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Physioex 9.1 exercise 4 pre lab quiz

otherwise normal animal will cause any of the following? You answered correctly: d. goiter development of thyroid-releasing hormones (TRH) you answered correctly: a. excretes the hypothalamus. Which of the following statements is true? You answered correctly: b. The hypothalamus primarily secretes tropical hormones that stimulate the secretion of other hormones. 06/02/15 pages 1 Experiment results Predict the question: Anticipate question 1: Make a prediction about the basal metabolic rate (BMR) of the remaining rats compared to the BMR of the normal rat you just measured. Your answer : c. BMR both remaining rats will be lower than normal BMR rats. Anticipate question 2: What do you think will happen after you inject thyroxine into three rats? Your answer: a. A normal rat will become hyperthyroid and develop a glyc. Prediction of Question 3: What do you think will happen after you inject TSH into three rats? Your answer: a. A normal rat will become hyperthyroid and develop a glyc. Prediction of Questions 4: Propiltiouracil (PTU) is a drug that inhibits the production of thyroxine by blocking the attachment of iodine tyrosine to residues in thyroid follicle cells (iodized tyrosines are associated together with the formation of thyroxine). What do you think will happen after you inject PTU into three rats? Your answer : b. Shieldoidectomized rat will become hypothyroidistic and develop glitar. Stop & Think Questions: 1h. Calculate the consumption of oxygen per hour for this rat using the following equation. ml O2 consumed/1 minute x 60 minutes/hour = ml O2/hour Enter oxygen consumption per hour in the field below, and then click Send to display your results in the grid. You answered: 432 ml O2/en 1i. Now that you have calculated the consumption of oxygen per hour for this rat, you can calculate the metabolic speed per kilogram of body weight with the following equation (for example, you need to convert weight data from grams to kilograms to use this equation). Metabolic rate = (ml O2/en)/(weight in kg) = ml O2/kg/en Enter metabolic speed in the field below, and then click Submit to display your results in the grid. . You answered: 1734-939759036145 ml O2/kg/en 2h. Calculate the consumption of oxygen per hour for this rat the following equations. ml O2 consumed/1 minute x 60 minutes/hour = ml O2/hour Enter oxygen consumption per hour in the field below, and then click Send to display your results in the grid. You answered: 378 ml O2/en 2i. Now that you have calculated the consumption of oxygen per hour for this rat, you can calculate the metabolic speed per kilogram of body weight with the following equation (for example, you need to convert weight data from grams to kilograms to use this equation). Metabolic rate = (ml O2/en)/(weight in kg) = ml O2/kg/en Enter metabolic speed in the field below, and then click Submit to display your results in the grid. 06/02/15 pages 2 Answered: 1542.857142857143 ml O2/kg/en 3h. Calculate the consumption of oxygen per hour for this rat using the following equation. ml O2 consumed/1 minute x 60 minutes/hour = ml O2/hour Enter oxygen consumption per hour in the field below, and then click Send to display your results in the grid. You answered: 372 ml O2/en 3i. Now that you have calculated the consumption of oxygen per hour for this rat, you can calculate the metabolic speed per kilogram of body weight with the following equation (for example, you need to convert weight data from grams to kilograms to use this equation). Metabolic rate = (ml O2/en)/(weight in kg) = ml O2/kg/en Enter metabolic speed in the field below, and then click Submit to display your results in the grid. Answered: 1524.590163934426 ml O2/kg/en Judging by their basal metabolic rates (thyroid function indicator), categorize rats as hypothyroid (low thyroid level; BMR below 1600), euthyroid (good or normal, thyroid level; BMR = 1650-1750) or hyperthyroid (high thyroid level; BMR above 1800). A normal rat has answered correctly: b. eutiroid Judging by their basal