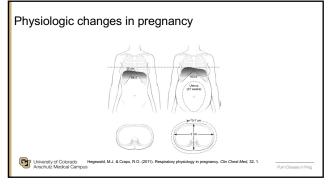
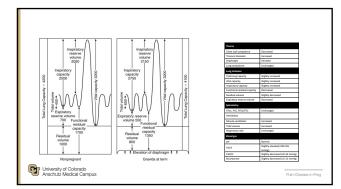
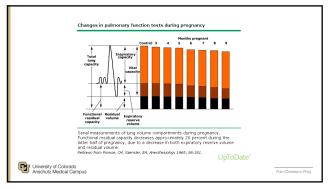


Blood gas measurement	Non- pregnant adult	Third trimester	
pН	7.38-7.44	7.39-7.45	
Arterial partial pressure of oxygen (mmHg [kPa])	80-100 (11-13)	92-107 (12.3-14.3)	
Arterial partial pressure of carbon dioxide (mmHg [kPa])	35-45 (4.7-5.9)	25–33 (3.3–4.4)	
Bicarbonate (mmol/L or mEq/L)	21-30	16-22	



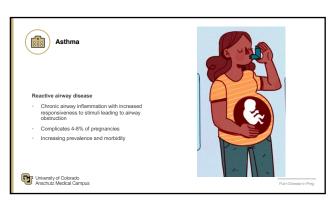


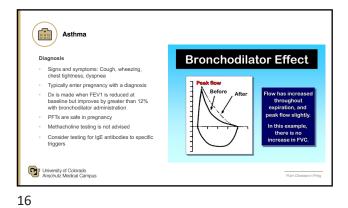


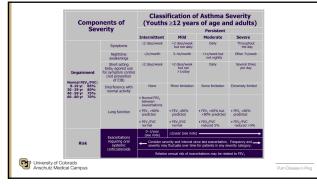


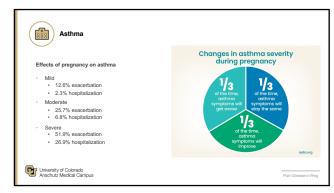








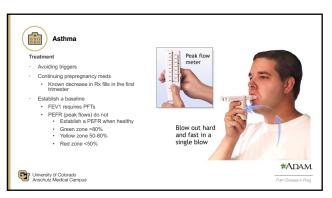


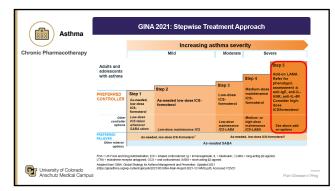




-	TABLE 3 Singleton pregnancy complications a			a		
	Outcomes	No asthma n = 206,468 n (%)	Aathma n = 17,044 n (%)	Site-adjusted P salas"	Site-adjusted adds ratio (35% CII*	Fully adjusted edds ratio 85% CB ^{LD}
Asthma	Hypertensive disorders of pregnancy					
Asthma	Superimposed preeclampsia	1680 (0.8)	213 (1.3)	< .0001	1.54 (1.33-1.79)	1.34(1.15-1.56)
	Eclampsia	207 (0.1)	33 (0.2)	.01	1.61 (1.10-2.36)	1.41 (0.96-2.07)
<u> </u>	Preeclampsia	9628 (4.7)	924 (5.4)	< .0001	1.24 (1.16-1.33)	1.14 (1.06-1.22)
Effects of asthma on Pregnancy	Gestational hypertension	5523 (2.7)	557 (3.3)	.0003	1.18 (1.08-1.30)	1.08 (0.98-1.19)
	Moternal seizure					
	Al maternal seizures	176 (0.1)	33 (0.2)	.0008	1.93 (1.32-2.83)	1.79 (1.21-2.63)
	Maternal seizure without hypertension roled	93 (0.05)	14 (0.09)	.19	1.45 (0.83-2.55)	1.35 (0.77-2.37)
	Maternal seizure with hypertension noted	83 (8.05)	19 (0.12)	.0006	2.51 (1.48-4.25)	2.37 (1.40-4.02)
	Other pregnancy complications					
	Gestational diabetes	10,420 (5.1)	927 (5.4)	.06	1.07 (1.00-1.15)	1.11 (1.03-1.19)
