These patients are typical of our Endobarrier treated patients. The ones we included here are often the ones demonstrating additional benefits over above weight and HbA1c.
Before

- HbA1c 109 mmol/mol (12.1%)
- Weight 136.9 kg
- BMI 44.7 kg/m²

12 months After

- HbA1c 58 mmol/mol (7.5%)
- Weight 115.0 kg
  =Weight loss 21.9 kg (nearly 3.5 stone)
- BMI 37.6 kg/m²
• HbA1c 70 mmol/mol (8.6%)
• Weight = 82.9 kg
• ALT = 86 U/L (Fatty liver)
• BMI = 33.6 kg/m² (Obese BMI)

Before

12 months After

• HbA1c 51 mmol/mol (6.8%)
• Weight = 62.2 kg
  = Weight loss 20.7 kg (over 3 stone)
• ALT = 18 U/L (normal)
• BMI = 24.8 kg/m² (Normal BMI)
Before

- HbA1c 77 mmol/mol (9.2%)
- Weight = 105.6 kg
- BMI = 35.3 kg/m²
- Insulin 100 units

12 months After

- HbA1c 40 mmol/mol (5.8%)
- Weight 80.0 kg = Weight loss 25.6 kg (over 4 stone)
- BMI 26.7 kg/m²
- Insulin no longer required
Before

- HbA1c 61 mmol/mol (7.7%)
- Weight = 86.6 kg
- BMI = 35.1 kg/m²
- Insulin 120 units daily
- Obstructive sleep apnoea requiring CPAP

12 months After

- HbA1c 43 mmol/mol (6.1%)
- Weight = 65.6 kg
- =weight loss 21.0kg (over 3 stone)
- BMI = 26.2 kg/m²
- Insulin 12 units daily
- CPAP no longer required
• HbA1c 76 mmol/mol (9.1%)
• Weight = 116.4 kg
• BMI = 38.0 kg/m²
• Insulin 42 units daily
• Idiopathic interstitial pneumonitis requiring ambulatory oxygen therapy

Before

• HbA1c 49 mmol/mol (6.6%)
• Weight = 88 kg
  = Weight loss 28.4 kg (4.5 stone)
• BMI = 28.8 kg/m²
• Insulin no longer required
• Ambulatory oxygen therapy no longer required

12 months After
Before

- HbA1c = 112 mmol/mol (12.4%)
- Weight = 102.4 kg
- BMI = 34.4 kg/m²

12 Months

- HbA1c = 45 mmol/mol (6.3%)
- Weight = 91 kg
  - = Weight Loss 11.4 Kg (nearly 2 stone)
- BMI = 30.5 kg/m² (Obese)
Before

- HbA1c = 82 mmol/mol (9.7%)
- Wt = 86.4 kg
- BMI = 36.4 kg/m² (Obese BMI)
- On sulphonylurea

12 months After

- HbA1c = 42 mmol/mol (6.0%)
- Wt = 53.6 kg
  - Weight loss 32.8 kg (over 5 stone)
- BMI = 22.6 kg/m² (Normal BMI)
- No longer requires sulphonylurea

- “EndobARRIER was the best thing I have ever done”
- HbA1c = 97 mmol/mol (11%)
- Wt = 124.6 kg
- BMI = 39.0 kg/m²
- Maximum dose sulphonylurea

12 months After

- HbA1c = 50 mmol/mol (6.7%)
- Wt = 106.8 kg
  =Weight loss 17.8 kg (nearly 3 stone)
- BMI = 33.7 kg/m²
- No longer requires sulphonylurea
- “Endobarrier has transformed my life”
Before

- HbA1c = 51 mmol/mol (6.8 %)
- Weight = 114.9 kg (18.9 stone)
- BMI = 37.1 kg/m²
- Insulin 85 units

12 Months

- HbA1c = 55 mmol/mol (7.2 %)
- Weight = 85 kg (13.4 stone)
  - = Weight loss 29.9 Kg (4.7 stone)
- BMI = 27.5 kg/m²
- Insulin no longer required
- HbA1c = 64mmol/mol (8%)
- Wt = 98.2kg
- BMI = 31.3kg/m² (Obese BMI)
- Insulin 80 units daily
- Professional driver (Taxis but would like to drive HGV)

