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# The Effect Of Exercises Program Of Gradual Relaxation On The Level Of Skill Performance In Badminton Game

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#### **ABSTRACT:**

The motivation behind the present examination was to discover the correlation of gradual relaxation the level of skill execution of athletes in badminton. In this investigation we pick members were isolated into two gatherings: Group 1 (n = 4, age:  $18\pm 2.58$ ) went to a Handball physiotherapy treatment Program and Group 2 (n = 7, age:  $18\pm2.58$ ) was made out of Control Group. Consequently the point of this examination was to survev whether physiotherapy Treatment would rehabilitation be able to assumed control a half year would enhance exhibitions among badminton players. At that point information was understanding to discover the importance contrast amongst pre and post trial of dynamic muscle relaxation on anxiety of athletes.

**Keywords:** Gradual, Relaxation, training, Psychological skills training, physiotherapy, rehabilitation

#### Introduction

Badminton is a recreational game played utilizing rackets to hit a shuttlecock over a net. In spite of the fact that it might be played with bigger groups, the most widely recognized types of the diversion are

"singles" (with one player for every side) and "pairs" (with two players for each side). Badminton is regularly played as an easygoing open air action in a yard or on a shoreline; formal amusements are played on a rectangular indoor court.

Focuses are scored by hitting the shuttlecock with the racket and landing it inside the restricting side's portion of the court. Each side may just strike the shuttlecock once before it disregards the net. Play closes once the shuttlecock has struck the floor or if a blame has been called by the umpire, benefit judge, or (in their nonattendance) the contradicting side.

The shuttlecock is a feathered or (in casual matches) plastic shot which flies uniquely in contrast to the balls utilized as a part of numerous different games. Specifically, the quills make considerably higher drag, making the shuttlecock decelerate all the more quickly. Shuttlecocks likewise have a high best speed contrasted with the balls in other racket sports.

The amusement created in British India from the prior round of battledore and shuttlecock. European play came to be overwhelmed by Denmark yet the diversion has turned out to be extremely prevalent in Asia, with late rivalry ruled by China. Since 1992, badminton has been a Summer Olympic game with five occasions: men's singles, women' singles, men's copies, women' duplicates, and blended copies, in which each match comprises of a man and a women.

At high levels of play, the sport demands excellent fitness: players require aerobic stamina, agility, strength, speed, and precision. It is also a technical sport, requiring good motor coordination and the development of sophisticated racquet movements.

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#### **REHABILITATION:**

Reclamation is a treatment or drugs planned to support the system of recovery from harm, disorder, or contamination to as normal a condition as could be normal in light of the current situation. Reclamation is a treatment or solutions planned to empower the technique of recovery from harm, affliction, or disease to as common a condition as could be normal in light of the current situation.

Reclamation is a treatment or prescriptions planned to support the technique of recovery from harm, affliction, or disease to as customary a condition as could be normal considering the present situation.

A fitting and attractive reclamation task can switch various impairing conditions or can enable patients to adjust to deficiencies that can't be pivoted by remedial thought. Recuperation addresses the tolerant's physical, mental, and common needs. It is expert by reestablishing the tolerant's physical limits as well as altering the understanding's physical and social condition. The rule sorts of recuperation are physical, word related, and dialect directions.

Each rebuilding project is hand crafted to the individual calm's necessities and can join at least one sorts of treatment. The peaceful's specialist when in doubt sorts out the undertakings of the reclamation gathering, which can consolidate physical, word related, talk, or distinctive medicinal experts; overseers; engineers: physiatrists (physical pharmaceutical); clinicians; orthotists (makes devices, for instance, props to rectify twisted or insufficiently formed bones); prosthetists (a consultant who makes counterfeit extremities protheses); and proficient counselors. Relatives consistently are

successfully incorporated into the tranquil's reclamation program.

#### PHYSICAL THERAPHY:

Non-Intrusive treatment enables the patient to reestablish the use of muscles, bones, and the tactile framework through the use of warmth, cold, back rub, whirlpool showers, ultrasound, work out, and diverse strategies. It tries to mollify torment, upgrade quality and movability, and prepare the patient to perform basic normal errands.