	Charloamnionitis	6415 (3.1)	504 (3.0)	.32	1.05 (0.95-1.16)	1.06 (0.96-1.17)
	Placenta previa	1444 (0.7)	141 (0.8)	.06	1.19 (3.99-1.42)	1.30 (1.08-1.56)
	Complications of labor and delivery					
	Prelabor cesarean delivery	23,688 (11.5)	2193 (12.9)	< .0001	1.15(1.10-1.21)	1.16 (1.09-1.23)
	Spontaneous labor	111,523 (54.0)	8921 (52.3)	< .0001	0.86 (0.84-0.89)	0.87 (0.84-0.90)
	Cesarean delivery after spontaneous labor	18,835 (9.1)	1749 (10.3)	.0003	1.10 (1.05-1.16)	1.06 (1.00-1.12)
	Induction	71,257 (34.5)	5930 (34.8)	< .0001	1.10 (1.06-1.13)	1.10 (1.06-1.14)
	Cesarean delivery after induction	14,746 (7.1)	1381 (8.1)	<.0001	1.22 (1.15-1.29)	1.17 (1.10-1.24)
	All vaginal delivery	149,199 (72.3)	11,721 (88.8)	< .0001	0.84 (0.81-0.87)	0.84 (0.80-0.87)
	PPROM	4596 (2.2)	516 (3.0)	< .0001	1.23 (1.12-1.36)	1.18 (1.07-1.30)
	PROM	14,379 (7.0)	1212 (7.1)	.98	1.00 (0.94-1.07)	0.99 (0.93-1.05)
	Breech presentation	8785 (4.3)	811 (4.8)	.01	1.10 (1.02-1.19)	1.13 (1.05-1.22)
	Placental abruption	3242 (1.6)	380 (2.2)	< .0001	1.27 (1.14-1.42)	1.22 (1.09-1.36)
	Maternal hemorrhage	13,423 (6.5)	1292 (7.6)	.001	1.11 (1.04-1.18)	1.09 (1.03-1.16)
	Maternal pulmonary embolism	114 (0.06)	20 (0.12)	.008	1.90 (1.18-3.07)	1.71 (1.05-2.79)
	Maternal postpartum fever	5531 (2.7)	532 (3.1)	.35	1.05 (0.95-1.15)	0.99 (0.90-1.09)
	Maternal ICU admission	902 (8.6)	73 (0.6)	.01	1.38 (1.08-1.76)	1.34 (1.04-1.72)
University of Colorado	Maternal death	18 (0.01)	1 (2.01)	.70	Not calculated	Not calculated
Anschutz Medical Campus	Low birthweight, <2500 g	16,551 (8.1)	1815 (10.7)	< .0001	1.26 (1.19-1.33)	1.16 (1.10-1.23)
- reconder modelar ourriged	Preterm birth, <37 wk	23,618 (11.4)	2526 (14.8)	< .0001	1.25 (1.19-1.31)	1.17 (1.12-1.23)
	Intractorios fatal death	1148 (0.0)	110 (0.2)	28	1.12 (0.92-1.38)	102 (0.87-1.32)

