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Different Feeding Patterns in the First Six Months of Life and the Probability of Allergic Tendency

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Fatma Anwar Abdel Kader

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LIST OF ABBREVIATIONS

AA	Arachidonic acid
ADP	Adenosine diphosphate
AMP	Adenosine monophosphate
AOM	Acute otits media
B	Borrelia
C3	Complement 3
C4	Complement 4
CDP	Cytidine diphosphate
ChT	Chitotriosidase
CMA	Cow's milk allergy
CMP	Cow milk protein
CMPA	Cow milk protein allergy
CMPI	Cow milk protein intolerance
CMPSE	Cow’s milk protein sensitive enteropathy
CMV	Cytomegalovirus
CPS	Capsular polysaccharide
DBM	Diabetic breast milk
DBPCFC	Double blind placebo- controlled Oral food challenge
DHA	Docosahexaenoic acid
EGF	Epidermal growth factor
FAA	Free amino acid
FAs	Fatty acids
Fe	Lactoferrin
FIL	Feedback inhibitor of lactation
GALT	Gut- associated lymphoid tissues
GDP	Guanosine diphosphate
GMP	Guanosine monophosphate
GOR	Gastro-oesophageal reflux
H	Haemophilus
HAV	Hepatitis A virus
HBIg	Hepatitis B immunoglobulin
HBV	Hepatitis B virus
HD	Hodgkin's disease

HDL	High density lipoprotein
HIV	Human immunodeficiency virus
HTLV	Human T-cell lymphotropic virus
ICAM	Intracellular adhesion molecule
IGF	Insulin-like growth factor
IMP	Inosine monophosphate
LC-PUFA	Long chain polyunsaturated fatty acid
LDL	Low density lipoprotein
LFA-1	Lymphocyte function-associated antigen-1
M	Mycobacterium
MHC	Major histocompitabilty complex molecule
MIF	Macrophage migration inhibitory factor
N	Neisseria
NGF	Nerve growth factor
NPN	Non protein nitrogen
PHA	Potentially hazard associated
ODM	Offspring of diabetic mothers
PCM	Protein calorie malnutrition
PHs	Protein hydrolysates
PLs	Phospholipids
PMNL	Polymorphonuclear leukocytes
RSV	Respiratory syncytial virus
sECP	Serum eosinophil cationic protein
SPT	Skin Prick Tests
T	Treponema
TC	Total cholesterol
TGF	Transforming growth factor
TGs	Triglycerides
UDP	Uridine diphosphate
UMP	Uridine monophosphate
UTI	Urinary tract infection
VZV	Varicella-zoster virus
WAIS	Wechsler Adult Intelligence Scale
WCM	Whole cow's milk

Aim of the work

The aim of the study is to delineate the role of different feeding patterns in the first six months on the development of allergic tendency in infants.

