APPENDIX 16

LITERATURE REVIEW

LITERATURE REVIEW

Literature reviews were performed to search for any peer-reviewed publications related to potential adverse health effects resulting from consumption of cultured quail meat and conventional quail meat. All publications were reviewed for relevance and the full list of publications are recorded.

1. Literature search for endogenous toxins, allergens, anti-nutrients, and effects on bioavailability associated with cultured quail meat

A comprehensive literature search was conducted to identify potential adverse health effects associated with cultured quail meat, including the potential to:

a) produce toxins or be toxic;
b) produce allergens or have allergenic properties;
c) produce anti-nutrients; or
d) affect bioavailability of nutrients.

The databases searched included: CINAHL, FSTA®, MEDLINE®, Proquest Environmental Science Index, and Toxline.

The following terms were searched within the full text of peer-reviewed articles, with no date limits (up to 4 January 2023):

("cultured quail" OR "cultivated quail" OR "lab-grown quail“ OR "cell-based quail" OR "slaughter-free quail" OR "clean quail" OR "cultured poultry" OR "cultivated poultry" OR "lab-grown poultry” OR "cell-based poultry" OR "slaughter-free poultry" OR "clean poultry") AND:

a) “toxi*”
b) “allerg*”
c) “anti-nutrient” OR “antinutrient”
d) "biological availability" OR "bioavailab*" OR "bioequival*" OR "bioactiv*" OR "absor*" OR "digest*" OR "metabol*" OR "excret*" OR "stor*"OR "deliver*" OR "assimil*"OR "utili*"OR "uptake" OR "intestin*"OR "trace element"OR "mineral" OR "vitamin" OR "deficien*"OR "anaemi*"

a) <u>The search retrieved eleven publications related to toxins/toxicity ("toxi*") and cultured quail; none of the publications were relevant for the safety evaluation of consumption of Vow cultured quail.</u>

1. Balasubramanian, B., Liu, W., Pushparaj, K., & Park, S. (2021). The epic of *in vitro* meat Production—A fiction into reality. Foods, 10(6), 1395.
2. Kaltner, H., Zickert, D., Hellmann, R., & Wittmann, J. (1994). Toxic effects of cyclophosphamide and methylnitrosourea in Japanese quail embryos depend on the route of administration. Reproductive Toxicology (Elmsford, N.Y.), 8(1), 55-62.
3. Kriegsfeld, L. J., Gibson, E. M., Williams, W. P., 3rd, Zhao, S., Mason, A. O., Bentley, G. E., & Tsutsui, K. (2010). The roles of RFamide-related peptide-3 in mammalian reproductive function and behaviour. Journal of Neuroendocrinology, 22(7), 692–700.
4. Krock, B. L., & Perkins, B. D. (2014). The par-PrkC polarity complex is required for cilia growth in zebrafish photoreceptors. PLoS One, 9(8).
5. Matsui, H., Karasawa, Y., Sato, T., Kanno, S., Nishikawa, S., & Okisaka, S. (2007). [Toxicity of indocyanine green dye on müller cells]. Nippon Ganka Gakkai Zasshi, 111(8), 587-593.
6. Nakamura, T. Y., Yamamoto, I., Kanno, Y., Shiba, Y., & Goshima, K. (1994). Metabolic coupling of glutathione between mouse and quail cardiac myocytes and its protective role against oxidative stress. Circulation Research, 74(5), 806-816.
7. Obimakinde, S., Fatoki, O., Opeolu, B., & Olatunji, O. (2017). Veterinary pharmaceuticals in aqueous systems and associated effects: An update. Environmental Science and Pollution Research International, 24(4), 3274-3297.
8. Pessah, I. N., Nieberg, P. S., & Wilson, B. W. (1993). Ryanodine induces maturation of embryonic acetylcholinesterase forms in cultured quail myotubes. Life Sciences, 52(15), 1279–1285.
9. Roelandt, L., Dubois, M., Todaro, A., Thome, J. P., & Kremers, P. (1995). Effect of inducers and PCBs on the cytochrome P450 enzymes in cultured quail hepatocytes. Ecotoxicology and Environmental Safety, 31(2), 158-163.
10. Sato, T., Ito, M., Ishida, M., & Karasawa, Y. (2010). Phototoxicity of indocyanine green under continuous fluorescent lamp illumination and its prevention by blocking red light on cultured Müller cells. Investigative Ophthalmology & Visual Science, 51(8), 4337-4345.
11. viviD, D., & Bentley, G. E. (2018). Seasonal reproduction in vertebrates: Melatonin synthesis, binding, and functionality using Tinbergen's four questions. Molecules, 23(3), 652.

