University Hospital and during 2010–2013 in other Finnish University Hospitals (Helsinki, K uopio, Tampere, Turku). DNA samples were genotyped using the Illumina HumanCoreExome BeadChip consisting of approximately 550,000 single-nucleotide polymorphisms (SNPs); after quality control, 60 cases (moderate-severe BPD) and 114 controls (no or mild BPD) remained for a genome-wide association study (GWAS). In the next step, approximately 200 SNPs showing suggestive signals are genotyped in additional infants (n = 116/232) to determine which associations are replicated.

**Results** In GWAS, we detected suggestive association signals (p < 1–4) for several SNPs; many of these SNPs were located within or near genes that can be considered as plausible candidate genes for BPD (e.g. the GRP and PTPN6 genes encoding C-reactive protein and protein-tyrosine phosphatase SHP-1, respectively). Some of the SNPs showing suggestive associations in two previous GWASs of BPD showed weak associations (e.g. those within the PALM2 and CTNNA3 genes).

**Conclusions** In genome-wide association study of BPD, we detected several suggestive associations. These initial results require verification in subsequent studies, including replication in additional populations and functional studies of the arising candidate genes.

**PO-0745 CONGENITAL DIAPHRAGMATIC HERNIA IN NEONATES – FIRST TIME ASSESSMENT OF OUTCOME AMONG PALESTINIAN BABIES**

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**Objectives** To review our NICU and surgical experience of all cases of CDH that was admitted to our hospital in last 10 years. To identify the risk factors for morbidity and mortality.

**Setup** Makassed Charitable Hospital, main tertiary hospital for Palestinian Territories (West Bank, Gaza and East Jerusalem).

**Material and methods** Retrospective Review of all cases of CDH that was admitted to our NICU between January 2003 and December 2013. Data about: Antenatal diagnosis, gestational age, birth weight, Apgar score, Blood gas at delivery, time of surgery; finding at surgery, ventilation days, mortality outcome and several other items were recorded and analysed. Primary outcome was: mortality, total days of ventilation and total days of Oxygen requirement.

**Results** Thirty three (n = 33) cases of CDH were reviewed. Twenty two cases were inborn (67%). Mortality was 10 cases (30%). Twenty three cases were discharged home alive and off oxygen therapy (70%). Better survival rate after 2009 (77%) Vs 63%) this could be due to gentle ventilation strategies, better use of antenatal ultrasound for diagnosis. Lower mortality and less ventilation days were significantly associated with lower initial PaCO2 (p < 0.001) and higher PH (p < 0.001) and higher Gestational age (P 0.05). Presence of liver and/or spleen as part of hernia contents correlates negatively with the primary outcome (p < 0.05).

**Conclusion** This is the first study that outlines the mortality and morbidity and their risk factors in Palestinian Territories with no ECMO is used demonstrating fairly good outcome with gentle ventilation strategies and antenatal diagnosis.