Sample

January 25, 2017

```
In [1]: import PyICER as pic
        import matplotlib.pyplot as plt
        %matplotlib inline

In [2]: pill = pic.cvs_lead('u_pill')

List of columns:
1- CODE
2- Gender
3- Child age
4- parent age
5- parent education
6- 10d
7- 1m
8- 1y
9- DIARRHEA
10- APPETITE
11- Acid base


In [3]: def sample_function(x):
            a = 0.349
            return (0.1*x)**a

        for l in ['10d','DIARRHEA','APPETITE','Acid base']:
            print l+' :'
            pic.dist_analyze(pic.column_operator(pill,l,sample_function))

10d :
# of members 20
mean +- std: 0.714+-0.128
perc 25 = 0.614 , median = 0.730 , perc 75 = 0.801
------------------------------------------
DIARRHEA :
# of members 20
mean +- std: 0.669+-0.171
perc 25 = 0.593 , median = 0.616 , perc 75 = 0.758
------------------------------------------
```

```
APPETITE :
# of members 20
mean +- std: 0.633+-0.201
perc 25 = 0.393 , median = 0.729 , perc 75 = 0.778
-------------------------------------------
Acid base :
# of members 20
mean +- std: 0.227+-0.107
perc 25 = 0.140 , median = 0.267 , perc 75 = 0.325
-------------------------------------------
```

```python
In [4]: lst = ['10d','1m','1y']
        for i in range(3):
            for j in range(i+1,3):
                pic.pval_paired(pill,lst[i],lst[j])
```
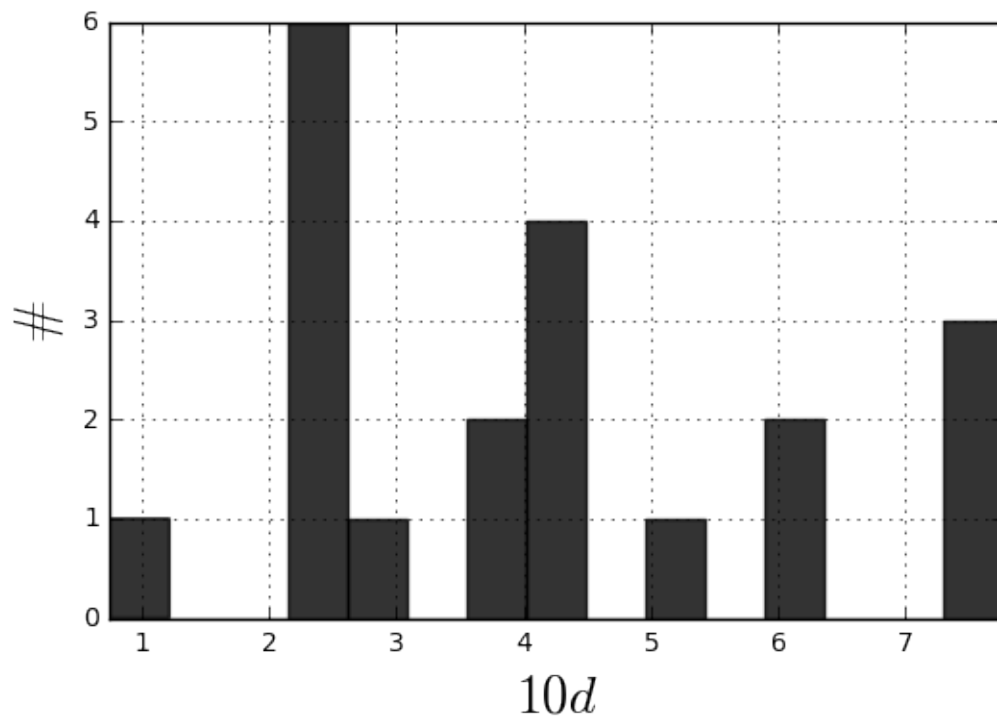
```
P-val: 10d Vs. 1m is 4.4485e-02
P-val: 10d Vs. 1y is 1.5795e-01
P-val: 1m Vs. 1y is 9.6964e-01
```
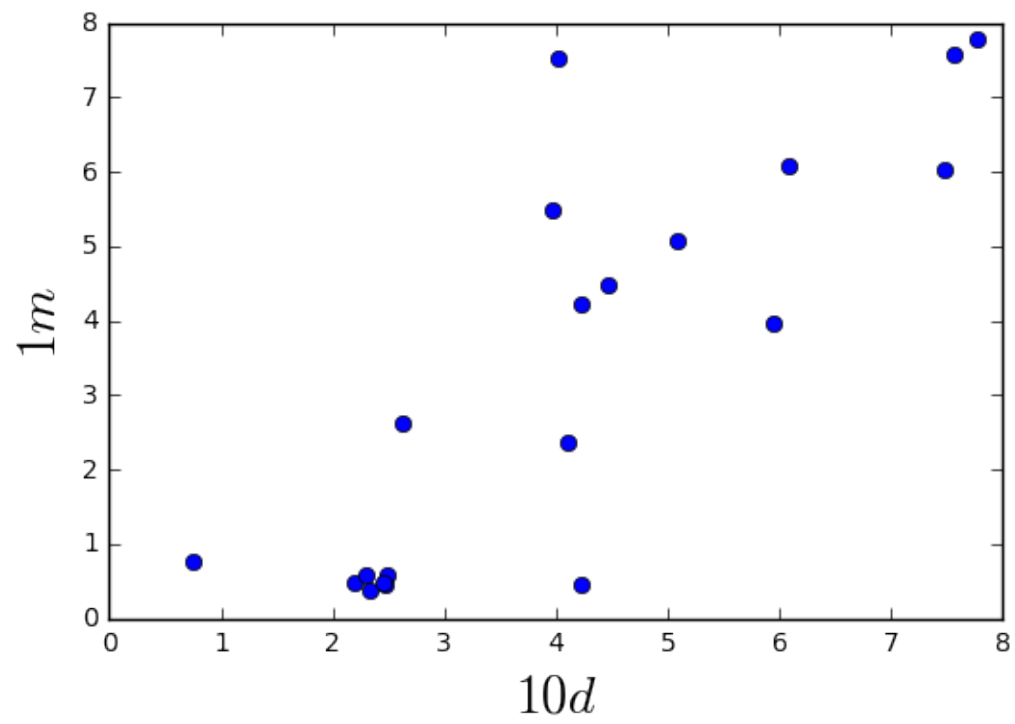
```python
In [5]: pic.fhist(pill,'10d',label_x='10d',label_y='\#')
```

```
In [6]: pic.fpl(pill,'10d','1m')
```



```
In [ ]:
```