Dynamic or active recovery might be prescribed to reestablish a patient after expulsions, joint torment, seethes, ailment, cardiovascular contamination, cervical and lumbar brokenness, neurological issues, orthopedic injuries, pneumonic affliction, spinal line wounds, stroke, horrible personality wounds, and distinctive injuries/infections.

The traverse of the activity construct recovery program varies depending upon the harm/ailment being managed and the understanding's response to treatment.

Action is the most by and large used and best known sort of dynamic or active recovery. Dependent upon the constant's condition, exercises might be performed by the patient alone or with the counselor's help, or with the authority moving the understanding's members. Exercise equipment for non-meddling treatment could consolidate an action table or tangle, a stationary bicycle, walking guides, a wheelchair, sharpen stairs, parallel bars, and pulleys and weights. Warmth treatment, associated with warmed water packs, infrared lights, short-wave radiation, high repeat electrical ultrasound, paraffin wax, or steaming showers, is

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used to strengthen the tolerant's course, loosen up muscles, and decrease torment.

Movement scruitinised activity or under supervisions is the most by and large used and best known sort of dynamic recovery. Dependent upon the diligent's condition, exercises might be performed by the patient alone or with the counsel's help, or with the master moving the understanding's extremities. Exercise equipment for non-nosy treatment could consolidate an action table or tangle, a stationary bicycle, walking guides, a wheelchair, sharpen stairs, parallel bars, and pulleys and weights. Warmth treatment, associated with warmed water packs, infrared lights, short-wave radiation, high repeat electrical stream, ultrasound, paraffin wax, or steaming showers, is used to fortify the tolerant's course, loosen up muscles, and lessen torment.

#### **RESEARCH DESIGN:**

The developments of the players were from a fronton and up-side viewpoint. Two classifications of variables were recorded:

(I) The temporal variables were characterized as proposed in the writing and incorporate the rally (time slipped by from the serve until the point when the shuttlecock hits the ground or one of the players commits an error), number of shots per rally (add up to number of times the van is hit by the two players amid the rally time), stroke time (rally time isolated by the quantity of shots per rally), the shots' recurrence, the resting time (the time passed from when the shuttlecock hits the ground until the following serve), the compelling playing time; (ii) the notational variables incorporate the distinctive shots and the way the fact of the matter is finished, and are characterized in the accompanying way:

- 1) The Crush Is A Forceful Overhead Shot With Descending Direction,
- 2) The Reasonable Is An Overhead Shot With A Level (Hostile Clear) Or Rising Direction (Protective Clear) Towards The Back Of The Adversary's Court,
- 3) The Drop Is A Smooth Shot From Over The Head With Descending Direction Towards The Front Of The Court,
- 4) The Net Shot Is An Exact Shot From Close To The Net Which Incorporates The Net Drop, The Heave (Hostile With A Level Direction Towards The Back Of The Rival's Court And Guarded With A Rising Direction) And The Murder (Forceful Shot With Descending Direction),
- (5) The Drive Is An Intense Shot Made At Center Body Tallness And Amidst The Court With A Level Direction,
- (6) An Immediate Point Is A Point Which Closes When The Shuttlecock Specifically Hits The Ground.
- (7) A Constrained Blunder Is The Point At Which The Player Is Under Inordinate Weight From His Rival And Makes A Mistake In The Wake Of Doing His Shot (Which Goes In The Net Or Outside The Court) And
- (8) An Unforced Blunder Is The Point At Which The Player Makes A Blunder In A Normal Circumstance Without Unreasonable Weight From The Rival. With A Specific End Goal To Encourage The Information Obtaining Procedure And Exactness, A Product Utilizing Full Scale On Excel Has Been Manufacture, Permitting Information Accumulation.

The execution has been broke down twice: in a first examination, the spectator utilized the product to time the temporal structure of the

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diversion and in the second investigation, the eyewitness took notes on the class of the shot.

### Psychological skills training

PST incorporates an arrangement of methods, to be specific self-talk, imagery, objective setting, and excitement direction. Self-talk is the "syntactically recognizable explanation of an inside position that can be communicated either inside or so anyone can hear, where the sender of the message is likewise the proposed recipient". Self-talk can be instructional (e.g., "take a gander at the ball") or motivational (e.g., "I will raced to the complete with all the vitality I have"). Deliberately controlling self-talk may increment FAB in light of the fact that it could help competitors to help themselves to remember key skills and systems and to coordinate their consideration and conduct in like manner.

