Pharmaceutical Marketing Assessment

(Data Analysis Dashboards and KPI's)

1. Sales and data overview

Precription Sales (Units)

#Physicians

#Sales Rep Details

#Free Samples

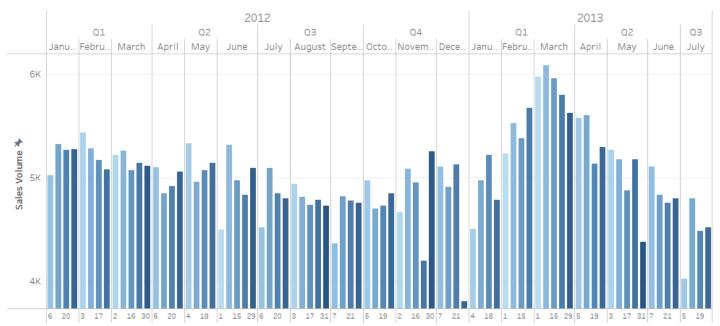
411,655

5,000

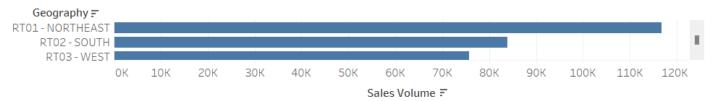
154,687

550,538

Sales by Week

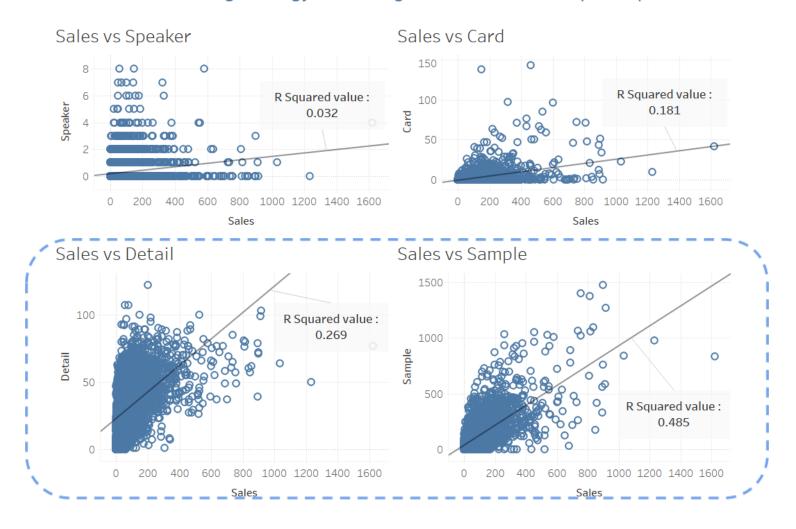


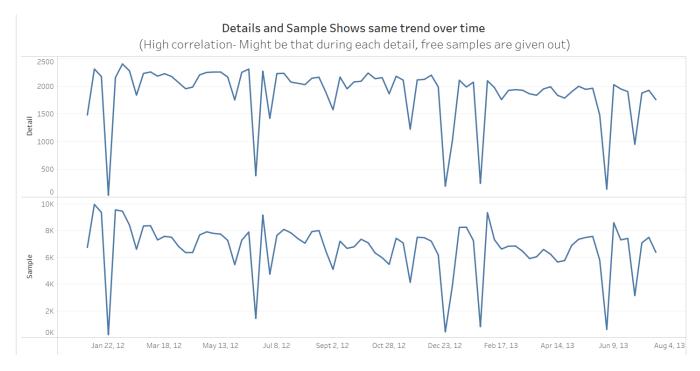
Sales By Region



2. Correlation of marketing activities

Which Marketing Strategy has the highest correlation with prescription?

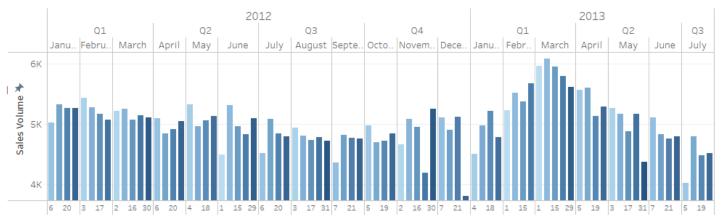




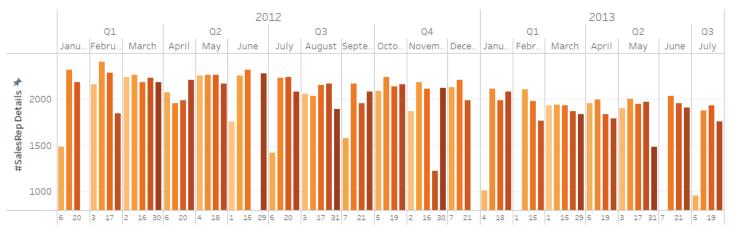
3. Analyzing Each Marketing strategy V.S. Sales (Grouped on Region & Industry ranking)

How does Sales Representative Details Impact Sales?

