**Introduction:**
To improve protein and energy delivery in a nutrition delivery bundle was introduced to a Level 3 ICU. Greater protein and energy intake is associated with improved outcomes in the critically ill [1-4], but only 50% of prescribed protein and energy is delivered in ICUs worldwide [5,6].

**Methods:**
Percentage of target protein and energy delivery was measured via participation in the International Nutrition Survey (INS) before and after a “nutrition delivery bundle” was introduced by the ICU dietitian. The nutrition delivery bundle involved all stakeholders in ICU nutrition care (Figure 1) and included the following quality improvement measures: increased ICU dietetic staffing, update of ICU Enteral Feeding Protocol with staff education, use of higher protein formulations, earlier patient nutrition assessment, daily calculation of percentage nutrition delivery, increased nutrition communication through more regular discussion of patient care with medical team, expansion of choice of nasojejunal tube available, 6 monthly reporting of key nutrition performance indicators, improved resources for cover dietitian(s) when ICU dietitian on leave (Figure 2).

**Results:**
Prior to a nutrition delivery bundle being introduced the Mater Misericordiae University Hospital (MMUH) ICU achieved 59% of protein and 62% of energy targets over the first 12 admission days of 20 consecutive mechanically ventilated patients in ICU >72hrs enrolled in the International Nutrition Survey. This increased to 75% of protein and 79% of energy targets in 2014 (Table 1).

**Conclusion:**
A 27% improvement in protein and energy delivery to critically ill patients was seen after the introduction of a dietitian-led nutrition delivery bundle.

**References:**

**Table 1:**

<table>
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<th>MMUH 2014</th>
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<td>% Energy target achieved</td>
<td>79</td>
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<td>62</td>
<td>64</td>
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<tr>
<td>% Protein target achieved</td>
<td>75</td>
<td>54</td>
<td>59</td>
<td>60</td>
</tr>
</tbody>
</table>

*International Nutrition Survey Results 2011 and 2014. MMUH, Mater Misericordiae University Hospital*
Stakeholders involved. ICU, intensive care unit; SLT, speech and language therapy; NCHDs, non-consultant hospital doctor.

**Image 2:**

Nutrition Delivery Bundle. ICU, intensive care unit; HDU,
high dependency unit; GAV, gastric aspirate volume; NJ, nasojugal; PN, parenteral nutrition; EN, enteral nutrition