Exposure Assessment

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- 148. Echinacea is not used as a food commodity on its own or in recipes for cooking, but there are tea and honey products, found from online sources, supplemented with Echinacea and Echinacea extracts (Table 3), and these could be consumed as part of the general diet. Data from the National Diet and Nutrition Survey (NDNS) (Bates et al., 2014, 2016, 2020; Roberts et al., 2018) on acute herbal and fruit tea consumption and honey among women of childbearing age (16-49 years) may provide an indicator of Echinacea intake from these foods during pregnancy. The NDNS does not provide data for pregnant or lactating women, so while data is based on women of childbearing age, this may not necessarily be representative of the maternal diet. It is also worth noting that some of the Echinacea containing tea products advise pregnant or lactating women to consult a healthcare professional prior to using the product. The Echinacea-containing honey states that it is suitable for pregnant or breastfeeding women, whilst the lozenges contain no warnings. Like tablets and

capsules lozenges are solid dosage forms, but they are specifically designed to dissolve or disintegrate slowly in the mouth and are formulated with a flavoured or sweetened base.

Table 3: Food products containing *Echinacea*.

Product name	Туре	Echinacea species and plant part	Composition	Directions for use	Daily dose of <i>Echinacea</i> (mg)	Additional information/warnings
Pukka Herbs Elderberry and Echinacea Organic Herbal Tea.	Tea bags.	Echinacea (species not specified) herb.	Ginger root, liquorice root, Echinacea herb (11%), beetroot, aniseed, rosehip, peppermint leaf, orange peel, elderflower (5%), elderberry (4%), hibiscus, orange essential oil flavour, blackcurrant flavour.	Not specified.	Not specified.	None.

Yogi Tea | Echinacea Tea bags. Not Special specified. Formula.

Cinnamon, Echinacea, Pour 250 ml ginger, of freshly fennel, boiled water rooibos, over the roasted teabag. chicory, Allow to Not carob, None. specified. infuse for 5 cardamom, to 6 minutes basil, burdock - or longer root, black for a pepper, stronger turmeric root, flavour. astragalus,

vanilla beans.

Yogi Tea,
Echinacea
Immune
Support,
Caffeine
Free, 16 Tea
Bags, 0.85 oz
(24 g).

Echinacea
purpurea
purpurea
purpurea
specified.

Each tea bag contains:

144 mg

Echinacea purpurea,

47 mg

Echinacea purpurea extract,

extract,
1,245 mg
herb blend
(rose hips,
dried acerola
juice, basil,
cinnamon,
ginger,
cardamom,
elderberries,
black pepper,
moringa,
hibiscus,
cocoa shells,
liquorice,
fennel).

Bring water to boiling and steep 7 minutes. For a stronger tea, use 2 tea bags. Drink 3-4 cups daily.

1,152 mg Consult your

Echinacea healthcare pr
purpurea prior to use if
and pregnant or n
141 - 376 taking any
mg medication or
Echinacea have a medic
purpurea condition.

extract.

Each tea bag contains: 1005 mg **Echinacea** purpurea herb, 127.5 mg

Traditional Medicinals, Organic Echinacea Plus, Echinacea Elderberry, Tea bags. *purpurea* Caffeine herb. Free, 16 Wrapped Tea Bags, 0.85 oz

(24 g).

European Pour 8 oz elder flower, (~227 mL) 1,245 mg freshly herb blend boiled water (ginger over 1 tea rhizome, bag. Cover & Steep for 10chamomile flower, 15 min. Enjoy 5-6 yarrow flower, cups peppermint throughout leaf, the day. Echinacea purpurea root dry extract (2-8:1),European

elder fruit dry concentrate).

Do not use if pregnant or breastfeeding directed othe Echinacea your healthca practitioner. I recommende with children 12 years of ag

5,025 -

6,030 mg

purpurea

herb.