b) <u>The search retrieved one publication related to allergenicity ("allerg") and cultured quail; this publication was not relevant for the safety evaluation of consumption of Vow cultured quail.</u>

1. Obimakinde, S., Fatoki, O., Opeolu, B., & Olatunji, O. (2017). Veterinary pharmaceuticals in aqueous systems and associated effects: An update. Environmental Science and Pollution Research International, 24(4), 3274-3297.

c) No publications were found related to anti-nutrients ("anti-nutrient" OR "antinutrient") and cultured quail.

d) The search retrieved 66 publications related to the bioavailability of nutrients and cultured quail; these publications were not relevant for the safety evaluation of consumption of Vow cultured quail.

1. Ancel, C., Inglis, M. A., & Anderson, G. M. (2017). Central RFRP-3 stimulates LH secretion in male mice and has cycle stage-dependent inhibitory effects in females. Endocrinology, 158(9), 2873-2883.
2. Balasubramanian, B., Liu, W., Pushparaj, K., & Park, S. (2021). The epic of in vitro meat Production—A fiction into reality. Foods, 10(6), 1395.
3. Bentley, G. E., Tsutsui, K., & Kriegsfeld, L. J. (2010). Recent studies of gonadotropin-inhibitory hormone (GnIH) in the mammalian hypothalamus, pituitary and gonads. Brain research, 1364, 62-71.
4. Block, J. A., & Atkinson, B. G. (1979). Histones and histone phosphorylation during quail myogenesis in vitro. Cell differentiation, 8(6), 413-420.
5. Chao-Tan, G., Takahashi, N., Yagi, H., Kato, K., Takahashi, T., Shuang-Qin, Y., . . . Suzuki, Y. (2007). The quail and chicken intestine have sialyl-galactose sugar chains responsible for the binding of influenza A viruses to human type receptors. Glycobiology, 17(7), 713-24.
6. Chen, E. C., Maldonado, R. J. K., & Parent, L. J. (2021). Visualizing Rous sarcoma virus genomic RNA dimerization in the nucleus, cytoplasm, and at the plasma membrane. Viruses, 13(5), 903.
7. Choudhury, D., Ting, W. T., & Swartz, E. (2020). The business of cultured meat. Trends in Biotechnology, 38(6), 573-577.
8. Chung, M., Tsoutsman, T., & Semsarian, C. (2003). Hypertrophic cardiomyopathy: From gene defect to clinical disease. Cell Research, 13(1), 9-20.
9. Deng, S., Hu, S., Xue, J., Yang, K., Zhuo, R., Xiao, Y., & Fang, R. (2022). Productive performance, serum antioxidant status, tissue selenium deposition, and gut health analysis of broiler chickens supplemented with selenium and Probiotics—A pilot study. Animals, 12(9), 1086.
10. Distasi, C., Munaron, L., Laezza, F., & Lovisolo, D. (1995). Basic fibroblast growth factor opens calcium-permeable channels in quail mesencephalic neural crest neurons. European Journal of Neuroscience, 7(3), 516-520.
11. Doerner, K. C., & Mason, B. P. (2006). Nutritional deprivation increases intracellular phosphate and polyphosphate in poultry litter microflora. Journal of Applied Microbiology, 42(5), 527-531.
12. Fernandez-Valle, C., & Rotundo, R. L. (1989). Regulation of acetylcholinesterase synthesis and assembly by muscle activity: effects of tetrodotoxin. Journal of Biological Chemistry, 264(24), 14043-14049.

