



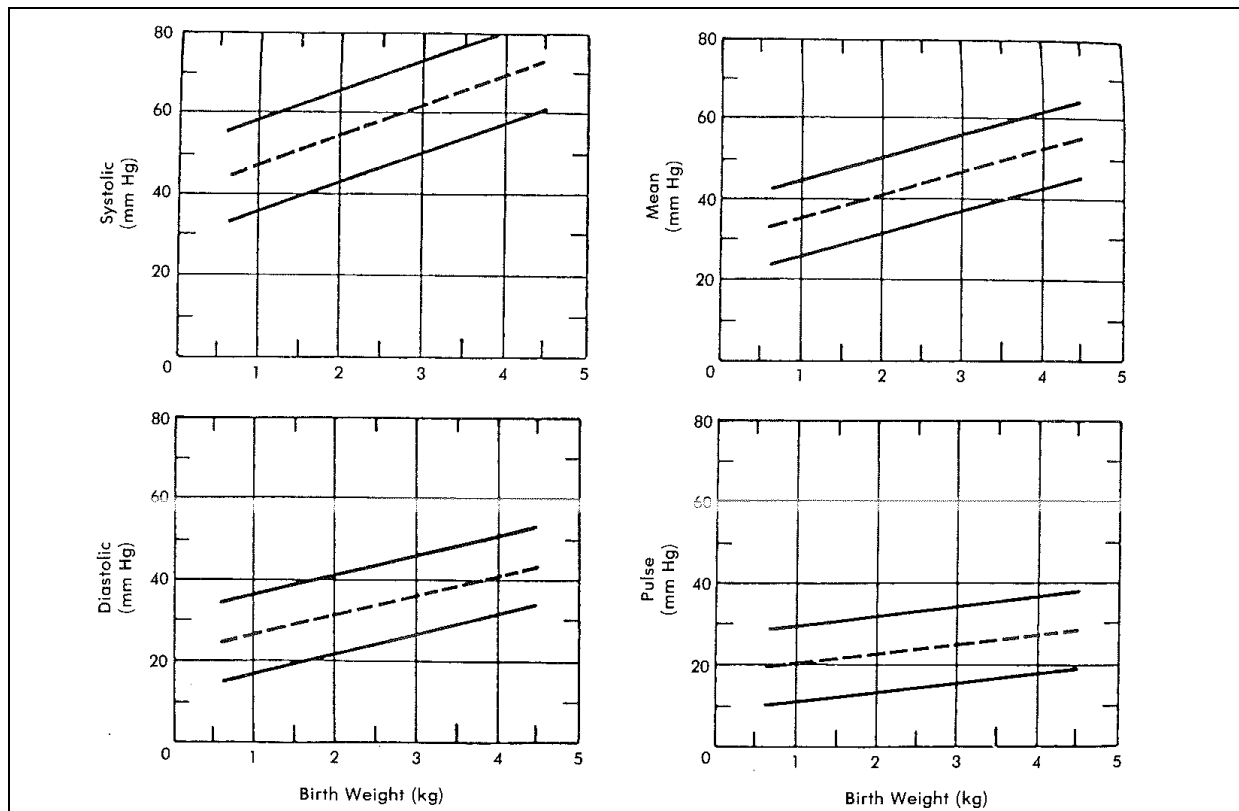
**CLINICAL PRACTICE GUIDELINE**

Guideline coverage includes NICU KEMH, NICU PMH and NETS WA

# Monitoring: Blood Pressure Normal Limits

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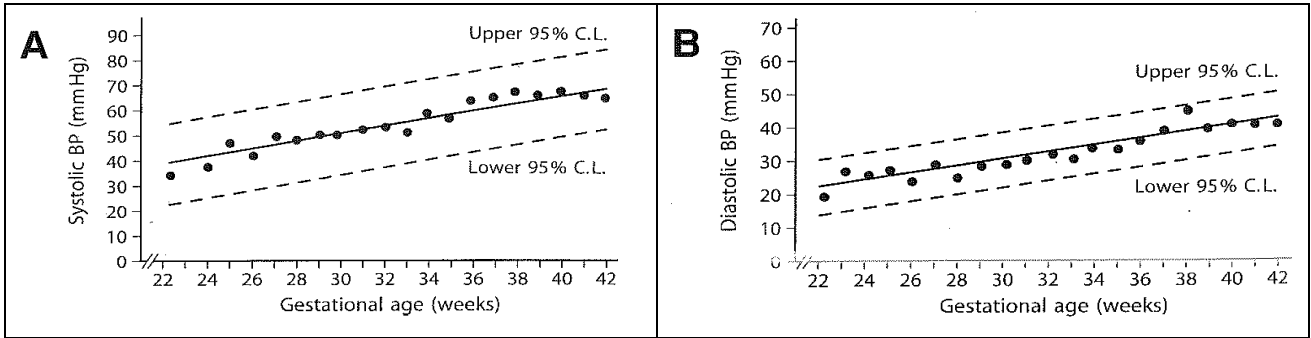
## Mean Systolic, Diastolic and Mean Aortic Blood Pressures and Mean Pulse by Birthweight During the 1st 12 Hours of Life (Versmold et al) [1]