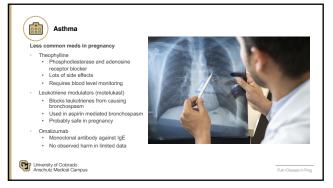




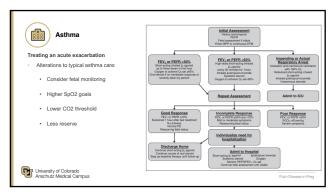




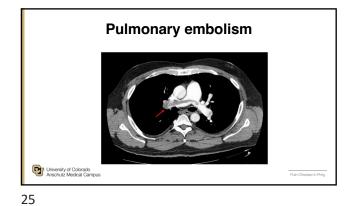
	Medication	Low dose	Medium dose	High dose	
	ICS-SABA combination				
	Budesonide-albuterol HFA (
	NOTE: Not used for maintena				
	Acute symptom relief: Budesc				
	ICS-LABA combinations				
	Beclomethasone [beclometasone]-formoterol DPI or HFA (Not available in United States or Canada, but available elsewhere [sample brand names: Formodual, Fostair, Foster] ^{1,4}				
	100 mcg/6 mcg	1 inhelation twice a day	2 inhelations twice a day		
	200 magra mag			2 Infratazione torice a day	
	Budesonide-formoterol HFA	(Brand names: Symbicort, Breyna) ⁴			
	80 mcg/4.5 mcg	2 inhelations twice a day			
	160 mcg/4.5 mcg		2 inhelations twice a day		
	Fluticasene fureate/vilantee	ol DPI (Brand name: Breo Ellipta)4			
	NOTE: Inhield fluticascone furcate has a greater anti-inflammatory potency per microgram than fluticascone propionate inhalers. Thus, fluticascone furcate is administered at a lower daily dose and used only once daily.				
	50 mcg/25 mcg*	1 inhalation once daily			
	100 mcg/25 mcg		1 inhalation once daily		
	200 mcg/25 mcg			1 inhelation once daily	
	Fluticasone propionate-form	noterol MDI (Not available in United)	itates or Canada, but available elsewi	sere [sample brand name: Flutiform[)	
	50 mog/5 mog	2 inhelations twice daily			
	125 mcg/5 mcg		2 inhalations twice daily		
	250 mcg/10 mcg			2 inhelations twice daily	
	Fluticasone propionate-sale				
	100 mcg/50 mcg	1 inhelation twice a day			
	250 mcg/50 mcg		1 inhalation twice a day		
	500 mcg/50 mcg			1 inhelation twice a day	
	Fluticasone propionate-sale	neterol HFA (Brand name: Advair HFA			
ersity of Cok	45 mcg/21 mcg	2 inhalations twice a day			
			2 inhelations twice a day		Pulm Disease in Pre
hutz Medica	115 mcg/21 mcg				

