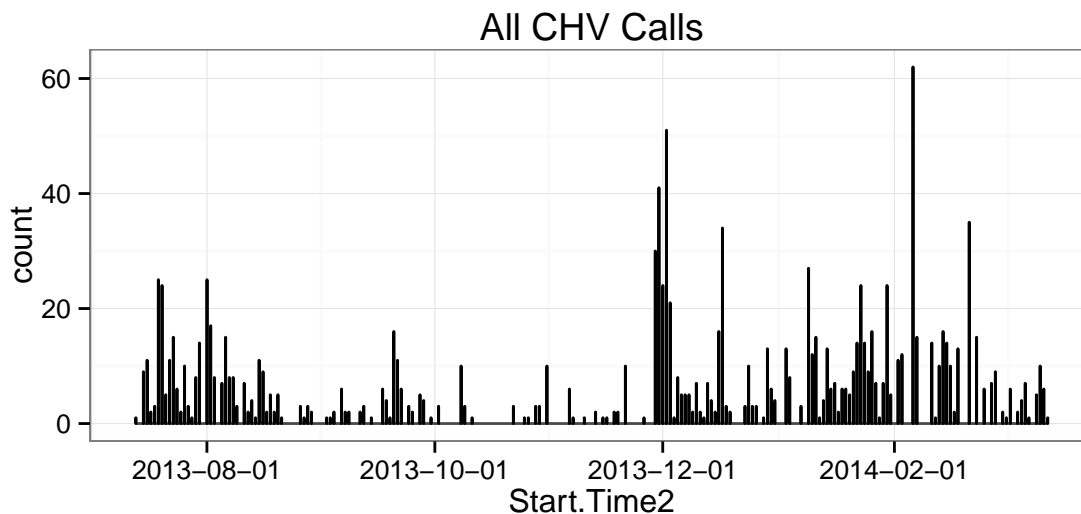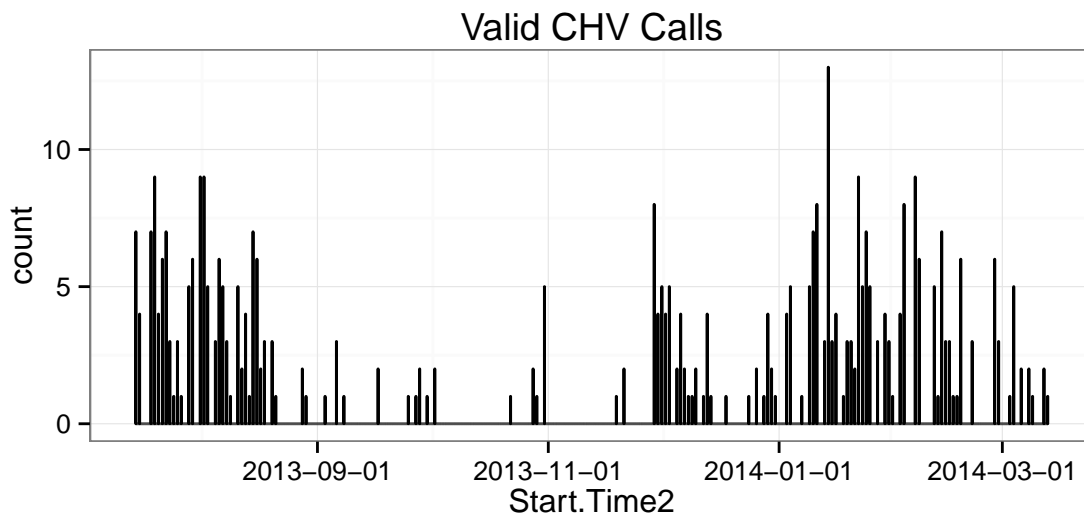# Quick CHV Usage

March 17, 2014

The first CHV call was registered on 2013-07-13. As of 2014-03-14, CHVs triggered 1312 Baby Monitor calls from recognized phone numbers.

```
# sort
  chv.calls <- chv.calls[do.call(order, chv.calls[c("Start.Time2")]), ]
# plot
  ggplot(chv.calls, aes(Start.Time2, ..count..)) +
    geom_histogram(colour="black", binwidth=5000) +
    theme(axis.title.x = element_blank()) +
    scale_x_datetime(breaks = date_breaks("2 months")) +
    ggtitle("All CHV Calls") +
    theme_bw()
```



```
# limit to 4 or 6
  chv.calls.46 <- subset(chv.calls,
                         (chv.calls$mainmenu=="4" | chv.calls$mainmenu=="6"))
# sort
  chv.calls.46 <- chv.calls.46[do.call(order, chv.calls.46[c("Start.Time2")]), ]
# plot
  ggplot(chv.calls.46, aes(Start.Time2, ..count..)) +
    geom_histogram(colour="black", binwidth=5000) +
    theme(axis.title.x = element_blank()) +
    scale_x_datetime(breaks = date_breaks("2 months")) +
    ggtitle("Valid CHV Calls") +
    theme_bw()
```

Valid CHV Calls

However, in only 30.6 percent of these calls did CHVs press "4" (report emergency) or "6" (CHV menu).

```
  chv.calls.46$report.del <- ifelse(!is.na(chv.calls.46$who.delivered), 1, 0)
  chv.calls.46.del <- subset(chv.calls.46, chv.calls.46$report.del==1)
  chv.calls.46.del$dup <- duplicated(chv.calls.46.del$who.delivered)
  chv.calls.46.del.uni <- subset(chv.calls.46.del, chv.calls.46.del$dup==FALSE)

  chv.calls.46$report.vis <- ifelse(!is.na(chv.calls.46$who.visit), 1, 0)

# pressing any number
  chv.calls$report.del <- ifelse(!is.na(chv.calls$who.delivered), 1, 0)
  chv.calls.del <- subset(chv.calls, chv.calls$report.del==1)
  chv.calls.del$dup <- duplicated(chv.calls.del$who.delivered)
  chv.calls.del.uni <- subset(chv.calls.del, chv.calls.del$dup==FALSE)
```

In these calls, CHVs reported 22 deliveries and 95 home visits.

Some CHVs reported deliveries via the prompt intended for patients and families. Including these calls, CHVs reported a total of 71 deliveries.

Enrolled patients: 175

Delivered patients: 72