Traditional Medicinals, Organic **Immune** Zoom®, Echinacea Lemon Ginger Tea bags. *purpurea* Echinacea, root. Caffeine Free, 16 Wrapped Tea Bags, 1.13 oz (32 g).

2,000 mg herb blend (ginger rhizome,

Echinacea purpurea

herb, lemon myrtle leaf (Backhousia citriodora), lemon peel, liquorice root, peppermint leaf,

Echinacea
purpurea
root dry
extract (28:1),

cardamom seed, Organic liquorice root dry extract (6:1).

Pour 8 oz
(~227 mL)
freshly
boiled water
over 1 tea
bag. Cover &
Steep for 1015 min.
Enjoy 2 cups
throughout
the day.

Consult your healthcare practitioner p use if you are pregnant or breastfeeding you have an autoimmune immune syste disorder, or if taking immunosuppi or if you have gallbladder di Not recomme use with child under 12 yea age.

Superblends Defence 20 Tea Bags.	Tea bags.	Echinacea (species not specified) root.	Green tea (26%), Ginger root (15%), White hibiscus, Cinnamon bark, Natural lemon Flavouring with other Natural Flavourings (10%), Echinacea root (9%), Lemon peel (5%), Natural flavouring, Natural lime flavouring (4%), vitamin C (2%).	At least 1 cup a day.	Not specified.	None.
Frontier Co- op, Organic Cut & Sifted Echinacea Angustifolia Root.	Loose herb for tea.	Echinacea angustifolia root.	Half a teaspoon contains 1.1 g cut root.	To prepare as tea, pour 8 oz. (~227 mL) boiling water over 1/2 teaspoon of root. Cover and steep 20-30 minutes,	Not specified.	If pregnant, n suffering from medical condi- taking medical consult a heal practitioner buse.

strain and

immediately.

serve

Frontier Coop, Organic Elderberry Echinacea Wellness Tea, 16 oz.	Loose herb for tea.	Echinacea purpurea herb and root.	Elderberry, Echinacea purpurea herb, peppermint, yarrow, ginger, chamomile flower, Echinacea purpurea root.	Pour 8 oz. (227 mL) boiling water over 1 tablespoon of tea. Cover and steep 10-15 minutes, strain and serve immediately.	Not specified.	If pregnant, n suffering from medical condi- taking medica consult a hea practitioner b use.
Frontier Co- op, Cut & Sifted Echinacea Purpurea Herb.	Loose herb for tea.	Echinacea purpurea herb.	One teaspoon contains 820 mg Echinacea purpurea cut herb.	To prepare as a tea, pour 8 oz. (~227 mL) boiling water over 1 teaspoon of herb. Cover and steep 3-5 minutes, strain and serve immediately.	Not specified.	None.

Lemon & Ginger Vitamin Honey.	Honey.	Not specified.	1 teaspoon (7g) contains: 15 mg Echinacea, 3 mcg vitamin D3, 10mg vitamin C, 0.4 mcg vitamin B6, 0.4 mcg vitamin B12.	2 teaspoons into warm water.	Not specified.	This product is suitable for properties or breastfeed women, however'd always recommend to consult with a professional in are unsure be making a pure
Orange Vitamin Honey.	Honey.	Not specified.	1 teaspoon contains: 15 mg Echinacea, 3 mcg vitamin D3, 10mg vitamin C, 0.4 mcg vitamin B6, 0.4 mcg vitamin B12.	into warm water.	Not specified.	This product is suitable for properties or breastfeed women, howewe'd always recommend to consult with a professional in are unsure be making a pure
Wedderspoor Natural Manuka Honey and Ginger with Echinacea Drops (20 Drops per box).	n Honey.	Not specified.	Organic cane sugar, organic manuka honey (15.5%), organic brown rice syrup, ground ginger (0.6%), <i>Echinacea</i> (0.04%).	Not specified.	Not specified.	None.