Imagery depicts the procedure by which existing data from memory (e.g., of a development) or recently produced pictures are clearly and intentionally experienced or re-experienced. This procedure includes every one of one's faculties and may happen without a genuine boost (e.g., a skier envisions dashing a declining course]). Imagery may help competitors to act practically in light of the fact that it could facilitate the memory of comparing mental states and developments.

Researchers separate three sorts of objectives that can be determined and observed in objective defining: result objectives are characterized as the last outcome or result of an opposition or an amusement (e.g., a rank or winning and losing); execution objectives are assessed on the premise of an examination between a competitor's own past accomplishments as opposed to a rival's execution (e.g., enhancing one's passing exactness from 70 to 80 % or expanding one's

initially serve rate contrasted with the last competition); and process objectives concentrate on how a competitor plays out a specific skill by elucidating what activities must be as a top priority so as to execute that skill at an ideal level (e.g., an athlete focussing on having the right stance and measure of strain in the body). The last two may increment FAB by helping competitors to recognize what they have to do and to coordinate their consideration and conduct in like manner. Moreover, making competitors mindful of their own principles contrasted with their progressing execution may spur competitors to expand their exertion and steadiness.

Excitement control incorporates all procedures that impact physiological excitement by either diminishing (e.g., breathing or substantial relaxation strategies) or expanding it (e.g., breathing methods or acting in physically ways). The ideal degree of stimulating physiological excitement relies upon the sort of game (e.g., it is bring down in gun shooting than in weight lifting), undertaking trouble, singular inclination, and current mental states (e.g., intellectual state anxiety). Competitors who can adjust their excitement to saw deviations from a perfect degree may be less diverted and in this way have a more noteworthy shot of carrying on practically.

#### **Sample and Procedure:**

The players of badminton are selected as subjects from the school. All subjects are given an educated agree letter to sign to be a subject for the present examination with their own particular will. The analyst gather the information from player to fill the games rivalry anxiety test (SCAT) poll and in the wake of leading the test the specialist will just choose thirty high and low level anxiety players. After that the specialist will separate the subject in two unique gatherings.



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These two unique gatherings will open to chose mental relaxation methods.

### Result and analysis:

We discovered critical contrasts for all essential result measures at a month and a half that favored infusion over keep a watch out; 51/65 (78%) members detailed accomplishment with infusions contrasted and 16/60 (27%) with sit back and watch (relative hazard lessening 0.7, 99% certainty interim 0.4 to 0.9), speaking to a number expected to treat of 2. Infusion was

additionally better than physiotherapy on all result measures aside from worldwide change (0.4, -0.2 to 0.9); 41/63 (65%) members announced accomplishment at a month and a half with physiotherapy. At 52 weeks' development, the infusion assemble members were altogether more awful on all results contrasted and the activity program gathering (0.3, 0.1 to 0.5; number expected to treat = 4) and on two out of three measures contrasted and sit back and watch (0.3, 0.04 to 0.4; 4).

**Table 1:** Mean (SD) scores and area under the curve(AUC) for ceaseless result measures and mean distinction (99% certainty interims) between bunches at 3, 6, 12, 26, and 52 weeks

