

Komplikasi Bayi Prematur					
Permasalahan jangka pendek dan jangka panjang pada bayi prematur dengan VLBW					
Organ / sistem yang terganggu	Permasalahan jangka pendek	Permasalahanjangka panjang			
Paru	Sindrom gagal napas, kebocoran udara, displasia bronkopulmonar , henti napas	Displasia bronkopulmonar , asma, penyakit paru reaktif			
Gastrointestinal / nutrisi	Hiperbiliribunemia, intoleransi makanan, enterokolitis nekrotikans, gagal tumbuh	Failure to thrive short-bowel syndrome, kolestasis			
Imunologi	Hospital-acquired infection, defisiensi imun, infeksi perinatal	Respiratory syncytial virus infection Bronkiolitis			
Sistem saraf pusat	Perdarahan intraventrikel, periventricular white-matter injury, hidrosefalus	Cerebral palsy, hidrosefalus, atrofi serebral , keterlambatan perkembangan saraf, gangguan pendengaran			
Mata	Retinopati prematuritas	Kebutaan, retinal detachment, miopia, strabismus			
Kardiovaskular	Hipotensi, PDA, hipertensi pulmonal	Hipertensi pulmonal, hipertensi pada usia dewasa			
Ginjal	Ketidakseimbangan cairan dan elektrolit, gangguan keseimbangan asam basa	Hipertensi pada usia dewasa			
Hematologi	Anemia iatrogenik , kebutuhan untuk trasfusi anemia pada prematuritas				
Endokrin	Hipoglikemia, rendahnya hormon tiroksin (transien), defisiensi kortisol	Gangguan regulasi glukosa , peningkatan resistensi insulin			

Biaya Persalinan Bayi Preterm Bayi Sehat Normal - \$3,640

Kondisi bayi	Jumlah Bayi	Rerata Biaya	Total Biaya	
Late Preterm	4,546	\$ 8,032	\$ 36,515,327	
Preterm	6,686	\$19,781	\$132,255,522	
Very Preterm	1,332	\$59,320	\$ 79,013,727	
Very Low Birthweight	1,217	\$63,877	\$ 77,738,693	
Birth Defect	1,622	\$34,713	\$ 56,304,736	
Infant Death	485	\$35,327	\$17,133,818	
Neonatal Death (< 28 days of life)	263	\$ 16,581	\$ 4,360,854	
At Risk Birth	3,523	\$36,976	\$130,268,583	

Estimasi biaya akibat persalinan preterm selama periode 12 bulan setelah lahir (Inggris)

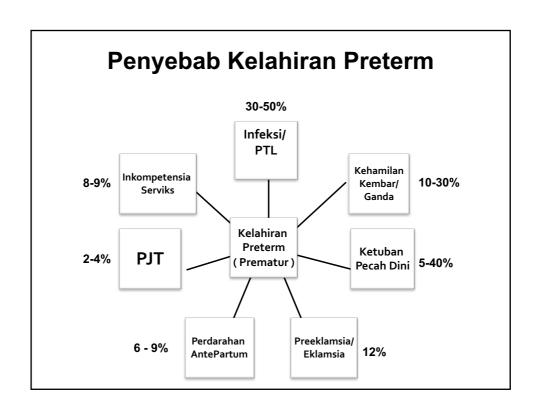
No	Komponen biaya	Biaya yang dikeluarkan (UK£)
1.	Biaya rawat inap di rumah sakit	605
2.	Biaya rawat jalan	255
3.	Biaya layanan sosial dan komunitas	422
4.	Biaya obat	10
5.	Biaya pendidikan	7.620
6.	Pengeluaran tambahan keluarga	573
7.	Biaya tidak langsung	56
	Total	9.541

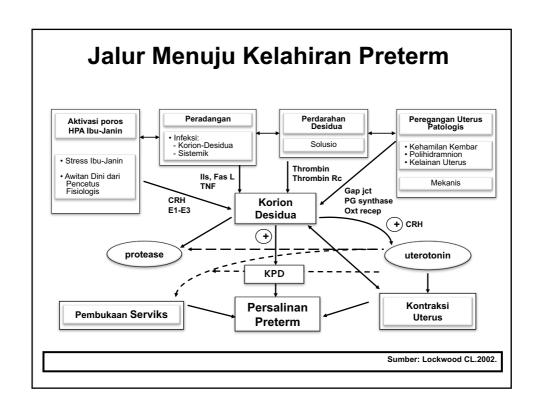
Petrou S, Henderson J, Bracewell M, Hockley C, Wolke D, Marlow N. Pushing the boundaries of viability: the economic impact of extreme preterm birth. Early Human Development (2006) 82, 77—84.