SalesbyWeek



Details by Week



Sales by Region

| | | Industry Decile Ranking | | | | | | | | |
|--------------------|-----|-------------------------|--------|--------|--------|--------|--------|--------|--------|--------|
| Geography | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 |
| na | 2 | | | | | | | | | |
| PR00 - PUERTO RICO | | | | 124 | | | | | | 515 |
| RT01 - NORTHEAST | 180 | 4,120 | 11,783 | 17,004 | 18,431 | 18,312 | 14,623 | 14,821 | 12,287 | 5,215 |
| RT02 - SOUTH | 209 | 2,015 | 6,586 | 10,125 | 12,610 | 10,459 | 11,958 | 11,485 | 7,398 | 11,113 |
| RT03 - WEST | 134 | 2,286 | 7,840 | 9,053 | 9,253 | 11,907 | 11,030 | 6,707 | 9,739 | 7,719 |
| RT04 - CENTRAL | 109 | 1,634 | 5,342 | 8,376 | 10,231 | 11,343 | 9,509 | 7,979 | 6,190 | 4,361 |
| RT05 - GREAT LAKES | 127 | 2,148 | 7,217 | 9,668 | 11,436 | 10,812 | 11,225 | 6,178 | 7,542 | 3,188 |

KPI: Sales Volume per Detail

| | Industry Decile Ranking | | | | | | | | | | |
|--------------------|-------------------------|------|------|------|------|------|------|------|------|-------|---------|
| Geography | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | Grand T |
| na | 0.40 | | | | | | | | | | 0.10 |
| PRO0 - PUERTO RICO | | | | 3.66 | | | | | | 12.87 | 8.64 |
| RT01 - NORTHEAST | 0.56 | 1.44 | 1.74 | 2.05 | 2.41 | 2.94 | 3.39 | 4.16 | 5.08 | 8.53 | 2.71 |
| RT02 - SOUTH | 0.78 | 1.43 | 1.57 | 1.69 | 2.31 | 2.67 | 3.27 | 4.69 | 5.07 | 7.77 | 2.78 |
| RT03 - WEST | 0.97 | 1.09 | 1.61 | 1.66 | 1.87 | 2.48 | 2.74 | 3.97 | 4.88 | 10.17 | 2.46 |
| RT04 - CENTRAL | 0.99 | 1.85 | 1.83 | 2.07 | 2.22 | 2.97 | 3.26 | 3.90 | 4.89 | 7.34 | 2.80 |
| RT05 - GREAT LAKES | 0.93 | 1.54 | 1.66 | 1.82 | 2.33 | 2.52 | 3.23 | 3.40 | 6.62 | 6.20 | 2.54 |
| Grand Total | 0.78 | 1.41 | 1.68 | 1.87 | 2.25 | 2.72 | 3.17 | 4.08 | 5.21 | 8.13 | 2.66 |