Before

- HbA1c = 57mmol/mol (7.4%)
- Wt = 76.8kg
- Weight loss 21.4 kg (well over 3 stone)
- BMI = 24.2kg/m² (Normal BMI)
- Insulin no longer required
- Now off insulin so can drive heavy goods vehicles without issue which was his ambition

12 months After
Before:

- HbA1c = 69 mmol/mol (8.5 %)
- Wt = 92.4 kg
- BMI = 36 kg/m²
- Insulin 147 units daily
- Creatinine 153 umol/L
- eGFR 30 mL/min/1.73m²

12 months After:

- HbA1c = 50 mmol/mol (6.7 %)
- Wt = 73 kg = **weight loss 19.4 kg (3 stone)**
- BMI = 27 kg/m²
- Insulin no longer required
- Creatinine 106 umol/L
- eGFR 46 mL/min/1.73m²
Before

- HbA1c = 88 mmol/mol (10.2 %)
- Wt = 128.2 kg
- BMI = 36.5 kg/m²
- Insulin 560 units daily
- Creatinine 348 umol/L
- eGFR 16 mL/min/1.73m²

12 months After

- HbA1c = 61 mmol/mol (7.7 %)
- Wt = 108.9 kg = weight loss 20.7 kg (over 3 stone)
- BMI = 31.1 kg/m²
- Insulin 140 units daily
- Creatinine 281 umol/L
- eGFR 20 mL/min/1.73m²
Before

- HbA1c = 54 mmol/mol (7.1%)
- Weight = 167.8 kg (26.4 stone)
- BMI = 47.5 kg/m$^2$
- Insulin 210 units

12 months After

- HbA1c = 48 mmol/mol (6.5%)
- Weight = 143.1 kg (22.5 stone)
  - = Weight loss 24.7 Kg (nearly 4 stone)
- BMI = 40.1 kg/m$^2$
- Insulin 40 units
• HbA1c 128 mmol/mol (13.9%)
• Weight = 102 kg
• BMI = 39.3 kg/m$^2$ (**Obese BMI**)
• Insulin 260 units

12 months After

• HbA1c 49 mmol/mol (6.6%)
• Weight 64.2 kg
  =Weight loss 37.8 kg (nearly 6 stone)
• BMI 24.46 kg/m$^2$ (**Normal BMI**)
• Insulin no longer required
To maintain 260 units of insulin/day she required to use 316 insulin pens per year = £2553.44 or more
• 1,095 blood glucose tests/year (at least £440 = cheapest)
• 1,460 pen needles/year (at least £89.25)
• 1,095 lancing devices/year (at least £71.06)
• 3 sharps bins for sharps disposal/year (at least £35)
- Insulin 260 units = cost at least £3188.75/year
- NO Insulin = Cost saving at least £3188.75/year
Some of the above patients have now reached one year or more after removal of Endobarrier:
• HbA1c 128 mmol/mol (13.9%)
• Weight = 102 kg
• BMI = 39.3 kg/m² (Obese BMI)
• Insulin 260 units

• HbA1c 49 mmol/mol (6.6%)
• Weight 64.2 kg
  =Weight loss 37.8 kg (nearly 6 stone)
• BMI 24.46 kg/m² (Normal BMI)
• Insulin no longer required

• HbA1c 59 mmol/mol (7.5%)
• Weight 67.6 kg
• BMI 25.7 kg/m²
• Remains off Insulin:
  • 474 insulin pens avoided
Before

- HbA1c 77 mmol/mol (9.2%)
- Weight = 105.6 kg
- BMI = 35.3 kg/m²
- Insulin 100 units

12 months

- HbA1c 40 mmol/mol (5.8%)
- Weight 80.0 kg
- Weight loss 25.6 kg (over 4 stone)
- BMI 26.7 kg/m²
- Insulin no longer required

24 months

- HbA1c 33 mmol/mol (5.2%)
- Weight 81.02 kg
- BMI 27 kg/m²
- Still off insulin - improvement sustained
• Pre-endobarrier
  • HbA1c = 61 mmol/mol (7.7%)
  • Wt = 86.6 kg
  • BMI = 35.1 kg/m²
  • Insulin 120 units daily
  • Obstructive sleep apnoea requiring CPAP