metabolic rates (thyroid function indicator), categorize rats as hypothyroid (low thyroid level; BMR below 1600), euthyroid (good or normal, thyroid level; BMR = 1650-1750) or hyperthyroid (high thyroid level; BMR above 1800). Shieldoidectomized (Tx) rat you correctly responded: a. hypothyroid Judging by their basal metabolic rates (thyroid function indicator), categorize rats as hypothyroid (low thyroid level; BMR below 1600), euthyroid (good or normal, thyroid level; BMR = 1650-1750) or hyperthyroid (high thyroid level; BMR above 1800). Pituitary (Hypoxomized) Rat Is Exactly You Answered: a. Hypothyroid Judging by their basal metabolic rates (thyroid function indicator), categorize rats as a hypothyroid (low thyroid level; BMR below 1600), euthyroid (good or normal, thyroid level; BMR = 1650-1750) or hyperthyroid (high thyroid level; BMR above 1800) after injection Normal rat is Exactly you answered: c. hyperthyroid Judging by their basal metabolic rates (thyroid indicator categorize rats as hypothyroid (low thyroid level; BMR below 1600), euthyroid (good or normal, thyroid level; BMR = 1650-1750) or hyperthyroid (high thyroid level; BMR above 1800) after injection of thyroxine. 06/02/15 pages 3 The thyroidectomized (Tx) rat is You correctly Answered: c. hyperthyroid Judging by their basal metabolic rates (thyroid function indicator), categorize rats as hypothyroid (low thyroid level; BMR below 1600), euthyroid (good or normal, thyroid level; BMR = 1650-1750) or hyperthyroid (high thyroid level; BMR above 1800) after injection of thyroxine. Hypophysitomized (Hippox) rat did he answer correctly: c. hyperthyroid Which of the rats developed a goiter after injection with thyroxine (choose everything that is applied)? You answered correctly: d. None of the rats developed a loss with this injection. Judging by their basal metabolic rates (indicator of thyroid function), categorize rats as hypothyroid (low thyroid level; BMR below 1600), euthyroid (good or normal, thyroid level; BMR = 1650-1750) or hyperthyroid (high thyroid level; BMR above 1800) after injection of TSH. A normal rat has answered correctly: c. hyperthyroid Judging by their basal metabolic rates (indicator of thyroid function), categorize rats as hypothyroid (low thyroid level; BMR below 1600), euthyroid (good or normal, thyroid level; BMR = 1650-1750) or hyperthyroid (high thyroid level; BMR above 1800) after injection of TSH. Shieldoidectomized (Tx) rat you correctly responded: a. hypothyroid Judging by their basal metabolic rates (thyroid function indicator), categorize rats as hypothyroid (low thyroid level; BMR below 1600), euthyroid (good or normal, thyroid level; BMR = 1650-1750) or hyperthyroid (high thyroid level; BMR above 1800) after ptu injection. The pituitary (Hypox) rat had Li correctly answered: c. hyperthyroid Which of the rats developed a goiter after injection with TSH (choose everything that is administered)? You answered correctly: a. normal rat c. pituitary rat Judging by their basal metabolic rates (thyroid function indicator), categorize rats as hypothyroidid (low thyroid level; BMR below 1600), euthyroid (good or normal, thyroid level; BMR = 1650-1750) or hyperthyroid (high thyroid level; BMR above 1800) after ptu injection. A normal rat is exactly you answered: a. hypothyroid Judging by their basal metabolic rates (indicator of thyroid function), categorize rats as hypothyroid (low thyroid level; BMR below 1600), euthyroid (good or normal, thyroid level; BMR = 1650-1750) or hyperthyroid (high thyroid level; BMR above 1800) after ptu injection. Shieldoidectomized (Tx) rat accurately answered: a. hypothyroid 06/02/15 pages 4 Judging by their basal metabolic rates (indicator (indicator function), categorize rats as hypothyroid (low thyroid level; BMR below 1600), euthyroid (good or normal, thyroid level; BMR = 1650-1750) or hyperthyroid (high thyroid level; BMR above 1800) after ptu injection. The pituitary (Hippox) rat answered correctly: a. hypothyroid Which of the rats developed a goiter after injection with PTU (choose everything that is administered)? You answered