#Details per Physician

| Industry. | . Geography | Sales Volume | #SalesRep Details | SalesVol_per_Detail | #Detail_per_Physician |
|-----------|--------------------------------------|--------------|-------------------|---------------------|-----------------------|
| 1 | na | 2 | 5 | 0.4 | 1 |
| | RT01 - NORTHEAST | 180 | 321 | 0.6 | 6 6 3 |
| | RT02 - SOUTH | 209 | 268 | 0.8 | 6 |
| | RT03 - WEST | 134 | 138 | 1.0 | 3 |
| | RT04 - CENTRAL | 109 | 110 | 1.0 | 4 |
| | RT05 - GREAT LAKES | 127 | 137 | 0.9 | 4 3 15 13 |
| 2 | RT01 - NORTHEAST | 4,120 | 2,866 | 1.4 | 15 |
| | RT02 - SOUTH | 2,015 | 1,412 | 1.4 | 13 |
| | RT03 - WEST | 2,286 | 2,095 | 1.1 | 15 |
| | RT04 - CENTRAL | 1,634 | 881 | 1.9 | 11 |
| | RT05 - GREAT LAKES | 2,148 | 1,399 | 1.5 | 11 |
| 3 | RT01 - NORTHEAST | 11,783 | 6,789 | 1.7 | 24 |
| | RT02 - SOUTH | 6,586 | 4,182 | 1.6 | 26 26 |
| | RT03 - WEST | 7,840 | 4,872 | 1.6 | 26 |
| | RT04 - CENTRAL | 5.342 | 2.927 | 1.8 | 21 |
| | RT05 - GREAT LAKES | 7,217 | 4,351 - | 1.7 | 23 |
| 4 | PR00 - PUERTO RICO | 124 | 34 | 3.7 | 17 |
| | RT01 - NORTHEAST | 17.004 | 8.296 | 2.0 | 33 |
| | RT02 - SOUTH | 10,125 | 5,993 | 1.7 | 33 |
| | RT03 - WEST | 9,053 | 5,457 | 1.7 | 36 |
| | RT04 - CENTRAL | 8,376 | 4.051 | 2.1 | 28 |
| | RT05 - GREAT LAKES | 9,668 | 5,305 | 1.8 | 30 |
| 5 | RT01 - NORTHEAST | 18,431 | 7,636 | 2.4 | 39 |
| 3 | RT02 - SOUTH | 12,610 | 5,459 | 2.3 | 39 37 |
| | RT03 - WEST | 9,253 | 4,939 | 1.9 | 41 |
| | RT04 - CENTRAL | 10,231 | 4,599 | 2.2 | 34 |
| | RT05 - GREAT LAKES | 11,436 | 4,899 | 2.3 | 34 34 |
| 6 | RT01 - NORTHEAST | 18,312 | 6,239 | 2.9 | 39 |
| 0 | RT02 - SOUTH | 10,459 | 3 921 | 2.7 | 39 41 42 |
| | RT03 - WEST | 11.907 | 3,921 4,796 | 2.5 | 42 |
| | RT04 - CENTRAL | 11,343 | 3,820 | 3.0 | 37 |
| | RT05 - GREAT LAKES | 10,812 | 4,294 | 2.5 | 39 |
| 7 | RT01 - NORTHEAST | 14,623 | 4.315 | 3.4 | 45 |
| / | RT02 - SOUTH | 11,958 | 3,662 | 3.3 | 42 |
| | RT03 - WEST | 11.030 | 4.021 | 2.7 | 50 |
| | RT04 - CENTRAL | 9,509 | 2.920 | 3.3 | 38 |
| | RT05 - GREAT LAKES | 11,225 | 3,474 | 3.2 | 38 |
| 8 | RT01 - NORTHEAST | 14.821 | 3,563 | 4.2 | 48 |
| 0 | RT02 - SOUTH | 11.485 | 2.448 | 4.2 | 47 |
| | RT03 - WEST | 6,707 | 1,691 | 4.0 | 41 |
| | RT04 - CENTRAL | 7,979 | 2,045 | 3.9 | 44 |
| | RT05 - GREAT LAKES | 6.178 | 1.819 | 3.4 | 49 |
| 9 | RT01 - NORTHEAST | 12,287 | 2.417 | 5.1 | 53 |
| 9 | RT02 - SOUTH | 7,398 | 1,458 | 5.1 | 49 |
| | RT03 - WEST | 9,739 | 1,996 | 4.9 | 55 |
| | | 6,190 | 1,266 | 4.9 | 47 |
| | RT04 - CENTRAL RT05 - GREAT LAKES | 7,542 | 1,139 | 6.6 | 46 |
| 10 | | 515 | 40 | 12.9 | 40 |
| 10 | PROO - PUERTO RICO | 5,215 | 611 | 8.5 | 61 |
| | RT01 - NORTHEAST | 11.113 | 1.430 | 8.5 7.8 | 57 57 |
| | RT02 - SOUTH | 7,719 | | 10.2 | 5/ |
| | RT03 - WEST | | 759 | | 54 |
| | RT04 - CENTRAL | 4,361 | 594 | 7.3 | 46 |
| | RT05 - GREAT LAKES | 3,188 | 514 | 6.2 | 57 |

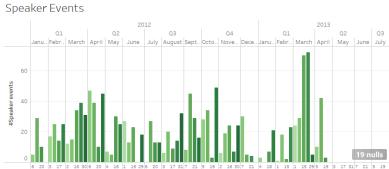
Within the same industry decile ranking, benchmark and compare KPIs, e.g. :

Industry decile 10: West Zone (54 details per physician, makes 10.2 units sold per detail) Vs. Great Lakes (57 details per physician, makes 6.2 units sold per detail.