|                          | Mean (SD) for each Mean (99% CI) differences |          |   |                         |                  | in improvement     |  |  |  |
|--------------------------|--|----------|---|-------------------------|------------------|--------------------|--|--|--|
|                          | intervention                                 |          |   | between groups <u>*</u> |                  |                    |  |  |  |
|                          | Experin                                      | nental   | <b>Control</b> Experimental Group (n=5) |                         |                  | Control            |  |  |  |
|                          | Group (                                      | (n=5)    | Group                                   | _                       | Group(n=5)       |                    |  |  |  |
|                          |  |          | (n=5)                                   |                         |                  |                    |  |  |  |
| Primary outcome measures |  |          |   |                         |                  |                    |  |  |  |
| Pain-free grip           | ratio (                                      | affected |   |                         |                  |                    |  |  |  |
| side/unaffected          |  |          |   |                         |                  |                    |  |  |  |
| 3 weeks                  | 56.2   | 83.2     | 55.5                                    | 52.0                    | 10.8             | 31.2               |  |  |  |
|                          | (22.1)                                       | (21.3)   | (25.5)                                  | (32.6 to 51.3)          | (1.6 to 20.0)    | (22.2 to 50.2)     |  |  |  |
| 6 weeks                  | 51.8   | 83.6     | 70.2                                    | 36.5                    | 20.1             | 16.3               |  |  |  |
|                          | (23.0)                                       | (22.9)   | (25.5)                                  | (26.5 to 56.3)          | (10.3to 30.0)    | (6.6 to 26.0)      |  |  |  |
| 12 weeks                 | 72.1   | 63.7     | 80.8                                    | -5.5 9.5                |                  | -15.8              |  |  |  |
|                          | (23.0)                                       | (28.1)   | (22.6)                                  | (-16.7 to 6.0)          | (-2.1  to  20.9) | (-26.1  to  -3.5)  |  |  |  |
| 26 weeks                 | 86.5   | 65.1     | 96.3                                    | -19.6 10.5              |                  | -30.1              |  |  |  |
|                          | (20.2)                                       | (30.8)   | (29.9)                                  | (-33.0 to -6.2)         | (-3.0  to  25.0) | (-53.1 to -17.2)   |  |  |  |
| 52 weeks                 | 96.5   | 85.6     | 100.9                                   | -12.1                   | 5.3              | -16.5              |  |  |  |
|                          | (18.5)                                       | (21.9)   | (30.9)                                  | (-23.6  to  0.3)        | (-7.5 to 16.2)   | (-27.9  to  -5.8)  |  |  |  |
| AUC                      | 1753   | 1755     | 2278                                    | 0.9                     | 535              | 533                |  |  |  |
|                          | (960)  | (883)    | (1269)                                  | (-518 to 520)           | (3 to 1065)      | (30 to 1037)       |  |  |  |
| Assessor severit         |  |          |   |                         |                  |                    |  |  |  |
| 3 weeks                  | 52.9   | 18.9     | 52.2                                    | 35.9 (28.3 to           | 9.8 (2.3 to      | 26.1               |  |  |  |
|                          | (17.9)                                       | (17.8)   | (19.2)                                  | 53.5)                   | 17.3)            | (18.7 to 33.5)     |  |  |  |
| 6 weeks                  | 55.1   | 16.0     | 28.1                                    | 29.9                    | 15.0             | 15.0               |  |  |  |
|                          | (16.7)                                       | (17.3)   | (19.9)                                  | (22.2 to 37.7)          | (7.3 to 22.8)    | (7.2 to 22.6)      |  |  |  |
|                          | ` ′  | · ´      | · ´                                     |                         |                  |                    |  |  |  |
| 12 weeks                 | 27.5   | 32.9     | 17.8                                    | -5.5                    | 9.2              | -13.6              |  |  |  |
|                          | (16.5)                                       | (25.9)   | (16.8)                                  | (-13.8 to 5.9)          | (-0.5 to 18.7)   | (-23.0 to -5.2)    |  |  |  |
| 26 weeks                 | 17.0   | 35.2     | 8.3                                     | -17.5                   | 8.2              | -25.7              |  |  |  |
|                          | (15.3)                                       | (25.6)   | (11.7)                                  | (-26.2 to - 8.9)        | (-0.7 to 17.1)   | (-35.5  to  -17.1) |  |  |  |