Appendix (2): Data of the selected 22 BF infants

grp	No	Sex	Social	rchestinf	PHallergy	G.I.T.	R.S	C.V.S	FHallergy	FHchest	Wtmp	Length	HC	RBC	HB	WBC	PLT	TIgE	SIgE	Stool
BF	1	2	Low	1	0	0	0	0	1	0	100	94.6	97	5.79	15.8	12	332	8.5	0.7	Giardia
BF	2	1	Low	1	0	0	0	0	1	0	99	98	95.5	4.00	12	10.8	250	18	45	normal
BF	3	1	high	1	0	1	0	0	0	0	98	100	125	6.19	14	13	500	17	17	Ameba
BF	4	1	Low	1	0	0	0	0	0	0	79.4	93.3	95.8	3.38	11	7	530	46	0.3	normal
BF	5	1	Low	1	0	0	0	0	1	0	83.8	94.8	93.6	3.91	7.9	5.6	589	17	4	normal
BF	6	1	high	1	0	0	0	0	0	0	115.3	84.9	98.1	3.04	7.8	7.6	200	30	0.7	normal
BF	7	1	Low	1	0	0	0	0	1	0	96.5	93.0	96.6	5.5	13	11.8	450	19	16	Oxyoris
BF	8	1	Low	1	0	0	0	0	0	0	83.3	95.5	93.6	3.38	9	6.7	525	52	2.5	normal
BF	9	1	Low	1	0	1	0	0	0	0	94.3	92.8	94	4	10	7.0	400	8	0.7	normal
BF	10	1	Low	1	0	0	0	0	1	1	102	100	95	3.95	10.4	9.9	959	5	0.7	Ameba
BF	11	1	high	1	0	0	0	0	0	0	65.3	84.4	91.9	2.29	6.9	10	163	17	35	normal
BF	12	2	Low	1	0	0	0	0	1	0	110	94.7	98	6.01	16	11.98	335	8.7	0.7	Giardia
BF	13	2	high	1	0	0	0	0	1	0	98	99	96.5	4.05	12	10.9	260	19	43	normal
BF	14	2	Low	1	0	0	0	0	0	0	98	101	126	6.31	14	14	510	18	20	Ameba
BF	15	1	Low	1	0	1	0	0	0	0	80	94.3	96.8	3.40	13	8	540	47	0.3	normal
BF	16	1	Low	1	0	0	0	0	1	0	83.8	95.8	93.7	3.96	7.8	5.7	570	18	5	normal
BF	17	1	Low	1	0	0	0	0	0	0	120	86	98.7	3.05	7.5	7.7	200	31	0.7	normal
BF	18	1	high	1	0	0	0	0	1	0	96.5	94.	97	5.6	14	11.7	455	18	16	Oxyoris
BF	19	1	Low	1	0	1	0	0	0	0	85	96.3	93.6	3.39	8.5	6.7	528	54	2.7	normal
BF	20	1	high	1	0	0	0	0	0	0	94.9	94.8	96	5	10	8	405	7	0.9	normal
BF	21	2	high	1	0	0	0	0	1	1	105	84.9	96	3.97	11	10	700	3	0.9	Ameba
BF	22	1	Low	1	0	0	0	0	0	0	65.3	93.0	92.3	2.30	7	11	164	20	30	normal

Appendix (3): Data of the selected 24 CM.

grp	No	Sex	Age	Social	rchestinf	PHallergy	G.I.T.	R.S	C.V.S	FHallergy	FHchest	Wtmp	Length	HC	RBC	HB	WBC	PLT	TIgE	SIgE	Stool
CM	1	2	6	Low	1	0	1	0	0	1	0	89.7	96.9	96.4	3.78	9.4	5.1	388	12	1.5	Normal
CM	2	1	6	middle	1	0	0	0	0	0	0	89.7	68.5	95.8	3.43	10.3	9.7	838	7	0.3	Normal
CM	3	2	9	middle	1	0	0	0	0	0	0	98.9	96.7	99	4.22	13.9	11.3	211	11	2	Normal
CM	4	1	9	Middle	1	1	0	1	0	0	0	94.9	100	90.8	3.92	11.3	9.9	339	210	16	Normal
CM	5	1	6	Low	1	0	0	0	0	0	0	88.9	75.4	89.5	4.96	10.5	26	626	12	3	Normal
CM	6	1	6	Low	1	0	0	0	0	1	0	108	97.8	100	4.07	7.9	4.5	348	19	35	Normal
CM	7	2	9	Low	1	0	0	0	0	0	0	81.4	83.7	97.2	3.79	10.7	9.7	392	16	2.5	Normal
CM	8	2	9	Low	1	0	1	0	0	0	1	101	95.9	88.3	4.36	7.2	17.3	237	14	2.5	Normal
CM	9	2	9	Low	1	0	0	0	0	1	1	98	95.2	92.7	3.06	7.9	4.5	562	17	0.2	Normal
CM	10	1	8	Low	1	0	1	0	0	0	0	61	85.1	93.1	4.56	15.6	11	429	8	0.7	WBC
CM	11	1	9	Low	1	0	0	0	0	0	0	73.8	86.8	95.5	4.31	9.5	8.8	420	18	1.5	Free
CM	12	1	9	Low	1	0	0	0	0	1	1	102	93.4	100	4.30	11	13.8	440	13	1.5	Normal
CM	13	2	6	Low	1	0	1	0	0	1	0	89.7	97	96.6	3.75	9.7	5.2	380	13	1.6	Normal
CM	14	1	6	High	1	0	0	0	0	0	0	88.7	68.5	95.9	3.43	10	9.8	835	8	0.3	Normal
CM	15	2	9	middle	1	0	0	0	0	0	0	99.9	97	100	4.23	14	11	210	11	3	Normal
CM	16	1	9	Middle	1	1	0	0	0	0	0	94.	101	90.9	3.93	11.3	10	340	200	16	Normal
CM	17	1	6	Low	1	0	0	0	0	0	0	88.9	75.4	90	4.97	10.5	26	629	12	4	Normal
CM	18	1	6	Middle	1	0	0	0	0	1	0	107	97.	100	4.00	8	4.5	350	19	34	Normal
CM	19	2	9	Low	1	0	0	0	0	0	0	81.8	84.7	97.2	3.78	10.9	10	393	15	2.5	Normal
CM	20	2	9	Low	1	0	1	0	0	0	1	103	95.9	88.3	4.48	7.7	17	238	17	3	Normal
CM	21	2	9	Low	1	0	0	0	0	1	1	97	95.2	92.9	3.07	7.8	4.5	564	19	0.2	Normal
CM	22	1	8	high	1	0	1	0	0	0	0	64	85.1	94.1	4.60	15.5	11.8	430	8	0.7	WBC
CM	23	1	9	Low	1	0	0	0	0	0	0	73.8	86.8	95.5	4.31	9.8	8.9	430	18	1.5	Free
CM	24	1	9	Low	1	0	0	0	0	1	1	103	93.4	100	4.40	11	13.8	440	17	1.6	Normal