13. Golson, M. L., Sanger, J. M., & Sanger, J. W. (2004). Inhibitors arrest myofibrillogenesis in skeletal muscle cells at early stages of assembly. Cell Motility and the Cytoskeleton, 59(1), 1-16.
14. Gottschald, M., Falenski, A., Rügen, M., Käsbohrer, A., & Weiser, A. A. (2019). Map and analyse global food and feed supply chains. EFSA Supporting Publications, 16(12).
15. Guo, C. T., Takahashi, N., Yagi, H., Kato, K., Takahashi, T., Yi, S. Q., ... & Suzuki, Y. (2007). The quail and chicken intestine have sialyl-galactose sugar chains responsible for the binding of influenza A viruses to human type receptors. Glycobiology, 17(7), 713-724.
16. Hennig, A. K., & Maxwell, G. D. (1996). Persistent correlation between expression of a sulfated carbohydrate antigen and adrenergic differentiation in cultures of quail trunk neural crest cells. Differentiation, 59(5), 299-306.
17. Hennig, A. K., & Maxwell, G. D. (1997). Expression of a quail bHLH transcription factor is associated with adrenergic development in trunk neural crest cultures. Cellular and molecular neurobiology, 17(4), 379-399.
18. Islam, A., Islam, S., Amin, E., Shano, S., Samad, M. A., Shirin, T., . . . Meerjady, S. F. (2022). Assessment of poultry rearing practices and risk factors of H5N1 and H9N2 virus circulating among backyard chickens and ducks in rural communities. PLoS One, 17(10).
19. Jeffery, W. R., Strickler, A. G., & Yamamoto, Y. (2004). Migratory neural crest-like cells form body pigmentation in a urochordate embryo. Nature, 431(7009), 696-9.
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21. Kahn, C. R., & Sieber-Blum, M. (1983). Cultured quail neural crest cells attain competence for terminal differentiation into melanocytes before competence to terminal differentiation into adrenergic neurons. Developmental Biology, 95(1), 232-238.
22. Kaltner, H., Heydner, C., & Wittmann, J. (1991). The influence of thiourea on the development of the cultured quail embryo. Journal of Veterinary Medicine Series A, 38(1-10), 43-48.
23. Kaltner, H., Zickert, D., Hellmann, R., & Wittmann, J. (1994). Toxic effects of cyclophosphamide and methylnitrosourea in Japanese quail embryos depend on the route of administration. Reproductive Toxicology, 8(1), 55-62.
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26. Krock, B. L., & Perkins, B. D. (2014). The par-PrkC polarity complex is required for cilia growth in zebrafish photoreceptors. PLoS One, 9(8).
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(*Coturnix coturnix japonica*) and the lack of its mRNA in acid maltase deficient quails. Biochimica et Biophysica Acta (BBA)-Molecular Basis of Disease, 1362(2-3), 269-278.
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35. Maxwell, G. D., Sietz, P. D., & Rafford, C. E. (1982). Synthesis an accumulation of putative neurotransmitters by cultured neural crest cells. Journal of Neuroscience, 2(7), 879-888.
36. Nakamura, T. Y., Yamamoto, I., Kanno, Y., Shiba, Y., & Goshima, K. (1994). Metabolic coupling of glutathione between mouse and quail cardiac myocytes and its protective role against oxidative stress. Circulation Research, 74(5), 806-816.
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38. Obimakinde, S., Fatoki, O., Opeolu, B., & Olatunji, O. (2017). Veterinary pharmaceuticals in aqueous systems and associated effects: An update. Environmental Science and Pollution Research International, 24(4), 3274-3297.
39. Oven, A., Yoxon, B., & Milburn, J. (2022). Investigating the market for cultivated meat as pet food: A survey analysis. PLoS One, 17(12).
40. Pessah, I. N., Nieberg, P. S., & Wilson, B. W. (1993). Ryanodine induces maturation of embryonic acetylcholinesterase forms in cultured quail myotubes. Life Sciences, 52(15), 1279-1285.
41. Pilařová, L., Kvasničková Stanislavská, L., Pilař, L., Balcarová, T., & Pitrová, J. (2022). Cultured meat on the social network twitter: Clean, future and sustainable meats. Foods, 11(17), 2695.