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| 52 weeks                   | 10.3                  | 19.0   | 5.1    | -8.3              | 5.1              | -13.3             |  |  |  |  |
|----------------------------|-----------------------|--------|--------|-------------------|------------------|-------------------|--|--|--|--|
|                            | (13.2)                | (19.7) | (9.6)  | (-15.2  to  -1.3) | (-1.9 to 15.2)   | (-20.5 to -6.3)   |  |  |  |  |
| AUC                        | 1179                  | 1516   | 732    | -337              | 557              | -785              |  |  |  |  |
|                            | (500)                 | (751)  | (555)  | (-652  to  -32)   | (137 to 758)     | (-1082 to -587)   |  |  |  |  |
| Global                     |                       |        |        |                   |                  |                   |  |  |  |  |
| improvement                | 36.5                  | 28.2   | 51.6   | -8.3              | 5.2              | -13.5             |  |  |  |  |
| (success):                 | (12.5)                | (15.7) | (12.8) | (-15.0  to  -1.5) | (-1.7 to 12.1)   | (-20.1  to  -6.8) |  |  |  |  |
| AUC                        |                       |        |        |                   |                  |                   |  |  |  |  |
| Secondary outcome measures |                       |        |        |                   |                  |                   |  |  |  |  |
|                            | Pain severity (/100): |        |        |                   |                  |                   |  |  |  |  |
| 3 weeks                    | 61.3                  | 18.9   | 56.8   | 50.3              | 13.5             | 26.8              |  |  |  |  |
|                            | (25.3)                | (23.2) | (26.7) | (28.8 to 51.7)    | (2.1 to 25.8)    | (15.7 to 37.8)    |  |  |  |  |
| 6 weeks                    | 51.0                  | 16.5   | 33.8   | 31.3              | 15.6 (5.7 to     | 15.8              |  |  |  |  |
|                            | (26.5)                | (21.7) | (28.2) | (20.5 to 52.2)    | 26.5)            | (5.1 to 26.5)     |  |  |  |  |
| 12 weeks                   | 30.5                  | 33.9   | 18.5   | -5.2              | 11.2             | -16.5             |  |  |  |  |
|                            | (29.5)                | (30.6) | (21.3) | (-17.8  to  7.5)  | (-1.8  to  25.1) | (-29.0  to  -3.7) |  |  |  |  |
| 26 weeks                   | 19.8                  | 30.0   | 15.0   | -11.5             | 5.1              | -16.5             |  |  |  |  |
|                            | (25.0)                | (26.8) | (22.1) | (-23.0 to 0.1)    | (-6.6 to 16.8)   | (-27.9  to  -5.1) |  |  |  |  |
| 52 weeks                   | 13.9                  | 20.8   | 6.6    | -7.7              | 6.9              | -15.5             |  |  |  |  |
|                            | (22.6)                | (27.7) | (15.6) | (-18.0  to  2.7)  | (-3.6 to 17.3)   | (-25.8  to  -5.2) |  |  |  |  |
| Pain free function         |                       |        |        |                   |                  |                   |  |  |  |  |
| questionnaire (/100):      |                       |        |        |                   |                  |                   |  |  |  |  |
| 3 weeks                    | 71.3                  | 31.2   | 63.9   | 51.9              | 6.7              | 35.2              |  |  |  |  |
|                            | (25.2)                | (29.6) | (21.0) | (30.5 to 53.5)    | (-5.8 to 18.2)   | (25.0 to 56.5)    |  |  |  |  |
| 6 weeks                    | 63.8                  | 31.9   | 56.8   | 33.3              | 15.6             | 17.7              |  |  |  |  |
|                            | (25.5)                | (30.6) | (29.7) | (20.5 to 56.0)    | (2.8 to 28.5)    | (5.0 to 30.3)     |  |  |  |  |
| 12 weeks                   | 53.6                  | 52.7   | 35.9   | 2.5               | 17.2             | -15.7             |  |  |  |  |
|                            | (31.2)                | (35.5) | (27.5) | (-11.9 to 16.8)   | (2.5 to 31.9)    | (-29.2  to  -0.2) |  |  |  |  |
| 26 weeks                   | 32.8                  | 53.3   | 26.5   | -19.5             | 5.3              | -25.8             |  |  |  |  |
|                            | (30.2)                | (29.1) | (28.1) | (-33.1 to -5.8)   | (-8.6 to 19.3)   | (-38.5 to -11.2)  |  |  |  |  |
| 52 weeks                   | 25.6                  | 37.1   | 12.9   | -11.5 (-25.5 to   | 11.0             | -22.5 (-35.5 to - |  |  |  |  |
|                            | (29.6)                | (31.7) | (29.9) | 1.5)              | (-2.1 to 25.0)   | 9.5)              |  |  |  |  |

<sup>\*</sup> Positive score favours reference group (that is, first group listed in comparison).