Appendix (4): Data of the selected 22 AF.

grp	No	Sex	Age	Social	rchestinf	PHallergy	G.I.T.	R.S	C.V.S	FHallergy	FHchest	Wtmp	Length	HC	RBC	HB	WBC	PLT	TIgE	SIgE	Stool
AF	1	1	6	Middle	1	0	1	0	0	1	1	89.7	88.8	93.6	4	11.4	11.3	400	20	36	Normal
AF	2	2	6	Low	1	0	0	0	0	0	0	124	100	95	3.2	10	13.8	600	19	25	Normal
AF	3	2	9	Low	1	0	0	0	0	0	0	58.2	83.3	90.4	3.73	9.7	12	517	3	0.7	Normal
AF	4	2	9	Low	1	1	0	0	0	1	1	93.1	85.1	106	3.5	8.9	10.8	359	17	0.7	Normal
AF	5	2	6	middle	1	0	0	0	0	0	0	97.2	81.5	97.1	4.18	10.9	6.6	432	8	0.5	Normal
AF	6	2	7	Low	1	0	1	0	0	0	0	118	104	103	3.9	11	7	350	10	0.8	Normal
AF	7	2	9	Low	1	0	0	0	0	1	1	81.4	87.8	97.2	4.13	10.9	10	346	16	3.5	Normal
AF	8	2	8	Low	1	0	0	0	0	1	1	75	84.2	91.2	3.43	5.6	8	724	10	0.3	Normal
AF	9	2	6	Low	1	0	0	0	0	0	0	101	92.3	97.1	2.25	9.1	9.4	371	16	2	Normal
AF	10	2	8	Low	1	0	0	0	0	0	0	93.7	97.7	98.8	5.17	12	8	307	8	0.8	Normal
AF	11	1	9	Low	1	0	0	0	0	0	0	82.2	100	81	5.14	8.1	25	398	25	2	Normal
AF	12	1	6	Middle	1	0	1	0	0	1	1	89.8	88.9	93.7	4	11.4	11.4	410	23	37	Normal
AF	13	2	7	Low	1	0	0	0	0	0	0	128	102	95.3	3.3	10	13.9	603	19	24	Normal
AF	14	1	9	High	1	0	0	0	0	0	0	58.4	83.4	90.2	3.83	9.8	12	517	4	0.7	Normal
AF	15	2	9	Low	1	1	0	0	0	1	1	93.6	86.1	105	3.5	8.9	10.8	360	16	0.7	Normal
AF	16	2	6	middle	1	0	0	0	0	0	0	97.2	81.5	97.6	4.17	11.1	6.5	432	6	0.5	Normal
AF	17	2	6	Low	1	0	1	0	0	0	0	120	105	104	3.9	11	8	353	10	0.6	Normal
AF	18	1	9	Low	1	0	0	0	0	1	1	81.4	88.0	97.4	4.14	10.9	10	346	16	3.5	Normal
AF	19	2	8	Middle	1	0	0	0	0	1	1	77	85.2	92.1	3.43	5.8	8	700	10	0.3	Normal
AF	20	2	7	Low	1	0	0	0	0	0	0	102	924	97.1	2.34	9.00	9.6	371	17	2	Normal
AF	21	2	8	Low	1	0	0	0	0	0	0	93.8	97.9	99.0	5.17	12.3	9	308	9	0.8	Normal
AF	22	1	9	Low	1	0	0	0	0	0	0	83.2	103	80.9	5.13	8	24	400	25	3	Normal