12 months

• 12 months Endobarrier
  • HbA1c = 43 mmol/mol (6.1%)
  • Wt = 65.6 kg
    – Wt loss 21.0 kg (over 3 stone)
  • BMI = 26.2 kg/m²
  • Insulin 12 units daily
  • CPAP no longer required

24 months

• 12 months after Endobarrier
  • HbA1c = 57 mmol/mol (6.1%)
  • Wt = 66.2 kg
  • BMI = 27.2 kg/m²
  • Insulin 16 units daily
  • Remains off CPAP
- Pre-endobarrier
- HbA1c = 76 mmol/mol (9.1%)
- Wt = 116.4 kg
- BMI = 38.0 kg/m²
- Insulin 42 units daily
- Idiopathic interstitial pneumonitis requiring ambulatory oxygen therapy

- 12 months Endobarrier
- HbA1c = 49 mmol/mol (6.6%)
- Wt = 88 kg
  - Wt loss 28.4 kg (4.5 stone)
- BMI = 28.8 kg/m²
- Insulin no longer required
- Ambulatory oxygen therapy no longer required

- 12 months after Endobarrier
- HbA1c = 47 mmol/mol (6.5 %)
- Wt = 92.2 kg
- BMI = 30 kg/m²
- Regular gym – muscles building up
- Sill off insulin and ambulatory oxygen - improvement sustained
• HbA1c = 69 mmol/mol (8.5%)
• Wt = 92.4 kg
• BMI = 36 kg/m²
• Insulin 147 units daily
• Creatinine 153 umol/L
• eGFR 30 mL/min/1.73m²

Before

• HbA1c = 50 mmol/mol (6.7%)
• Wt = 73 kg
  – weight loss 19.4 kg (3 stone)
• BMI = 27.1 kg/m²
• Insulin no longer required
• Creatinine 106 umol/L
• eGFR 46 mL/min/1.73m²

12 months

• HbA1c = 55 mmol/mol (6.7%)
• Wt = 74.6 kg
• BMI = 27.7 kg/m²
• Remains off insulin
• Creatinine 116 umol/L
• eGFR 41 mL/min/1.73m²

24 months
Before

• Pre-endobarrier
• HbA1c = 70 mmol/mol (8.6%)
• Wt = 82.9 kg
• BMI = 33.6 kg/m²
• ALT = 86 U/L (Fatty liver)
• Obese BMI

12 months

• 12 months Endobarrier
• HbA1c = 51 mmol/mol (6.8%)
• Wt = 62.2 kg
  → Wt loss 20.7 kg (over 3 stone)
• BMI = 24.8 kg/m²
• ALT = 18 U/L (normal)
• Normal BMI

3.5 years

• 42 months after Endobarrier
• HbA1c = 48 mmol/mol (6.5%)
• Wt = 61.0 kg
• BMI = 24.4 kg/m²
• ALT = 11 U/L
• Improvement sustained
HbA1c = 75 mmol/mol (9 %)
Weight = 109.4 kg
BMI = 43.8 kg/m² (obese)
Insulin 96 units

HbA1c = 47 mmol/mol (6.4%)
Weight = 90 kg
= Weight loss 19.4 Kg (over 3 stone)
BMI = 36.2 kg/m²
Insulin 22 units

HbA1c = 54 mmol/mol (7.1%)
Weight = 86.4 kg
BMI = 34.8 kg/m²
Insulin no longer required

*EndoBarrier removed after 6 months because of pain – at explant the device was found to have migrated. Nevertheless she experienced considerable benefit from the 6 months with EndoBarrier and would strongly recommend the treatment.
Before

- HbA1c = 66 mmol/mol (8.2%)
- Weight = 83.8 kg
- BMI = 32.77 kg/m² (obese)

12 Months

- HbA1c = 54 mmol/mol (7.1%)
- Weight = 68.8 kg
- = Weight loss 15 Kg (nearly 2.5 stone)
- BMI = 26.9 kg/m²

4 Years

- HbA1c = 45 mmol/mol (6.3%)
- Weight = 69.8 kg
- BMI = 27.3 kg/m²