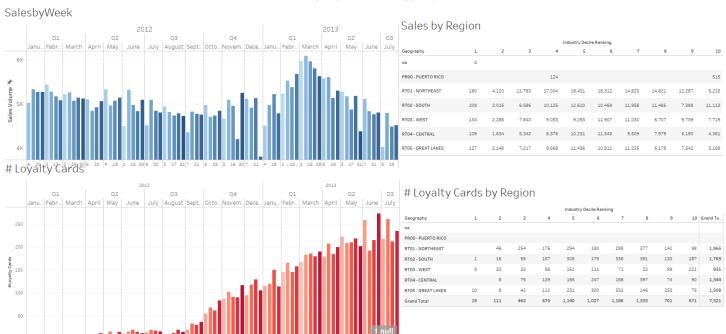
Industry decile 8: West Zone (41 details per physician, makes 4 units sold per detail) Vs. Great Lakes (49 details per physician, makes 3.4 units sold per detail

How does Speaker Programs Impact Sales? (Indicating a Promotional lift around March 2013)



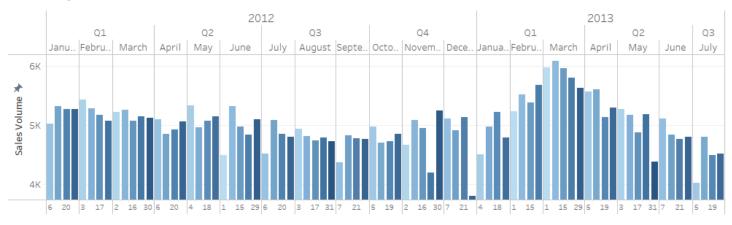


How does the Loyalty Card Strategy Impact Sales?..

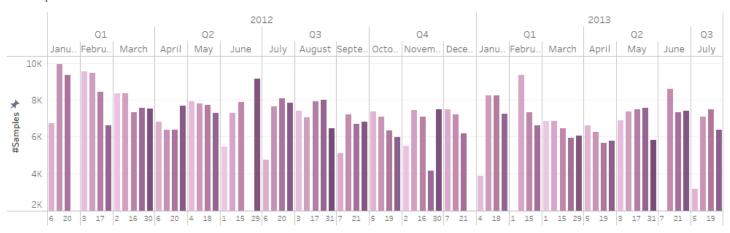


How does the Free Sample strategy Impact Sales? (KPI: #Samples per unit sold)

SalesbyWeek



Samples



Samples by Region & KPI

| | | | | | | Industr | y Decile Rank | kina | | | | |
|-----------------|-----------------|-------|--------|--------|--------|---------|---------------|--------|--------|--------|--------|----------|
| | Geography | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | Grand To |
| #Samples | na | 15 | | | | | | | | | | 15 |
| | PROO - PUERTO R | | | | 154 | | | | | | 602 | 756 |
| | RT01 - NORTHEA | 581 | 6,265 | 18,524 | 24,499 | 27,950 | 24,167 | 19,012 | 17,826 | 11,537 | 3,900 | 154,261 |
| | RT02 - SOUTH | 565 | 3,196 | 10,229 | 17,409 | 17,072 | 15,068 | 13,158 | 12,323 | 6,247 | 11,996 | 107,263 |
| | RT03 - WEST | 226 | 3,784 | 11,433 | 15,474 | 16,344 | 16,928 | 15,821 | 6,653 | 7,974 | 5,567 | 100,204 |
| | RT04 - CENTRAL | 294 | 2,333 | 6,893 | 12,566 | 14,993 | 14,893 | 11,339 | 8,987 | 7,532 | 4,205 | 84,035 |
| | RT05 - GREAT LA | 242 | 3,737 | 11,967 | 15,859 | 16,633 | 17,557 | 15,677 | 10,115 | 8,014 | 4,135 | 103,936 |
| ъ | na | 7.6 | | | | | | | | | | 7.6 |
| Sold | PR00 - PUERTO R | | | | 1.2 | | | | | | 1.2 | 1.2 |
| um.e | RT01 - NORTHEA | 3.2 | 1.5 | 1.6 | 1.4 | 1.5 | 1.3 | 1.3 | 1.2 | 0.9 | 0.7 | 1.3 |
| 8 | RT02 - SOUTH | 2.7 | 1.6 | 1.6 | 1.7 | 1.4 | 1.4 | 1.1 | 1.1 | 0.8 | 1.1 | 1.3 |
| #Samples/Volume | RT03 - WEST | 1.7 | 1.7 | 1.5 | 1.7 | 1.8 | 1.4 | 1.4 | 1.0 | 0.8 | 0.7 | 1.3 |
| Sam | RT04 - CENTRAL | 2.7 | 1.4 | 1.3 | 1.5 | 1.5 | 1.3 | 1.2 | 1.1 | 1.2 | 1.0 | 1.3 |
| # | RT05 - GREAT LA | 1.9 | 1.7 | 1.7 | 1.6 | 1.5 | 1.6 | 1.4 | 1.6 | 1.1 | 1.3 | 1.5 |
| #S | Total | 1,923 | 19,315 | 59,046 | 85,961 | 92,992 | 88,613 | 75,007 | 55,904 | 41,304 | 30,405 | 550,470 |
| #S. | Total | 2.5 | 1.6 | 1.5 | 1.6 | 1.5 | 1.4 | 1.3 | 1.2 | 1.0 | 0.9 | 1.3 |