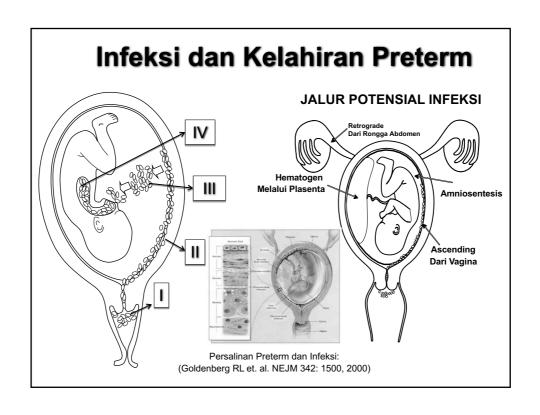
Estimasi biaya akibat persalinan preterm selama periode 1 bulan setelah lahir di perawatan Perinatologi RSCM

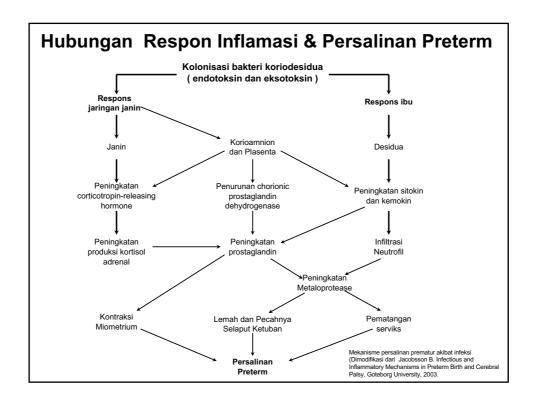
No	Kampanan hiaya	Biaya yang dikeluarkan		
NO	Komponen biaya	Biaya yang dikeluarkar 28 – 32 mg (30 hr) / Jt R 30 x 1.5 = 45 30 x 2.5 = 75 30 x 3.5 = 105 30 x 0.05 = 1.5 30 x 0.05 = 1.5		
	Biaya rawat inap di rumah sakit			
1.	SCN 1-2	30 x 1.5 = 45		
	NICU	$30 \times 2.5 = 75$		
2.	Biaya rawat jalan			
3.	Biaya layanan sosial dan komunitas			
4.	Biaya obat	30 x 3.5 = 105		
5.	Biaya pendidikan			
6.	Pengeluaran tambahan keluarga	$30 \times 0.05 = 1.5$		
7.	Biaya tidak langsung	$30 \times 0.05 = 1.5$		
	Total	30 hari = 153 - 183		

Data perawatan perinatologi RSCM 2010









Faktor Risiko Persalinan Preterm

- Riwayat Persalinan Preterm (15-30%)
- Riwayat Keguguran
- Riwayat Merokok
- Keputihan
- · Infeksi gigi/Periodontal
- Usia >35 Atau <17
- · Status Socioeconomi Rendah
- Berat badan Kurang < 50kg
- Perdarahan Pervaginan Trimester 1
- Beban Kerja berdiri 40 jam / minggu
- Kelainan Uterus
- Riwayat Ketuban Pecah

Infeksi yang berhubungan dengan kelahiran preterm

- ✓ Infeksi Menular Seksual
- √ Vaginosis Bakterialis
- ✓ Infeksi Saluran Kemih
 - Bakteriuria asimtomatis
 - Pielonefritis
- ✓ Pneumonia
- ✓ Peritonitis
- ✓ Penyakit Periodontal (Gigi dan Mulut)

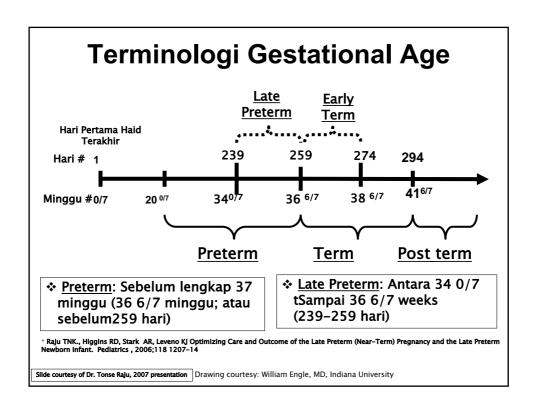
Penilaian Pasien dg Ancaman Persalinan Preterm

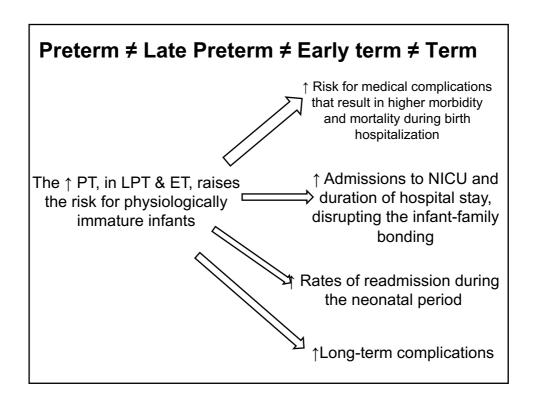
- Anamnesa Risiko (Riw Preterm, Status Ketuban, Cairan vagina/keputihan, Demam, Jumlah janin, Riwayat medis terkait infeksi)
- Rekaman Toco dynamometer & FHR (CTG)
- Pemeriksaan Fisik- Tinggi fundus dan kontraksi
- Lab Darah lengkap, Urinalisa-kultur, elektrit
- · Pem spekulum steril: BV, kultur, fFN
- · Pengukuran panjang serviks
- · Pemeriksaan dalam jika diperlukan



