Template

Name

March 3, 2019

1 Preliminaries

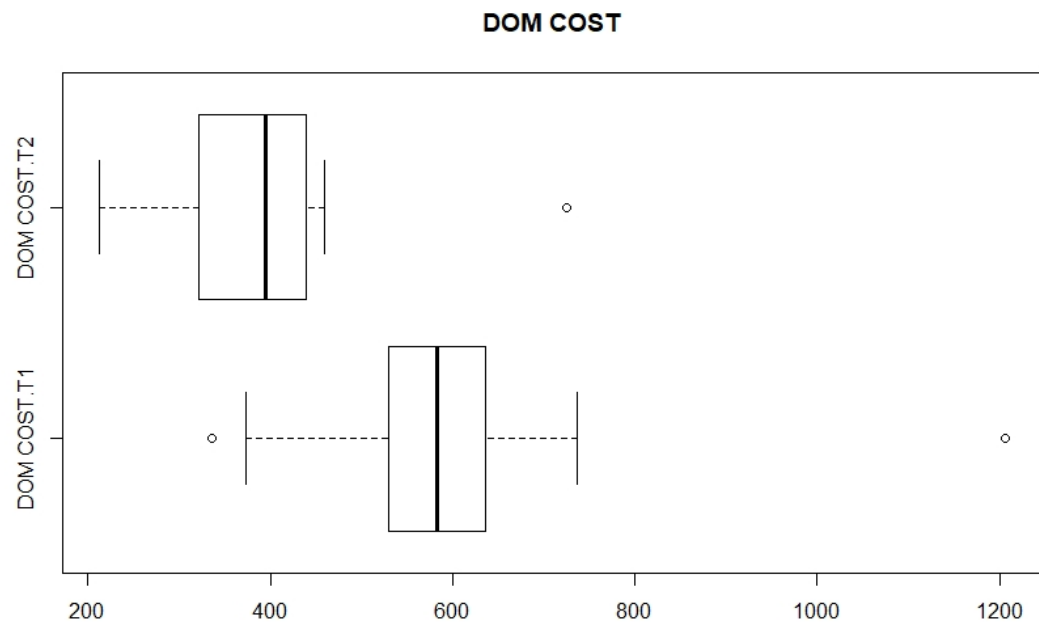# 2 Numerical Summaries

2.1 Summaries

```
> summary(domdis$COSTS.T1)
   Min. 1st Qu.  Median    Mean 3rd Qu.    Max.
  335.2   529.9   583.1   605.6   635.9  1207.0
> summary(domdis$COSTS.T2)
   Min. 1st Qu.  Median    Mean 3rd Qu.    Max.
  212.2   322.2   394.8   390.4   439.1   725.3
> summary(domdis$COSTS.T1)
   Min. 1st Qu.  Median    Mean 3rd Qu.    Max.
  335.2   529.9   583.1   605.6   635.9  1207.0
> summary(domdis$COSTS.T2)
   Min. 1st Qu.  Median    Mean 3rd Qu.    Max.
  212.2   322.2   394.8   390.4   439.1   725.3
>
> summary(hosdis$COSTS.T1)
   Min. 1st Qu.  Median    Mean 3rd Qu.    Max.
  407.1   458.3   799.9   725.2   913.7  1312.7
> summary(hosdis$COSTS.T2)
   Min. 1st Qu.  Median    Mean 3rd Qu.    Max.
  260.0   452.2   656.0   612.5   712.3  1177.8
>
> summary(rnhdis$COSTS.T1)
   Min. 1st Qu.  Median    Mean 3rd Qu.    Max.
  275.2   530.7   798.4   747.5   856.9  1539.1
> summary(rnhdis$COSTS.T2)
   Min. 1st Qu.  Median    Mean 3rd Qu.    Max.
  221.5   440.6   571.8   590.3   771.2   961.6
>
> summary(sghdis$COSTS.T1)
   Min. 1st Qu.  Median    Mean 3rd Qu.    Max.
```

```
  383.1   677.8   860.2   853.4   952.7  1655.8
> summary(sghdis$COSTS.T2)
   Min. 1st Qu.  Median    Mean 3rd Qu.    Max.
  304.4   707.2   846.4   825.3   980.5  1313.4
>
> summary(learndis)
    PATIENT            COSTS.T1           COSTS.T2        ACCOM
 Min.   :  1.00   Min.   : 275.2   Min.   : 212.2   DOM:15
 1st Qu.: 27.00   1st Qu.: 555.5   1st Qu.: 445.2   HOS:21
 Median : 53.00   Median : 783.9   Median : 659.3   RNH:24
 Mean   : 52.59   Mean   : 764.8   Mean   : 660.6   SGH:41
 3rd Qu.: 78.00   3rd Qu.: 922.9   3rd Qu.: 854.4
 Max.   :103.00   Max.   :1655.8   Max.   :1313.4
> summary(learndis$COSTS.T1)
   Min. 1st Qu.  Median    Mean 3rd Qu.    Max.
  275.2   555.5   783.9   764.8   922.9  1655.8
> summary(learndis$COSTS.T2)
   Min. 1st Qu.  Median    Mean 3rd Qu.    Max.
  212.2   445.2   659.3   660.6   854.4  1313.4
```
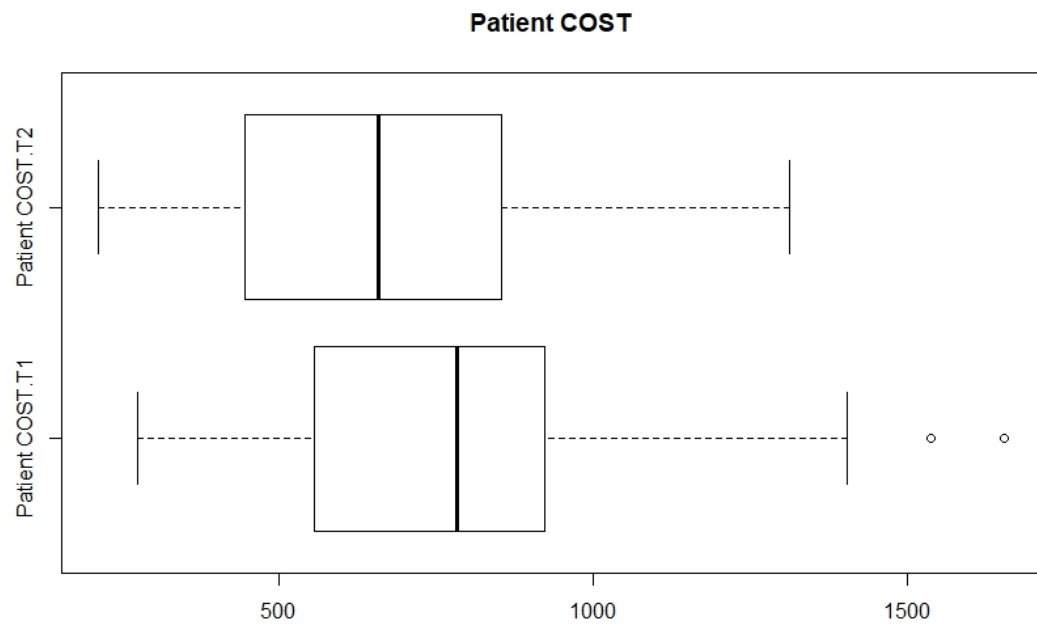
2.2   Boxplots

