# suvi2

### August 10, 2021

```
[1]: import pandas as pd
import numpy as np
import seaborn as sns
import matplotlib.pyplot as plt
import plotly.express as px
```

### 0.1 Import data

```
[3]: rx = pd.read_csv('rx.csv')
```

## 0.2 Merge data

```
[4]: df_all = df_eating.merge(rx, left_on=['date'], right_on=['date'])
    day_number = np.arange(len(df_all))
    df_all['day since vet visit'] = day_number
    #df_all.columns
#df_all['Quantity (oz.)'].tail(20)
```

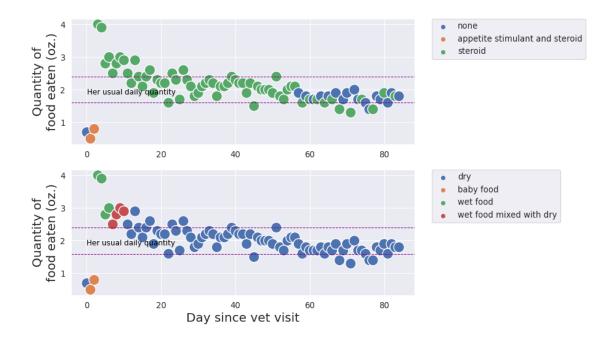
## 0.3 Plot eating data

```
[5]: sns.set(font_scale = 1.2)
fig, axes = plt.subplots(2,1, sharey=True)
fig.suptitle('Baby\'s eating habits since vet visit')
sns.scatterplot(ax = axes[0], data=df_all, y="Quantity (oz.)", x="day since vet_\to \to visit", hue = 'rx', s=300)
axes[0].legend(bbox_to_anchor=(1.05, 1), loc=2, borderaxespad=0.)
axes[0].axhline(1.6, color='purple', linewidth = 1, linestyle='--')
axes[0].axhline(2.4, color='purple', linewidth = 1, linestyle='--')
```

```
axes[0].text(0.1, 1.85, "Her usual daily quantity", horizontalalignment='left', usual daily quantity'', usual daily quant

size='small', color='black')
axes[0].set_xlabel(' ', fontsize=20)
axes[0].set_ylabel('Quantity of\nfood eaten (oz.)', fontsize=20)
#axes[0].legend(loc='lower right')
sns.scatterplot(ax = axes[1], data=df all, y="Quantity (oz.)", x="day since vet_1
  ⇔visit", hue = 'type of food',
                                                s=300)
#plt.legend(loc='lower right')
axes[1].legend(bbox_to_anchor=(1.05, 1), loc=2, borderaxespad=0.)
axes[1].axhline(1.6, color='purple', linewidth = 1, linestyle='--')
axes[1].axhline(2.4, color='purple', linewidth = 1, linestyle='--')
axes[1].text(0., 1.85, "Her usual daily quantity", horizontalalignment='left', u
  ⇔size='small', color='black')
axes[1].set_xlabel('Day since vet visit', fontsize=20)
axes[1].set_ylabel('Quantity of\nfood eaten (oz.)', fontsize=20)
fig.set_size_inches(10, 8.27)
plt.savefig('./baby.png')
```

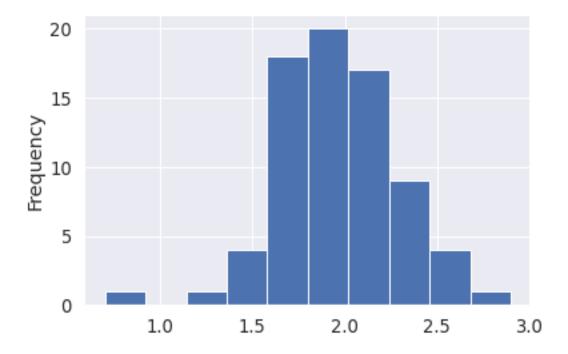
Baby's eating habits since vet visit



## 0.4 Describe combinations of different medication regimen and food type

```
[27]: count
               75.000000
                1.957333
      mean
      std
                0.350356
      min
                0.700000
      25%
                1.700000
      50%
                1.900000
      75%
                2.200000
                2.900000
      max
```

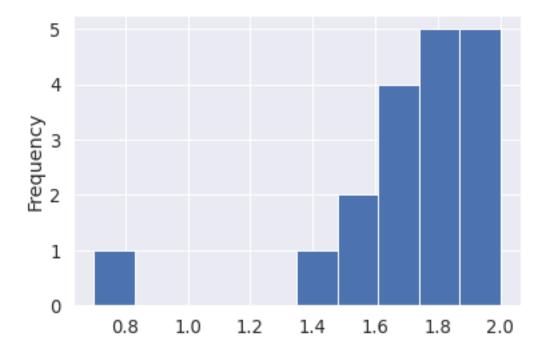
Name: Quantity (oz.), dtype: float64



[29]: count 18.000000 mean 1.705556 std 0.287938

```
min 0.700000
25% 1.700000
50% 1.800000
75% 1.875000
max 2.000000
```

Name: Quantity (oz.), dtype: float64



[30]: count 57.000000 2.036842 mean std 0.332002 min 1.300000 25% 1.800000 50% 2.100000 75% 2.200000 2.900000 max

Name: Quantity (oz.), dtype: float64