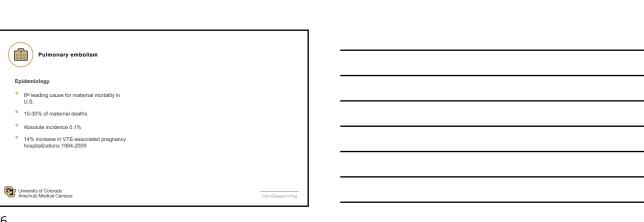


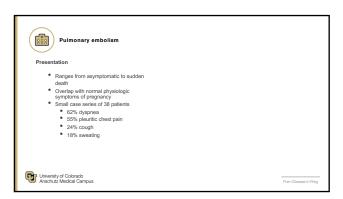




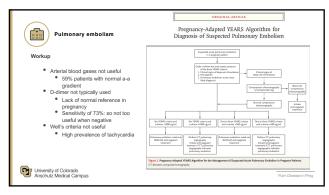




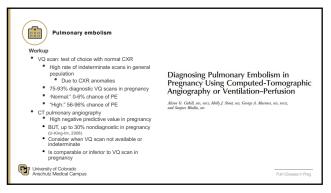


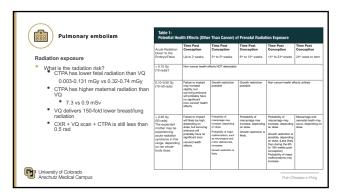


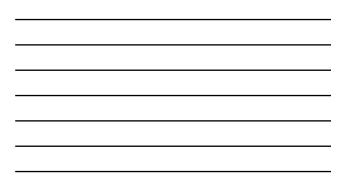


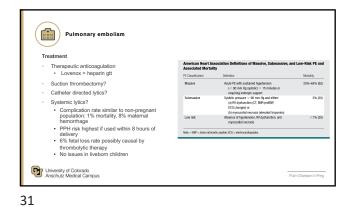


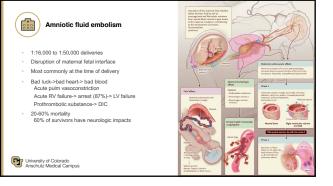




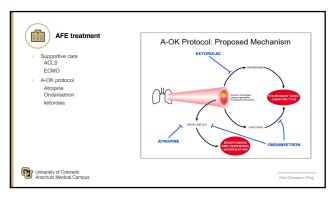




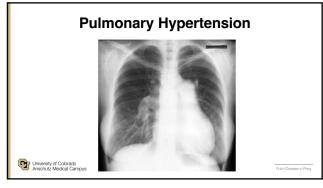




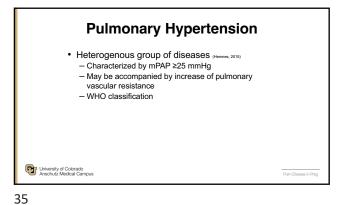


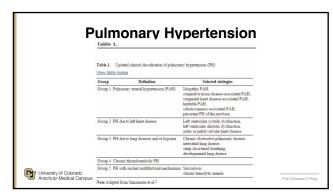


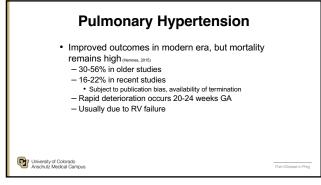




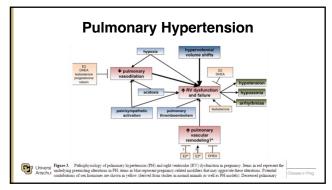


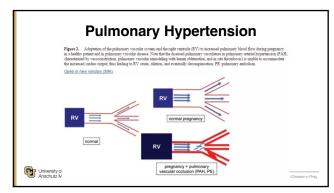








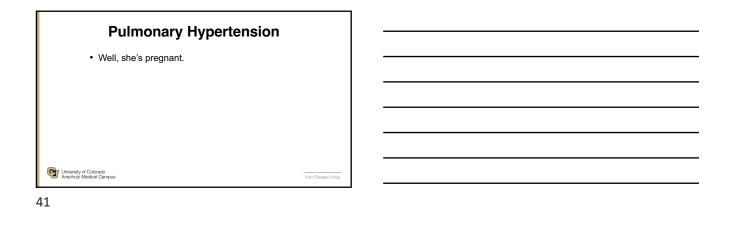


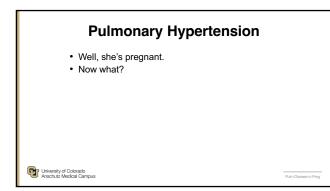




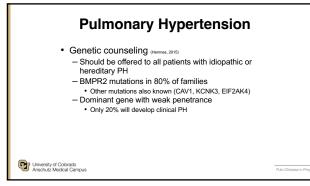
Pulmonary Hypertension · All patients should be counseled to avoid pregnancy (Hemnes, 2015) - Especially with pulmonary arterial hypertension Permanent contraception should be strongly considered in pregnancy Hysterosopic sterilization or laparoscopic BTL Progestin-only is second-line Estrogen contraindicated

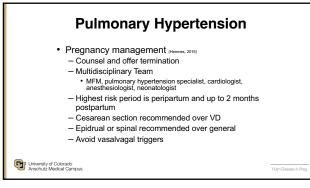
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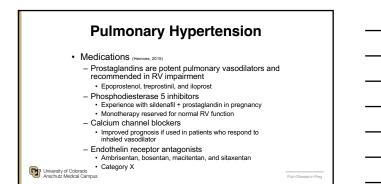


