

# Outcome of pregnant Women in Methadone Maintenance Treatment (MMT)

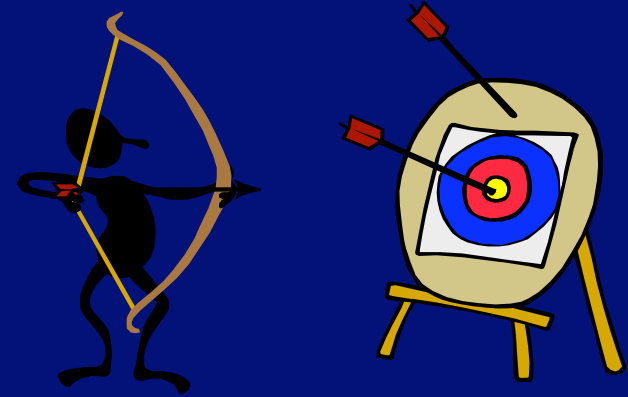
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## Conflict of Interest

*The authors have no financial interests relating to the topic of this presentation*

# AIMS

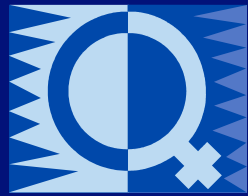


- To compare pregnant women to non-pregnant and men in MMT
  - Characteristics on admission
  - Outcome (retention, opiate abstinence)
- To characterize:
  - Pregnant women births outcome

# Population group

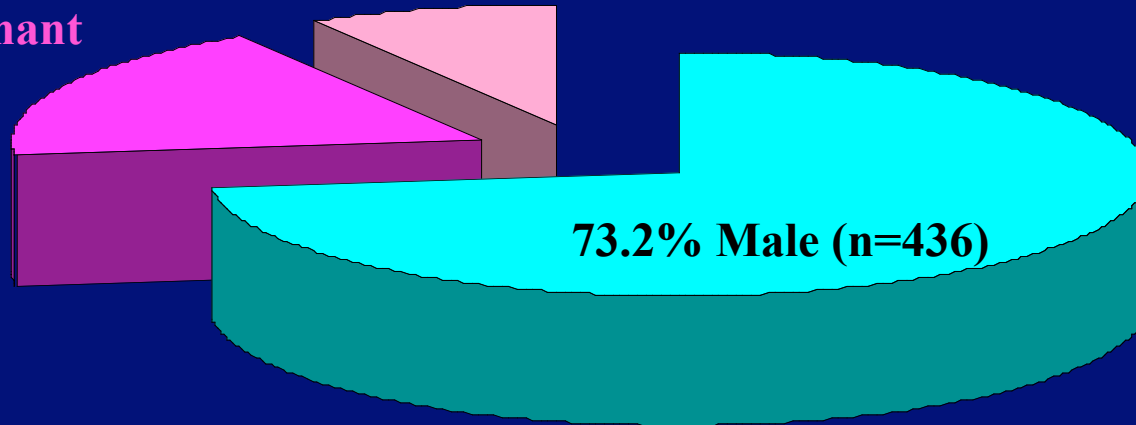
- Former Heroin addicts patients (DSM-IV)
- Adults (18+ years)
- Arriving voluntarily
- Waiting list ~12-24m
- Priority – pregnant women, HIV positive
- All 596 patients admitted to the Adelson clinic between 25/6/1993-31/12/2006

# Gender distribution (N=596)

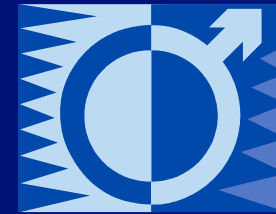


8.6% Pregnant (n=51)

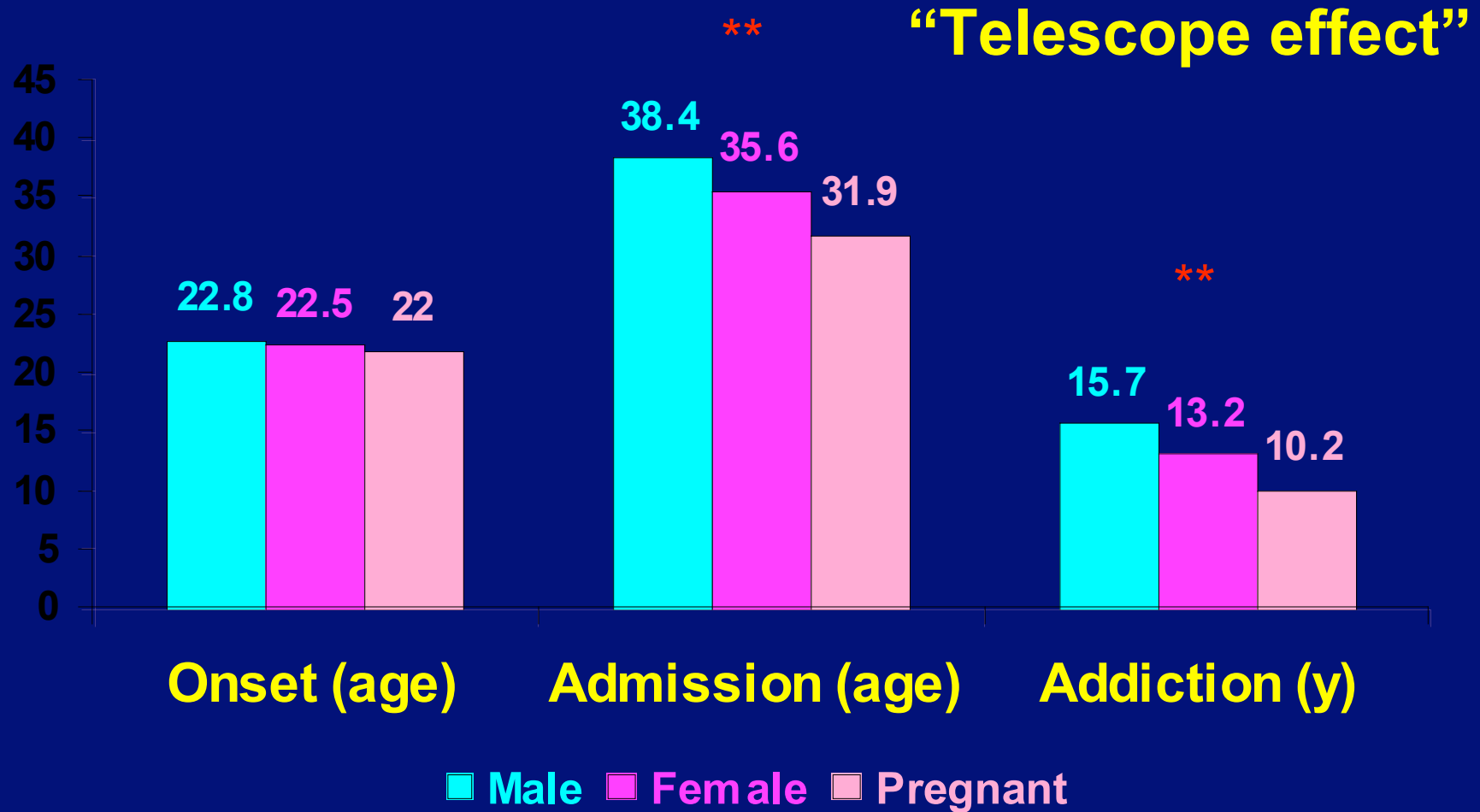
18.3% Non-Pregnant  
(n=109)



