Desert Vista High School Girl's / Boy's Cross-Country Post-exercise Macronutrient Replacement

IMMEDIATE POST-EXERCISE PERIOD:

Attempt to ingest 300 – 600 calories <u>immediately</u> post-exercise.

Fluids might/should include:

| 1) | Water | | |
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| 2) | Gatorade | | |
| | | | |
| 3) | Orange Juice | | |
| | | | |
| 4) | Ice Popsicle | | |
| | | | |
| 5) | Smoothie | | |
| | | | |
| Foods might include: | | | |
| | | | |
| 6) | Fruit (Bananas/Apples/Watermelon/Strawberry) | | |
| | | | |
| 7) | Bagel | | |
| | | | |
| In the | In the <u>immediate</u> post-exercise period, fluid consumption in the absence of food | | |
| consu | consumption is appropriate and sufficient as long as the fluid consumption meets the | | |
| aforementioned caloric intake (300 – 600 calories) and is primarily oriented toward | | | |
| carbol | hydrate consumption. | | |
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| POST-EXERCISE MEAL: | | | |
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| Peer-reviewed research suggests that the first post-exercise meal (in the case of DVHS | | | |
| athletes breakfast) should emphasize a combination of carbohydrate and protein in | | | |
| the approximate ratio of three (3) grams of carbohydrate for every one (1) gram of | | | |
| | n. Carbohydrate intake serves to replenish not only liver but also muscle | | |
| | gen content. Protein intake provides a source of amino acids necessary to re- | | |
| synthesize (rebuild) numerous proteins such as the muscle proteins that are | | | |
| continuously utilized (stressed) during long duration exercise/training. | | | |
| continuously dulized (sulessed) during long duration exercise/training. | | | |
| Accordingly, representative breakfasts might include: | | | |
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| 1) | Cereal and non-fat milk |
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| | |
| 2) | Bagels and orange juice |
| | |
| 3) | Nutrient-fortified energy bars containing 8 – 10 grams of protein and low-fat |
| milk | |
| | |
| 4) | Low-fat yogurt, a bagel, and orange juice or low-fat milk |
| | |
| 5) | A fruit smoothie with fruit and frozen yogurt |

Again, the preceding suggestions provide a representative framework for appropriate post-exercise meals. Certainly, various combinations of the aforementioned meals would also serve as appropriate post-exercise meals.

The fundamental goal is to consume an appropriate combination of carbohydrate and protein. Ideally, an athlete might seek to consume as much as 300 - 400 calories of both protein and carbohydrate in the initial post-exercise meal. It should be noted, however, that atypically long workouts ("long runs") obviously place a greater energetic demand upon the human body and, thus, should be followed by as much as 600 grams of carbohydrate consumption in the 24-hour period following such a workout.