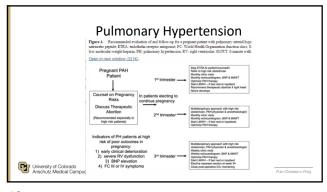


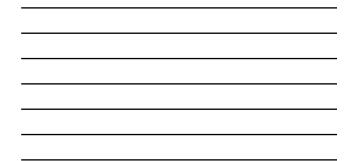




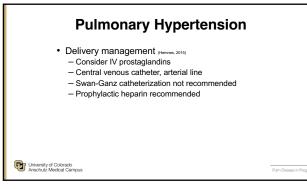


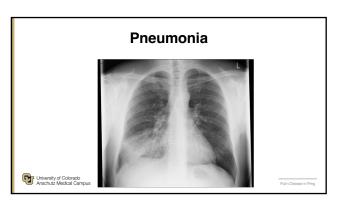












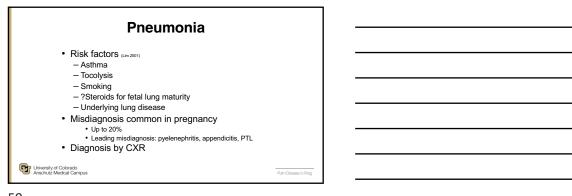


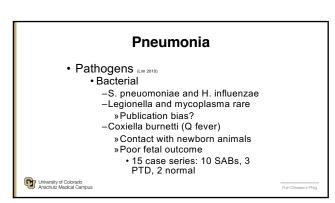


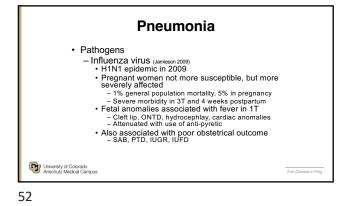
- 1.2-2.7 per 1,000 deliveries, 0-4% mortality (Lim 2001)
 Not significantly different from nonpregnant
- Associated with:
 - Preterm <34 week delivery (34%)LBW (16%)
- No clear evidence on perinatal mortality

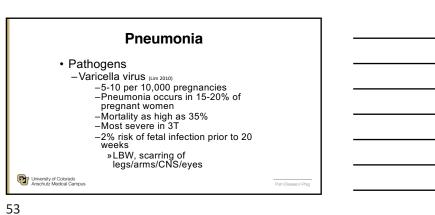
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49