73.2% Male (n=436)

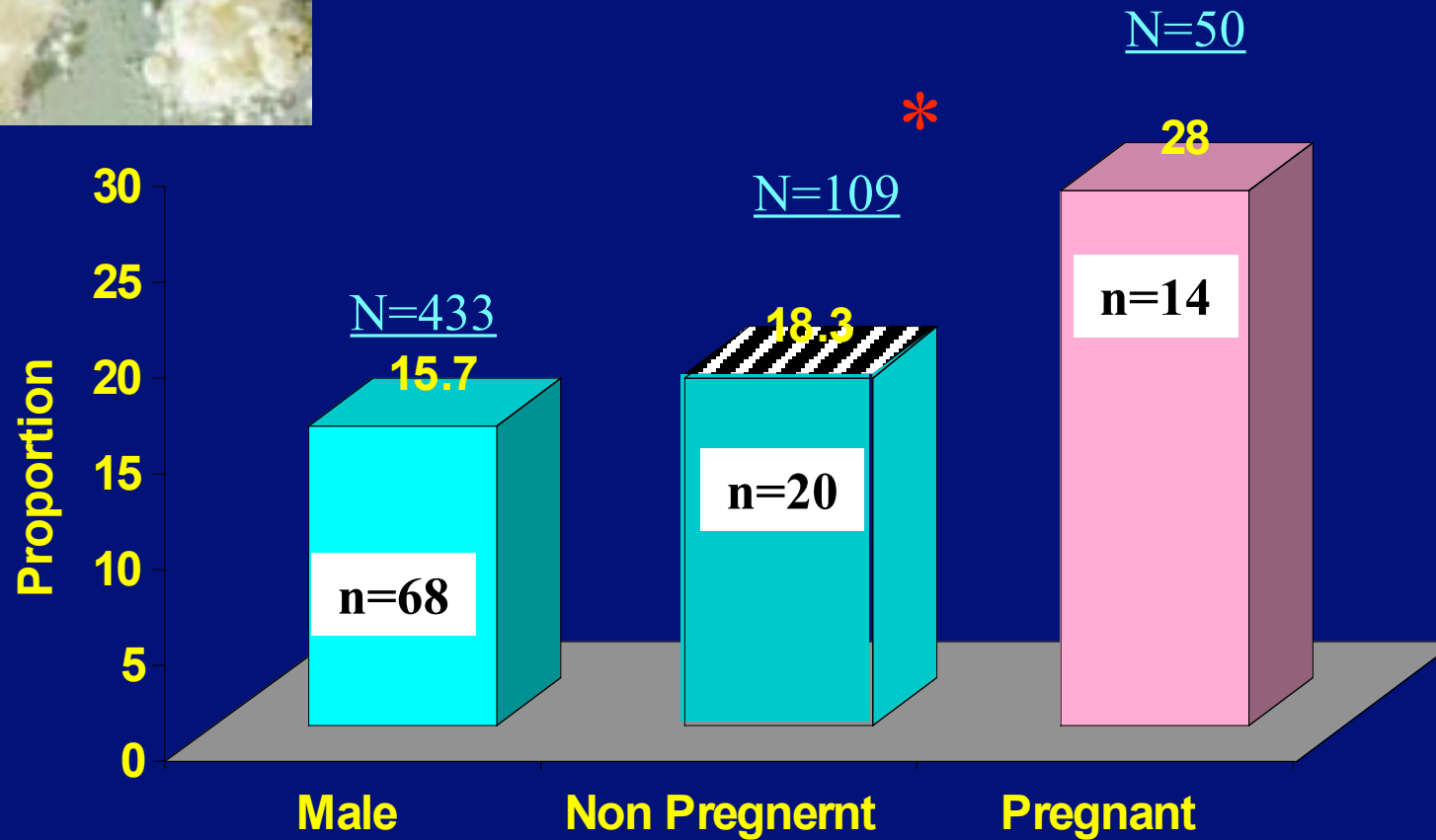


# Age of opiate onset, MMT admission, & opiate duration by male pregnant and non pregnant (N=596)



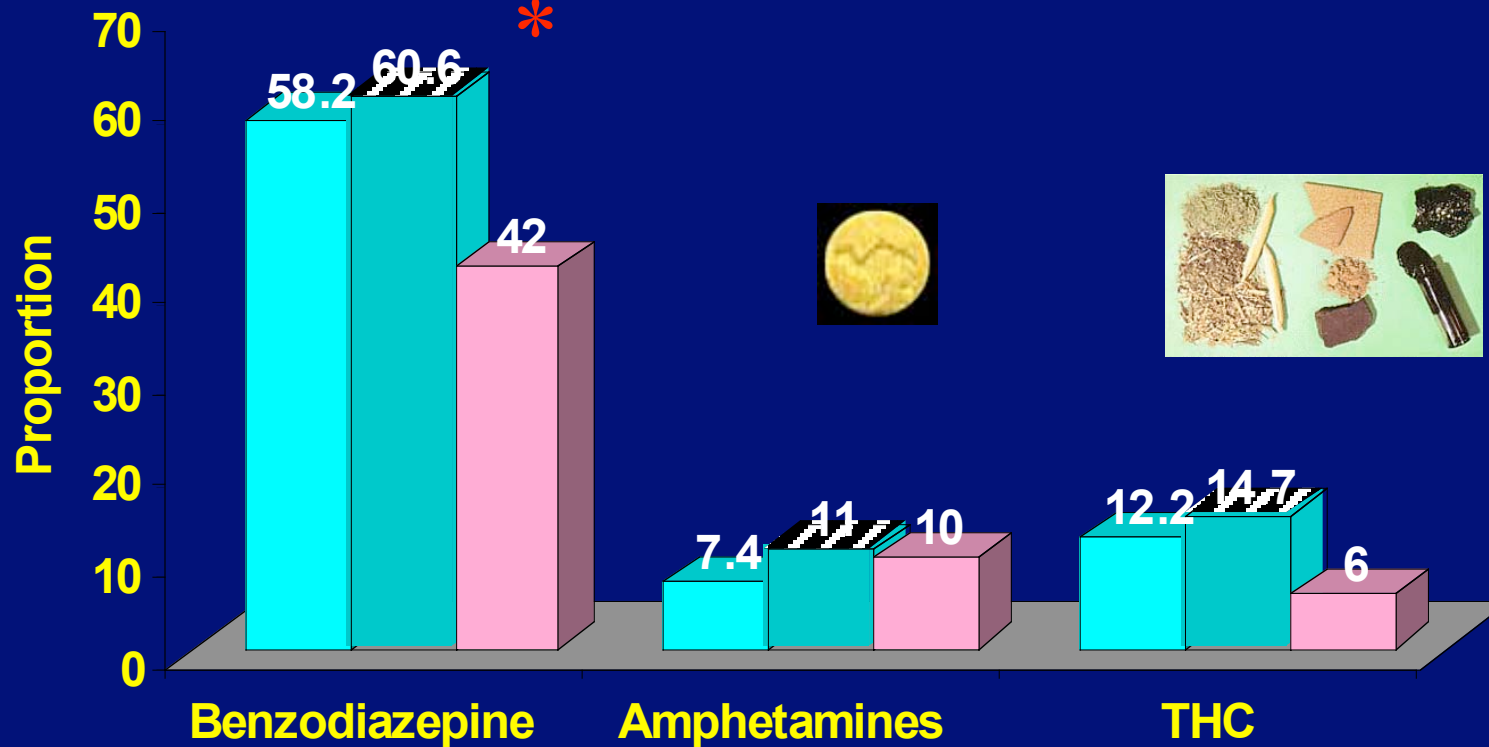
\*\*p<0.005, \*p<0.05

# Cocaine abuse on admission by Gender



\*Chi square 4.3, p=0.04