DOM COST

DOM COST.T2

DOM COST.T1

200   400   600   800   1000   1200

DOM.jpeg

HOS COST

HOS COST.T2

HOS COST.T1

400   600   800   1000   1200

HOS.jpeg

RNH COST

RNH.jpeg

SGH COST

SGH.jpeg

Patient COST
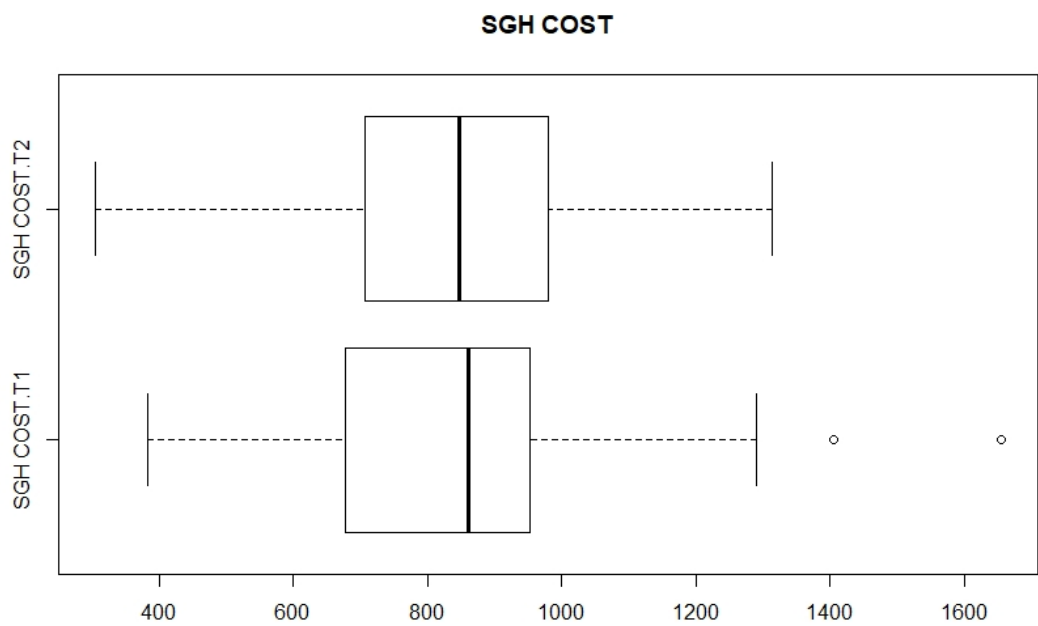
COST.jpeg

3   Assesment of Normality

3.1   Stem and Leaf plots

```
> stem(domdis$COSTS.T1)

  The decimal point is 2 digit(s) to the right of the |

   2 | 47
   4 | 8155689
   6 | 13434
   8 |
  10 |
  12 | 1

> stem(domdis$COSTS.T2)

  The decimal point is 2 digit(s) to the right of the |

  2 | 16922479
  4 | 022566
  6 | 3

>
```

```
> stem(hosdis$COSTS.T1)

  The decimal point is 2 digit(s) to the right of the |

   4 | 11246646
   6 | 03
   8 | 0570113444
  10 |
  12 | 1

> stem(hosdis$COSTS.T2)

  The decimal point is 2 digit(s) to the right of the |

   2 | 646
   4 | 3456678
   6 | 66011145
   8 | 1
  10 | 08

>
> stem(rnhdis$COSTS.T1)

  The decimal point is 3 digit(s) to the right of the |

  0 | 334
  0 | 555567778888889999
  1 | 03
  1 | 5

> stem(rnhdis$COSTS.T2)

  The decimal point is 2 digit(s) to the right of the |

  2 | 28899
  4 | 359167788
  6 | 0335
  8 | 456236

>
> stem(sghdis$COSTS.T1)

  The decimal point is 2 digit(s) to the right of the |

   2 | 8
```
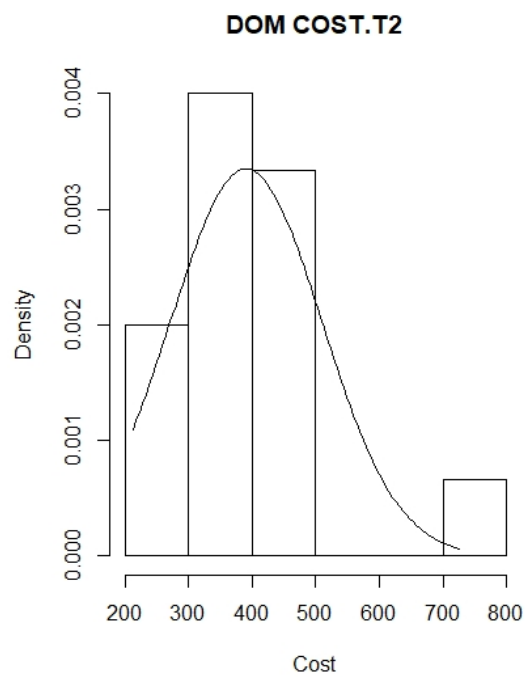
```
    4 | 22456
    6 | 1334823788
    8 | 02236890123334588
   10 | 36672
   12 | 9
   14 | 0
   16 | 6

> stem(sghdis$COSTS.T2)

  The decimal point is 2 digit(s) to the right of the |

    2 | 044
    4 | 556
    6 | 337011123579
    8 | 2455993344448
   10 | 055691348
   12 | 1


>
> stem(learndis$COSTS.T1)

  The decimal point is 2 digit(s) to the right of the |

    2 | 88
    3 | 4789
    4 | 11246689
    5 | 01223344555666889
    6 | 011333344678
    7 | 12334788
    8 | 0000222334456667889
    9 | 001112333344444588
   10 | 23667
   11 | 2
   12 | 19
   13 | 12
   14 | 0
   15 | 4
   16 | 6

> stem(learndis$COSTS.T2)

  The decimal point is 2 digit(s) to the right of the |

    2 | 12668899
```

```
 3 | 02244446799
 4 | 022334555556666789
 5 | 1667788
 6 | 03333667
 7 | 00111111233455579
 8 | 1244555699
 9 | 2333444468
10 | 05569
11 | 013488
12 |
13 | 1
```

3.2   Normal Fit
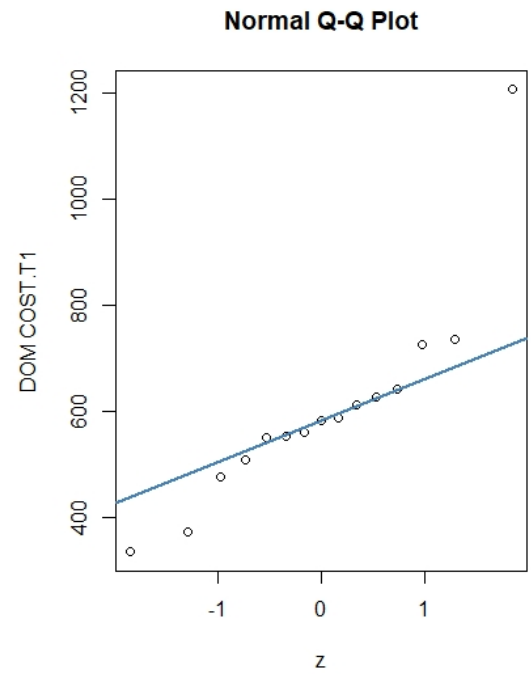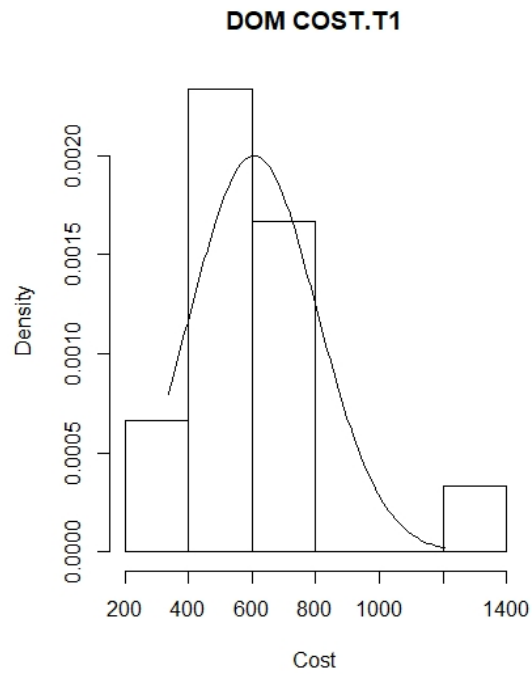
DOM T1.jpeg

DOM T2.jpeg

HOS COST.T1

Normal Q-Q Plot

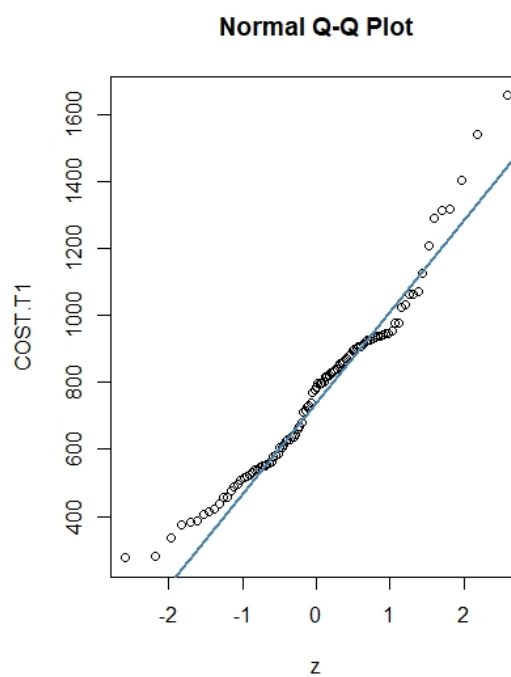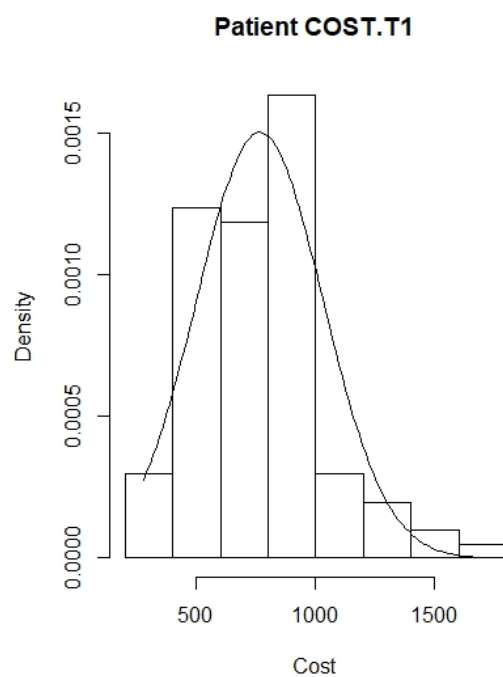HOS T1.jpeg

HOS COST.T2

Normal Q-Q Plot
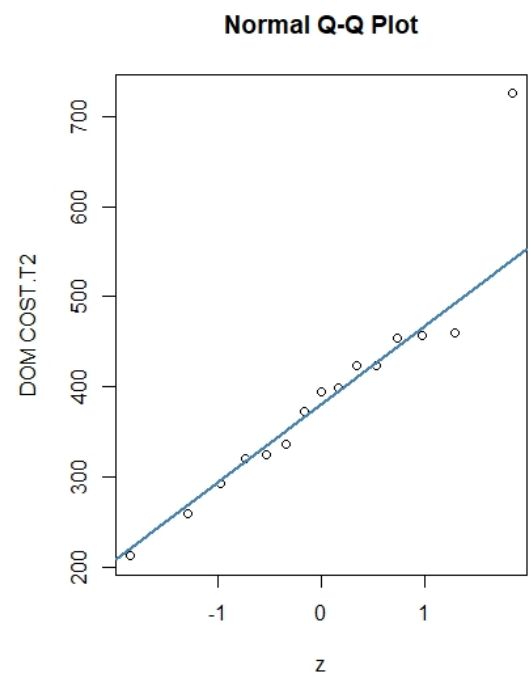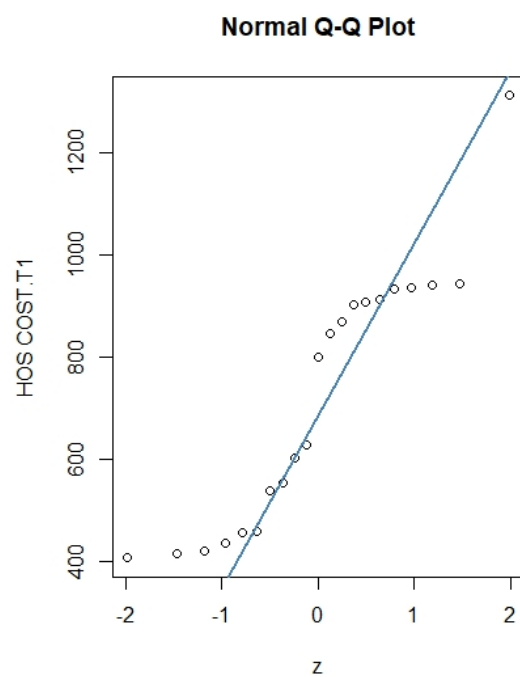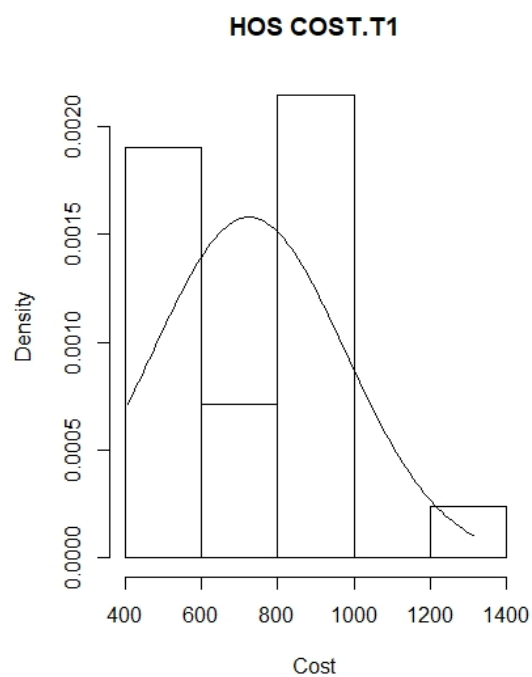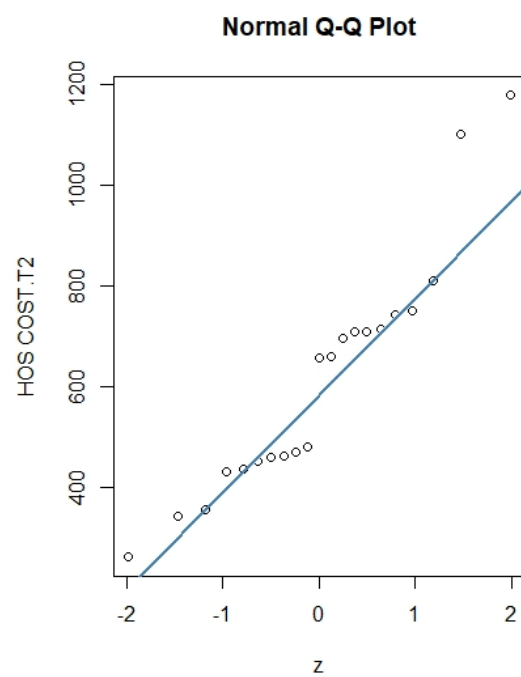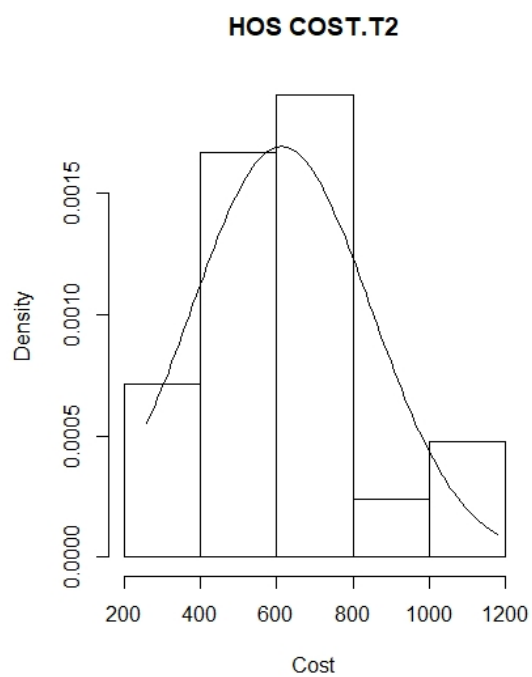
HOS T2.jpeg
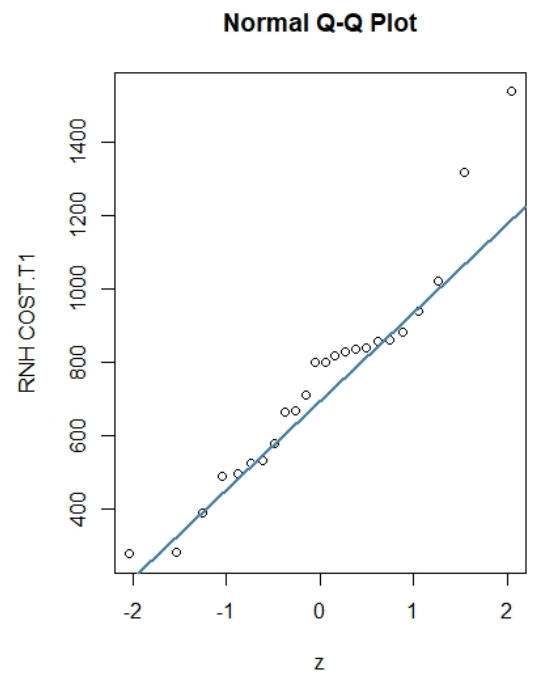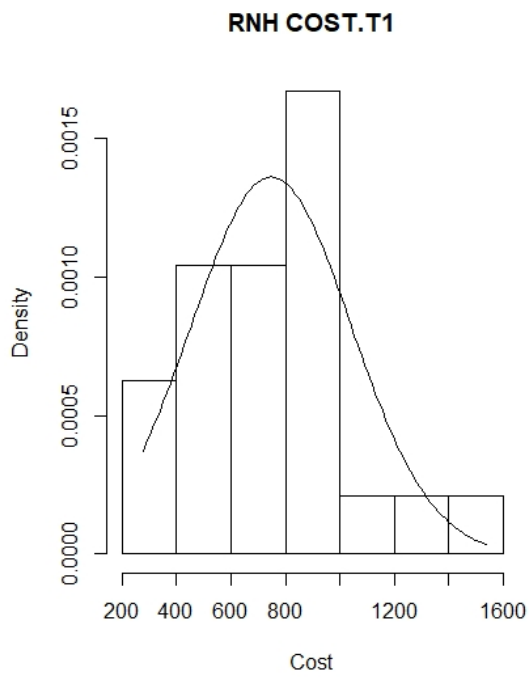
RNH T1.jpeg

RNH T2.jpeg

11

SGH T1.jpeg

SGH T2.jpeg

Patient COST.T1

Normal Q-Q Plot

T1.jpeg

Patient COST.T1

Normal Q-Q Plot
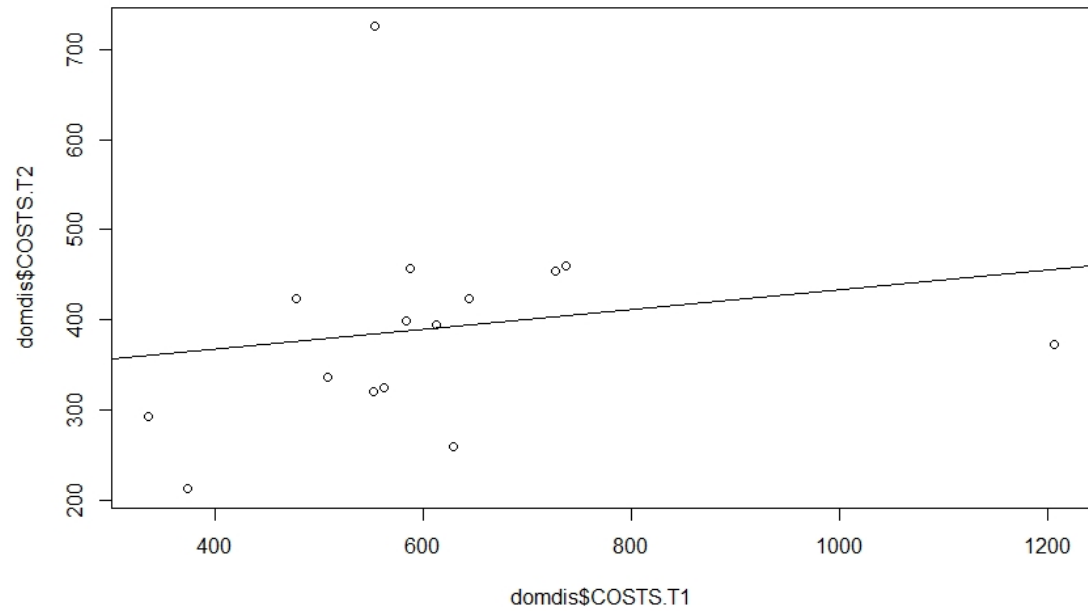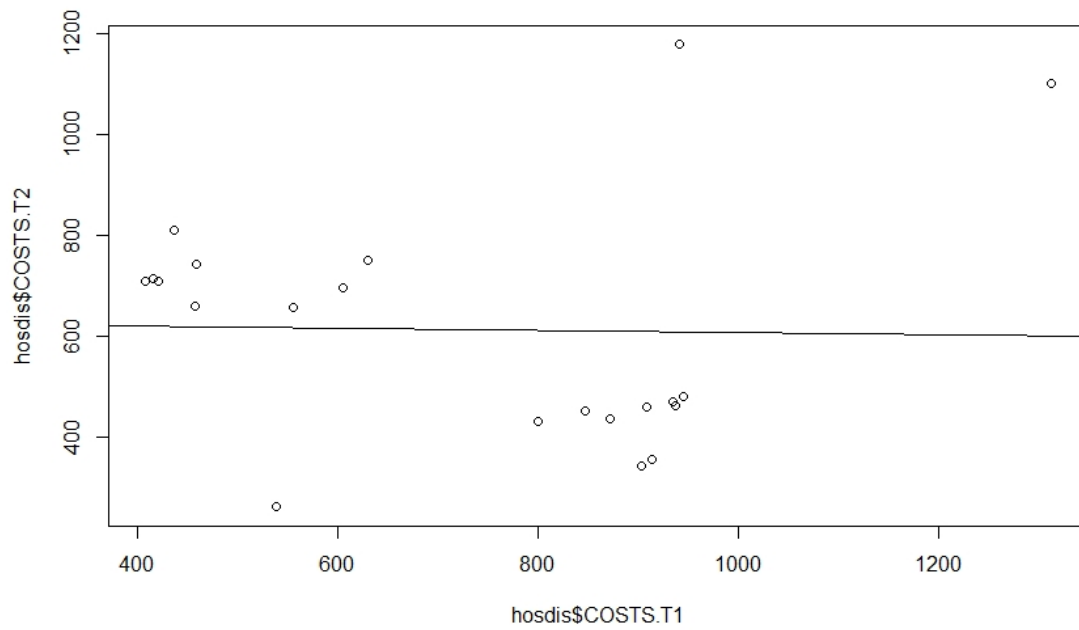

T1.jpeg

13
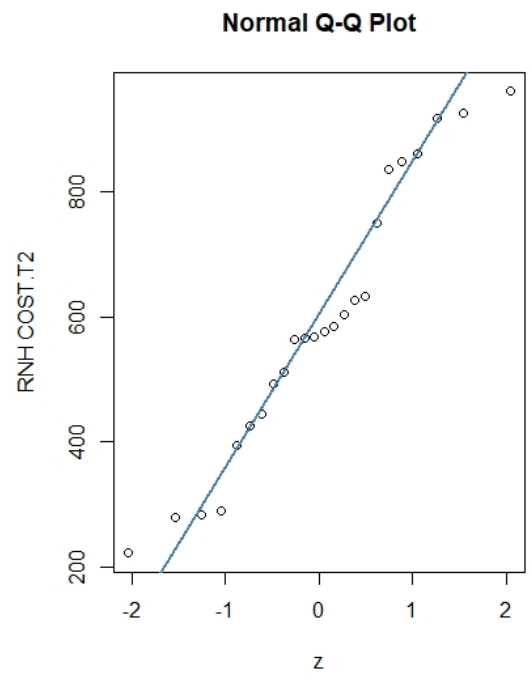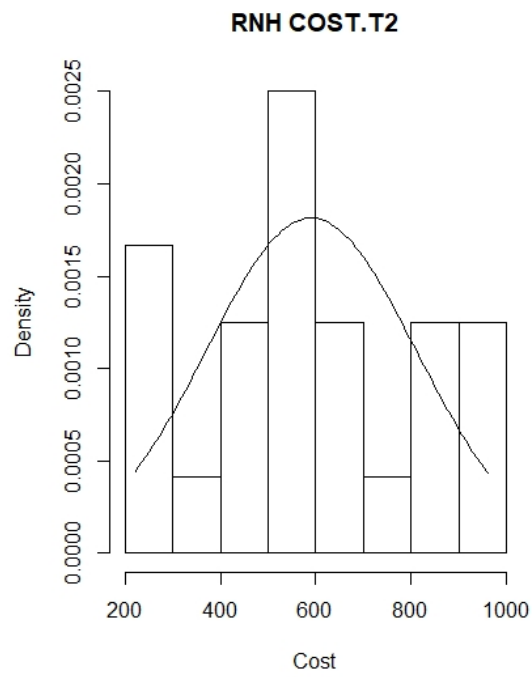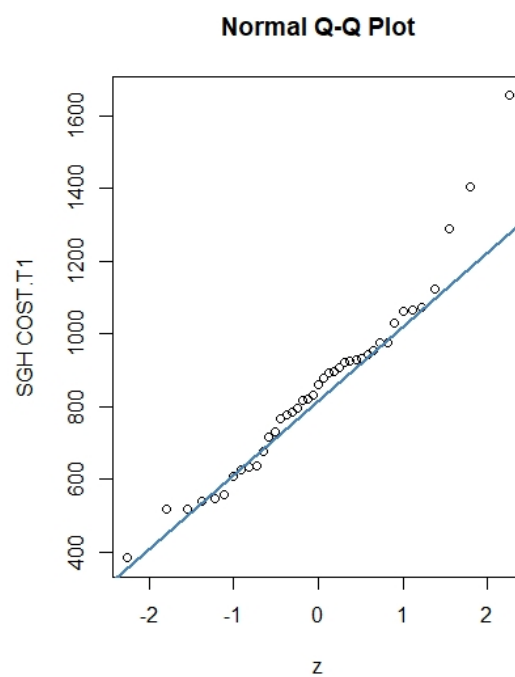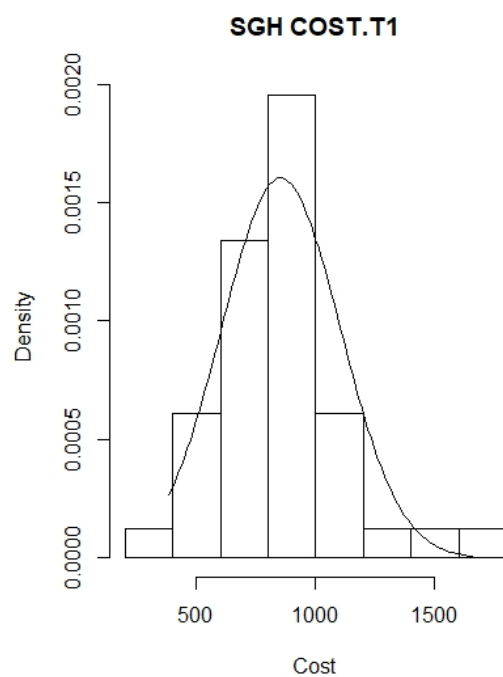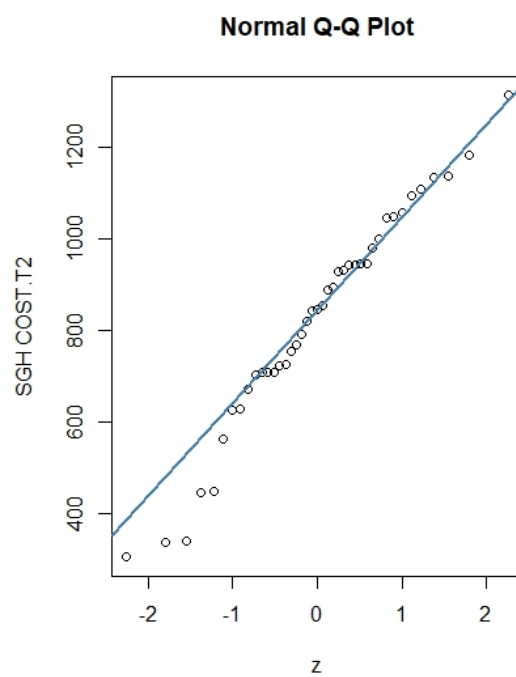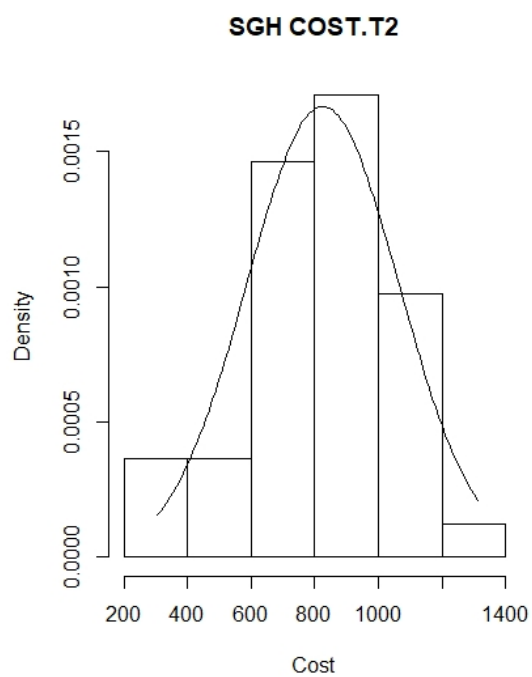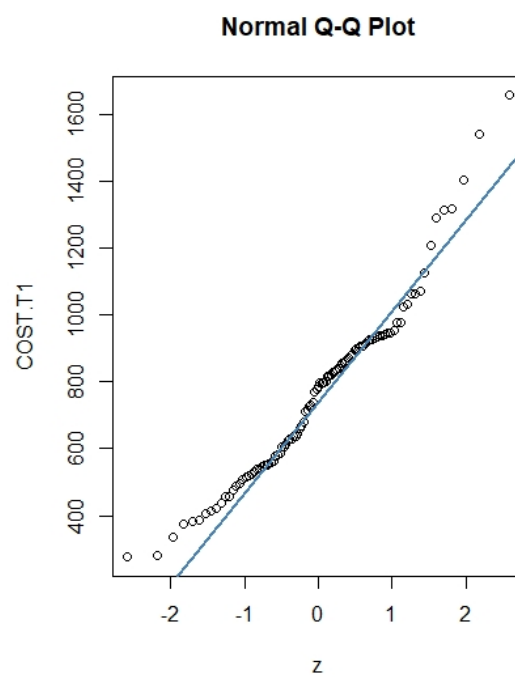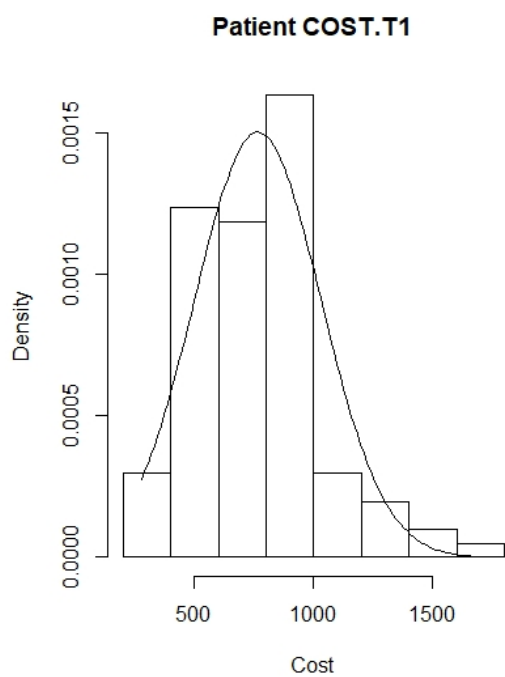
4 Associations

4.1 Linear Models
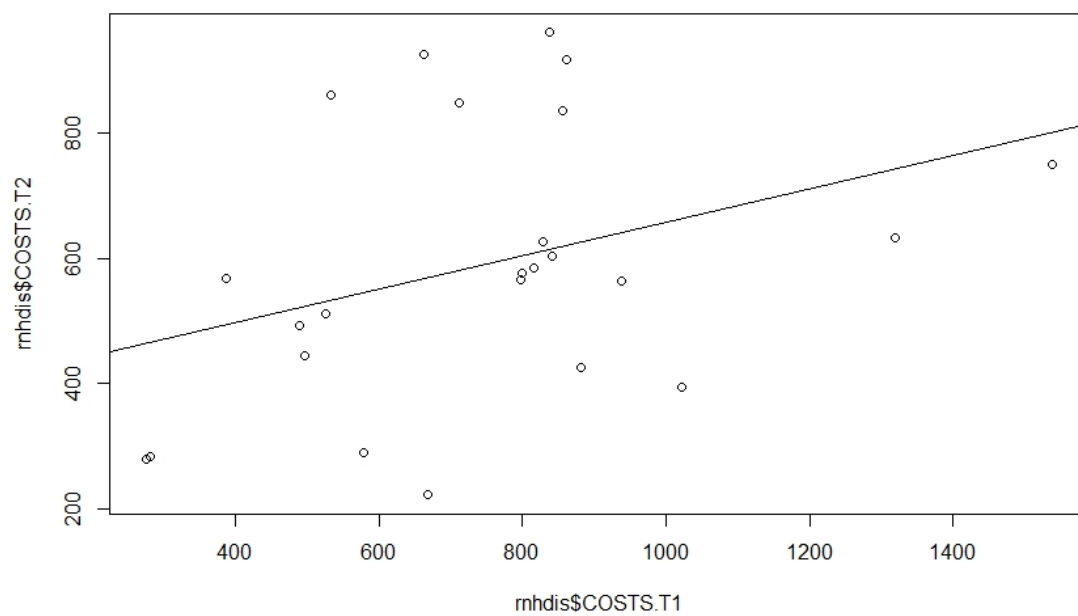

DOM.jpeg
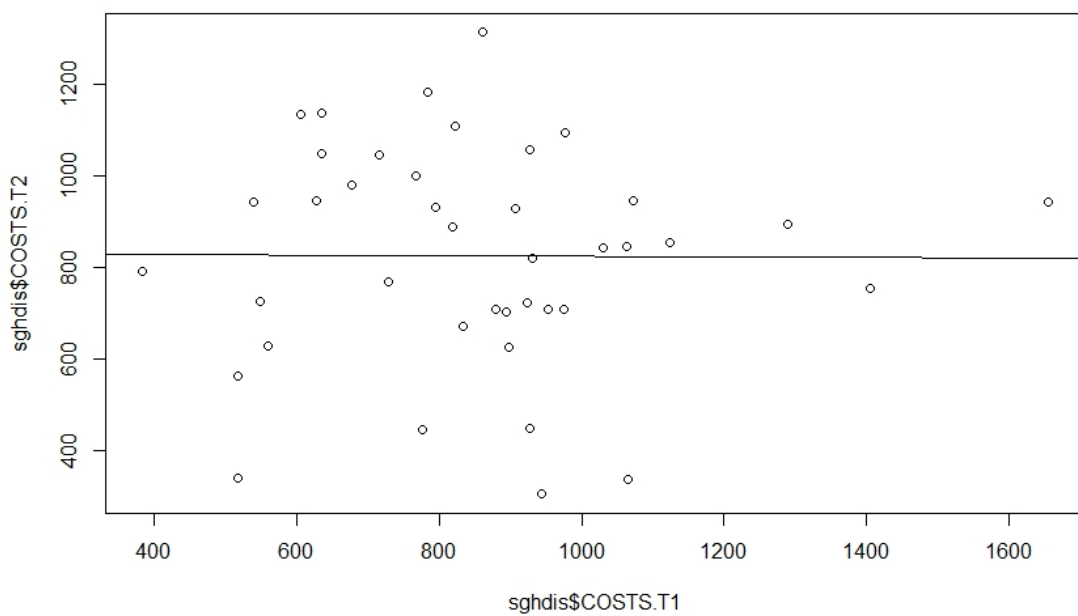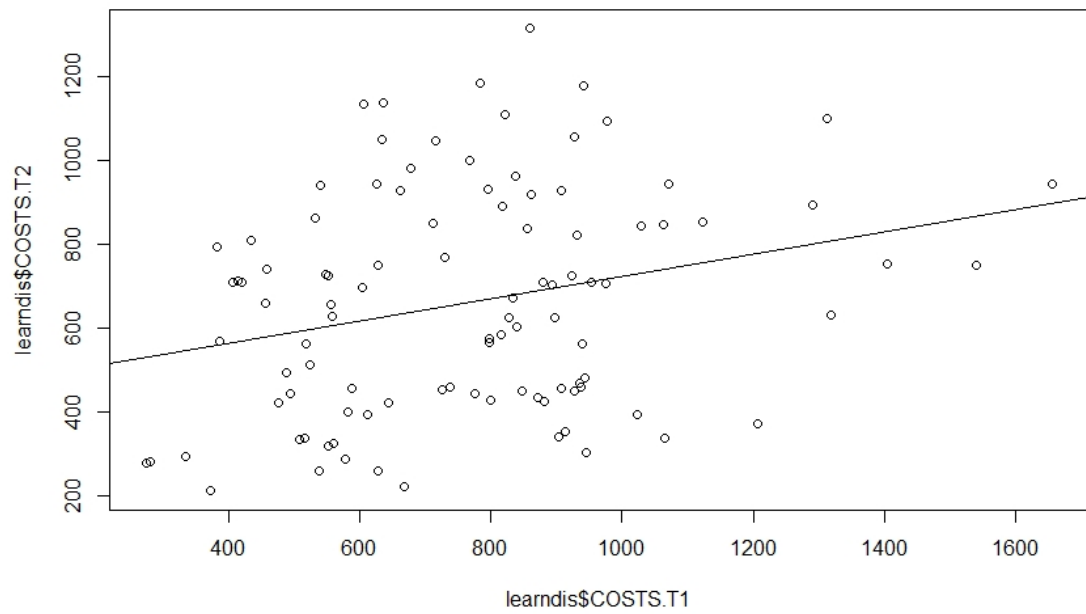

HOS.jpeg

RNH.jpeg

SGH.jpeg

COST.jpeg

5 Stability of Associations

5.1 Residuals

6 Interpretations