Each lozenge (2.2 g) contains:

Glucose syrup, raw cane sugar, honey, herb extracts,

fresh

extract

natural

flavours,

caramel

peppermint essential oil, citric acid.

colour, menthol,

(0.62%),

Echinacea purpureaAs required.
Not specified.
None.

A.Vogel Echinacea Lozenges | Extract of Echinacea Freshly purpurea Harvested Lozenges. herb and Echinacea | root Blend of extract. Other Herbs | Suitable for Vegetarians |

30g.

Sugar, glucose syrup, Fair Trade honey (5.1%),extract (0.5%) of Ricola's herb mixture, vitamin C,

Honey Lemon not Echinacea Lozenges. specified) Soothe & dry Clear Drops

75g (Ricola).

Echinacea (species pressed juice.

lemon juice concentrate, acid (citric acid, malic acid), natural flavourings, natural

Echinacea aroma (Echinacea dry pressed juice), mint oil, peppermint oil, menthol.

Not

As required.

None. specified.

Each lozenge contains: 100 mg Swanson, As a dietary vitamin C, 25 Zinc & C with supplement, 40 mg Echinacea mg zinc, **20** dissolve one Echinacea Elderberry & purpurea mg Echinacea, Lozenges. herb (aerial lozenge in purpurea Echinacea Orange & the mouth powdered parts) purpurea Lemon, 60 two times powder. herb. powder, 20 per day. Lozenges. mg elderberry extract.

- 149. The NDNS data suggests that women of childbearing age consume a mean of 520 mL/person/day or 1,500 mL/person/day at the 97.5th percentile of herbal and fruit tea at the acute consumption level (Table 4a). This corresponds to a mean of 5.2 g/person/day or 15 g/person/day of fruit and herbal tea at the 97.5th percentile on a dried basis (calculated by applying a conversion factor of 0.01 to convert tea as consumed to dry weight; Table 4b). At the chronic consumption level, women of childbearing age consume a mean of 290 mL/person/day or 1,100 mL/person/day at the 97.5th percentile (Table 4a), corresponding to 2.9 g/person/day or 11 g/person/day respectively on a dried basis (Table 4b).
- 150. Information from Echinacea tea products available suggests preparing the teacup with 227-250 mL hot water and consumption recommendations vary between 2-6 cups per day (Table 3). Based on the Echinacea content of the tea products (Table 3), that would provide 144 1005 mg herb per cup of tea. Taking the NDNS data into consideration and the assumption that a cup of Echinacea tea will be prepared with 250 mL water, this would equate to the consumption of 6 Echinacea cups of tea per day at the 97.5th percentile by women of childbearing age at the acute consumption level, corresponding to 864 6,030 mg Echinacea herb. At the chronic consumption level, approximately 4 cups of tea per day will be consumed at the 97.5th percentile, corresponding to 576 4,020 mg Echinacea herb.

Table 4a: Acute and chronic consumption of herbal and fruit tea (as consumed) as a proxy for Echinacea tea (without recipes).

Consumption	Consumers (n)^	Mean	97.5 th percentile (mL/person /day)	Mean (ml /kg/	97.5 th percentile (mL/kg bw/day)	Respondents in population group (n)
Acute	364	520	1,500	8.0	23	2,556
Chronic	364	290	1,100	4.5	16	2,556

^{*}Rounded to 2 significant figures.

Table 4b: Acute and chronic consumption of herbal and fruit tea (dry weight) as a proxy for Echinacea tea (without recipes).

Concumption	Consumers (n)^	Mean	97.5 th percentile (mL/person /day)	Mean (mL/kg/ bw/day)	percentile	Respondents in population group (n)
Acute	364	5.2	15	0.08	0.23	2,556
Chronic	364	2.9	11	0.045	0.16	2,556

^{*}Rounded to 2 significant figures.

