paediatric Hepatology, King’s College Hospital, London, UK; 2Paediatrics, King’s College Hospital, London, UK; 3Pharmacy, King’s College Hospital, London, UK

**Aims** In infants with intestinal failure-associated liver disease (IFALD), it is known that episodes of sepsis can be accompanied by a significant deterioration in liver function. We hypothesised that an intravenous lipid emulsion (ILE) comprised solely of fish oil, high in omega-3 fatty acids, such as Omegaven®, may protect the liver in these infants during episodes of sepsis. Our aim is to describe the potential role for Omegaven® as a rescue therapy in infants with sepsis and established IFALD.

**Methods** A mixed source ILE containing both omega-3 and omega-6 fatty acids (SMOFlipid®) was used as first-line in infants at high risk of IFALD. When infants with IFALD developed sepsis, Omegaven® was used as the sole ILE for up to 14 days. A retrospective review of their case notes was conducted.

**Results** Omegaven® was well tolerated in all infants. 7 infants had Omegaven® treatment during a 14-month period (August 2011-October 2012). Median birth weight was 1000g (range 527–1870). Median gestation at birth was 30 weeks (range 24–34). Of the 7 patients, 2 had gastrochisis and 5 had nectrotising enterocolitis (NEC). One patient with gastrochisis developed NEC. 2 patients were late transfers at 4–5 months of age from other hospitals with severe and progressive IFALD. Both subsequently died. Median age at start of Omegaven® was 63 days (range 7–189). 3 patients did not
complete the full 2-week course of Omegaven®. All had total bilirubin levels above 80μmol/l at commencement of Omegaven®. During their episodes of sepsis, bilirubin and CRP rose in all patients. Transaminases were deranged in all. All 7 patients showed improvement in septic markers during Omegaven® treatment. 3 patients showed improvement in bilirubin during treatment, which was maintained in the long term in 2. 1 patient was transferred to another centre for further medical treatment early in her Omegaven® course: her bilirubin was static.

**Conclusion** Use of Omegaven® as a short term rescue ILE in infants with IFALD and sepsis appears safe. The expected deterioration in liver function associated with sepsis was not seen in this series.

**G200(P) EVALUATION OF SHARED CARE FOR IBD WITHIN A REGIONAL CLINICAL NETWORK**

1SP Paul, 2J King, 3BK Sandhu. 1Paediatrics, Yeovil District Hospital, Yeovil, UK; 2Paediatrics, Great Western Hospital, Swindon, UK; 3Paediatric Gastroenterologist, Bristol Royal Hospital for Children, Bristol, UK

**Introduction** In 2008 BSPGHAN guidelines for Inflammatory Bowel Disease (IBD) were published. The South-West of England paediatricians have developed a regional clinical network whereby children, suspected of having IBD travel to Bristol for full diagnostic work-up. Post diagnosis care is provided by paediatricians at the local hospital with advice from Bristol and a joint three monthly outpatient clinic in Swindon. Children with very severe disease or needing surgery are dealt with by Bristol team. Effectiveness of this model was audited and found to be improved after the introduction of BSPGHAN guidelines.

**Aim** This pilot study aimed to assess parent and patient views regarding quality of service provided within Swindon/Bristol regional network.

**Subjects and methods** Thirteen children aged <16 years diagnosed with IBD between 2010–2011, managed by shared care services. A telephone questionnaire survey designed with 12 questions and a free comments section. Questions included length of time to diagnosis, information sharing, satisfaction with services and preferences for further follow-up care.

**Results** 9/13(69%) responded to telephone survey, 3/13(23%) had moved out of area and 1/13(8%) could not be contacted by telephone. Of 9 patients, 4 had Crohn’s disease, 3 Ulcerative colitis and 2 Indeterminate colitis. 4/9(45%) parents felt their concerns were adequately addressed initially at Swindon whereas all parents were satisfied with services provided at Bristol for diagnostic work-up. 6/9(67%) parents felt they were satisfied with the expertise available locally for post-diagnosis management. However 8/9(89%) parents were happy with follow-up care by the joint care services at Swindon.

**Conclusion** This single centre pilot demonstrated that joint care provided by this model not only leads to care more concordant with BSPGHAN guidelines but is appreciated and valued by parents. There is scope for further improvements. This pilot study provides a template for ensuring and improving parent/patient involvement and satisfaction; there are plans to modify the questionnaire taking into account any suggestions for improvements and roll it out over the whole SW shared care IBD network soon.

**G201(P) SURVEY OF MANAGEMENT OF IRON DEFICIENCY ANAEMIA IN CHILDREN WITH INFLAMMATORY BOWEL DISEASE IN THE UK**

S Ramprakash, A Modi. Department of Paediatrics, Luton and Dunstable Hospital, Luton, UK

**Aim** To study the current practice of management of iron deficiency anaemia in children with inflammatory bowel disease (IBD) in the hospitals across the United Kingdom.

**Methods** We conducted an internet based survey among the Paediatric Gastroenterologist, Paediatrician with interest in Gastroenterology and the Specialist Nurses in Paediatric Gastroenterology using Survey Monkey tool. Survey was conducted over a 3 month period from September 2012 to December 2012. Participants were sent a questionnaire regarding their case load, criteria for investigations for iron deficiency anaemia in IBD and modalities of treatments used for correcting iron deficiency anaemia. A total of one hundred health professionals were invited to participate in the survey.

**Results** The total response rate for the survey was 35%, 57% of the responses were from tertiary care paediatric gastroenterology