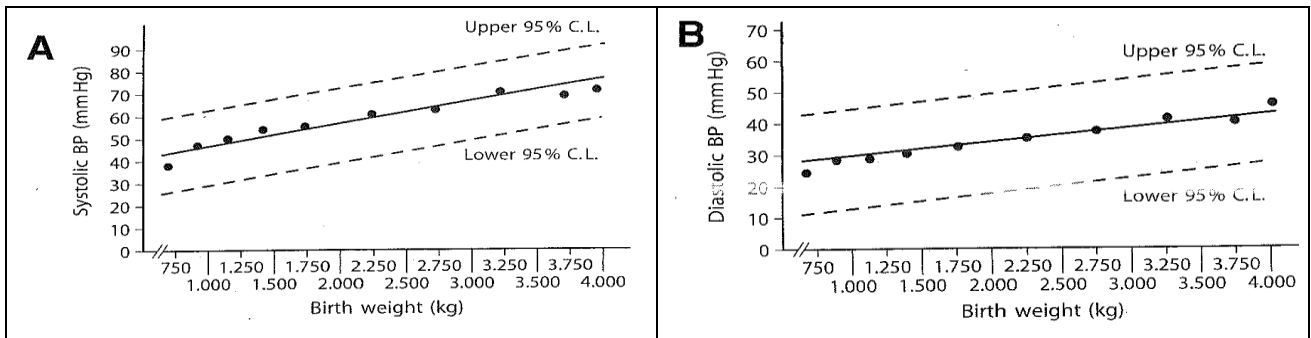
## Blood Pressure Ranges in Preterm Infants by Weight during the First Hours of Life (Hegyí et al) [2]

BIRTHWEIGHT (g)	<i>n</i>	SYSTOLIC (mm Hg)	DIASTOLIC (mm Hg)
501-750	18	50-62	26-36
751-1000	39	48-59	23-36
1001-1250	30	49-61	26-35
1251-1500	45	46-56	23-33
1501-1750	51	46-58	23-33
1751-2000	61	48-61	24-35

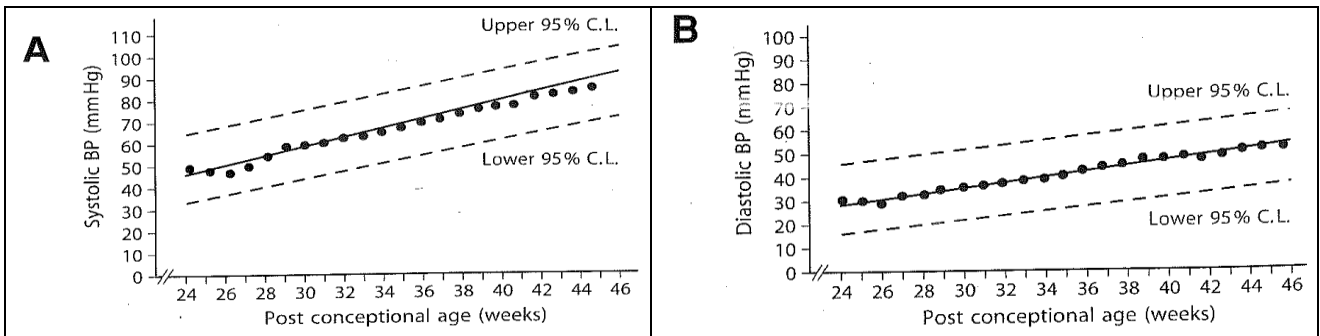
**Mean Systolic (A) and Diastolic (B) Blood Pressures by Gestational Age on Day 1 of Life (Zubrow et al) [3]**



