

RETURN TO TRAINING POST-COVID-19 INFECTION

The purpose of this document is to provide clubs, coaches, parents and athletes with some general advice on athletes returning to the pool after they've had COVID 19, or more specifically Omicron.

As we all know, the Omicron strand of COVID 19 is usually a mild respiratory illness that people recover from relatively quickly. But it also has the capability to cause severe illness in two key areas:

- The risk of "Long COVID" that may impact a swimmers' quality of life and ability to participate in synchro. Medical advice is this risk can be minimised by a cautious and gradual resumption of activities.
- The very small risk of undetected damage to heart tissue or other organs.

Exercise is important for recovery from COVID, but it must be done gradually and safely. This document is designed to help you to work out with your athlete what that return should look like.

The first step is to identify what the athlete's experience of COVID was e.g. was it asymptomatic, mild, moderate or severe. This has an impact on the return to full training approach. The definition of these is as follows:

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Illness severity	Definition
Asymptomatic	Positive COVID-19 test with no symptoms
Minor	Low-grade fever, cough, mild fatigue only, nasal congestion, sore throat and possibly other symptoms (eg, nausea, vomiting, diarrhoea, loss of taste & / or smell)
Moderate	Persistent fever (38°C or higher), persistent fatigue (at least 7 days duration), Pneumonia, chest pain not associated with cough, activity-limiting shortness of breath, swelling, palpitations, fainting/dizziness
Severe	Requiring hospitalization for medical treatment

Although in NZ, you are no longer required to be isolated once symptom-free and at least 7 days from the start of a COVID infection, it takes a little longer to be ready to do cardio exercise. Experience overseas suggests it may take some swimmers up to 3 weeks to recover. Before coming back to cardio training swimmers should be:

- 1) Resting for 10 days from onset of Covid-19 symptoms/ positive test
- 2) At least 7 days symptoms free (without paracetamol or other treatment)
- 3) Able to complete normal daily activities and walk 500m on the flat without fatigue

While swimmers are waiting to recover enough for cardio training, they may be able to participate in land drills, stretching, simple S & C that does not lift the heart rate, and the social aspects of club training – this needs to be led by coaches, parents and swimmers together.

Outlined below are two tables taken from countries with proven experience in athletes recovering from COVID.

- Table 1: Details the pathway depending on the severity of the illness. It is recommended that athletes who have had moderate to severe reactions should consult their GP before embarking on cardio training. Doctors may advise an ECG, blood test or echo if there have been any heart symptoms such as chest pain, palpitations or fainting. This is because of a small risk the virus has been present in the heart muscle fibres (Myocarditis).
- <u>Table 2: Recommends how to manage the Graduated Return to Training.</u> This has been written for Performance Athletes so will apply to those who fit in this space, but the same principles can be adjusted for other athletes.

Open communication between parents, swimmers and coaches is critical over the return to training programme.

