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| title: “Perinatal” |
| author: “Yuster” |
| date: “1/7/2018” |
| output: word\_document |

## r notes

The report of perinatal death in Nakuru County from 2014 to 2017 dataset. Perinata Death review forms are filled in the facility where the event occured and uploaded to DHIS2.Of more than 2000 events are available from the system. The dataset were downloaded and data cleaning done to remove data elements that does not fit definition of perinatal death, multiple entries and duplicates were deleted as well as empty columns.

perdatn %>%   
 with(table(Org\_unit, Year)) %>%  
 prop.table(margin=2)\*100

## Year  
## Org\_unit 2014 2015  
## Annex Hospital (Nakuru) 0.0000000 6.0465116  
## Bahati District Hospital 0.2487562 0.9302326  
## Baraka Maternity Home 0.0000000 0.0000000  
## Elburgon Sub-District Hospital 0.0000000 0.4651163  
## Molo District Hospital 0.0000000 0.4651163  
## Naivasha District Hospital 0.0000000 0.0000000  
## Nakuru Nursing Home 0.0000000 0.0000000  
## Nakuru Provincial General Hospital (PGH) 99.7512438 92.0930233  
## Njoro Sub-County Hospital 0.0000000 0.0000000  
## Year  
## Org\_unit 2016 2017  
## Annex Hospital (Nakuru) 8.3916084 17.1597633  
## Bahati District Hospital 0.6993007 4.1420118  
## Baraka Maternity Home 2.0979021 0.0000000  
## Elburgon Sub-District Hospital 0.6993007 0.0000000  
## Molo District Hospital 3.4965035 0.0000000  
## Naivasha District Hospital 2.0979021 0.0000000  
## Nakuru Nursing Home 1.3986014 0.0000000  
## Nakuru Provincial General Hospital (PGH) 78.3216783 78.6982249  
## Njoro Sub-County Hospital 2.7972028 0.0000000

perdatn %>% ## reported no of perinatal deaths by year in 2015 we had 431 deaths  
 group\_by(Org\_unit) %>%   
 summarise(count = n()) %>%   
 mutate(rfreq = count/sum(count)\*100) %>% ## relative frequency   
 arrange(desc(rfreq))

## # A tibble: 9 x 3  
## Org\_unit count rfreq  
## <chr> <int> <dbl>  
## 1 Nakuru Provincial General Hospital (PGH) 844 90.8503767  
## 2 Annex Hospital (Nakuru) 54 5.8127018  
## 3 Bahati District Hospital 11 1.1840689  
## 4 Molo District Hospital 6 0.6458558  
## 5 Njoro Sub-County Hospital 4 0.4305705  
## 6 Baraka Maternity Home 3 0.3229279  
## 7 Naivasha District Hospital 3 0.3229279  
## 8 Elburgon Sub-District Hospital 2 0.2152853  
## 9 Nakuru Nursing Home 2 0.2152853

## rmarkdown

Babies delivered by Nulliparous women are at greater risk of perinatal risk than multiparous women.The dataset is recorded on number of gravida mother ever had from 22 weeks gestation including the current pregnancy.

perdatn %>%   
 group\_by(Mgravrec) %>%   
 summarise(count=n()) %>%   
 mutate(rfreq= count/sum(count)\*100) %>%   
 arrange(desc(rfreq))

## # A tibble: 3 x 3  
## Mgravrec count rfreq  
## <chr> <int> <dbl>  
## 1 Multiparous 501 53.9289559  
## 2 Nulliparous 419 45.1022605  
## 3 <NA> 9 0.9687836