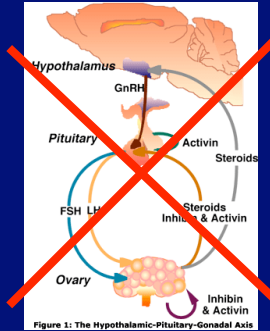
# Drug abuse on admission by Gender



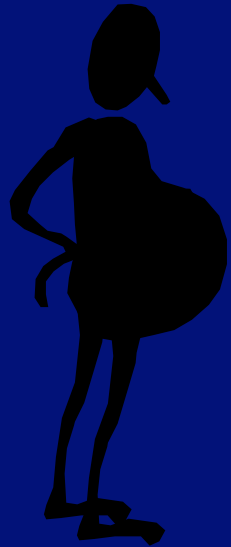
\*Chi square 5.3,  $p=0.07$

# Pregnancy ?

Hypothalamic Pituitary Gonadal Axis



Opiate



Benzodiazepine



Cocaine

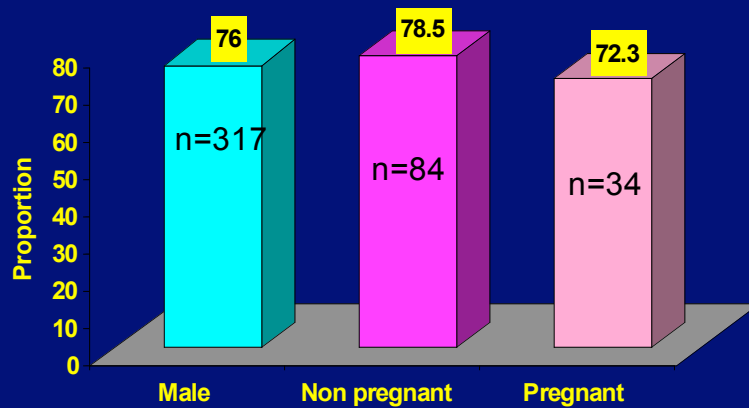




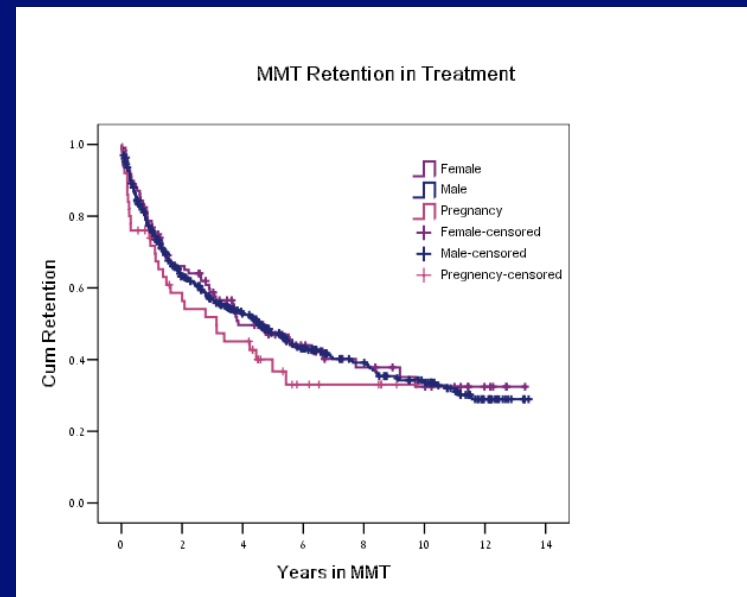