Assessing for return to physical activity Low risk Intermediate risk High risk Symptoms for >7 days Hospitalisation and/or ICU Mild or no symptoms Dyspnoea/chest pain with illness Abnormal ECG or troponin Upper respiratory only Elite and/or endurance athletes Prolonged dyspnoea or chest pain Younger patient History of asthma or chronic with rest/minimal exertion Recreational exercise goals fatigue History of cardiac disease 10 Diagnosis of COVID-19 ECG, blood tests, deliberate rest seven days medications such as ECG, blood tests, troponin, BNP, CXR (PCR positive) from onset of symptom free paracetamol troponin Abnormal Cardiology referral: symptoms +/- CXR echocardiography, stress test Adapated from Elliott N, Martin R, Heron N, Elliott J, Grimstead D, Biswas A, Respiratory referral: CT, D-dimer Infographic. Graduated return to play guidance following COVID-19 infectio Br J Sports Med 2020;54(19):1174–75, doi: 10.1136/bjsports-2020-102637. Sport and exercise physician referral: individualised, targeted exercise program Graded return to physical activity Further assessment to ensure a safe return to physical activity Return to work or school Return to normal routines and wake up times. Reintroduce physical and cognitive loads. Light activity Start with 15 minutes and monitor symptoms. Increase heart rate and breathing rate. Red flag symptoms Start to clear any brain fog. Try: Chest pain or palpitations walking Breathlessness, out of stationary bike proportion with expected light jogging. recovery Features of thrombosis, eg swollen calf or Increase training progressively sinus tachycardia, Increase the duration of a familiar, light activity breathlessness Introduce bodyweight resistance exercises but keep number of reps low. Remind muscles they can work. Pay careful attention to recovery in this post viral period. Return to pre-COVID exercise Timeframe for progression Steady, continual increase in training Enjoy pre-COVID exercise habits and start to set Each stage must be Introduce sport-specific training, higher intensity completed comfortably new goals. drills, eg running drills, ball skills. Follow local physical distancing guidelines and before progression. Increase resistance, eg adding weights or return COVID-19 protocols. Timeframes will vary to gym sessions. If there are any red flag symptoms or concerns depending on pre-COVID Pay attention to coordination and skills/tactics. fitness levels. about exercise tolerance, a medical review is Restore confidence in pre-COVID skills and required as soon as possible. exercise tolerance. A sport and exercise physician may be able to

Link to more in-depth information:

Check in on recovery.

https://www.uptodate.com/contents/covid-19-return-to-play-or-strenuous-activity-following-infection

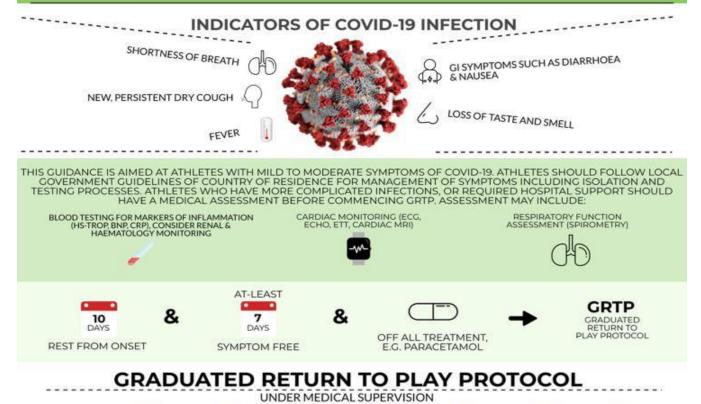
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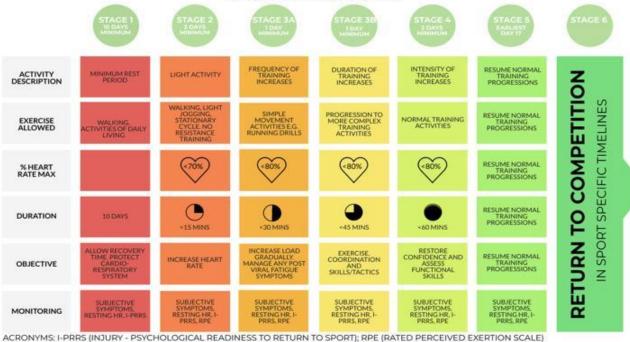
 $\underline{exercise}/\#: \underline{\sim} : text = Returning \% 20 to \% 20 physical \% 20 activity \% 20 and \% 20 exercise \% 20 after \% 20 COVID \% 2D 19 \& text = Spending \% 20 time \% 20 in \% 20 hospital \% 20 or, your \% 20 other \% 20 COVID \% 2D 19 \% 20 symptoms.$

guide specific cases.

TABLE 2: GRADUATED RETURN TO PLAY FOR PERFORMANCE ATHLETES

COVID-19 GRADUATED RETURN TO PLAY FOR PERFORMANCE **ATHLETES:** GUIDANCE FOR MEDICAL PROFESSIONALS





NOTE: THIS GUIDANCE IS SPECIFIC TO SPORTS WITH AN AEROBIC COMPONENT











More information on returning to training can be found here: https://pubmed.ncbi.nlm.nih.gov/32571796/

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