INTRODUCTION:

• Neonatal asphyxia is considered as one of the major factors leading to neonatal death\(^1,2\).

• All babies require assessment at birth but only 10% of newborns need some assistance at birth.\(^3,4\).

• Neonatal intensive care rotation in Pediatric residency program is a core element of the residency program.

• But neonatal resuscitation Training and the NRP course is not a prerequisite by Saudi Council for Health Specialist (SCFHS) for the residents.
AIM OF THE STUDY

• To assess the knowledge and practice of pediatric residents in the neonatal resuscitation.

OBJECTIVES

PRIMARY: To estimate the pediatric residents' knowledge of the neonatal resuscitation guidelines.

SECONDARY: To compare the knowledge of junior and senior residents in the training.
- To evaluate the effectiveness of NRP to improve the confidence of the residents.

METHOD

Study Design
- Cross Sectional

Study Subjects
- Pediatric Residents in Jeddah

Study Area
- Eight certified Pediatric Residency Program Hospitals in Jeddah, Saudi Arabia.

Study Tool
- Self Administered Questionnaire (38 questions)

Total Pediatric Residents 206
Approached Residents 123
Respondents 116

RESPONSE RATE - 94%
Results

Demographics

Knowledge Score Percentage
Mean=36.85% (SD =18.71)

Knowledge Level Between Juniors & Seniors

Knowledge Level and number of NR per year

Hospitals

Knowledge Level and number of NR per year

Taken NRP  | Yes | No | Total
--- | --- | --- | ---
N | 71 | 45 | 116
% | 61.2% | 38.8% | 100%
Results

Have you Taken the neonatal resuscitation program?

- Residents who took the NRP: 67.60%
- Residents who didn't take the NRP: 32.40%

P = 0.169

Perception of confidence Level to resuscitate Full-term baby between Juniors & Seniors

- Juniors: 76.32%
- Seniors: 97.37%

P = 0.04

Have you Taken the neonatal resuscitation program?

- Yes: 92.11%
- No: 7.89%

P < 0.001

Perception of confidence Level to resuscitate Pre-term baby between Juniors & Seniors

- Juniors: 48.64%
- Seniors: 51.35%

P < 0.01

Do you recommend Neonatal resuscitation program to be an essential component in pediatric residency program in Saudi Arabia?

- Yes: 95.69%
- No: 4.31%
The overall Knowledge of the Pediatric Residents in the neonatal resuscitation was below the necessary level.

Knowledge level was high among residents who took NRP although it didn’t reach statistical significant.

Neonatal Resuscitation Program was found to be effective in improving the confidence level among pediatric residents.

More exposure to the neonatal resuscitation in delivery room improves the level of confidence in pediatric residents.

The majority of the Pediatric residents recommend the NRP to be an essential component in the residency program.
CONCLUSION

- We **recommend** to Consider the NRP as an essential prerequisite for all the pediatric residents in the Saudi Board Residency Training Program at the entry of the program.

- To consider a regular NRP training through a MOC code and simulation during the pediatric residency program.

**Limitations of the study:**
- Time frame.
- Confidence can not be represented truly.
- Knowledge has been assisted with no relation to course date

**References:**


