

F.Maimunah<sup>1</sup>, A.Nurrul Safiah<sup>1</sup>, SW Tham<sup>1</sup>, SD Karalasingam<sup>2</sup>, J Ravichandran<sup>3</sup>, J Ravindran<sup>4</sup>, SA Soelar<sup>2</sup>, N Sa'at<sup>2</sup>, N Baharum<sup>2</sup>, GK Chong<sup>1</sup>, WJ Nion<sup>1</sup>

1.Hospital Melaka 2. National Clinical Research Center 3.Hospital Sultanah Aminah Johor 4. Hospital Kuala Lumpur

## INTRODUCTION

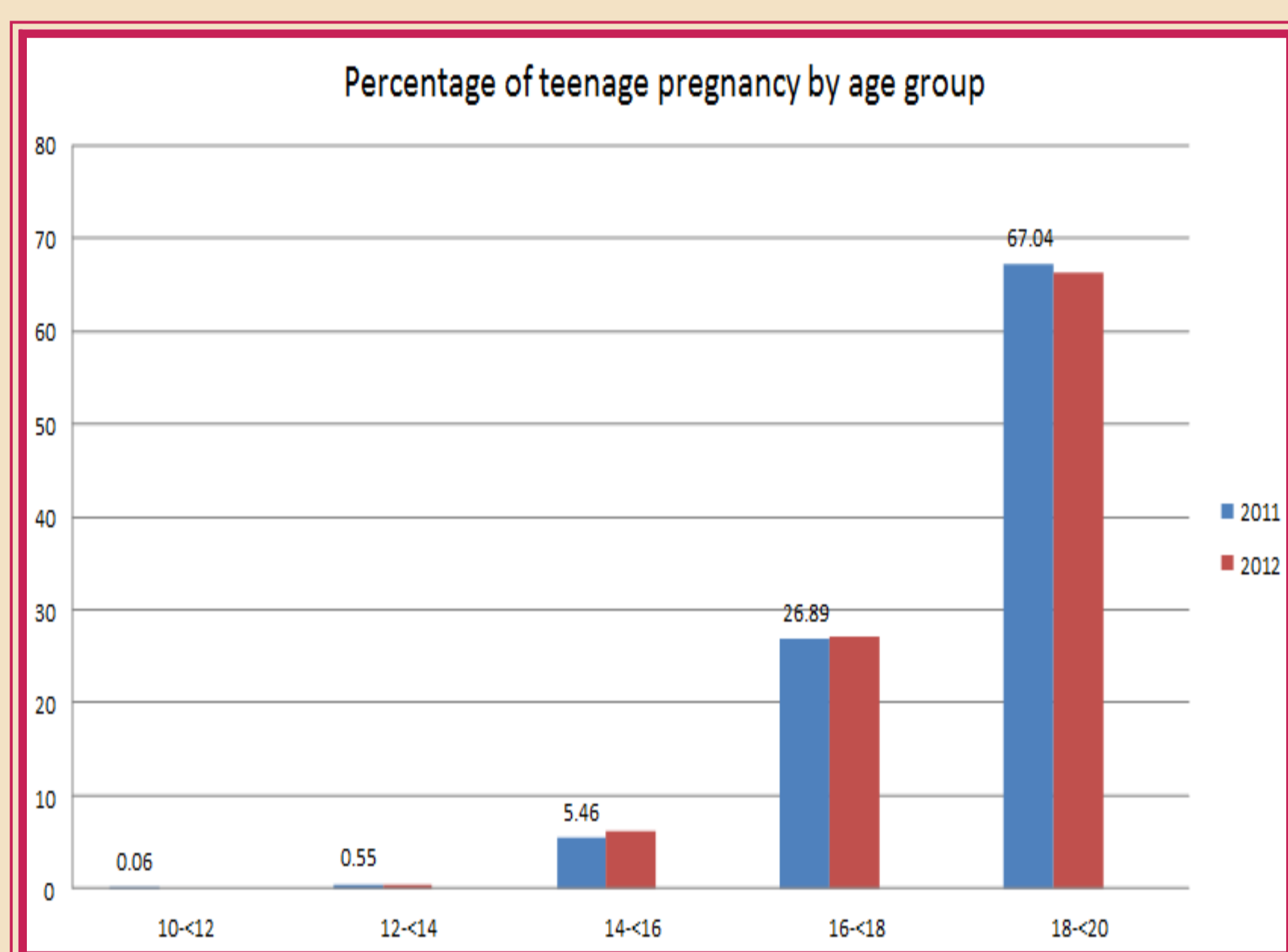
Teenage Pregnancy refers to pregnancies in females aged 19 years and below. The World Health Organization (WHO, 2006) statistics show that annually there are 14-15 million births worldwide to teenage girls, accounting for more than 10% of births and the Ministry of Health Malaysia (MOH,2008) statistics showed teenage pregnancy at 13%. Pregnant teenagers face obstetric, medical & social issues. Complications during pregnancy and delivery can lead to maternal death.