Pemberian Antenatal Steroids

- Menurunkan kejadian dari RDS, IVH, NEC, Sepsis & kematian sampai 50 % pd 1 x pemberian
- Diberikan pada selaput ketuban Utuh / Pecah : 24-34 minggu
- Betamethasone 12 mg/12 jam, 24 jam
- Dexamethasone 6 mg/ 12 jam, 48 jam





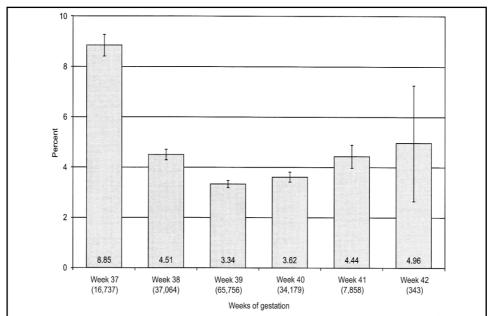


Fig. 1. Rate of neonatal intensive care unit admissions for normal pregnancies by gestational age. Two standard deviations shown by *vertical lines*. Data from Intermountain Healthcare.

Oshiro. Decreasing Elective Deliveries Before 39 Weeks. Obstet Gynecol 2009.

Variable	37 wk	38 wk	39+ wl	
Elective inductions	112	678	2004	
NICU admissions	17	44	61 6.0	
%	15.2 (<i>P</i> = .003)	7.0 (<i>P</i> < .001)		
Elective repeat cesarean	105	696	776	
NICU admissions	21	58	62	
%	20.0 (P < .001)	8.3 (P = NS)	8.0	
Elective primary cesareans	24	97	153	
NICU admissions	5	16	12	
%	20.8 (P = NS) ^a	16.5 (P = NS) ^a	7.8	
Total elective deliveries	241	1471	2933	
NICU admissions	43	118	135	
%	17.8 (<i>P</i> < .001)	8.0 (<i>P</i> < .001)	4.6	
NICU, neonatal intensive care unit; NS, n Statistical analysis represents a comparis	on of each destational age to the	subsequent destational age category	orv.	

Outcome During Initial Birth Hospitalization	Late-Preterm Morbidity		Term N	Norbidity	OR (95% CI)	Р
	No.	%	No.	%		
Feeding difficulties						
Wang et al/ (35-36% wk)	29	32.2	7	7.4	_	_
Hypoglycemia		_				
Was at 13135-36% wk)	14	15.6	5	5.3	3.30 (1.1-12.2)	.028
Jaundice		_				
Wang et al ³ (35–36% wk)	49	54.4	36	37.9	1.95 (1.04-3.67)	.027
Temperature instability		_		_		
Wang et al ² (35–36% wk)	9	10.0	0	0.0	Infinite	.0012
Apnea						
Henderson-Smart ³⁸ (34–35% wk)	_	7.0	_	< 0.1	_	_
Merchant et al42 (35–36% wk)	6	12.0	0	0.0	12.0 (4.5-24.3)	.0267
Wang et al ² (35–36% wk)	4	4.0	0	0.0	_	.054
Respiratory distress						
Escobar et al ²⁴ (34–36% wk)	345	10.7	975	2.7	_	_
Gilbert et al ⁷⁰ (34–36% wk)	1167	3.6	843	0.8	_	_
Rubaltelli et al ³³ (34–36% wk)	314	9.6	359	0.6	_	_
Wang et al? (35-36% wk)	26	28.9	4	4.2	9.14 (2.9-37.8)	.00001
Received intravenous infusion						
Wang et al (35 30W7 Wk)	24	26.7	5	5.3	6.48 (2.3-22.9)	.0007
Underwent sepsis evaluation						
Wang et al ² (35–36% Wk)	33	36.7	12	12.6	3.97 (1.8-9.2)	.00015
Received mechanical ventilation						
Gilbert et al ⁷⁰ (34–36% wk)	1103	3.4	950	0.9	_	_
OR indicates odds ratio; CI, confidence interval;	—. data not rei	oorted.				

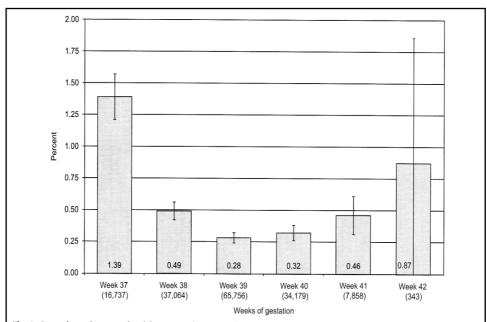


Fig. 2. Rate of ventilator use for deliveries without complications by gestational age. Two standard deviations shown by vertical lines. Data from Intermountain Healthcare.

Oshiro. Decreasing Elective Deliveries Before 39 Weeks. Obstet Gynecol 2009.