- a Conversion factor of 0.01 used to convert tea from 'as consumed' to dry weight.
- 151. The NDNS data on honey consumption (Table 5) suggests that women of childbearing age have an acute consumption of honey with a mean of 15 g/person/day honey or 48 g/person/day at the 97.5th percentile. Under the chronic consumption scenarios, these figures are a mean of 6 g/person/day honey

[^]Based on women of childbearing age (16-49 years).

a Conversion factor of 0.99 used to convert tea dry weight to 'as consumed'.

[^]Based on women of childbearing age (16-49 years).

or 25 g/person/day at the 97.5th percentile. Echinacea honey products contain 0.4-2.1 mg Echinacea per 1 g honey (Table 3). This would equate to the consumption of 19.2-101 mg Echinacea at the 97.5th percentile for acute consumption and 10-52.5 mg Echinacea under the chronic consumption scenario.

Table 5: Acute and chronic consumption of honey as a proxy for *Echinacea* honey consumption (without recipes).

Consumption	Consumers (n)^	Mean	97.5 th percentile (g/person /day)	Mean	97.5 th percentile (g/kg bw/day)	Respondents in population group (n)
Acute	293	15	48	0.23	0.75	2,556
Chronic	293	6.0	25	0.093	0.35	2,556

^{*}Rounded to 2 significant figures.

152. Echinacea supplements found online are available as solid dosage forms such as tablets and capsules (Table 6a) and oral liquids such as oral solutions and tinctures (Table 6b). The majority of these supplements advise consultation with a healthcare provider prior to using them if pregnant/breastfeeding or state that they are not suitable for use in pregnancy and lactation. In addition, some of the supplements recommend short-term use only (5 days to several weeks).

Table 6a: Echinacea food supplements (solid dosage forms).

		Echinacea			Daily dose	
Product name	Dosage form	species and plant part	Composition	Directions for use	Daily dose Echinacea (mg)	Addition informat

[^]Based on women of childbearing age (16-49 years).

NOW Foods Echinacea 400 mg 100 Veg Capsules.	Capsules.	Echinacea purpurea root.	400 mg root.	Take 2 capsules 1 to 4 times daily as needed. Continuous high level consumption of this product for more than 2 weeks of each month is not recommended.	800 - 3,200 mg root.	For adults Consult p if pregnant/ taking medication have a medication.
Grane Tree		Echinacea				Linked to health be including

(species not 500 mg root. 1 tablet daily.

inflamma

improved

immunity lower blo levels.

500 mg

root.

specified)

root.

Tablets.

Grape Tree

Echinacea

Root 500mg.

Swanson Echinacea, 400mg herbal supplement.	Capsules.	Echinacea purpurea herb (aerial parts).	400 mg herb.	1 capsule up to 3 times per day. Limit use to eight consecutive weeks. Use periodically for a few weeks at a time (for maintenance purposes).	400-1,200 mg herb.	Do not tall product if pregnant nursing. Or your healt provider to using this product if taking medication have a medication especially autoimmut condition.
Echinacea, 1300 mg (per serving), 180 Vegetarian		Echinacea purpurea herb (aerial	65 mg herb extract (DER 10:1)	Take 2 vegetarian capsules per	130 mg herb extract equivalent	If you are pregnant, nursing, t any medical

equivalent to

650 mg herb. with a meal.

parts).

day preferably

Vegetarian

Capsules.

For adults

to 1,300 mg conditions

consult yo doctor be

use.

herb.

Life Extension, Echinacea Elite, 60 Vegetarian Capsules.	Capsules.	Echinacea purpurea herb and Echinacea angustifolia root.	Echinacea purpurea (aerial parts) extract 125 mg [standardised to 4% phenolic compounds]. Echinacea angustifolia (root) extract 125 mg [standardised to 4% echinacosides]	Take 1 capsule twice daily.	250 mg Echinacea purpurea (aerial parts) extract and 250 mg Echinacea angustifolia (root) extract.	Consult w physician are under treatment medical c or if you a pregnant lactating.
Specialist				1 capsule, 3 times a day, taken with		If you are pregnant, feeding, h

325 mg.