## METHODOLOGY

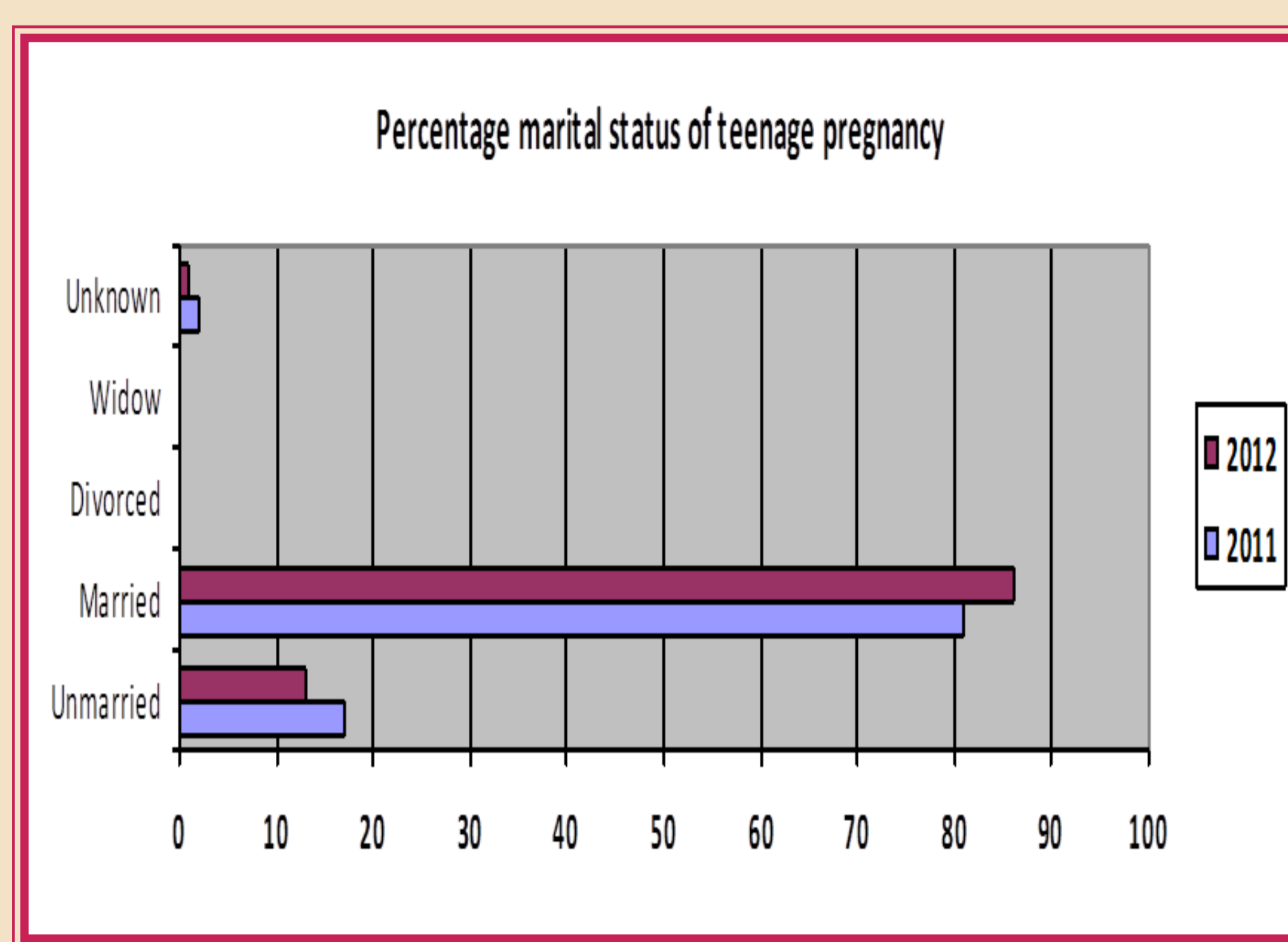
This is a retrospective review based on data from the National Obstetrics Registry from 1st January 2011 to 31st December 2012. A total of 260,959 deliveries were analysed and in this study. Total number of teenagers reviewed in this study was 12,817. Teenage pregnancy was compared with pregnant women 20 years and above.

