HAIR OIL

PRESENTED BY-NADEEM KHAN PRASUN RAJPUT

OBJECTIVES

- 1. To analyze the consumers brand preferences for HAIR OIL
- 2. To evaluate consumers attitude towards the usage of HAIR OIL
- 3. To evaluate consumers perception about the important factors pertaining to HAIR OIL purchase decision

HYPOTHESES

 Sales of different brands of hair oil are uniformly distributed
 There is no significant difference among the consumers on the factors like age, gender, and occupation etc towards their attitude about the usage of hair oil.

- 3. Different factors which are important in the purchase decision of hair oil for consumers do not differ significantly.
- 4. Male and Female consumers differ significantly in their perceived importance about the different factors which help them purchase hair oil
- 5. Male and Female consumers differ significantly in their perceived importance about the different sources of information which help them purchase hair oil

Hypothesis 1: Sales of different brands of hair oil are uniformly distributed To test hypothesis 1, chi square test was applied.

| Brand | Count |
|------------|-------|
| Parachute | 31 |
| Keokarpin | 33 |
| Bajaj | |
| Almond | |
| hair oil | 20 |
| Dabar Amla | 12 |
| Dabar | |
| Vatika | 2 |

Chi square value (calculated) = 34.55 Critical Chi square value (0.05, 4) = 9.49Chi square value (calculated) is greater than critical chi square value, hence hypothesis is rejected and it can be concluded that Sales of different brands of hair oil are uniformly distributed. Hypothesis 2(a): There is no significant difference among the consumers of different age groups towards their attitude about the usage of hair oil. To test this hypothesis ANOVA was applied with following results

| Anova: Single Factor | | | | | |
|----------------------------|-------|------|----------|----------|--|
| | | | | | |
| SUMMARY | | | | | |
| Groups | Count | Sum | Average | Variance | |
| Under 18 - | | | | | |
| 25 | 40 | 2105 | 52.625 | 42.08654 | |
| 26-35 | 26 | 1324 | 50.92308 | 29.91385 | |
| 36-45 | 14 | 686 | 49 | 16.15385 | |
| 46-55 | 6 | 292 | 48.66667 | 56.66667 | |
| Above 56 | 12 | 627 | 52.25 | 8.931818 | |

| ANOVA | | | | | | |
|-----------|----------|----|----------|----------|----------|----------|
| Source of | | | | | | |
| Variation | SS | df | MS | F | P-value | F crit |
| Between | | | | | | |
| Groups | 199.971 | 4 | 49.99276 | 1.559756 | 0.191595 | 2.469595 |
| Within | | | | | | |
| Groups | 2980.804 | 93 | 32.05166 | | | |
| | | | | | | |
| Total | 3180.776 | 97 | | | | |

CONCLUSION

Since F calculated is less than F critical at 95% significance level, hence Null hypothesis is accepted.

So, it can be concluded that there is no significant difference among the consumers of different age groups towards their attitude about the usage of hair oil

Hypothesis 2(b): Male and female consumers do not differ significantly on their attitude about the usage of hair oils.

To test this hypothesis z test was applied with following results

| | Mean | n | Z value | Z value critical at .05 and 125 df | Result |
|--------|-------|----|---------|--|-----------------|
| Male | 50.68 | 44 | -1.1 | 1.95 | Insignificant |
| Female | 51.92 | 54 | | | Accept the null |
| | | | | | hypothesis |

CONCLUSION

Since the calculated z value is less than z critical (two tailed) at .05 significance level, hence null hypothesis is accepted and it can be said that there is no significant difference among the male and female consumers towards their attitude about the usage of hair oils.

Hypothesis 2(c): There is no significant difference among the consumers of different occupation towards their attitude about the usage of hair oil.

