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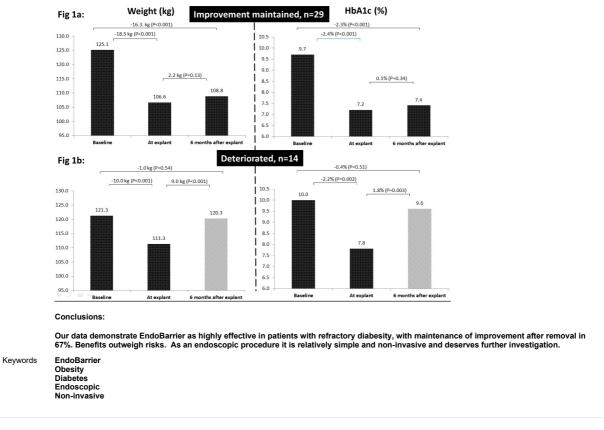
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| Session type               | Abstract Submission  |
|----------------------------|--|
| Topic                      | Novel technologies and gastrointestinal devices for diabetes   |
| topics 1                   | Yes  |
| topics 2                   | l confirm  |
| Presentation<br>preference | Oral Presentation  |
| Abstact<br>number          | WCITD19-0050   |
| Abstract title             | UK FIRST NATIONAL HEALTH SERVICE (NHS) ENDOBARRIER SERVICE FOR UNCONTROLLED DIABESITY SHOWS THE METABOLIC<br>IMPROVEMENTS 6-MONTHS AFTER ENDOBARRIER REMOVAL ARE WELL MAINTAINED   |
| Co-authors                 | <u>B. Ryder</u> <sup>1</sup> , M. Yadagiri <sup>1</sup> , S. Irwin <sup>1</sup> , W. Burbridge <sup>1</sup> , T. Bashir <sup>2</sup> , M. Wyres <sup>1</sup> , C. Melissa <sup>1</sup> , J. Bleasdale <sup>3</sup> , A. Rachael <sup>4</sup> , E. Fogden <sup>4</sup> , M. Anderson <sup>4</sup> , P. Sen<br>Gupta <sup>5</sup> .<br><sup>1</sup> City Hospital, Diabetes, Birmingham, United Kingdom.<br><sup>2</sup> City Hospital, Dietetics, Birmingham, United Kingdom.   |
|                            | <ol> <li><sup>3</sup>City Hospital, Anaesthetics, Birmingham, United Kingdom.</li> <li><sup>4</sup>City Hospital, Gastroenterology, Birmingham, United Kingdom.</li> <li><sup>5</sup>Guy's and St Thomas' Hospitals, Diabetes, London, United Kingdom.</li> </ol>  |
| Abstract text              | Background and Aims:   |
|                            | EndoBarrier is a 60cm endoscopically-implanted proximal intestinal liner, designed to mimic the by-pass part of roux-en-y bariatric surgery.<br>We aimed to assess the safety and efficacy of EndoBarrier in patients with suboptimally controlled diabesity.  |
|                            | Methods:   |
|                            | In the first NHS EndoBarrier service, we provided EndoBarrier for patients with suboptimally controlled diabesity and monitored outcomes in<br>a registry.   |
|                            | Results  |
|                            | The first 53 patients have completed 6-months post EndoBarrier removal and of these 43/53 (81%) (age 51.6±6.4years, 58.1% male, 53.5% europid, diabetes duration 12.0(6.0-20.0)years, 60.5% insulin-treated, BMI 42.0±8.3kg/m2) attended follow-up. During EndoBarrier implantation, mean±SD HbA1c fell by 2.4±2.0 %, from 9.8±2.0 to 7.4±1.2 %(p<0.001), weight by 15.7±8.9kg from 123.9±30.1 to 108.1±31.4kg (<0.001), systolic BP from 139.6±15.6 to 125.4±14.8mmHg(<0.001), cholesteroi from 4.8±1.5 to 3.9±0.9mmol/L(p<0.001) and serum alanine-aminotransferase (marker of liver fat) from 30.6±19.4 to 19.0±10.2U/L(p<0.001) total daily insulin does reduced from 19(58.5-145.5) to 30(0-72.5)units(p< 0.001). 8/26(30.8%) insulin treated patients discontinued insulin. 6-months post-EndoBarrier, 29/43(67%) had maintained the improvement (Fig 1a). Of the 14 whose weight and/or HbA1c deteriorated (Fig 1b), 9/14(64%) had depression or bereavement. 6/53 (11.3%) patients had early Endobarrier-removal: 4 GI bleed, 1 liver abscess and 1 GI symptoms. All 6 had full recovery after removal and most experienced benefit despite the setback. All other patients achieved a full year of EndoBarrier treatment. |



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