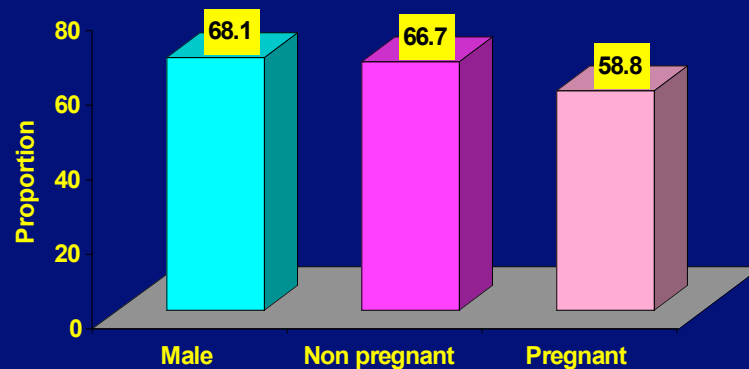
# One year retention rate\* by Gender



## Retention

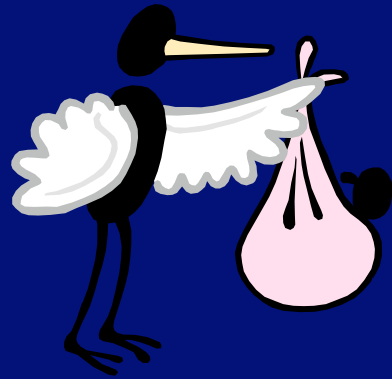


## Opiate abstinence

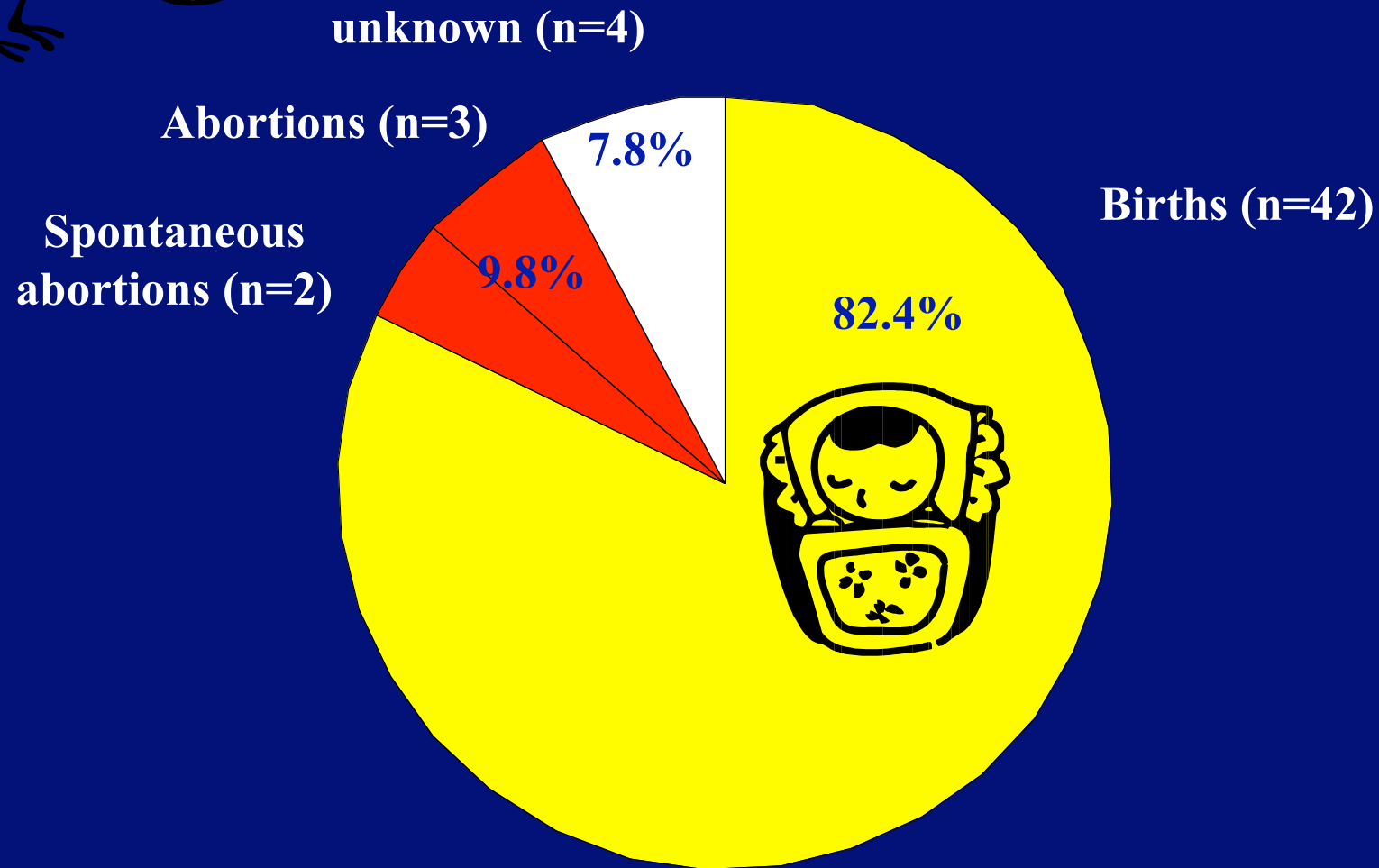


Male 6.2 (95%CI 5.7-6.8)  
 Female 6.3 (95%CI 5.2-7.4)  
 Pregnant 4.4 (95%CI 3.3-5.6)

