## Supplementary data:

Drug	First author	Year	Number	Maternal drug level	Cord drug level	Placental transfer	Days from last dose	Breastmilk drug level	Drug level in child	Comments / Observations
Infliximab (IFX)	Mahadevan (abstract)	2007	5	9.88 µg/mL	10.9 µg/mL	1.03	30.4			IFX detectable up to 6 months from delivery. Low maternal IFX levels were associated with shorter IFX exposure times in the newborn.
	Zelinkova	2011	4	3.08 μg/mL	8.05 μg/mL	2.62	87.5	-		IFX was not detected in one mother (and infant) who had her last infusion at 21w. FU for 3-6/12 showed normal infant dev w no problems with childhood infections or vaccinations.
	Zelinkova	2013	12 samples of cord blood		6.4 μg/mL		NA			IFX was lower in those who stopped > 10w prior to delivery 2.8 $\mu$ g/mL vs. 10 $\mu$ g/mL in those who stopped closer to delivery. * Exact gestation of last dose not available in individual cases.
	Mahadevan	2013	11	11.52 μg/mL	14.44 μg/mL	1.25	41.2	-	-	* Cord levels only available for 9/11
	Julsgaard	2016	18 *stopped <30 weeks	0.6 μg/mL	2.2 μg/mL	3.67	NA	-		* Median values provided (unusually those stopped <30 weeks had higher ratios that those
			26 * continued ≥ 30 weeks	4 μg/mL	10 μg/mL	2.5	NA	-		stopped ≥ 30weeks). Exact gestation of last do not available.
	Kanis (abstract)	2016	18 * stopped < 25 weeks	-	1.9 μg/mL		NA			Cord IFX levels were significantly higher th
			19 * continued ≥ 25 weeks	-	13.4 μg/mL		NA			- ADA. Exact gestation last dose given not available.
	Matro	2018	29	-	-	-	-	0.74 μg/mL		IFX was detectable only in 66% of breastmilk samples.

Drug	First author	Year	Number	Maternal drug level	Cord drug level	Placental transfer	Days from last dose	Breastmilk drug level	Drug level in child	Comments / Observations
Etanercept (ETN)	Murashima	2009	1	2239ng/ml	81 ng/ml	0.04	NA	3.5ng/ml	Undetectable	ETN administered 25mg twice a week. ETN cleared from neonate < 12w of delivery despite regular breastfeeding.
	Keeling	2010	1	-	-	-	NA	4.48-7.0 ng/ml	-	ETN levels in breastmilk peaked about 72 hours post dose but remained therapeutically insignificant levels.
	Berthelsen	2011	1	540ng/ml	40ng/ml	0.07	7	2-5	<2	Receiving ETN 25mg weekly.
	Ostensen	2011	1	-	-	-	-	25-75.4 ng/ml	-	ETN administered 30 days post-partum; peak levels in breastmilk were 36 hours after administration.
Adalimumab (ADA)	Julsgaard	2013	1	300ng/ml	150ng/ml	0.5	150.5	-	Undetectable at 3 months.	ADA stopped at 16w, delivered at 37.5 weeks. Infant cleared ADA by 3 months.
	Mahadevan	2011	5	2.78 μg/mL	4.72 μg/mL	1.69	28.8	-		One mother had undetectable ADA levels after 42 days, but another had $1.84\mu$ g/mL 56 days after the last dose.
	Zelinkova	2013	6 cord samples	-	1.7 μg/mL	-	NA	-	-	One child whose mother stopped ADA at 22w had undetectable drug levels. * Exact gestation of last dose not available in individual cases.
	Mahadevan	2013	10	4.73 μg/mL	7.02 μg/mL	1.48	28.8	-	-	
	Julsgaard	2016	7 * stopped < 30 weeks	0.3µg/mL	0.2 μg/mL	0.67	NA	-		* Median values provided. Those who stopped - ADA < 30 w had lower ratios than those who
			29 * continued ≥ 30weeks	2.1 μg/mL	2.5 μg/mL	1.19	NA	-		stopped ADA $\geq$ 30w. Exact gestation of last dose not available.
	Kanis (abstract)	2016	19 * stopped <24weeks	-	0.9 μg/mL		NA			Cand ITV laught and similian the high of the Ar
			10 * continued ≥ 24weeks	-	4.1 μg/mL		NA			<ul> <li>Cord IFX levels are significantly higher than ADA</li> </ul>
	Matro	2018	21	-	-	-	-	0.71 μg/mL		ADA was detected in only 9.5% of breastmilk samples.

Drug	First author	Year	Number	Maternal drug level	Cord drug level	Placental transfer	Days from last dose	Breastmilk drug level	Drug level in child	Comments / Observations
Certolizumab (CTZ)	Mahadevan (abstract)	2009	1	18.83 μg/mL	1.65 μg/mL	0.09	14	-	-	CTZ 400mg every 4w from 2nd trimester. 37w 2700g infant without congenital anomalies.
	Mahadevan	2013	10	24.43 μg/mL	0.75 μg/mL	0.03	19.2	n=5 undetectable	-	* n=10 women with 12 deliveries (2 sets of twins); 4 cord blood samples undetectable
	Mariette (CRIB)	2018	16	23.69 μg/mL	0.008µg/mL	0.0003	11.1			* Only 15 cord samples, only n=3 had quantifiable CTZ levels
	Matro	2018	13	-	-	-	-	0.29 µg/mL		TCZ detected in only 23% of breastmilk samples.
Golimumab	Matro	2018	1	-	-	-	-	NA		GLM not detected in any breast milk (0%)
Canakinumab (CKM)	Egawa	2017	1	7.16 μg/mL	15.1 μg/mL	2.1	35	-	-	150mg CKM every 4-5w.
Tocilizumab (TCZ)	Saito	2018	2	-	-	-	-	<2 - 68.2 ng/ml	-	Peak TCZ in breastmilk was 3 days after administration. Breast milk levels of tocilizumab ranged from 1/500 to 1/1000 of those in serum.
Ustekinumab	Matro	2018	6	-	-	-	-	1.57 μg/mL		UTK detected in 66.7% of breastmilk samples.
USTEKINUMAD (UTK)	Rowan	2018	1	4.3μug/ml	8.0 μg/ml	1.86	28	-	-	Delivered at 37w, of a 2948g male with no anomalies.
Rituximab (RTX)	Friedrichs	2006	1	9750 μg/mL	32095 μg/mL	3.29	147			RTX commenced at 16w with 4x weekly cycles of 375mg/m2 till remission for Burkitt's lymphoma. Delivered at 41w of a female.
	Decker	2006	1	200 mg/L (0.2g/L)	300 mg/L	1.5	35	-		RTX administered on week 16 and 28; delivered at 33weeks.
	Klink	2008	1	24 mg/L	6.7mg/ml	0.28	28	-		RTX administered week 30 and 34; delivered at 38 weeks.