MeanTable 2: Absolute Eventrates of accomplishments, as measured by those members who appraised themselves as either much enhanced or totally recuperated on the six point Likert size of worldwide change; relative risk reductions (RRR) and numbers needed to treat (NNT) for between gather examinations

| Mean (99%CI) differences in success between groups |                                    |                           | Exercise program (n=10)          |         |                      | Intensive exercises (n=10) |                      | Machine (n=10) |  |
|--|------------------------------------|---------------------------|----------------------------------|---------|----------------------|----------------------------|----------------------|----------------|--|
| Time<br>(weeks)                                    | Experi<br>mental<br>Group<br>(n=5) | Control<br>Group<br>(n=5) | RRR<br>(99% CI)                  | NN<br>T | RRR<br>(99%CI)       | NNT                        | RRR<br>(99%CI)       | NNT            |  |
| 3  | 57/63<br>(75)                      | 15/65 (23)                | 0.7<br>(0.5 to 0.9) <sup>±</sup> | 2       | 0.1<br>(-0.1 to 0.3) | 13                         | 0.7<br>(0.5 to 0.9)* | 2              |  |



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| 6  | 51/65<br>(78) | 51/63 (65) | 0.7<br>(0.5 to 0.9)*                        | 2 | 0.5<br>(0.2 to 0.8) <sup>‡</sup> | 3  | 0.5 (-0.2 to 0.9)                         | 7 |
|----|---------------|------------|---|---|----------------------------------|----|---|---|
| 12 | 29/65<br>(55) | 55/58 (76) | 0.3<br>(-0.1 to 0.6)                        | 7 | 0.2<br>(-0.05 to 0.5)            | 5  | $0.5 (0.1 \text{ to } 0.7)^{\frac{1}{4}}$ | 3 |
| 26 | 29/65<br>(55) | 51/59 (86) | $0.5$ $(0.2 \text{ to } 0.7)^{\frac{1}{2}}$ | 3 | 0.05<br>(-0.2 to 0.3)            | 27 | $0.5 (0.2 \text{ to } 0.7)^{\frac{1}{4}}$ | 2 |
| 52 | 55/65<br>(68) | 59/63 (95) | $0.3$ $(0.05 \text{ to } 0.5)^{\ddagger}$   | 5 | 0.05<br>(-0.1 to 0.2)            | 30 | 0.3 (0.1 to 0.5) <sup>‡</sup>             | 4 |

#### **BENEFITS**

Range under the curve examination revealed an enormous favored viewpoint in favor of physiotherapy over mixture for all fundamental outcome measures, over look

out for torment free handle (mean complexity = 534, 99% conviction interval 3 to 1065) and assessor reality (447, 137 to 758), and what's more for kick back and watch over imbuement for overall change (-8.3, -15.0 to -1.5) and assessor earnestness (-337, -642 to -32).

#### **CONCLUSION**

To the best of our insight, this examination was the primary longitudinal investigation on world class Badminton diversion. It plainly demonstrated a difference in the temporal structure of the Badminton diversion with noteworthy vacillations in the rally time, resting time, number of shots per rally and a critical increment in the shot recurrence (+34.0%), and a diminishing in the powerful playing time (-34.5%). Additionally, this work demonstrated that the notational examination may could be exceptionally valuable for instructing and preparing.

The main investigation finding demonstrates a high shot recurrence, around 1.26 shots for every second, which is one of the qualities of the

cutting edge Badminton, as per other late examinations. That implies that this parameter must be incorporated into the preparation configuration to be as close as conceivable to the truth of an amusement and to be exceedingly

aggressive for tip top level. This should be possible by utilizing level directions as opposed to high directions, particularly in the round of backcourt. The second principle finding of this examination is the difference in the temporal structure of the diversion, with an expansion of the rest time and a diminishing of the compelling playing time because of the increment of the power of the amusement. The preparation plan for a metabolic reason needs to consider this new information, by utilizing a proportion of working time on rest time around 1:3 with a high force of the revives.

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