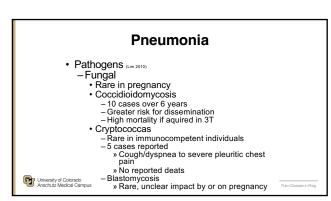


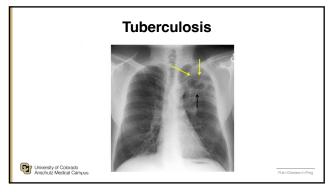




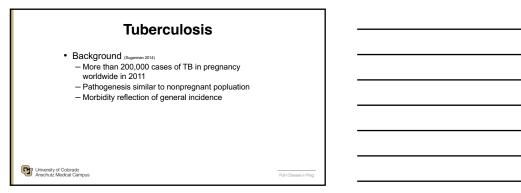


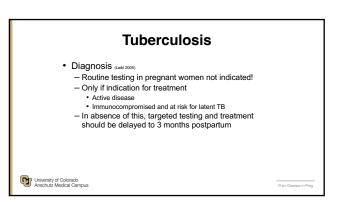




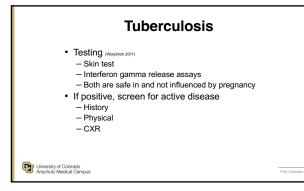




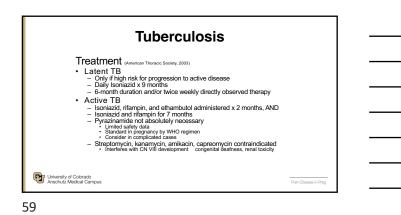


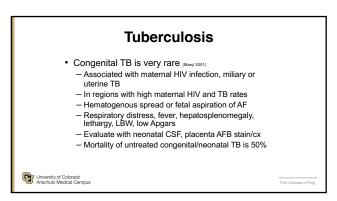




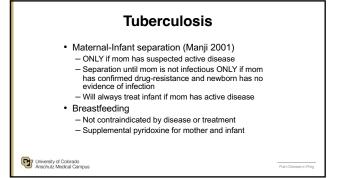






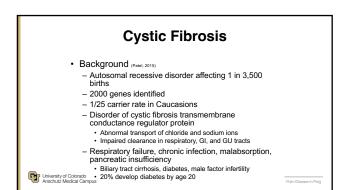


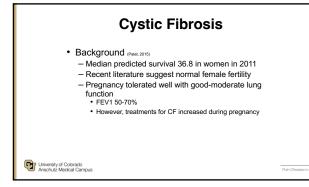


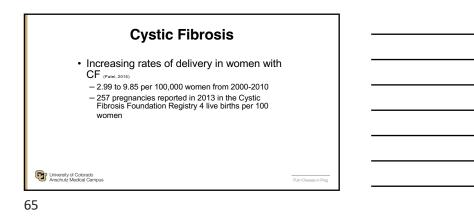


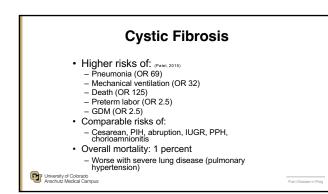


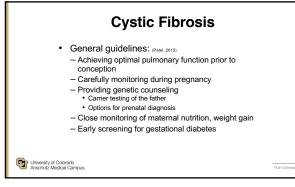




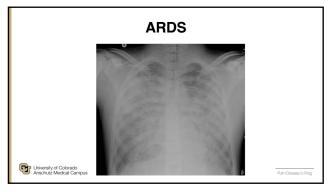


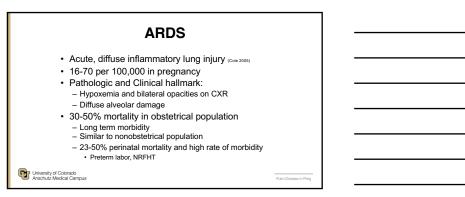




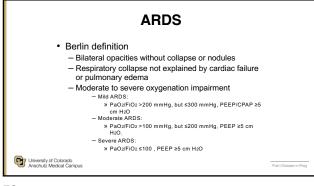




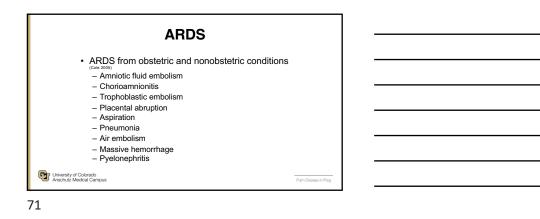


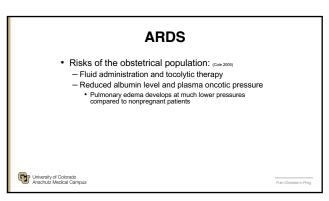












ARDS

- Adequate maternal oxygen saturation essential
 - General population: PaO2 55 mmHg, SaO2 88%
 - Pregnancy: PaO2 of 70 mm Hgm SaO2 95%
- Fetal CO2 clearance requires 10 mmHg gradient – PaCO2 of 45 mm Hg, maternal pH of 7.30 "seems reasonable"

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73

