Abstracts

the body esteem domain increased from 48 to 81. BAI scores reduced from 22.5 to 5 in 2 patients.

Conclusion Multidisciplinary assessment is important in selecting patients for bariatric surgery. This surgery should be performed in centres that can provide this. Improvements in quality of life are significant and important to monitor to sustain weight loss. Longer term follow-up is necessary to maintain weight loss and monitor progress.

GROUP EDUCATION IN ADOLESCENT DIABETES TRANSITION

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Aims Education is a key component of the transition process. We piloted a half-day group education session for young people (YP) and their parents.

Methods All YP in the diabetes service aged 14–19 years were invited via letter or email (1/5 of eligible YP and 21 parents attended. 1/3 [4%] eligible YP aged 14 years attended, 8/50 [16%] aged 15–16 attended, 16/52 [28%] aged 17–18 years attended and 1/5 [20%] aged 19y attended. 17/25 (68%) YP in attendance were male. The mean (SD) HbA1c of attendees was 8.1% (1.4) vs 8.4% (1.7) for non-attendees (p=0.05, t-test). 24/25 (96%) attendees had type 1 diabetes.

Booking and attendance: Of those invited by email: 21/34 (62%) of YP opened the email, 30/39 (77%) of parents opened the email. The predominant barrier to attendance was exam commitments.

Acceptability and ratings: Mean (SD) YP rating for the session was 8.1 (0.9) in a 10-point Likert scale (1 = very poor, 10 = excellent). Mean (SD) parent ratings were 8.6 (1.4). After the session, 14% of YP reported they were “ready to move to adult services”, 59% “more ready to move to adult services”, 18% “equally ready” and 0% “less ready”. Sessions most frequently rated by YP as “useful” were “rights and jobs” (77%), “having a healthy baby” (64%), “driving and diabetes” (59%) and “alcohol and diabetes” (59%); parents most rated “driving and diabetes” (94%) “rights and jobs” (73%), “adult clinic” (75%) and “insulin pumps in adult services” (75%).

Conclusions An expert-delivered group transition education session shows promise as an effective and easy to deliver tool for preparing adolescent patients for adult life with diabetes. Further exploratory work is needed to optimise this model and measure its effectiveness.

HYPERINSULINAEMIC HYPOGLYCAEMIA OF SHORT DURATION – CAN IT BE ASSOCIATED WITH SEVERE HYPOGLYCAEMIC BRAIN INJURY?

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Background Neurological damage is a known risk associated with hyperinsulinemic hypoglycemia (HH). Insulin suppresses ketone body formation and hence no alternative fuels are available for the brain to use; however it is not yet known how long HH has to last to cause brain injury. We report that neurological damage can occur after a short time in term, normal weight infants with diazoxxe responsive HH.

Aim To describe the clinical course and neurological outcome of 3 term neonates with severe hypoglycaemic brain injury who were not diagnosed with HH for at least 72 hours.

Methodology 3 patients who presented in the neonatal period with biochemically confirmed HH were recruited. Detailed clinical information was collected including MRI brain reports.

Results All three term neonates were discharged home after 24–36 hours of birth. Birth weight range was 2730–3460 gms and each delivery was classified as normal vaginal births with no associated risk factors for HH. All infants presented to the Emergency department on day 3 to 4 of life with non-specific symptoms like poor feeding and lethargy. However all of them were noted to have jerky and seizure like movements. Biochemically, all had their true blood glucose levels less than 0.6 mmols/L with raised insulin and suppressed ketone body formation. They all successfully responded to small doses (5mg/kg/day) of Dazoxide (two of them are off Dazoxide now and had transient hyperinsulinism). Each neonate had MRI brain due to clinical neurological concerns within the first few weeks of life that showed significant evidence of hypoglycaemic brain injury like gross white matter changes with parieto-occipital infarcts.

Conclusion It is very important for early identification and prompt management of HH as untreated severe hypoglycaemia can result in severe brain injury and subsequent neurodevelopmental handicap. Term infants with no risk factors are often difficult to identify due to non-specific symptoms. Parental education to recognise early symptoms of hypoglycaemia would be recommended and prompt medical advice should be sought. Blood glucose levels should be of utmost priority for babies presenting to A&E with non specific symptoms such as poor feeding/lethargy etc.