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43. Sanger, J. W., Wang, J., Fan, Y., White, J., & Sanger, J. M. (2010). Assembly and dynamics of myofibrils. Journal of Biomedicine and Biotechnology, 2010, 858606.
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46. Shirazi-Beechey, S. (2018). Taste perception throughout life and evolution. Journal of Animal Science, 96, 353-354.
47. Sieber-Blum, M., & Ren, Z. (2000). Norepinephrine transporter expression and function in noradrenergic cell differentiation. In Control of Gene Expression by Catecholamines and the Renin-Angiotensin System. Developments in Molecular and Cellular Biochemistry, 212, 61-70.
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49. Steele, C. T., Tosini, G., Siopes, T., & Underwood, H. (2006). Time keeping by the quail's eye: circadian regulation of melatonin production. General and Comparative Endocrinology, 145(3), 232-236.
50. Svitkina, T. M., Neyfakh, A. A., & Bershadsky, A. D. (1986). Actin cytoskeleton of spread fibroblasts appears to assemble at the cell edges. Journal of Cell Science, 82(1), 235-248.
51. Tang, C., Lan, D., Zhang, H., Ma, J., & Yue, H. (2013). Transcriptome analysis of duck liver and identification of differentially expressed transcripts in response to duck hepatitis A virus genotype C infection. PLoS One, 8(7).
52. Tomaszewska, E., Knaga, S., Dobrowolski, P., Lamorski, K., Jabłoński, M., Tomczyk-Warunek, A., . . . Muszyński, S. (2020). The effect of bee pollen on bone biomechanical strength and trabecular bone histomorphometry in tibia of young japanese quail (*Coturnix japonica*). PLoS One, 15(3).
53. Treen, N., Itoh, N., Miura, H., Kikuchi, I., Ueda, T., Takahashi, K. G., ... & Osada, M. (2012). Mollusc gonadotropin-releasing hormone directly regulates gonadal functions: a primitive endocrine system controlling reproduction. General and Comparative Endocrinology, 176(2), 167-172.
54. Tsutsui, K., Bentley, G. E., Ubuka, T., Saigoh, E., Yin, H., Osugi, T., ... & Wingfield, J. C. (2007). The general and comparative biology of gonadotropin-inhibitory hormone (GnIH). General and Comparative Endocrinology, 153(1-3), 365-370.
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57. Vallejo, R., Benavides, J., Arteche-Villasol, N., Fernández-Escobar, M., María Del, C. F., Pérez, V., & Gutiérrez-Expósito, D. (2022). Effects of ovine monocyte-derived macrophage infection by recently isolated *Toxoplasma gondii* strains showing different phenotypic traits. Animals, 12(24), 3453.
58. viviD, D., & Bentley, G. E. (2018). Seasonal reproduction in vertebrates: Melatonin synthesis, binding, and functionality using Tinbergen's four questions. Molecules, 23(3), 652.
59. Wan, P., Hu, Y., & He, L. (2011). Regulation of melanocyte pivotal transcription factor MITF by some other transcription factors. Molecular and Cellular Biochemistry, 354(1-2), 241-6.
60. Wang, B., Yang, G., Xu, Y., Li, W., & Liu, X. (2019). Recent studies of LPXRFa receptor signaling in fish and other vertebrates. General and Comparative Endocrinology, 277, 3-8.
61. Wang, X., Liu, S., Mao, H., Zhao, Y., Chen, E., & Chai, C. (2015). Surveillance of avian H7N9 virus in various environments of Zhejiang province, China before and after live poultry markets were closed in 2013–2014. PLoS One, 10(8).
62. Yakhkeshi, S., Rahimi, S., Sharafi, M., Hassani, S., Shahverdi, G., & Baharvand, H. (2018). PSVII-19 characterization and migration of cultured quail primordial germ cells from embryonic blood and gonad. Journal of Animal Science, 96, 354.
63. Yang, J., Gao, S., Chang, Y., Su, M., Xie, Y., & Sun, S. (2019). Occurrence and characterization of *Salmonella* isolated large-scale breeder farms in Shandong province, China. BioMed Research International, 2019(5), 1-8.
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65. Zang, G., Zhang, J., Jia, J., Weger, N., & Ratner, A. (2019). Clean poultry energy system design based on biomass gasification technology: Thermodynamic and economic analysis. Energies, 12(22).
66. Zhang, R., Thabet, A., Hiob, L., Zheng, W., Daugschies, A., & Bangoura, B. (2018). Mutual interactions of the apicomplexan parasites *Toxoplasma gondii* and *Eimeria tenella* with cultured poultry macrophages. Parasites & Vectors, 11(1), 1-12.

