

Contents

Preface	5	Combating Data Quackery	41
		3. Keep it Simple	43
What is Data Quackery?	7	3.1 Understanding Variation	44
1. Defining Data Quackery	9	3.2 What to Collect, Analyse and Report	48
1.1 Management by Little Red Circles	9	3.3 Linking Metrics to Vision and Mission	50
1.2 Management Reports	10	3.4 Measure the Work, not the People	53
1.3 Red, Amber, Green (RAG)	12	3.5 Key Questions	54
1.4 Ratios	12	3.6 Tampering	54
1.6 Billy No (Data) Mates	14	3.7 Summary	56
1.7 Bar Charts	15		
1.8 Trend Lines	17	Simple Data Analysis	57
1.9 Scatter Plots	18	4. The Need for Analysis	59
1.10 Data Manipulation	20	4.1 Pareto Chart	60
1.11 Target Lines	21	4.2 Histograms	62
1.12 Pie Charts	22	4.3 Run Chart	68
1.14 Too Much Information	23	4.4 Process Behaviour Chart	73
1.15 The Technicolour Chart	24	4.5 Working through an Example	76
1.17 Data Quackery Everywhere	25	4.6 Summary	80
1.18 Summary	26		
The Dark Side of Metrics	27	Conclusions	81
2. Best Intentions, Poor Results	29	Driving the Wrong Behaviours	82
2.1 Improving the Numbers	29	Recognising Data Quackery	82
2.2 The Scourge of Numerical Targets	30	Data Quackery Workshop and/or Training	83
2.3 Performance Management	33	Appendix	85
2.4 The Role of Competition	35	A1. How to Plot and Analyse a Run Chart	86
2.5 League Tables	36	A2. The Process Behaviour Chart	89
2.6 Benchmarking	38		
2.7 Inspection, Auditing and Testing	39	References	93
2.8 A Better Way	39		
2.9 Summary	40	Index	94