Appendix (5): Data of the selected 24 MF.

grp	No	Sex	Age	Social	rchestinf	PHallergy	G.I.T.	R.S	C.V.S	FHallergy	FHchest	Wtmp	Length	HC	RBC	HB	WBC	PLT	TIgE	SIgE	Stool
MF	1	1	8	Low	1	0	1	0	0	0	0	79.5	88.5	101	4.26	9.1	13.5	903	17	0.1	Normal
MF	2	1	9	Low	1	0	0	0	0	1	1	73.8	92.1	93.3	4.46	11.7	10.8	436	16	0.8	Normal
MF	3	1	8	Low	1	0	0	0	0	0	0	68.8	90.3	89.8	3.39	8	4.7	428	12	1.5	Normal
MF	4	2	7	Middle	1	0	0	0	0	0	0	79.6	96.6	94.1	4.88	13.2	15.9	252	10	0.1	Normal
MF	5	1	9	Low	1	0	0	0	0	0	0	89.6	93.2	108	3.79	9	11	404	16	0.3	Normal
MF	6	2	6	Middle	1	0	1	0	0	1	1	70.5	77.6	90.6	3.2	9.1	6.8	568	10		Normal
MF	7	1	9	Middle	1	0	0	0	0	1	1	99	90.7	100	4.04	11	12.2	400	50	40	Normal
MF	8	1	6	Low	1	0	1	0	0	1	1	89.7	98.7	95.3	3.23	11	7	336	12	0.3	Normal
MF	9	2	8	middle	1	0	1	0	0	1	1	73.8	99.5	96.2	4	10	11	340	120	12	Normal
MF	10	1	9	Low	1	1	0	0	0	0	0	102	89.4	98.1	4.8	14	3.4	154	3.5	0.2	Giardia
MF	11	1	9	Low	1	0	0	0	0	1	0	87.5	95.9	97.7	5.07	10.4	9.7	355	16	0.7	Normal
MF	12	2	9	Low	1	0	0	0	0	0	0	116	94.5	96.5	5.75	10.6	11	245	22	2	Normal
MF	13	1	8	Low	1	0	1	0	0	0	0	79.7	89.5	100	4.36	9.5	13.6	900	17	0.2	Normal
MF	14	2	9	hight	1	0	0	0	0	1	1	74.8	93.1	94.3	4.47	12.7	10.9	440	16	0.7	Normal
MF	15	1	8	Low	1	0	0	0	0	0	0	68.8	90.4	90.0	3.40	8	4.7	428	12	1.5	Normal
MF	16	2	7	Middle	1	0	0	0	0	0	0	79.5	96.6	95.2	4.99	13.2	16.9	260	10	0.3	Normal
MF	17	1	9	Low	1	0	0	0	0	0	0	90	93.5	109	3.80	9	16.1	404	16	0.3	Normal
MF	18	1	6	Middle	1	0	1	0	0	1	1	71	77.6	90.8	4.80	9.4	6.9	578	10		Normal
MF	19	1	9	Low	1	0	0	0	0	1	1	100	90.7	101	4.04	12	12.2	401	50	43	Normal
MF	20	2	6	Low	1	0	1	0	0	1	1	89.9	98.8	95.5	3.23	12	8	338	12	0.3	Normal
MF	21	2	8	Middle	1	0	1	0	0	1	1	74.8	99.9	96.5	5	10	15	340	120	13	Normal
MF	22	2	9	Low	1	1	0	0	0	0	0	111	90.0	98.4	4.8	13.9	3.2	155	3.5	0.2	Giardia
MF	23	1	9	Middle	1	0	0	0	0	1	0	87.7	95.9	97.8	5.07	10.5	9.8	355	16	0.7	Normal
MF	24	2	9	Low	1	0	0	0	0	0	0	118	95.5	96.9	5.95	10.8	12	235	22	2	Normal