Preparation

not specified..

Echinacea

Capsules. angustifolia.

975-1,300

mg

four times this angustifolia. supervision

desired, up to *Echinacea*

food or a

drink. If

amount can

safely be

taken.

medical c

or are un

medical

please co

doctor be

use.

Herbal

(SHS)

Supplies

Echinacea

Capsules.

Nuke Nutrition Echinacea Tablets High Strength x180 - Immune Support Echinacea Herbal Supplements	Tablets.	Echinacea. Species and part of plant not specified.	200 mg extract (DER 10:1) equivalent to 2,000 mg Echinacea.	Take 1 tablet with your first meal of the day.	200 mg extract equivalent to 2,000 mg Echinacea.	Consult ye physician are taking medication under me supervision you are period and breastfee
Echinacea Extract Capsules 3500mg (High Strength) Echinacea	Capsules.	Echinacea purpurea. Plant part not specified.	350 mg extract (DER 10:1) equivalent to 3,500 mg Echinacea pupurea.	Take 1 capsule per day with water.	350 mg extract equivalent to 3,500 mg Echinacea purpurea.	None.

purpurea.

Nature's Way, Echinacea Goldenseal,	Capsules.	Echinacea purpurea herb (aeria parts) and
450 mg, 100 Vegan Capsules.	·	Echinacea angustifolia root.

450 mg Echinacea 7 Herb Blend: Echinacea purpurea (stem, leaf, flower), Goldenseal Take 2 (root), capsules twice Echinacea daily, angustifolia preferably (root), а with food. Burdock (root), Gentian (root), Cayenne Pepper (fruit), **Wood Betony** (stem, leaf, flower).

1,800 mg Echinacea 7 herb blend. Exact dose of Echinacea cannot be determined.

Do not us are pregn nursing, h stomach duodenal stomach or inflami Not recomme individual autoimmi condition have diab are taking medication consult a healthcar profession before us

Nature's Way, Echinacea Purpurea Herb, 1,200 mg, 180 Vegan Capsules (400 mg per Capsule).

Echinacea purpurea Capsules. herb (aerial parts).

400 mg herb.

Adults take 3 capsules three times daily, preferably with food. Only take this supplement if they are suffering severe illness to stimulate the immune system and to not take for longer than 5 days.

herb.

If pregnai nursing, o any medi 3,600 mg consult a healthcar profession

before us

California Gold Nutrition, EuroHerbs, Echinacea Herb Extract, Euromed Quality, 80 mg, 180 Veggie Capsules.	Capsules.	Echinacea purpurea herb (aerial parts).	80 mg Echinacea purpurea (aerial parts) extract (DER 5:1) equivalent to 400 mg dried herb.	Take 1 capsule daily, with food.	80 mg extract equivalent to 400 mg dried herb.	Pregnant lactating should co with a phy pharmaci naturopat other qua healthcar profession to taking suppleme
21st Century, Echinacea Complex, 250 mg, 60 Vegetarian Capsules (125 mg per Capsule).	Capsules.	Echinacea purpurea herb and Echinacea angustifolia root.	125 mg Echinacea blend (Echinacea purpurea herb extract and Echinacea angustifolia root powder).	Adults take two (2) capsules daily with any meal or as directed by a healthcare provider.	250 mg Echinacea blend (Echinacea purpurea herb extract & Echinacea angustifolia root powder).	Consult a healthcar provider guse if pre-nursing, comedication have a monocondition planning a medical procedure
Sundown Naturals, Whole Herb Echinacea, 400 mg, capsules.	Capsules.	Echinacea purpurea herb (aerial parts).	400 mg Echinacea purpurea herb.	Take (1) capsule seven times daily, preferably with meals. Capsules may be opened and prepared as a tea.	2,800 mg herb.	If you are pregnant, nursing, t any medic or have a medical condition, your doct before.