To test this hypothesis ANOVA was applied with following results

| Anova: Single Factor | | | | | |
|----------------------------|-------|------|----------|----------|--|
| | | | | | |
| SUMMARY | | | | | |
| Groups | Count | Sum | Average | Variance | |
| Student | 16 | 839 | 52.4375 | 26.92917 | |
| Housewife | 26 | 1318 | 50.69231 | 53.18154 | |
| Service | 32 | 1626 | 50.8125 | 27.125 | |
| Business | 16 | 842 | 52.625 | 20.11667 | |
| Professional | | | | | |
| S | 8 | 409 | 51.125 | 34.125 | |

| ANOVA | | | | | | |
|-----------|----------|----|----------|----------|----------|----------|
| Source of | | | | | | |
| Variation | SS | df | MS | F | P-value | F crit |
| Between | | | | | | |
| Groups | 65.79955 | 4 | 16.44989 | 0.491124 | 0.742235 | 2.469595 |
| Within | | | | | | |
| Groups | 3114.976 | 93 | 33.49437 | | | |
| | | | | | | |
| Total | 3180.776 | 97 | | | | |

CONCLUSION

Since F calculated is less than F critical at 95% significance level, hence Null hypothesis is accepted.

So, it can be concluded that there is no significant difference among the consumers of different holding different occupations towards their attitude about the usage of hair oil

Hypothesis 3 : Different factors which are important in the purchase decision of hair oil for consumers do not differ significantly. To test this hypothesis ANOVA was applied with following results

| Anova: Single | | | | |
|--------------------|-------|-----|----------|----------|
| Factor | | | | |
| | | | | |
| SUMMARY | | | | |
| Groups | Count | Sum | Average | Variance |
| Reduces hair fall | 98 | 368 | 3.755102 | 1.238376 |
| Easy to use | 98 | 307 | 3.132653 | 1.353356 |
| Price | 98 | 322 | 3.285714 | 1.340206 |
| Dandruff | | | | |
| protection | 98 | 329 | 3.357143 | 1.448454 |
| Renders shine to | | | | |
| hair | 98 | 308 | 3.142857 | 1.525773 |
| Quality and | | | | |
| purity of the hair | | | | |
| oil | 98 | 318 | 3.244898 | 1.279613 |
| Non Stickiness of | | | | |
| the hair oil | 98 | 305 | 3.112245 | 1.214075 |
| Brand name | 98 | 286 | 2.918367 | 1.498422 |

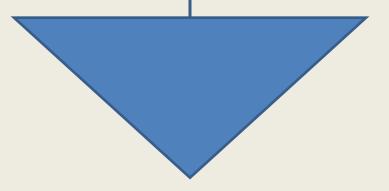
| ANOVA | | | | | | |
|-----------|----------|-----|----------|----------|----------|----------|
| Source of | | | | | | |
| Variation | SS | df | MS | F | P-value | F crit |
| Between | | | | | | |
| Groups | 41.33546 | 7 | 5.905066 | 4.334679 | 0.000101 | 2.021362 |
| Within | | | | | | |
| Groups | 1057.133 | 776 | 1.362284 | | | |
| | | | | | | |
| Total | 1098.468 | 783 | | | | |

CONCLUSION

Since F calculated is greater than F critical at 95% significance level, hence Null hypothesis is accepted.

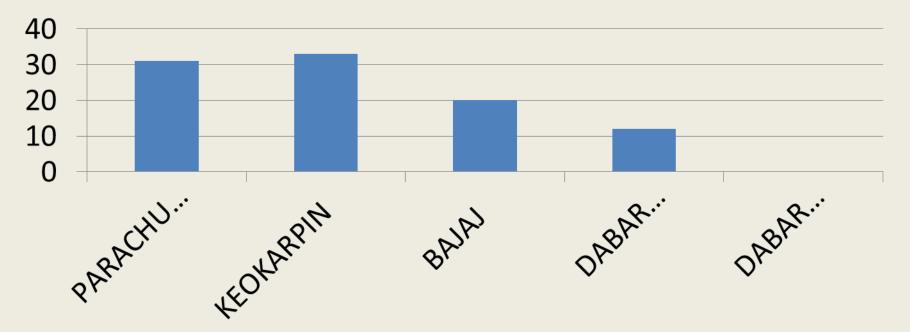
So, it can be concluded that different factors hold different importance in the purchase decision of hair oils.