## RESULTS

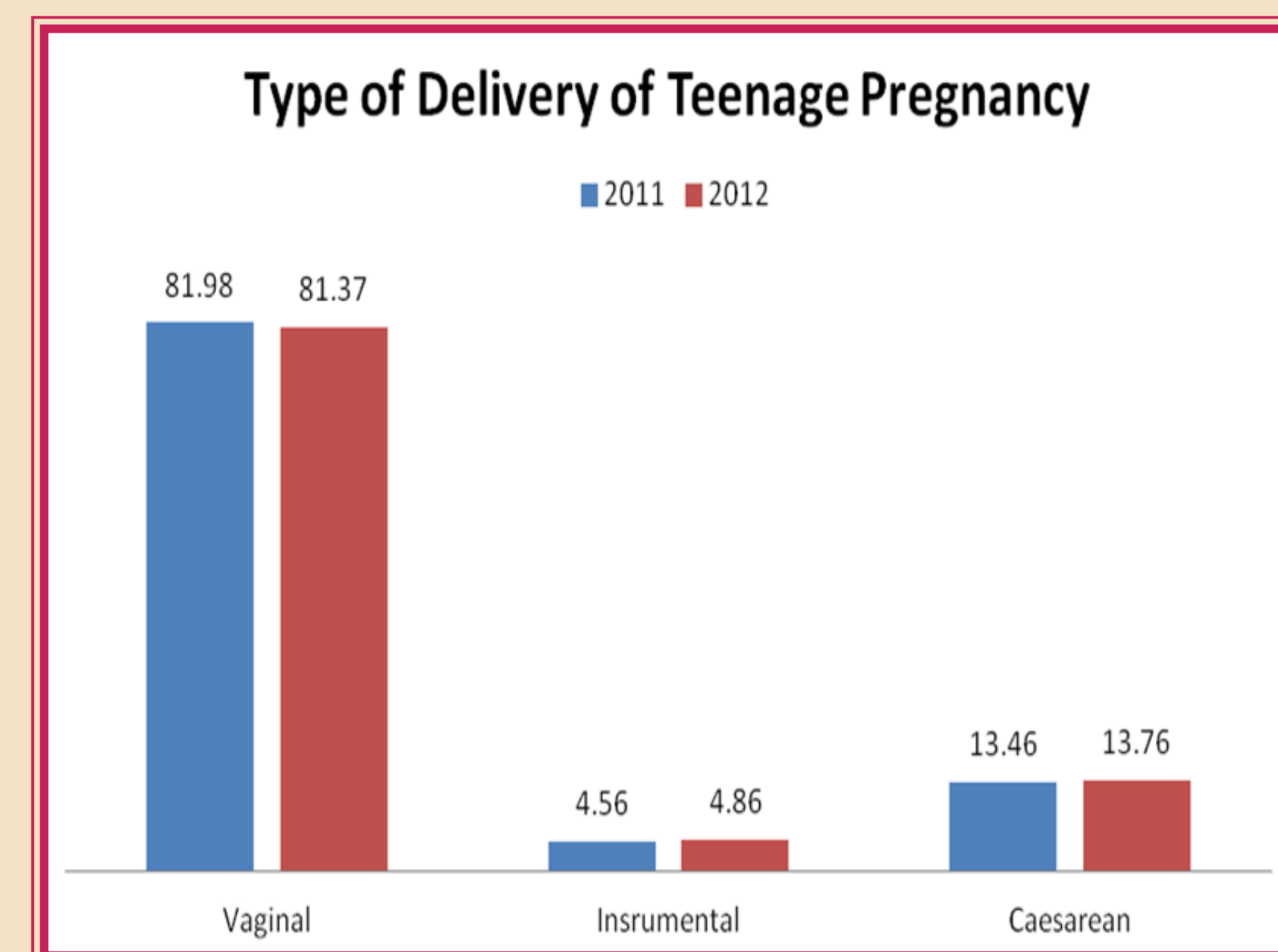
The ratio of teenage pregnancies was 50 per 1000 deliveries and it was similar finding for both years.