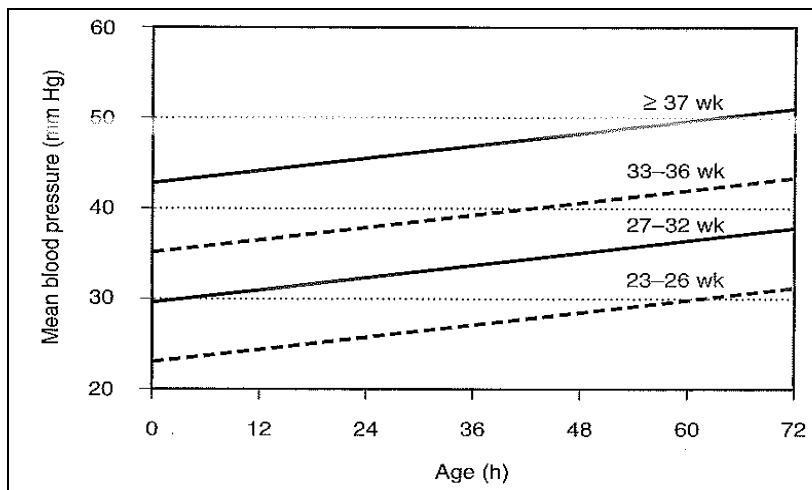
**Mean Systolic (A) and Diastolic (B) Blood Pressures by Birthweight on Day 1 of Life (Zubrow et al) [3]**



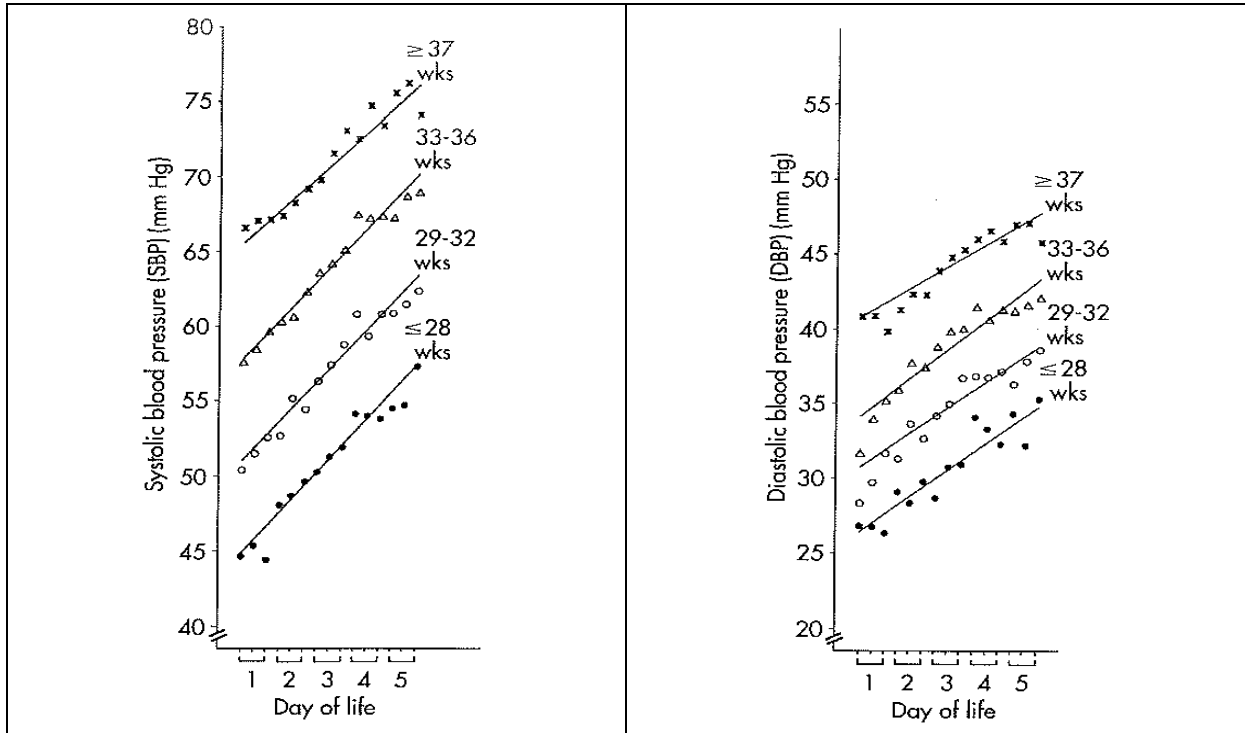
**Mean Systolic (A) and Diastolic (B) Blood Pressures by Postconceptional Age in Weeks (Zubrow et al) [3]**