DISCRIPTIVE ANALYSIS



1. Most popular brand: Keokarpin

| Brand | Count |
|-----------------------|-------|
| Parachute | 31 |
| Keokarpin | 33 |
| Bajaj Almond hair oil | 20 |
| Dabar Amla | 12 |
| Dabar Vatika | 2 |



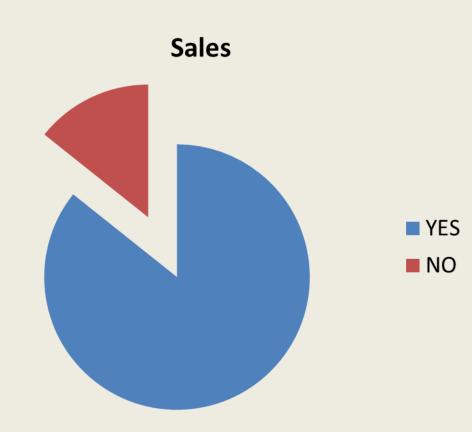
2. Importance of Factors (Comparison of male & Female consumers)

| | Family | Doctors/ | Friends | TV | Magazines | | Internet |
|--------|----------|----------|------------|-----------|-----------|-----------|-----------|
| | Recomme | beauty | and | advertise | and Print | Promotion | blogs and |
| | ndations | clinics | colleagues | ments | Media | campaigns | articles |
| Male | 133 | 146 | 135 | 132 | 114 | 114 | 125 |
| Female | 178 | 182 | 161 | 151 | 160 | 144 | 165 |

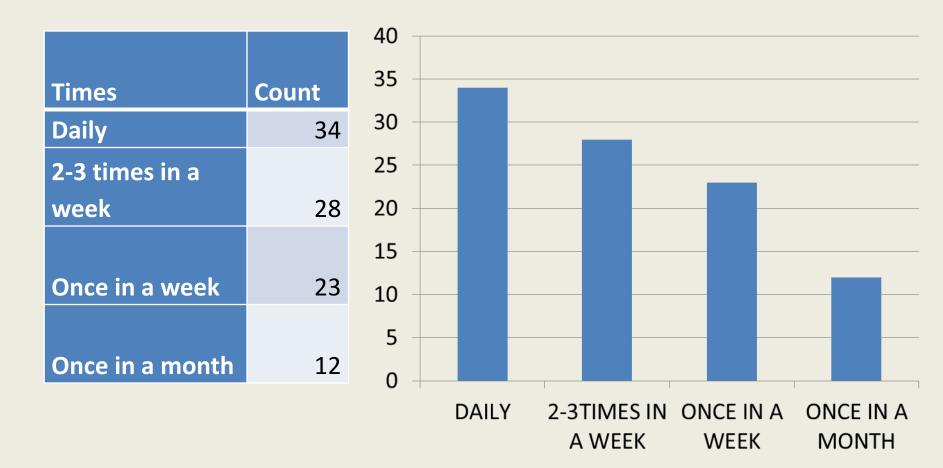
| Total Score | Reduces hair fall | Easy to use | Price | Dandruff protection | Renders shine to hair | Quality and purity of the hair oil | Non Stickiness of the hair oil | Brand name |
|----------------|----------------------|----------------|-------|------------------------|-----------------------------|--|-----------------------------------|---------------|
| Male | 165 | 142 | 137 | 143 | 132 | 140 | 135 | 126 |
| Female | 203 | 165 | 185 | 186 | 176 | 178 | 170 | 160 |

3. Do you use hair oil?

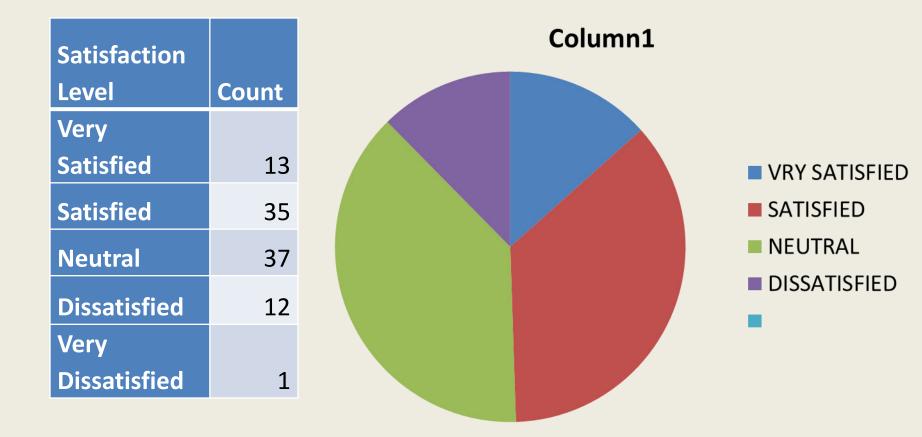
| Response | Count | |
|----------|-------|----|
| Yes | | 84 |
| Νο | | 14 |