2. Literature search for toxins, allergens, anti-nutrients, and adverse health effects associated with conventional quail meat

A literature search was conducted for the potential production of endogenous toxins, allergens, and anti-nutrients associated with conventional quail meat.

The databases searched included: CINAHL, FSTA®, MEDLINE®, Proquest Environmental Science Index, and Toxline.

The following terms were searched within the full text of peer-reviewed articles, with no date limits (to 4 January 2023):

("quail" AND "meat") AND:

a) "toxi*"
b) "allerg*"
c) "anti-nutrient" OR "antinutrient"

a) <u>The search retrieved 513 publications related to toxins/toxicity ("toxi*") and conventional quail; none of the publications indicated that any endogenous toxins are produced by quail that could be present in food. Publications related to coturnism are cited in the dossier (References 260 and 271 below), and discussed in Section A.6.1.3 of the dossier.</u>

1. Abbas, A. O., Alaqil, A. A., Mehaisen, G. M. K., & Kamel, N. N. (2022). Effect of dietary blue-green microalgae inclusion as a replacement to soybean meal on laying hens' performance, egg quality, plasma metabolites, and hematology. Animals, 12(20), 2816.
2. Abbas, G., Arshad, M., Tanveer, A. J., Jabbar, M. A., AL-Taey, D., Mahmood, A., . . . Jiang, M. Y. (2021). Combating heat stress in laying hens a review. Pakistan Journal of Science, 73(4), 633.
3. Abbas, M., Chand, N., Khan, R. U., Nazir, A., Pervez, U., & Naz, S. (2019). Public health risk of heavy metal residues in meat and edible organs of broiler in an intensive production system of a region in Pakistan. Environmental Science and Pollution Research International, 26(22), 23002-23009.
4. Abd El-Hack Mohamed, E., El-Saadony, M., Shehata, A. M., Muhammad, A., Paswan, V. K., Batiha Gaber El-Saber, . . . Elbestawy, A. R. (2021). Approaches to prevent and control *Campylobacter spp*. colonization in broiler chickens: A review. Environmental Science and Pollution Research International, 28(5), 4989-5004.
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the diet with black cumin cold-pressed oil as a natural alternative for antibiotics. Environmental Science and Pollution Research International, 25(2), 1157-1167.
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11. Abdelli, N., Solà-Oriol, D., & Pérez, J. F. (2021). Phytogenic feed additives in poultry: Achievements, prospective and challenges. Animals, 11(12), 3471.
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19. Abou-Elkhair, R., Heba, A. B., Walaa Slouma Hamouda Abd,El Naby, Ajarem, J. S., Maodaa, S. N., Allam, A. A., & Naiel, M. A. E. (2020). Effect of a diet supplemented with the moringa oleifera seed powder on the performance, egg quality, and gene expression in Japanese laying quail under heat-stress. Animals, 10(5), 809.
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c) <u>The search retrieved 10 publications related to anti-nutrients ("anti-nutrients" OR "antinutrients") and conventional quail; none of the publications indicated that any endogenous anti-nutrients are produced by quail that could be present in food.</u>

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