Gaia Herbs, Echinacea Goldenseal, 60 Vegan Liquid Phyto- Caps.	Capsules.	Echinacea purpurea root, aerial parts and seed and Echinacea angustifolia root.	800 mg Proprietary Extract Blend: Echinacea purpurea root, Goldenseal (Hydrastis canadensis) root, Echinacea angustifolia root, Echinacea purpurea seed, St. John's Wort (Hypericum perforatum) aerial parts, Echinacea purpurea	Adults take 2 capsules 3 times daily between meals.	4,800 mg Proprietary Extract Blend. Exact dose of Echinacea cannot be determined	Not for us during pre or lactation
			<i>purpurea</i> aerial parts.			
Specialist Herbal Supplies (Shs)	Capsules.	Echinacea angustifolia.	Echinacea angustifolia 92mg, Garlic 92mg, Myrrh 92mg, Wild	1 capsule, 3 times a day, taken with	276 mg Echinacea	Do not tall alongside thinning of such as we not to be pregnance

Indigo 46mg.

Echinacea

preparation

not specified.

food or a

drink.

pregnanc

breastfee

for childre

under 12

old.

angustifolia.

Table 6b: *Echinacea* food supplements (oral liquids).

(Shs)

Echinacea

Compound.

angustifolia.

Product name	Dosage form	Echinacea species and plant part	Composition	Directions for use	Daily dose <i>Echinacea</i> (mg)	Additional informatior
Nature's Way, Echinacea, 500 mg, 1 fl oz (30 mL).	Oral solution.	Echinacea purpurea herb (aerial parts).	250 mg herb extract per 1 mL.	Adults: Take 2 mL 3 times daily. Children ages 6-12 years of age: Take 1 mL 3 times daily. Intensive: Take 2 mL every 2 hours for first 48 hours. Then take 2 ml 3 times daily for next 8-9 days. May be added to foods/drinks.	Adults: 500-1,500 mg herb extract Children: 250-750 mg herb extract.	If pregnant, nursing, or taking any medications, consult a healthcare professional before use. Not recommende for individua with autoimmune conditions.
Echinacea Single Herbal Tincture 150mL.	Tincture.	Echinacea (species not specified).	Dried herb to liquid ratio W/V 1:5 or fresh herb to liquid ratio W/V 1:3.	Dosage is normally between 1mL and 5 mL added to a little water up to three times a day.	3 - 15 mL herb extract daily equivalent to 600 - 3,000 mg dried herb or 1,000 - 5,000 mg fresh herb.	None.

Baldwins Echinacea (angustifolia) Herbal Tincture.	Tincture.	Echinacea angustifolia.	Herb:Liquid 1:3.	No guidance.	No guidance.	None.
Napiers the Herbalists Napiers Organic Echinacea Drops.	Oral drops	Echinacea purpurea herb (aerial parts)	Not stated	Take 15-20 drops 2-3 times a day. 15 drops = 0.5 mL	30 - 60 drops daily. Equivalent to 1-2 mL solution.	Not suitable for children under 12 years. Do no take if pregnant or breastfeedin
100% Organic Echinacea Tincture Viridian 50ml.	Tincture.	Echinacea purpurea whole plant.	1 mL = 480 mg whole fresh plant.	Take 15 - 30 drops, 2-3 times daily in a little fruit juice or water. 15 drops = 0.5 mL.		unless

NOW Foods, Echinacea Extract, 2 fl oz (59 ml).	Oral solution.	Echinacea angustifolia and Echinacea purpurea root.	Root extract. 1.6 mL per 2 droppersfuls.	Take 1 to 2 droppersful in tea or water 1 to 3 times daily as needed. Continuous high-level consumption of this product for more than 2 weeks of each month is not recommended.	0.8 - 4.8 mL.	Not recommende for pregnant or nursing women.
Cytoplan Organic Echinacea.	Oral solution.	Echinacea angustifolia.	1:3 extract.	Take 20 drops mixed into water or liquid of choice 2-3 times daily. 20 drops = 2mL.	40-60 drops daily. Equivalent to 4-6 mL extract daily.	Not suitable for children under 12 years of age Not suitable for use whils pregnant or breastfeedin