67.04% of teenage pregnancies were from the 18-19 age groups.

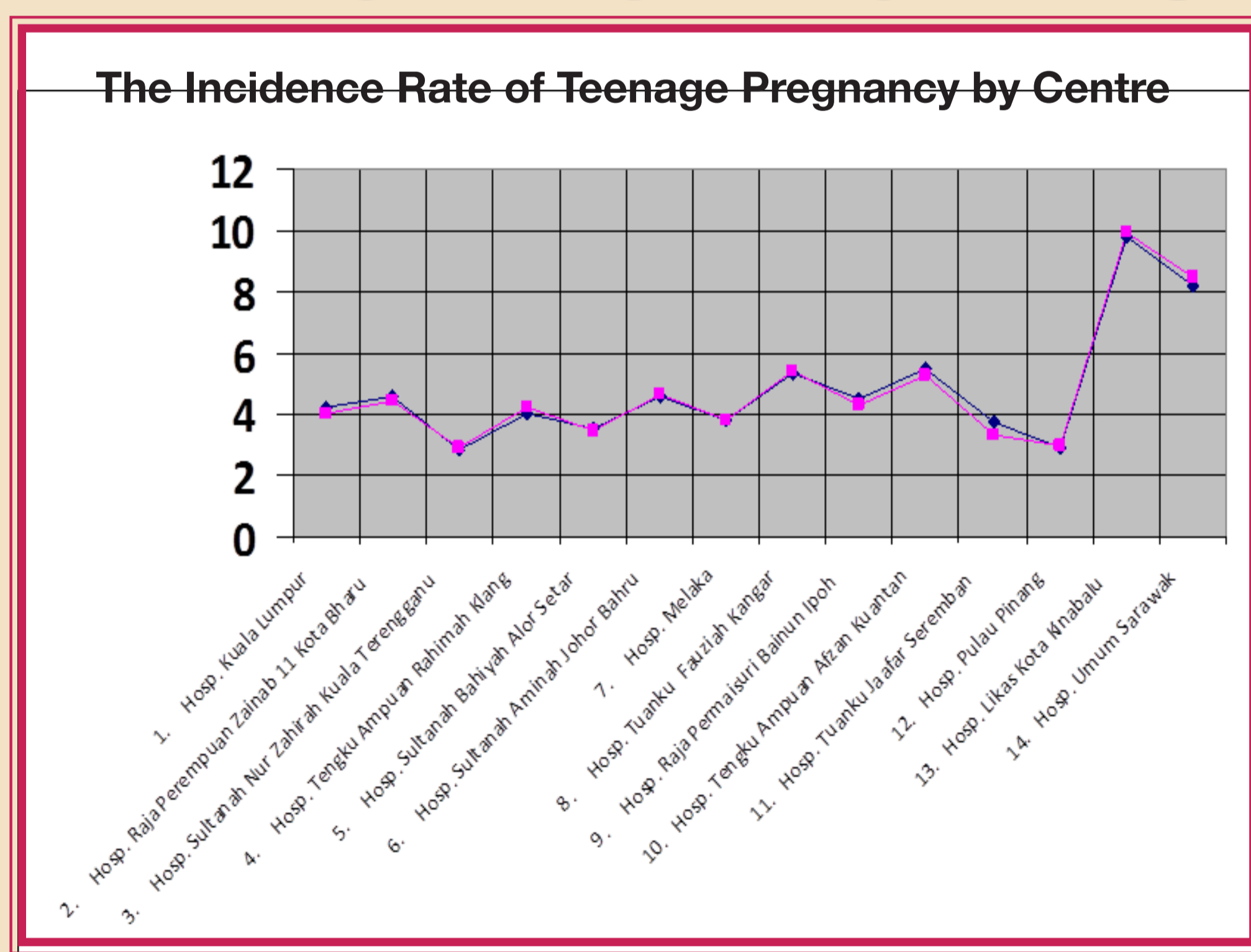


The majority (84%) of Teenage Pregnancy were married.

