

Table 1. Methodological characteristics of included studies							
Year; Author	Country	Study design	PA diagnostic criteria	Exclusion criteria	Birth	Cut-off value	NOS score
1995; Bader	Israel	Retrospective	·5 min Apgar ≤ 5 and/or pH ≤ 7.2 ·Base deficit ≥ 12 mEq/L	Oliguria; serum creatinine >1 mg/dl	Term	1.2	7
1998; Akisu	Turkey	Prospective	2 of the following: ·Intrapartum fetal distress \pm meconium stained liquor ·5 min Apgar <6 and/or pH <7.15 ·Need for immediate resuscitation	Any congenital malformation or infection; any metabolic disorder; transient drug depression	Term	-	8
2000; Chen	China	Retrospective	2 of the following: ·5 min Apgar ≤ 5 ·pH <7.25 ·Base deficit ≥ 12 mEq/L ·Need for immediate resuscitation	Fetal distress; intrauterine growth retardation; emergent delivery; placental bleeding; positive meconium staining of amniotic fluid; gestational hypertension; gestational diabetes; any maternal systemic disease	Term + Preterm	-	8
2004; Erdag	Turkey	Retrospective	2 of the following: ·Intrapartum fetal distress ·5 min Apgar <6 and/or pH <7.2 ·Need for immediate resuscitation	Any congenital malformation or infection; any metabolic disorder; oliguria; serum creatinine >2 mg/dl	Term	-	7
2008; Banupriya	India	Retrospective	2 of the following: ·5 min Apgar ≤ 7 ·pH <7.1 ·meconium stained liquor ·Fetal heart rate abnormalities ·Evidence of HIE	Any congenital malformation or infection; intrauterine growth retardation; any chronic maternal disease; gestational hypertension; gestational diabetes	Term	-	6
2008; Basu	India	Retrospective	·5 min Apgar ≤ 6	Any congenital malformation; any metabolic disorder; anuria; transient drug depression; gestational hypertension; gestational diabetes; maternal febrile disease within 2 weeks before delivery	N/A	-	7
2011; Vandana	India	Prospective	2 of the following: ·Intrapartum fetal distress \pm meconium stained liquor ·5 min Apgar <6 ·pH <7.2 ·Need for immediate resuscitation	Any congenital malformation; any metabolic disorder; low birth weight; transient drug depression	Term	-	8
2012; Shashidhara	India	Prospective	3 of the following: · Intrapartum fetal distress \pm meconium	Any congenital malformation; hemolytic disease; transient drug depression; maternal smoking; antiepileptic or alcohol	Term	1.44	8

			stained liquor ·1 min Apgar <7 ·pH <7 ·Need for immediate resuscitation ·Evidence of HIE	intake; drug addiction			
2014; Khalesi	Iran	Retrospective	·Intrapartum fetal distress ·5 min Apgar <7 ·pH <7.2	Any congenital malformation or infection; any metabolic disorder; oliguria; serum creatinine >2 mg/dl	Term	1.2	7
2015; Bhongir	India	Retrospective	·1 or 5 min Apgar <7 or ·pH <7	Any congenital malformation; anuria; transient drug depression; maternal febrile disease within 2 weeks before delivery	Term + Preterm	2.43	7
2016; EL Bana	Egypt	Retrospective	2 of the following: ·5 min Apgar ≤7 ·pH <7.1 ·Meconium stained liquor ·Fetal heart rate abnormalities ·Evidence of HIE	Any congenital malformation or infection; hemolytic disease; umbilical cord anomalies; gestational hypertension; gestational diabetes; any maternal systemic disease	Term	-	8
2017; Choudhary	India	Prospective	·Intrapartum fetal distress ·1 min Apgar <7 ·Need for immediate resuscitation ·Evidence of HIE	Any congenital malformation; hemolytic disease; transient drug depression; maternal smoking; antiepileptic or alcohol intake; drug addiction	Term + Preterm	1.5	7
2017; Patel	India	Retrospective	·5 min Apgar ≤6	Any congenital malformation; any metabolic disorder; anuria; transient drug depression; gestational hypertension; gestational diabetes	Term + Preterm	2.3	6
2017; Yashwanth	India	Prospective	·5 min Apgar ≤6	Any congenital malformation; any metabolic disorder; anuria; transient drug depression; maternal febrile disease within 2 weeks before delivery	Term	1.4	7

PA: perinatal asphyxia; HIE: hypoxic-ischemic encephalopathy; NOS: Newcastle-Ottawa Scale