- 153. If the supplements are composed of herbal blends or don't specify directions for use or preparation type, the recommended daily dose of Echinacea is difficult to derive. Where extracts are used in preparations, the daily dose of Echinacea from capsules/tablets (Table 6a) is 130 700 mg dry herb extract (equivalent to 1,300 7,000 mg herb). For tablets/capsules containing dried plant parts (herb or root), the dose of Echinacea is 400 3,600 mg (herb) or 500 3,200 mg (root). Fewer oral liquid products were found from online sources and the directions for use, or the exact composition was lacking for some (Table 6b). From the liquid products available, the daily Echinacea dose is 500 1,500 mg herb extract or 600 3,000 mg dried herb.
- 154. The Echinacea products for oral use with THR from the MHRA are available as tablets, capsules, oral solutions, tinctures and oromucosal spray (see Table 10

Annex B). The most common products with THR in the UK are tablets and capsules based on dry extract from E. purpurea root, with daily doses of 143-429 mg dry root extract (equivalent to 858 – 3,000 mg root). If THR preparations (available in both solid and liquid dosage forms) made with dried pressed juice from E. purpurea herb are consumed, the daily dose would be 176-352 mg dried pressed juice (equivalent to 3.5-9.8 g fresh herb). A comparison between the THR products and the EMA monographs in terms of species used, preparations and doses can be found in Table 11, Annex B. There is no evidence to suggest that THR products and Echinacea food supplements are taken together, and the assumption is that this is unlikely, especially since the THR products advise against use in pregnancy in their patient information leaflets. In addition, the regulation of THR is a remit of the MHRA and the Echinacea exposure from THR is therefore not considered in the combined consumption scenarios discussed below.

155. Pregnant women may use a combination of Echinacea containing foods such as tea, honey and lozenges in addition to food supplements in the form of tablets, capsules and oral liquids during pregnancy. The FSA's Exposure Team calculated consumption values for Echinacea during pregnancy, assuming different combinations of tea, honey, lozenges, tablets/capsules and oral liquids in order to cover different worst-case exposure scenarios. These combined consumption values displayed in Tables 8a-8c Annex B (acute consumption) and Tables 9a-9a Annex B (chronic consumption) are based on supplement dose recommendations for the food supplements and NDNS consumption data for the tea, honey and lozenges combined with information on their Echinacea content from the product ingredient listing. Tables 7a and 7b show the estimated minimum and maximum consumption levels of Echinacea for different numbers of Echinacea containing products consumed under the acute and chronic consumption scenarios respectively. It is apparent that the consumption level resulting from combined use of food products and food supplements may reach up to 13,000 mg Echinacea (as dried herb/root) for acute consumption and up to 11,000 mg for the chronic consumption scenario, especially if 3 or more Echinacea containing products are consumed together.

Table 7a: Estimated minimum and maximum acute consumption of *Echinacea* (as dried root/herb), based on number of products consumed per day, during pregnancy.

Number of Echinacea products consumed per day	Minimum estimated consumption <i>Echinacea</i> (mg/day)	Maximum estimated consumption <i>Echinacea</i> (mg/day)
2	60	9,600
3	460	13,000
4	1,100	13,000
5	1,900	13,000

^{*}Rounded to 2 significant figures.

Table 7b: Estimated minimum and maximum chronic consumption of *Echinacea* (as dried root/herb), based on number of products consumed per day, during pregnancy.

Number of <i>Echinacea</i> products consumed per day	Minimum estimated consumption <i>Echinacea</i> (mg/day)	Maximum estimated consumption <i>Echinacea</i> (mg/day)
2	50	7,600
3	450	11,000
4	1,000	11,000
5	1,600	11,000

^{*}Rounded to 2 significant figures.