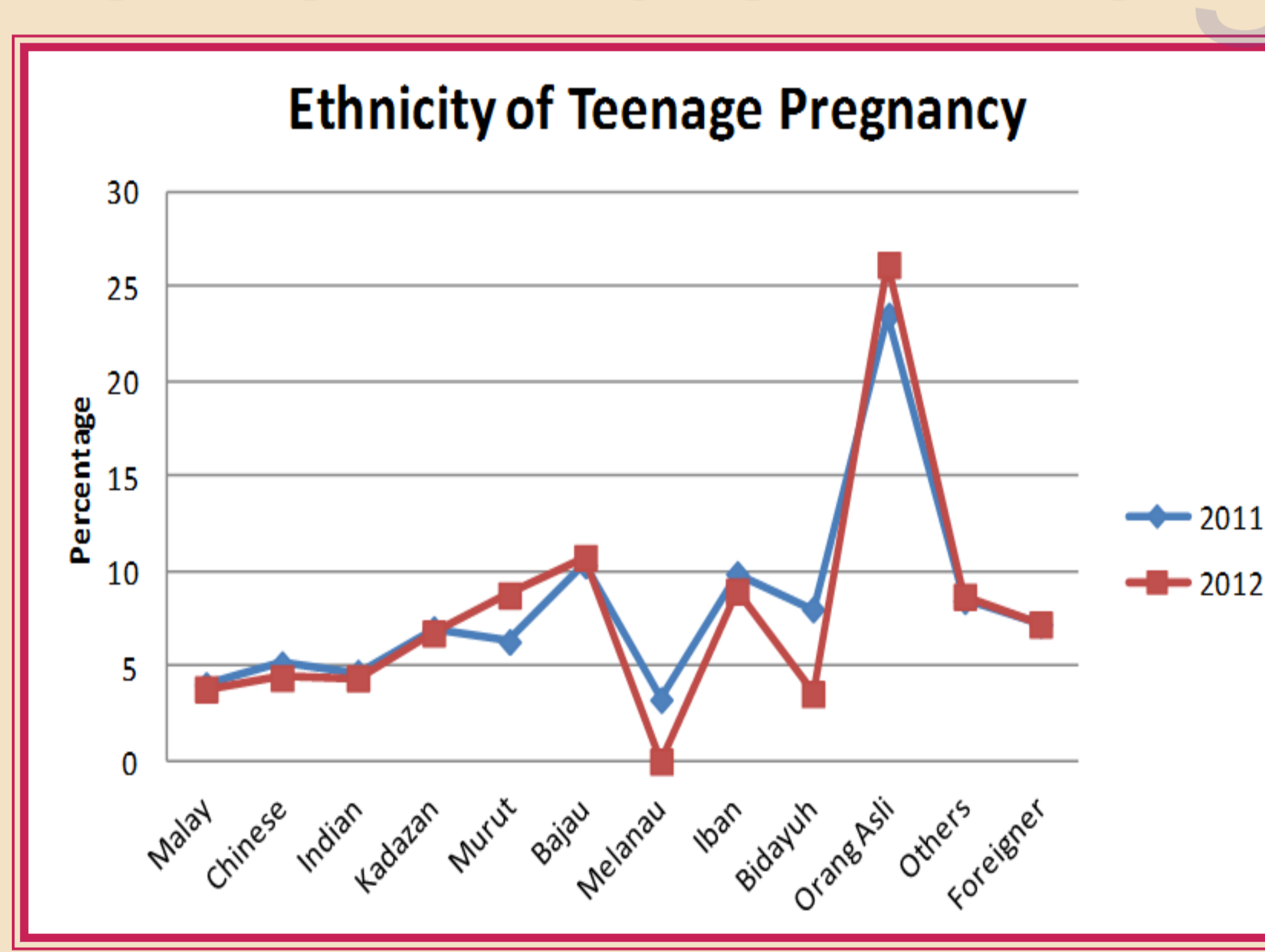


82% of teenage pregnancies delivered vaginally, while the caesarean section rates was 13.4% which was lower than general population.

# National Obstetrics Registry (NOR)



Hospital Likas had the higher number of teenage pregnancy rates at 10%.



Teenage pregnancy was highest at 25% among the Orang Asli in Peninsular Malaysia.

## Factors associated with Teenage Pregnancy

- 65% had first trimester scan.
- 48% of teenage pregnancies were anemic at booking,
- 8% were associated with medical problems
- 0.27% were HIV positive and 0.17% had syphilis.

## Complications of Teenage Pregnancy

The most frequent complications associated with teenage pregnancies was

- Preterm labor (8.2%),
- Eclampsia (6%),
- Abruption placenta (4%).

## MATERNAL AND PERINATAL MORTALITY

There were 3 maternal deaths from this group of patients. The maternal mortality ratios in this group was 23 per 100,000 deliveries which was lower compared to the overall maternal mortality at 28 per 100,000 deliveries. The perinatal mortality was 9 per 1000 live births.

## DISCUSSION/CONCLUSION

The incidence of teenage pregnancy was 4.9%. This group had a lower incidence of maternal mortality and Caesarean section. A quarter of the patients in this group were from the ethnicity Orang Asli Peninsular Malaysia and this was probably due to their traditional customs. Teenage pregnancy predisposes to the risk of anemia and preterm delivery,

