#### PHILIPPINE CHILDREN'S MEDICAL CENTER Division of Neonatology



# A META-ANALYSIS ON THE EFFECT OF URSODEOXYCHOLIC ACID AS AN ADJUNCT TO PHOTOTHERAPY IN THE MANAGEMENT OF UNCONJUGATED HYPERBILIRUBINEMIA AMONG NEONATES

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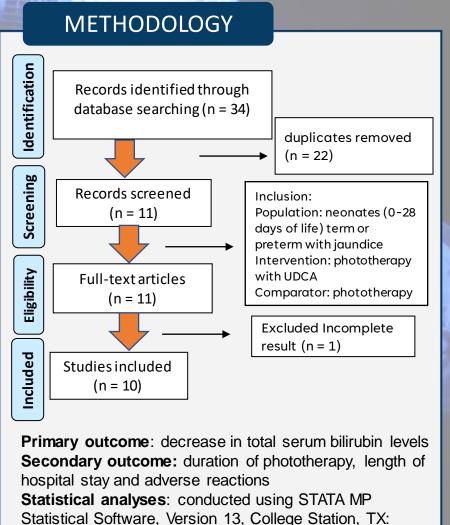
## **BACKGROUND**

Jaundice is one of the most common symptoms seen in newborns. Worldwide it occurs in up to 60% of term and 80% of preterm newborns in the first week of life. Severe forms of hyperbilirubinemia may lead to lifelong sequalae, economic and social burden to the family.

## **OBJECTIVE**

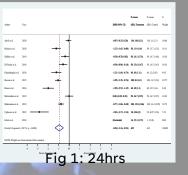
To determine the additive effect of ursodeoxycholic acid phototherapy in the treatment of unconjugated hyperbilirubinemia in neonates

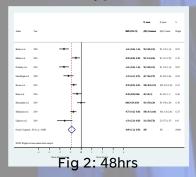
# **CONCLUSION** and **RECOMMENDATION**

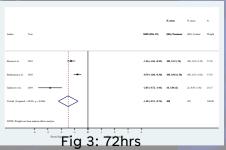


#### **RESULTS**

Pooled Estimate on Total Serum Bilirubin between **Experimental (Ursodeoxycholic Acid with** Phototherapy) and Control (Phototherapy)







Data showed that patients on ursodeoxycholic acid with

phototherapy have lower bilirubin levels on 24hrs, 48hrs and 72hrs from starting exposure compared to patients on phototherapy alone. This led to shorter duration on phototherapy and shorter hospital stay. There were no reported adverse reactions in both groups.

Ursodeoxycholic acid is a bile acid derivative and may safely be given as an adjunct to neonates with indirect hyperbilirubinemia. It enhances unconjugated bilirubin turnover by increasing its fecal disposal, thereby, decreasing duration of phototherapy and length of hospitalization.

KEYWORDS: jaundice, hyperbilirubinemia, phototherapy, ursodeoxycholic acid, UDCA, ursodiol

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