\*435 stayed of all 571 who ever admitted until Dec 2005

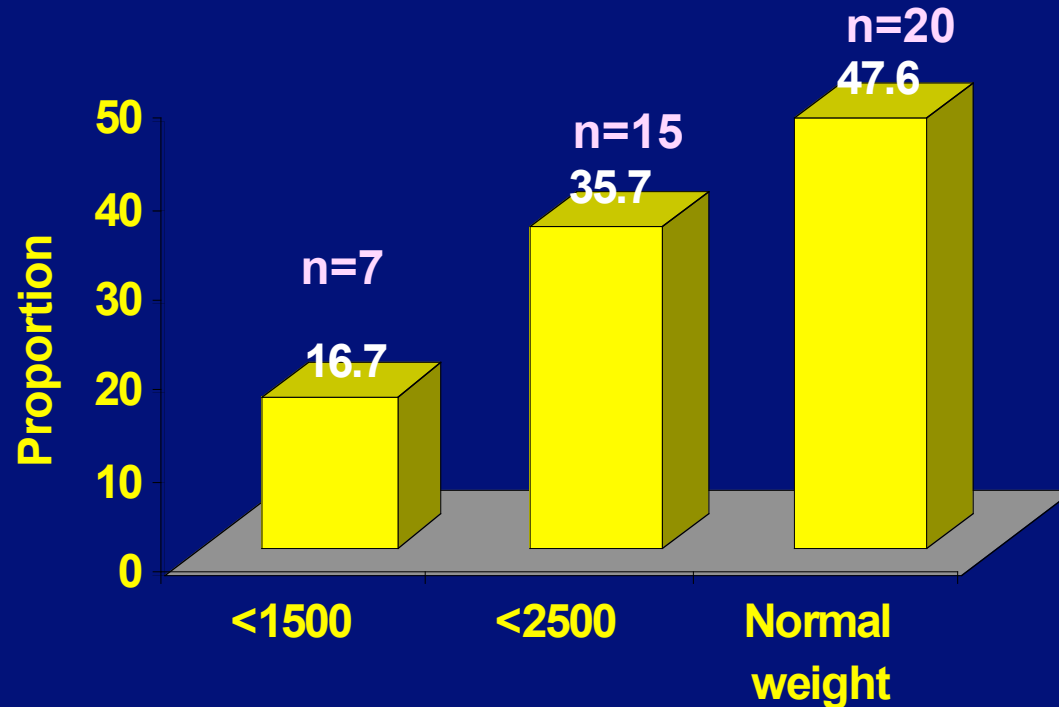


# Pregnancy outcome (N=51)



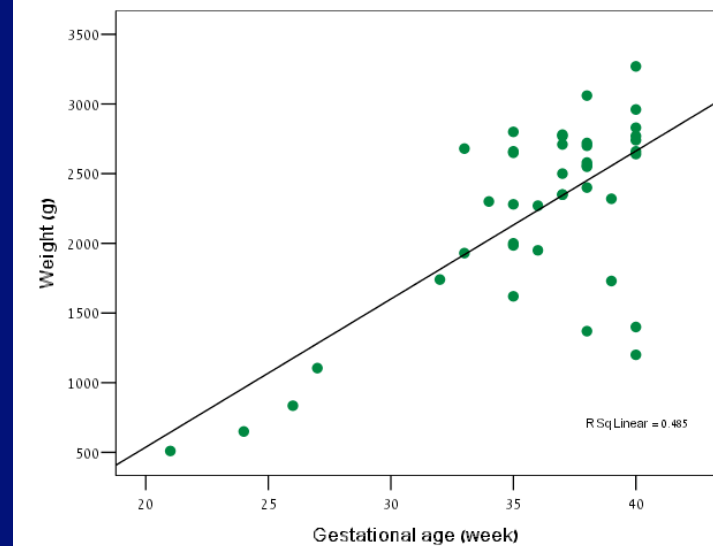
# Birth weight (n=42)

Mean  $2235.4 \pm 672.1\text{g}$  Range 510-3270g

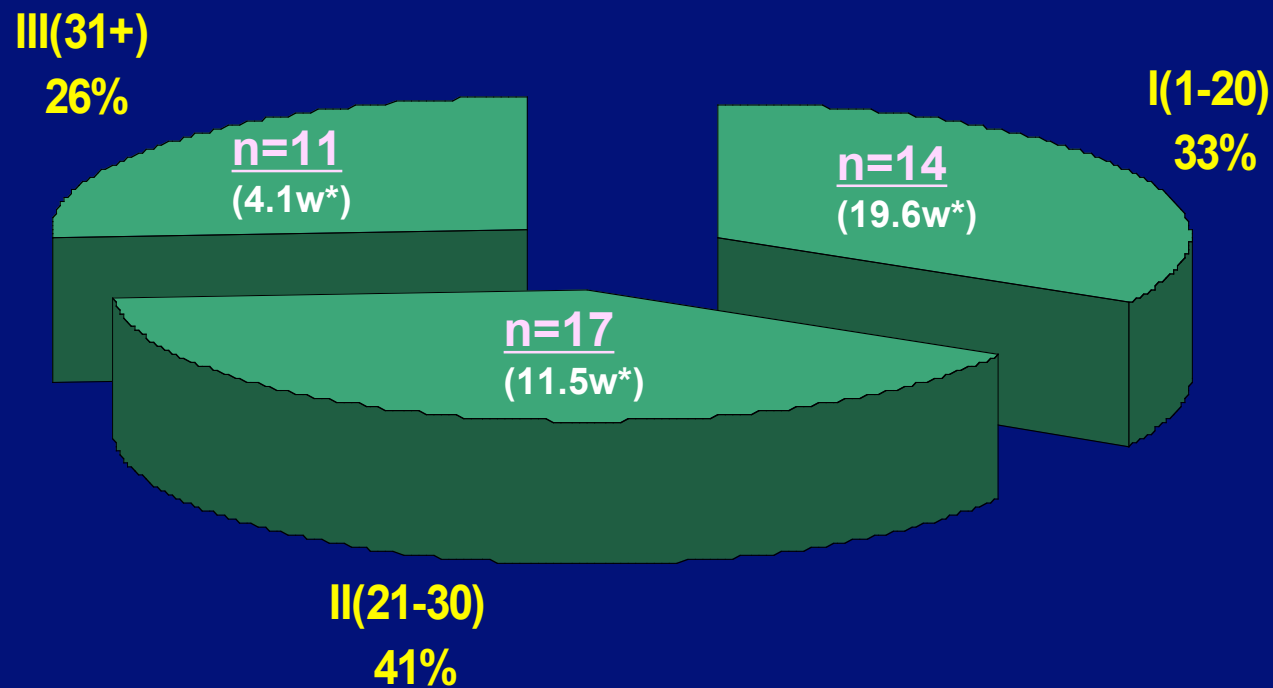


## Weight & Week birth

Week birth  
 $36 \pm 4.4, (21-40\text{w})$

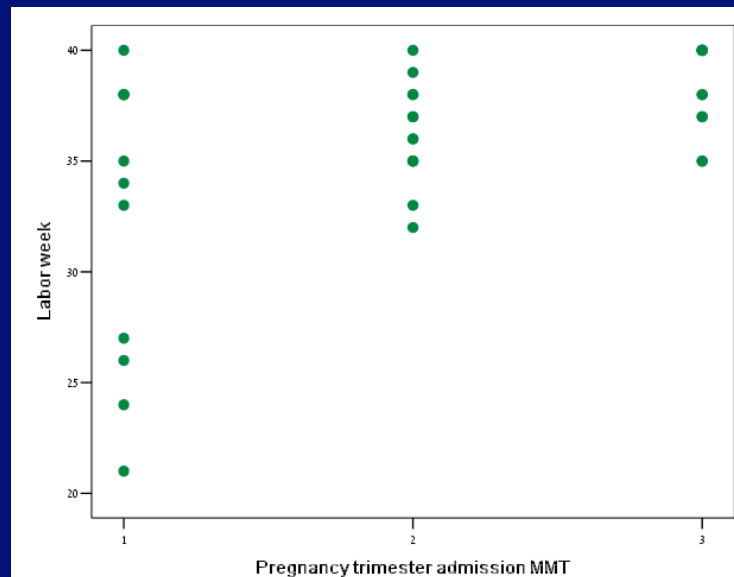
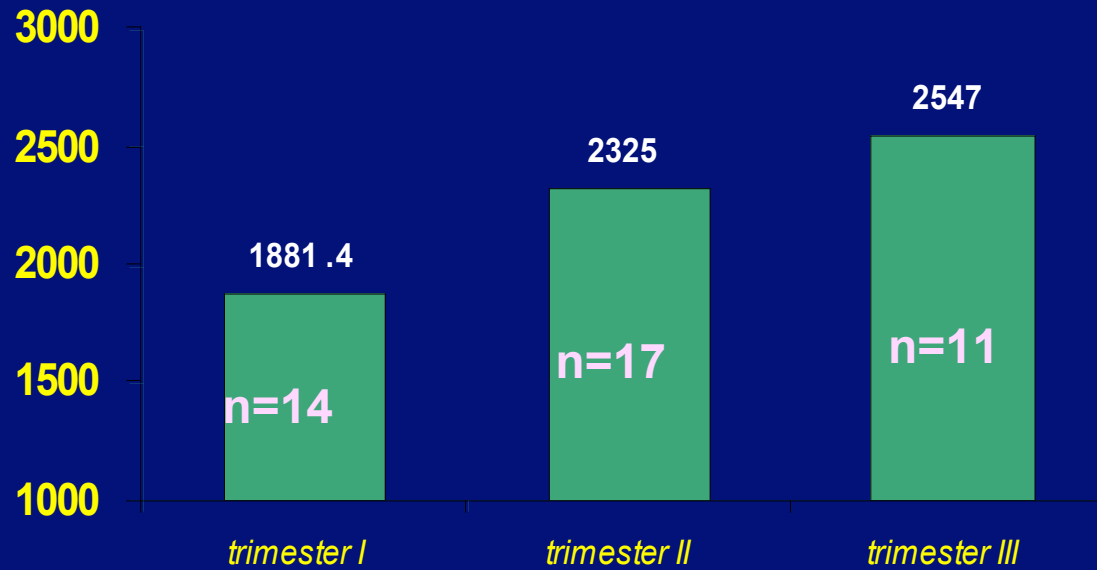


# Pregnancy trimester admission to MMT (N=42)

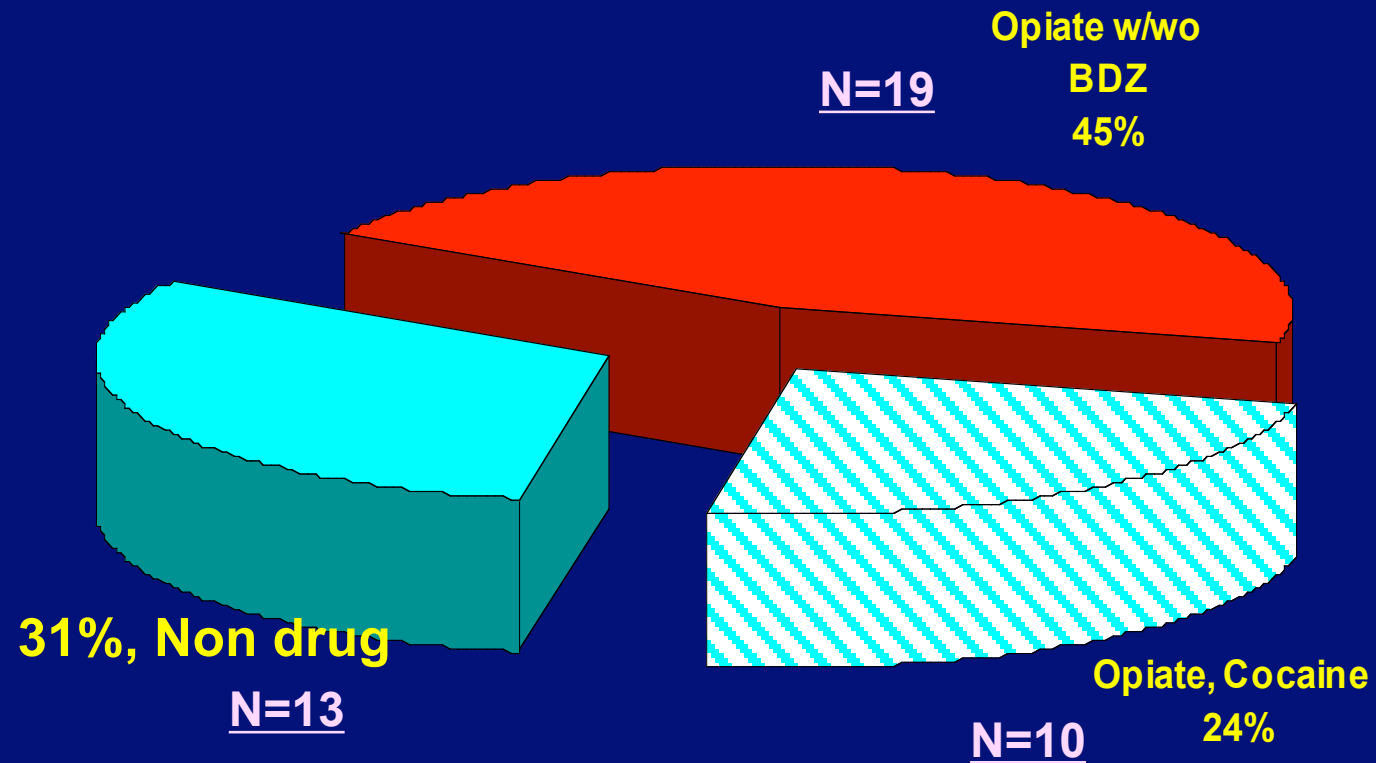


\*weeks in MMT until labor

# Birth Weight by pregnancy trimester admission to MMT

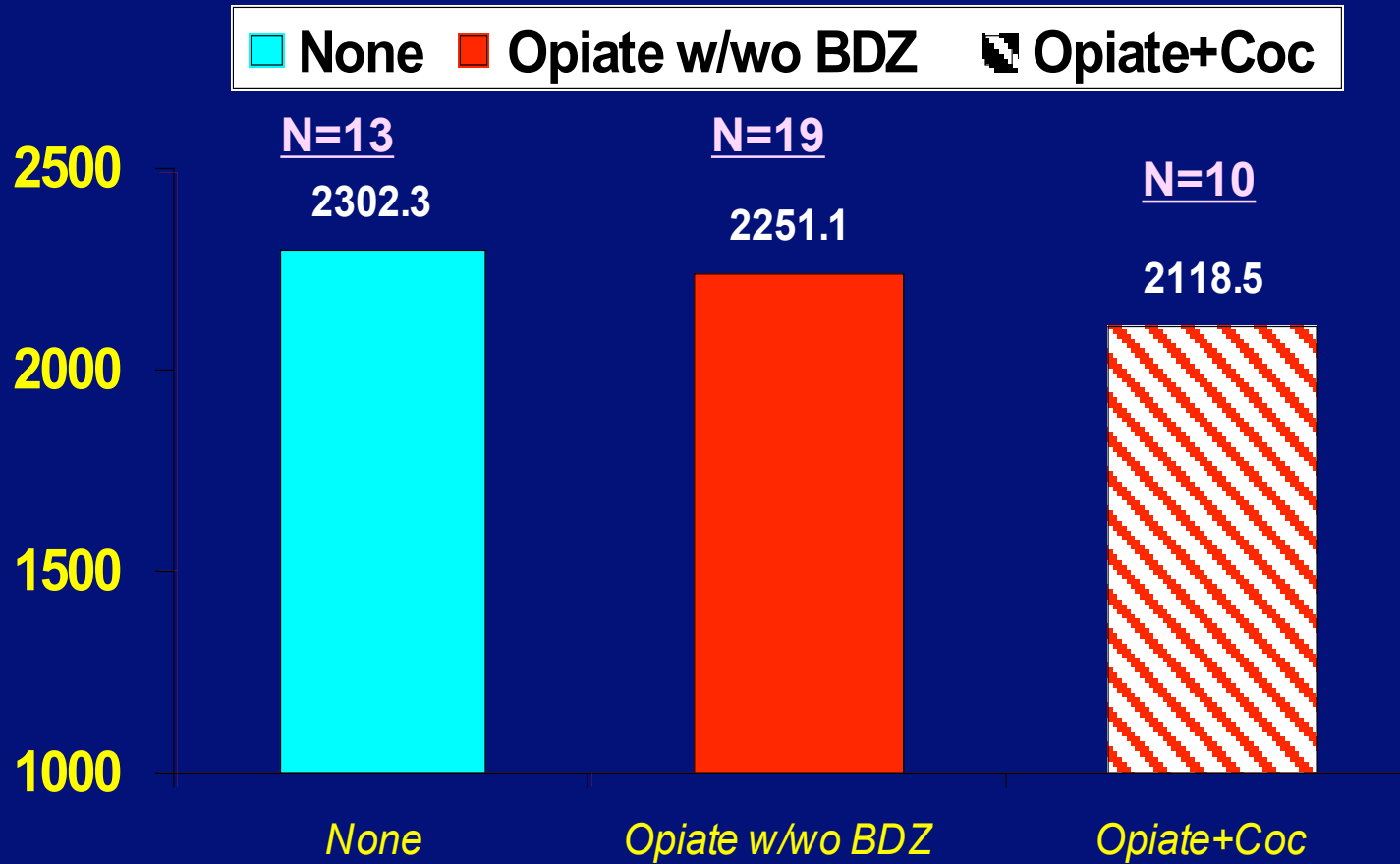


# Drug abuse during pregnancy in MMT

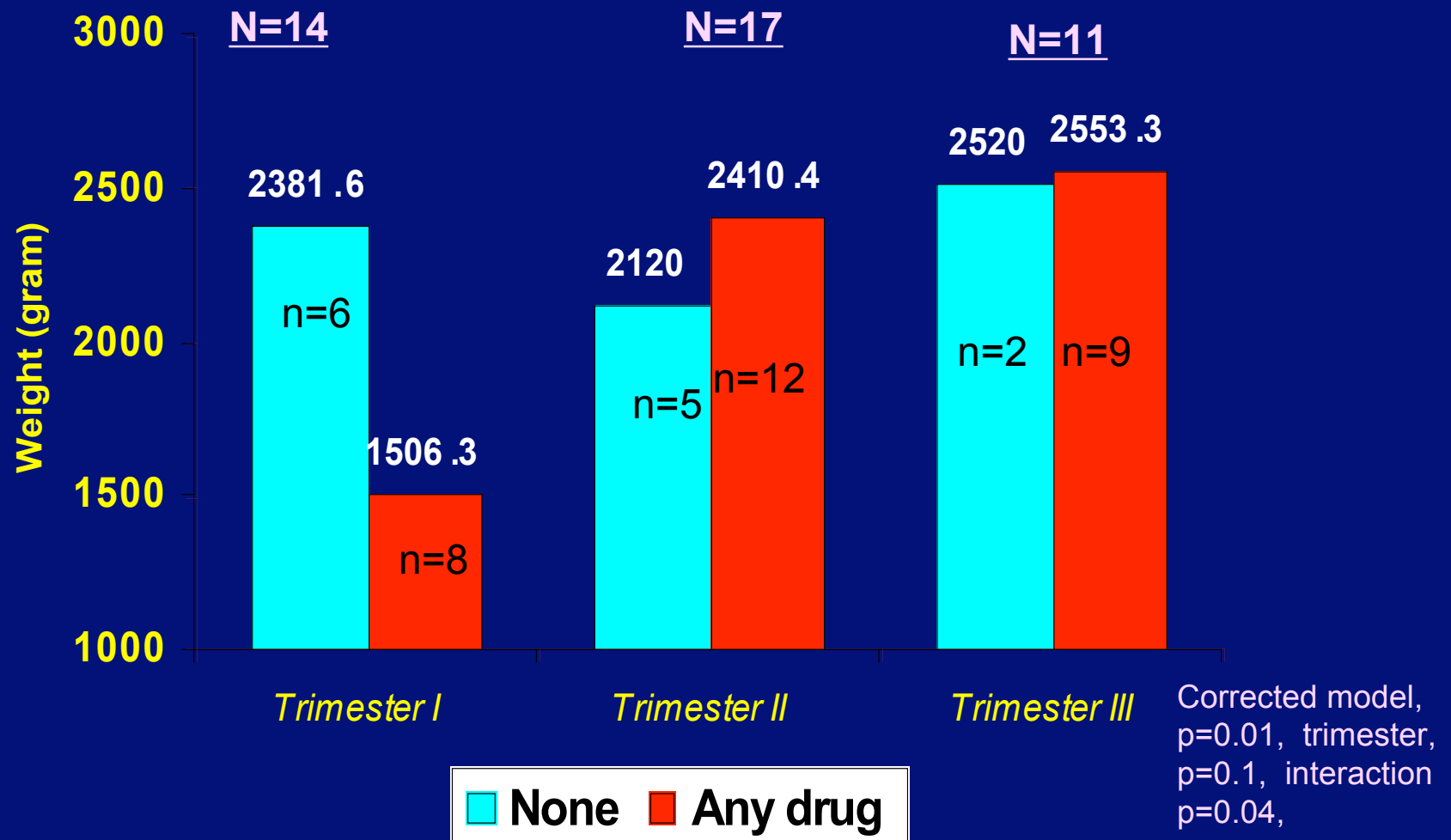




# Birth Weight by drug abuse during pregnancy



# Birth Weight by drugs abuse during pregnancy and trimester admission





# Summary

- Females presented 27% of MMT admission
- Third of the women were pregnant
- Pregnant women:
  - Were younger on admission
  - Had shorter duration of opiate abuse/addiction until starting MMT (telescope effect)
  - Had higher rate of cocaine and less of BDZ abuse on admission
- Similar high retention rate (72-78%) ,and opiate abstinence (59%-68%) observed

# Summary

- Of the 51 pregnant women - 42 babies were born
- Half of the babies had normal birth weight (>2500g)
- Third of the 42 mothers admitted on first trimester of pregnancy
- 31% of the 42 mothers stopped any drug abuse
- The weight of 1<sup>st</sup> trimester who stopped drug abuse was higher (2380g) than of those who continued abusing (1506g)
- (Pregnant women who admitted MMT during the second and third trimester of pregnancy, were a selective biased group)



thank  
you very  
much