correctly: a. Normal Rat Experiment Data: Rat Weight (g) ml O2/min ml O2/en BMR (ml O2/kg/en) Injected palpation Normal 249 7.2 432 1734-939759 036145 No mass no Tx 245 6.3 378 1542,857142 857143 No Mass No Hypox 244 6.2 372 1524.590163 934426 No Mass Anything Normal 249 8.4 504 2024 No Mass Thyroxine Tx 245 7.9 474 1935 No Mass Tiroks Hypoinx 244 7.7 462 1893 No Mass Thyroxine Normally 249 8 480 1928 Mass TSH Tx 245 6.3 378 1543 No Mass TSH Hippox 244 7.8 468 1918 Mass TSH Normal 249 6.6 6.4 384 1542 Mass PTU Tx 245 6.2 372 1518 No Mass PTU Hypox 244 6.3 378 1549 No Mass PTU 06/02/15 Pages 5 Post-laboratory quiz results You achieved 100% answering exactly 7 out of 7 questions. How would you treat a štitoidectomized animal so that it functions like a normal animal? You answered correctly: c. Secure animal T4 supplements. As a result of missing hormones(s) in a pituitary-rat, what would be some expected symptoms? You answered correctly: d. reduced basal metabolic rate Injection of thyroquine to an otherwise normal rat will cause which of the following? You answered correctly: b. hyperthyroidism Why did none of the rats develop a gliach after an injection of thyroquine? You answered correctly: a. In all cases, TSH levels are not elevated by injection of thyroxine. Why did a normal rat develop a tangible glide with a TSH injection? You answered correctly: c. Thyroid TSH receptors were over-stimulated. An injection of propiltiouracil to an otherwise normal animal will cause any of the following? You answered correctly: b. goiter development Why did a normal rat develop a tangible glib with an injection of propiltiouracil? You answered correctly: d. The injection reduced the mechanism of negative feedback to TSH. 06/02/15 pages 6 Review of the results of the Sheet Part 1: Determining basal metabolic rates that rat had the fastest basal metabolism (BMR)? Your answer: normally Why did metabolic rates differ between a normal rat and surgically altered rats? How much did the results compare with your prediction? Your answer: Since organs that play an important role in maintaining BMR have been removed in other rats, such as the thyroid gland or the hypothetical gland, as I predicted If the animal was timoidectomized, what hormones(s) would be missing in the blood? Your answer: Thyroxine If an animal is pituitary, what effect would you expect to see in hormone levels in the body? Your will lose TSH so that nothing can stimulate the thyroid secretion of thyroxine Part 2: Determining the effect of thyroxine on metabolism What was the effect of injections of thyroxine on normal rats BMR? Your response: Becoming hyperthyroid What was the effect of thyroquine injections on the BMR thyroid gland? How is BMR compared to normal rat BMR in this case? Was the dose of thyroquine in the syringe too large, too small or simply correct? Your response: BMR was increased to 1935 but still lower than normal, but higher than normal drug-free cause of BMR was over 1800 thyroxine, the dosage was too high What was the effect of injections of thyroxine on a pituitary rat's BMR? How is BMR compared to normal rat BMR in this case? Was the dose of thyroquine in the syringe too large, too small or simply correct? Your response: Raised BMR to 1895, but not as high as štitoidectomized or normal rats with thyroxine cause is over 1800, the dosage is too large Part 3: Determining the effect of TSH on metabolism What was the effect of thyroid hormone injection (TSH) on normal rat BMR? Your response: Normal rays became hyperthyroid what was the effect of TSH injections on rat BMR thyroid? How is BMR compared to normal rat BMR in this case? Why was this effect noticed? 06/02/15 pages 7 Your response: not raised by BMR almost still remained in hypothyroidism below 1600 What was the effect of TSH injections on the pituitary rat BMR? How is BMR compared to normal rat BMR in this case? Was the dose of TSH in the syringe too large, too small or simply correct? Your answer: it became 1918 below normal, but went on hyperthyroid so the dose was too high

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