

Area-proportional Venn diagrams for Invision Patients

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This shiny app is based on an R package called *venneuler*. It generates area-proportional venn diagrams.

How to use the app:

This app is hosted in the shiny.io web server. This app can be accessed through any web browser using the link https://tanzir.shinyapps.io/venn_for_invision_patients/. It is not necessary to have R or R studio installed in the system.

As an input the app takes csv file. In the plot page of the user interface there is a browse button which can be used to choose the csv file from the local disk.

When the csv file is selected, the app will show the preview of the file and will make area proportional venn diagram from the input file.

User can input title for the plot dynamically using the “Title” text box.

The plot can be saved as either png or in pdf format using the “Export plot” button and using the radio button to choose the output file type.

Information about the app and standard query format to create the csv file can be found in the information page of the app.

To get proper labeling of the plot following SQL query format is recommended.

```
SELECT ACT.FYActivity, ACT.EDActivity, ACT.InpatientActivity, ACT.OutpatientActivity,
COUNT(DISTINCT ActiveMRN) AS N_Pts
FROM
( SELECT DISTINCT ENC.FYActivity, ENC.ActiveMRN, ISNULL(ADM.InpatientActivity, 'N')
AS InpatientActivity, ISNULL(ED.EDActivity, 'N') AS EDActivity,
ISNULL(OPT.OutpatientActivity, 'N') AS OutpatientActivity
FROM [Invision].[sfhn].[tblEncounter] ENC
LEFT JOIN ( SELECT ActiveMRN, 'Y' AS InpatientActivity
FROM [Invision].[sfhn].[tblEncounter]
WHERE FYActivity = 'FY1516' AND SourceTable = 'Invision.dbo.tblAdmit' ) ADM
ON ADM.ActiveMRN = ENC.ActiveMRN
LEFT JOIN ( SELECT ActiveMRN, 'Y' AS EDActivity
FROM [Invision].[sfhn].[tblEncounter]
WHERE FYActivity = 'FY1516' AND SourceTable = 'Invision.dbo.tblED' ) ED
ON ED.ActiveMRN = ENC.ActiveMRN
LEFT JOIN ( SELECT ActiveMRN, 'Y' AS OutpatientActivity
FROM [Invision].[sfhn].[tblEncounter]
WHERE FYActivity = 'FY1516' AND SourceTable = 'Invision.dbo.tblOutpatient' ) OPT
ON OPT.ActiveMRN = ENC.ActiveMRN
WHERE ENC.FYActivity = 'FY1516' ) ACT
GROUP BY ACT.FYActivity, ACT.EDActivity, ACT.InpatientActivity, ACT.OutpatientActivity
```

Venn Diagram for Invision patients

Plot

Information

Choose CSV file

Browse...

No file selected

📄 Export plot

☒ png ☐ pdf

Title

Figure 1:

Patient admission in FY 14-15

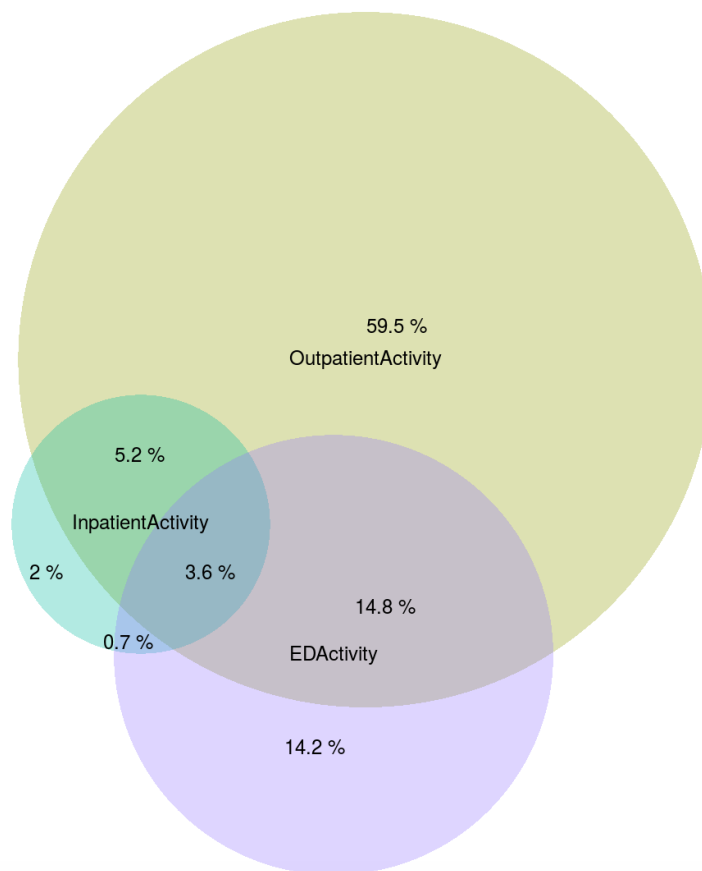


Figure 2: