There are some 'logic' relationships between the following columns:
- Subjective fever [EUPATH_0000100]
- Febrile [EUPATH_0000097]
- Asexual Plasmodium parasites present, by microscopy [EUPATH_0000048]
- Submicroscopic Plasmodium present, by LAMP [EUPATH_0000487]
- Malaria diagnosis [EUPATH_0000090]
- Complicated malaria [EUPATH_0000040]
- Basis of complicated diagnosis [EUPATH_0000316]
- Malaria treatment [EUPATH_0000740]
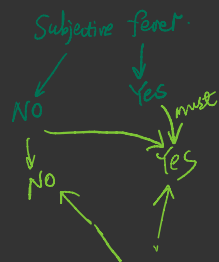- Malaria diagnosis and parasite status [EUPATH_0000338]

The relationships are drawn in the Analysis of highly_dependence_list in Pearson.pdf. Abbreviations are used in writing the name of columns and their categories. See the last page of the pdf for the full name of columns, and DataFrame0710.ipynb can show the categories of each column.

I call these relationships 'logic' because they are absolute - no outliers. For example, there is no data with 'No' in febrile or 'Negative' in Asexual microscopy but 'yes' in Malaria Diagnosis.

Subjective fever
Yes → must
No
No
Yes

(Febrile asexual microscopy).

'NAN'
Negative
Positive

B. not indicated
B. indicated not done

B. negative/ LAMP negative
B. negative/ LAMP positive
B. negative/ LAMP not done
Negative
positive
no result
Submicro. by LAMP (recorded.)

(if Febrile yes)
(if Febrile no)
B. positive/ no malaria

sympt. malaria

Malaria diagnosis and parasite status.

Yes. Negative
No. Positive
No. Negative
Yes. Positive

must
must
must

no
Yes
Malaria Diagnosis.

Complicated Malaria diagnosis recorded
No
Yes

Basis of complicated diagnosis (recorded.)
only danger signs
only parasite density >5000
severe malaria

no treatment
Art- for uncom. mala.
Quinine for uncom. 1st trim. of preg.
Qui. for un. within 14 days.
Quinine/Arte for complic. malaria

Malaria Treatment.

Subjective fever : Subjective fever [EUPATH_0000090]

Febrile : Febrile [EUPATH_0000097]

asexual microscopy

Asexual Plasmodium parasites present, by microscopy [EUPATH_0000048]

Submicro, by lamp recorded:

Submicroscopic Plasmodium present, by LAMP [EUPATH_0000487]

Malaria Diagnosis:

Malaria diagnosis [EUPATH_0000090]

Complicated Malaria diagnosis

Complicated malaria
[EUPATH_0000040]

Basis of complicated diagnosis:

Basis of complicated diagnosis
[EUPATH_0000316]

Malaria Treatment:

Malaria treatment [EUPATH_0000740]

Malaria diagnosis and parasite status.

Malaria diagnosis and parasite status [EUPATH_0000338]