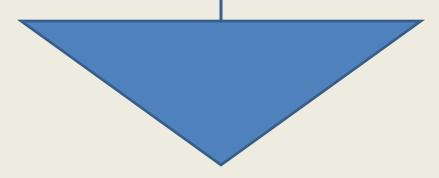
. How many times do you apply oil?



Overall, are you satisfied with the current hair oil brand you are using?



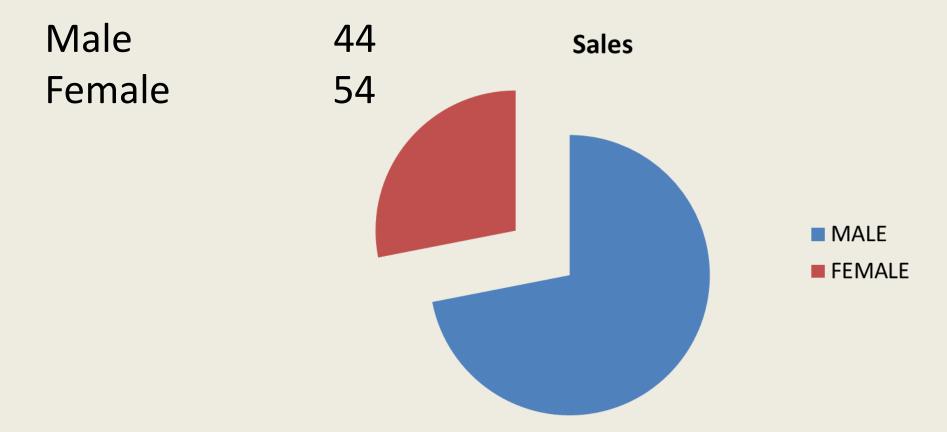
Consumer Profiles



1. Age Profile

| Under 18 - | 40 | | |
|------------|----|--|---|
| 25 | | | |
| 26-35 | 26 | | UNDER 18- 40 26-35 |
| 36-45 | 14 | | 36-45 |
| 46-55 | 6 | | ABOVE 56 |
| Above 56 | 12 | | |

2. Gender



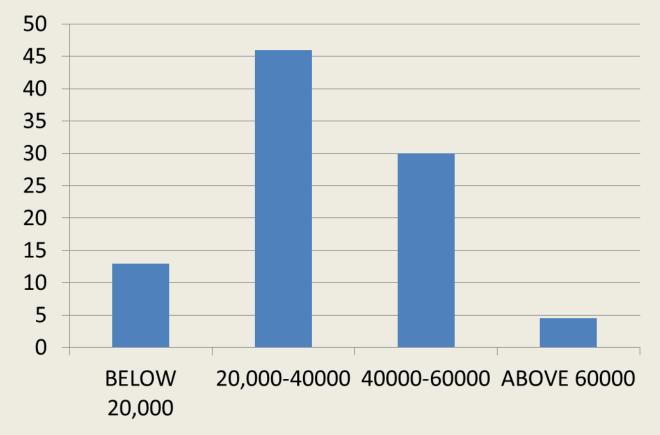
3. Marital Status

Married 63 Unmarried 33

Sales MARRIED UNMARRIED

3. Monthly Family income (Rs.):

| Below 20,000 | 13 |
|---------------|----|
| 20,000-40,000 | 46 |
| 40,001-60,000 | 30 |
| Above 60,000 | 9 |



THANK YOU