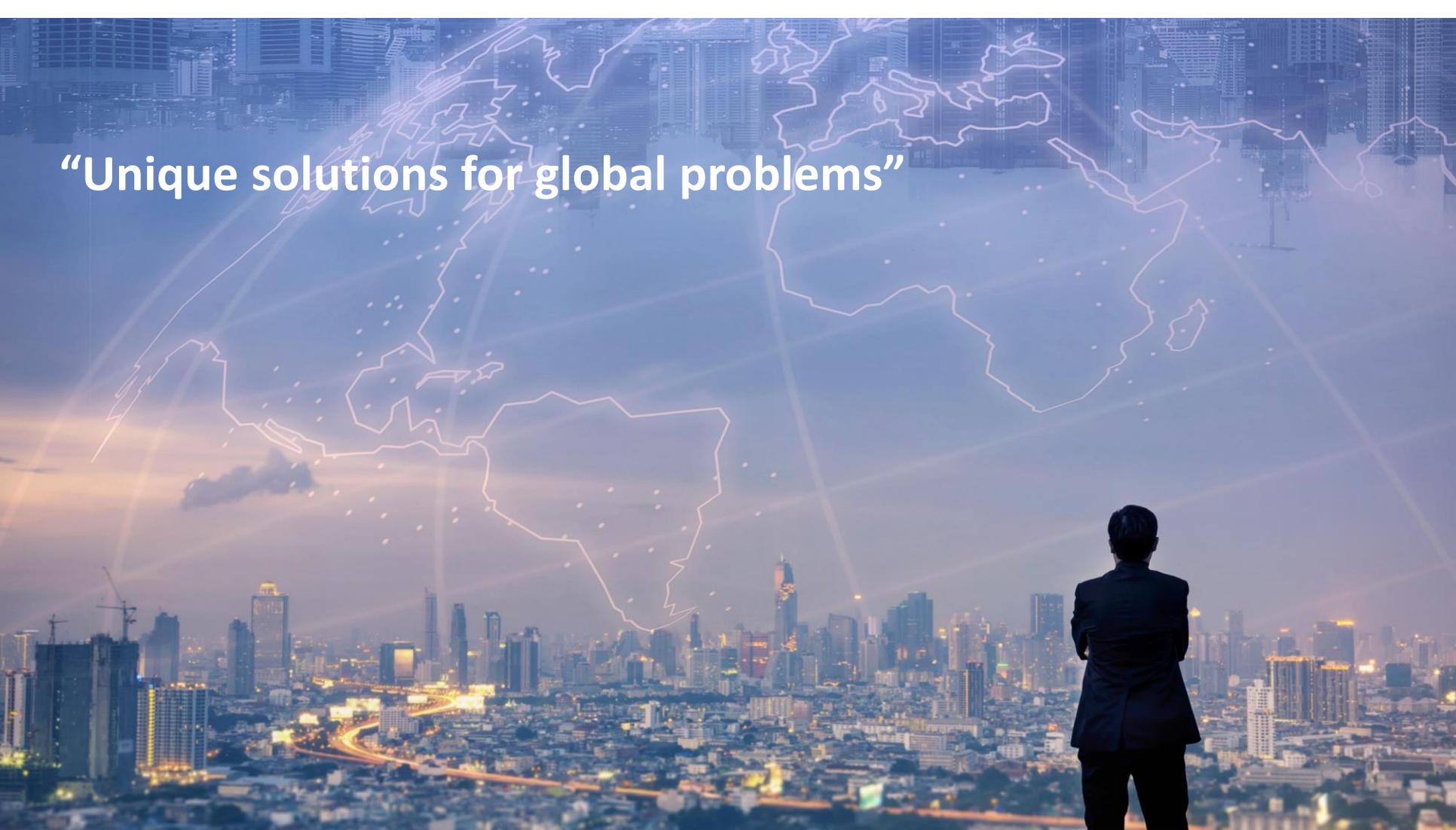


“Unique solutions for global problems”

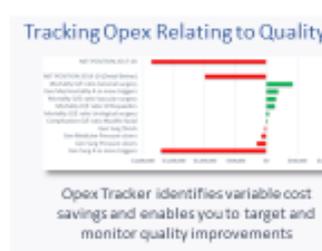
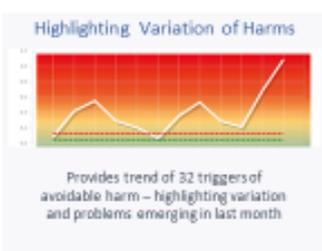
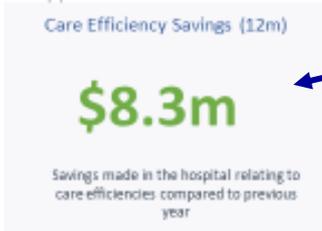


Driven to enable every hospital to improve outcomes for patients –
reducing clinical variation, preventing avoidable harm & saving money

The Harris Opex Tracker findings are highlighted in reporting to inform decision making and improvements



Our monthly and annual reports to boards/clinicians to track progress and highlight issues, even to enable valid comparison of individual practitioner performance and approach



The diagram shows the categories of reporting with the future savings shown as a headline figure and highlights for the more major areas.

This is about identifying the major issue areas that management can consider and providing the dual insight of clinical quality areas for improvement alongside estimates of the financial impact of those issues.

In deal terms, the greater the potential savings, the more potential 'hidden' value there is to unlock.

