

Team 11 – VVV (triple V)

Track 3
2/16/2020

Sung-ahn Choi,
Poojitha Kale,
Yi Jin,
rjun Banerjee,
Georgina Gonzalez

100%
Availability

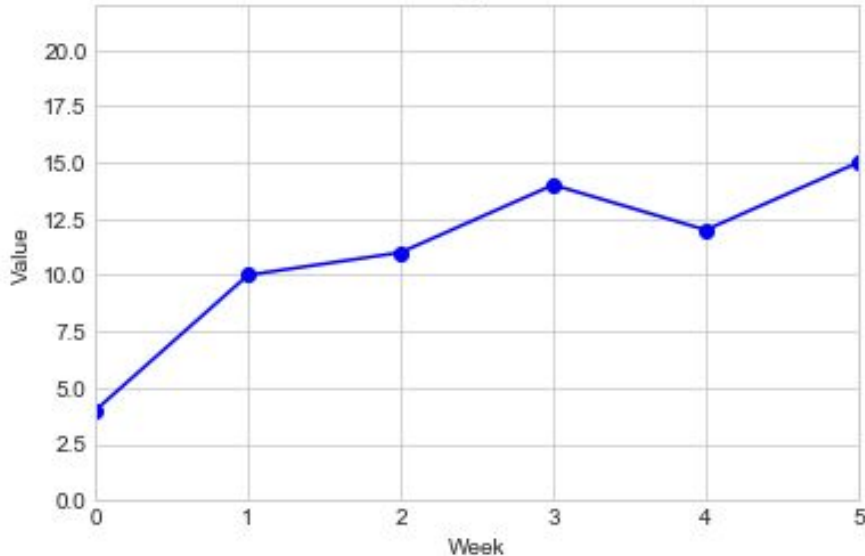
97%
Reliability

48%
Nal.Availability

1%
Reliability

Hospital N... Medicine:
Start Date: End Date:

A Simple Plot



Cause of Mortality (Cardiovascular & Trauma)

rapy_latency	1	0.55	-0.02	-0.01	0.43	0.37
nent_latency	0.55	1	0.25	0.28	0.56	0.7
:_day_on_call	-0.02	0.25	1	0.73	0.27	0.38
night_on_call	-0.01	0.28	0.73	1	0.33	0.43
iscular_count	0.43	0.56	0.27	0.33	1	0.87
rauma_count	0.37	0.7	0.38	0.43	0.87	1
	rapy_latency	nent_latency	:_day_on_call	night_on_call	iscular_count	'auma_count

Availability and Reliability Metric Calculations

$AH1 = \text{sum}(\text{encoded_value}) / \text{len}(\text{time_window})$

$RH1 = \text{count}(\text{numric_value}) / \text{len}(\text{time_window})$

$A_nations = (AH1*BH1 + AH2*BH2 + +AHn*BHn) / (BH1 + BH2 + +BHn)$

$R_nations = (RH1*BH1 + RH2*BH2 + +RHn*BHn) / (BH1 + BH2 + +BHn)$

Results

<p>Hospital Code: 'AMA000' Medicine: cephalosporins_betalactams Week: 28th to 38th</p> <p>Reliability: 1 Availability: 15% National Reliability Index: 48.5% National Availability Index: 0.18%</p>	<p>Hospital Code: 'AMA000' Medicine: lidocaine Week: 28th to 38th</p> <p>Reliability: 1 Availability: 69% National Reliability Index: 48.5% National Availability Index: 0.8%</p>
<p>Hospital Code: 'FAL000' Medicine: cephalosporins_betalactams Week: 40th to 45th</p> <p>Reliability: 0 Availability: 0% National Reliability Index: 42.63% National Availability Index: 0.23%</p>	<p>Hospital Code: 'FAL000' Medicine: lidocaine Week: 40 to 45th</p> <p>Reliability: 0 Availability: 0% National Reliability Index: 42.6% National Availability Index: 0.99%</p>