## REFERENCES

1. Beyer, D.A., Amari, F., Diedrich, K., Bohlmann, M.K., Weichert, J., Hornemann, A. (2011). Archives of Gynecology and Obstetrics. Teenage deliveries in Northern Germany: Always a risk factor for higher surgical delivery rates. 284 (3), 535-538.
2. Olaitan, O.L., Talabi, A.E., Olumirin, C.O., Braimoh, K.T., Kayode, O.O., Onigbinde, A.T. (2012). International Journal of Collaborative Research on Internal Medicine and Public Health. Risks experience during pregnancy among teenagers in South West Nigeria 4 (1), 2-12. Retrieved July 21, 2012 from www.scopus.com
3. Shah, N., Rohra, D.K., Shuja, S., Liaqat, N.F., Solangi, N.A., Kumar, K., Khan, N. (2011). Journal of the Pakistan Medical Association. Comparison of obstetric outcome among teenage and non-teenage mothers from three tertiary care hospitals of Sindh, Pakistan. 61 (10), 963-967. Retrieved July 21, 2012 from www.scopus.com
4. Thaithee, S., Thato, R. (2011). Obstetric and perinatal outcomes of teenage pregnancies in thailand. Journal of Pediatric and Adolescent Gynecology 24 (6), 342-346.

## ACKNOWLEDGEMENTS

Special thanks to everyone who work endlessly to key in data for NOR from 14 state in Malaysia: Hosp. Kuala Lumpur, Hosp. Raja Perempuan Zainab 11 Kota Bharu, Hosp. Sultanah Nur Zahirah Kuala Terengganu, Hosp. Tengku Ampuan Rahimah Klang, Hosp. Sultanah Bahiyah Alor Setar, Hosp. Sultanah Aminah Johor Bahru, Hosp. Melaka, Hosp. Tuanku Fuziah Kangar, Hosp. Raja Permaisuri Bainun Ipoh, Hosp. Tengku Ampuan Afzan Kuantan, Hosp. Tuanku Ja'afar Seremban, Hosp. Pulau Pinang, Hosp. Queen Elizabeth Kota Kinabalu & Hosp. Umum Sarawak.