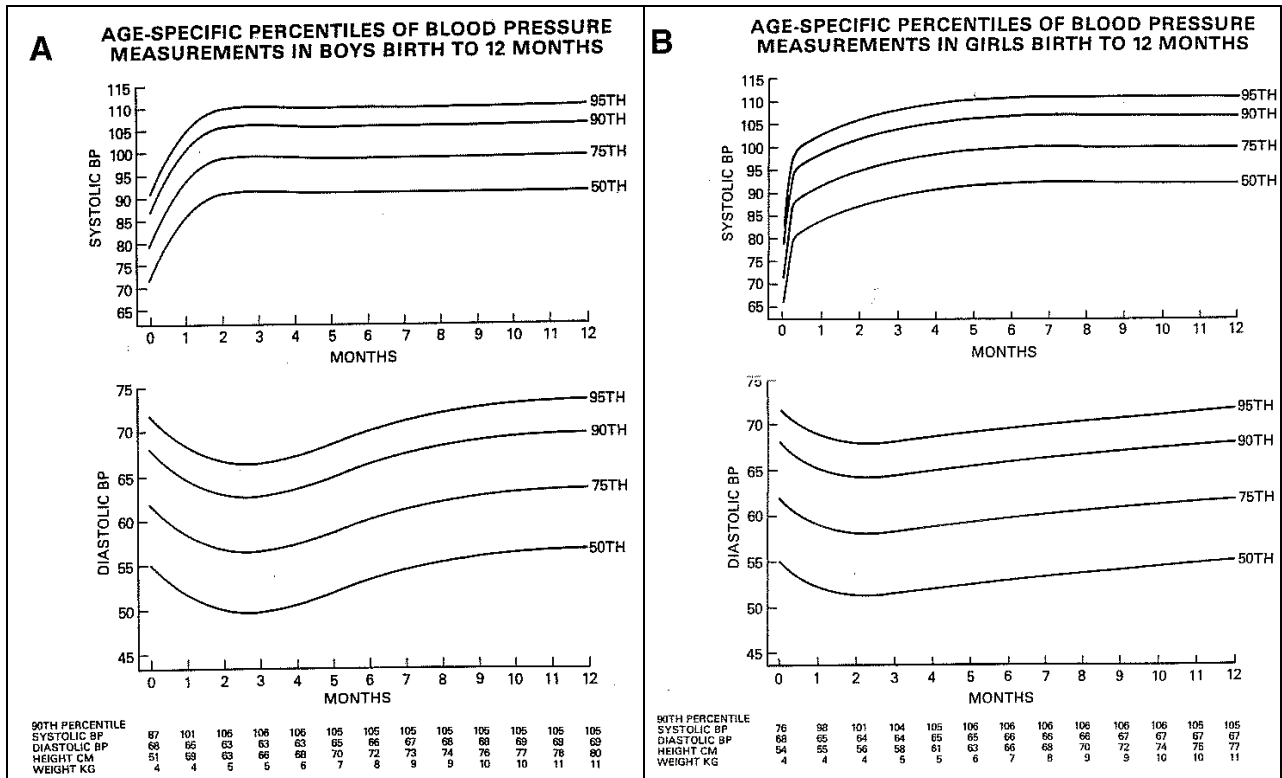
**Mean Blood Pressure by Gestational Age Over the 1<sup>st</sup> 72 Hours of Life (Nuntnarumit et al) [4]**



**Mean Systolic and Diastolic Blood Pressures by Gestational Age Over the 1<sup>st</sup> 5 Days of Life (Zubrow et al) [3]**



**Age-Specific Percentiles Of Blood Pressure Measurements In Boys (A) And Girls (B) Birth To 12 Months (Report Of The Second Task Force On Blood Pressure Control In Children—1987, Pediatrics Vol 79, 1987)**



## References

1. Versmold, H.T., et al., *Aortic blood pressure during the first 12 hours of life in infants with birth weight 610 to 4,220 grams*. Pediatrics, 1981. **67**(5): p. 607-13.
2. Hegyi, T., et al., *Blood pressure ranges in premature infants. I. The first hours of life*. J Pediatr, 1994. **124**(4): p. 627-33.
3. Zubrow, A.B., et al., *Determinants of blood pressure in infants admitted to neonatal intensive care units: a prospective multicenter study*. Philadelphia Neonatal Blood Pressure Study Group. J Perinatol, 1995. **15**(6): p. 470-9.
4. Nuntnarumit, P., W. Yang, and H.S. Bada-Ellzey, *Blood pressure measurements in the newborn*. Clin Perinatol, 1999. **26**(4): p. 981-96.

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