IDENTIFYING VARIATION, AVOIDABLE HARM/MORTALITY

METHODOLOGY

1. CRAB full baseline audit appraises quality of outcomes across hospital care for hospitals involved in the transaction (including 'acquirer hospitals') to baseline potentials for capturing synergies.
2. Findings from this are used to identify avoidable harm and therefore (in-)efficiencies.
3. Levels of improvement are calculated against 'expected' levels – e.g. achieving the upper threshold level for our range for a particular trigger or achieving a 1.0 observed to expected ratio for complications/mortality. Calculations are at specialty/complication level and aggregated up to provide headline numbers.
4. A range of costs will be generated by avoidable harms, but most are excluded to ensure estimates calculated are conservative. Therefore potential savings are fully deliverable.
5. Key cost categories, against which known costs can be directly associated including:
 - HDU/ITU escalation costs
 - Return to theatre / unnecessary surgery & equipment usage
 - Use of disposables/consumables to treat avoidable harms
6. These are measured by drivers identified by the CRAB analysis including:
 - Clinically risk-adjusted surgical mortality/complications (overall and by specialty)
 - Specific surgical complication rates against established clinical norms
 - Specific medical and nursing based performance triggers indicative of avoidable harm/morbidity/LoS (disaggregated according to surgical and medical patients)

CALCULATION OF RESULTS

Results are calculated as a high level “P&L”, highlighting the service areas where poorer care is generating avoidable harm and cost-pressures (as well as services which are saving lives and generating relative savings in operating expenditure).

These are then replayed in the reporting package (preliminary baseline analysis supporting transaction/valuation etc., and monthly board reports if supporting capturing synergies).

The associated CRAB analysis will identify root cause and clear remedial action.

The proprietary calculation process works simply (as follows):

- Categories are selected according to known weighted importance in relation to outcomes/significant harm (e.g. AKI for general medicine patients, gynecological complication O/E ratio)
- The cost per episode (\$) is defined
 - This is calculated for each geography.
 - Deliberately conservative: based on known variable/avoidable costs created by additional treatments, meds, reoperation rates etc
- Indicator values are defined for each category – e.g. Observed to Expected (O/E) ratio for surgery, trigger incidence for medical & nursing care. The relationship of each category value to ‘normal ranges’ (i.e. whether inside or outside) drives the level of savings/cost pressures created
- Comparison of derived values by category to the target threshold values to identify a saving or cost pressure for each category
- **TOTAL ANNUAL COST PRESSURE** Totaled from the potential category by category savings by achieving ‘normal’ performance threshold

Retrospective headline lives saved, avoidable deaths and avoidable harm numbers for the reporting period are calculated from the same analysis

- Positive numbers in mortality categories indicate lives saved by good quality care. Negative numbers indicate potentially avoidable deaths. These are the figures highlighted in the high-level reporting
- Totaling negative numbers in surgical complications and non-mortality trigger categories provides calculation of avoidable harms

| | This Month | Last Month | Average For Year |
|---------------------|------------|------------|------------------|
| Women Delivered | 504 | 504 | 498.8 |
| Babies Born | 560 | 514 | 508.2 |
| Multiple Birth Rate | 1.08% | 1.98% | 1.84% |
| Preterm Rate | 12.68% | 12.45% | 12.59% |
| > Preterm Rate | 3.39% | 4.09% | 3.66% |
| SCBU at Term Rate | 6.07% | 6.03% | 5.00% |
| Stillbirth Rate | 0.00% | 0.39% | 0.16% |

| | TARGET | This Month | Last Month | Average For Year |
|-----------------------------|--------|------------|------------|------------------|
| Induction of Labour | 43.00% | 43.90% | 41.32% | 51.40% |
| Caesarean Overall Rate | 26.00% | 24.47% | 23.59% | 21.61% |
| Caesarean Elective Rate | 12.00% | 6.30% | 6.49% | 6.03% |
| Caesarean Robson 1, 2 and 5 | 33.00% | 35.33% | 29.24% | 25.94% |
| Caesarean Emergency Rate | 14.00% | 13.81% | 12.59% | 11.40% |
| Operative Vaginal Delivery | 16.00% | 14.63% | 12.91% | 12.49% |
| Maternal ITU Admission | 0.30% | 0.02% | 0.00% | 0.02% |
| APGAR < 7 at 5 mins | 4.00% | 0.93% | 1.32% | 0.98% |
| Post-Partum Haemorrhage | 15.00% | 13.95% | 12.50% | 10.34% |

| CONSULTANT | PERFORMANCE | | | RISK ADJUSTED | WARNING LEVEL |
|------------|----------------|-----------------|----------|-----------------------|---------------|
| | COVID-19 CASES | COVID-19 DEATHS | % Deaths | O/E Ratio - Mortality | |
| Hospital A | 333 | 142 | 42.6% | 1.27 | 🔴⚪ |
| Hospital B | 360 | 126 | 35.0% | 1.02 | 🟡⚪ |
| Hospital C | 312 | 94 | 30.0% | 1.11 | 🔴⚪ |
| Hospital D | 392 | 134 | 34.3% | 1.13 | 🟡⚪ |
| Hospital E | 169 | 88 | 52.3% | 1.47 | 🔴⚪ |
| Hospital F | 411 | 146 | 35.4% | 1.12 | 🟡⚪ |
| Hospital G | 313 | 87 | 27.7% | 0.81 | 🟢⚪ |
| Hospital H | 462 | 137 | 29.6% | 1.1 | 🟡⚪ |
| Hospital I | 214 | 69 | 32.1% | 1.13 | 🟡⚪ |
| Hospital J | 414 | 149 | 35.9% | 0.97 | 🟢⚪ |

