

# Relationships between the Intakes of Human Milk Components and Body Composition of Breastfed Infants: A Systematic Review

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## Supplementary Material: Search Strategy for infant intake of human milk components and infant body composition and growth in MEDLINE, EMBASE, and CINAHL PLUS

**Table S1.** Ovid MEDLINE(R) ALL <1946 to May 17, 2022>

1	*Milk, Human/
2	(breast milk or human milk or milk, breast or milk, human).mp.
3	1 or 2
4	(human milk component* or human milk composition or protein or carbohydrate* or fat or macronutrient* or bioactive component* or hormone* or adipokine* or cytokine* or leptin or ghrelin or adiponectin or IGF-1 or casein or whey or total protein or lactose or human milk oligosaccharide* or HMOs or lactoferrin or lysozyme or secretory immunoglobulin A or immunomodulatory or appetite hormone*).ti,ab.
5	3 and 4
6	*Body Composition/ge, im, ph [Genetics, Immunology, Physiology]
7	(body composition or body compositions or composition, body or compositions, body).mp
8	*Growth/ge, im, ph [Genetics, Immunology, Physiology]
9	(infant adj3 (growth or bmi or body mass index or weight gain or body weight*)).mp
10	6 or 7 or 8 or 9
11	5 and 10
12	limit 11 to (english language and humans)

[mp=title, abstract, heading word, drug trade name, original title, device manufacturer, drug manufacturer, device trade name, keyword, floating subheading word]

[ti,ab=title, abstract]

**Table S2.** EMBASE <1974 to 2022 May 18>

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1	*Milk, Human/
2	(breast milk or human milk or milk, breast or milk, human).mp.
3	1 or 2
4	human milk component* or human milk composition or protein or carbohydrate* or fat or macronutrient* or bioactive component* or hormone* or adipokine* or cytokine* or leptin or ghrelin or adiponectin or IGF-1 or casein or whey or total protein or lactose or human milk oligosaccharide* or HMOs or lactoferrin or lysozyme or secretory immunoglobulin A or immunomodulatory or appetite hormone*.ti,ab
5	3 and 4
6	*body composition/
7	(body composition or body compositions or composition, body or compositions,body).mp.
8	*growth/
9	(infant adj3 (growth or bmi or body mass index or weight gain or body weight*)).mp.
10	6 or 7 or 8 or 9
11	5 and 10
12	limit 11 to (human and english language)

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[mp=title, abstract, heading word, drug trade name, original title, device manufacturer, drug manufacturer, device trade name, keyword, floating subheading word]  
[ti,ab=title, abstract]

**Table S3.** CINAHL PLUS < 1937 to 2022 May 18>

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1	MH "Milk, Human+
2	breast milk or human milk or milk, breast or milk, human
3	1 or 2
4	human milk component* or human milk composition or protein or carbohydrate* or fat or macronutrient* or bioactive component* or hormone* or adipokine* or cytokine* or leptin or ghrelin or adiponectin or IGF-1 or casein or whey or total protein or lactose or human milk oligosaccharide* or HMOs or lactoferrin or lysozyme or secretory immunoglobulin A or immunomodulatory or appetite hormone*
5	3 and 4
6	MM "Body Composition"
7	body composition or body compositions or composition, body or compositions, body
8	MM "Growth"
9	infant adj3 (growth or bmi or body mass index or weight gain or body weight*)
10	6 or 7 or 8 or 9
11	5 and 10
12	limit 11 to (human and english language)

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MH- Exact Subject Heading  
MM- Exact Major Subject Heading  
[Expanders - Apply related words; Apply equivalent subjects]

**Table S4.**

S60	S59	Limiters - English Language; Human	134
S59	S53 AND S58		195
S58	S54 OR S55 OR S56 OR S57	Expanders - Apply related words; Apply equivalent subjects Search modes - Boolean/Phrase	28,377
S57	infant adj3 (growth or bmi or body mass index or weight gain or body weight*)	Expanders - Apply related words; Apply equivalent subjects Search modes - Boolean/Phrase	312
S56	MM "Growth"	Expanders - Apply related words; Apply equivalent subjects Search modes - Boolean/Phrase	3,258
S55	body composition or body compositions or composition, body or compositions, body	Expanders - Apply related words; Apply equivalent subjects Search modes - Boolean/Phrase	25,312
S54	MM "Body Composition"	Expanders - Apply related words; Apply equivalent subjects Search modes - Boolean/Phrase	8,112
S53	S51 AND S52	Expanders - Apply related words; Apply equivalent subjects Search modes - Boolean/Phrase	2,661
S52	human milk component* or human milk composition or protein or carbohydrate* or fat or macronutrient* or bioactive component* or hormone* or adipokine* or cytokine* or leptin or ghrelin or adiponectin or IGF-1 or casein or whey or total protein or lactose or human milk oligosaccharide* or HMOs or lactoferrin or lysozyme or secretory immunoglobulin A or immunomodulatory or appetite hormone*	Expanders - Apply related words; Apply equivalent subjects Search modes - Boolean/Phrase	484,837
S51	S49 OR S50	Expanders - Apply related words; Apply equivalent subjects Search modes - Boolean/Phrase	10,945
S50	breast milk or human milk or milk, breast or milk, human	Expanders - Apply related words; Apply equivalent subjects Search modes - Boolean/Phrase	10,915
S49	MH "Milk, Human+"	Expanders - Apply related words; Apply equivalent subjects Search modes - Boolean/Phrase	7,368