

**Course Outline: KIN 453****Course Title: Understanding and Changing Physical Activity Behaviour**

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**Drop-in Hours:** To be confirmed

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**Email Communication:** For personal messages: use email and indicate “KIN 453” in the subject field. Response time to email or telephone inquiries is within 72 hours (weekends excluded).

**Course Timetable**

Class Schedule: Tuesdays and Thursdays: 2 pm to 3.30 pm. Location: MacMillan 160.

**Description:** The links between physical inactivity and public health are well documented. This module is designed to give students an opportunity for advanced analysis of the field of exercise psychology. The module aims to develop a critical understanding of how physical activity is assessed, and what are the determinants of physical activity. Using various theoretical frameworks the influence of psychological factors will be examined, across different settings and populations, with a particular focus on interventions aimed at enhancing mental health. The module also aims to develop understanding of how psychology can be used to design effective interventions at the individual and community level. This course will provide a foundation in exercise psychology for graduate study.

**Subject-specific outcomes:**

1. Develop an understanding of ecological frameworks used to assess, design and evaluate health promotion interventions.
2. Development of practical skills in formulating, applying, and evaluating psychological theory-based interventions to promote physical activity.

**Core-academic outcomes:**

3. Ability to critically evaluate the processes of designing and evaluating physical activity interventions in the context of public health policy.
4. Ability to evaluate and apply knowledge of a range of different theoretical perspectives and concepts relating to interventions to promote physical activity.

**Personal/transferable outcomes:**

5. Work in small groups to solve problems

6. Demonstrate an ability to link theory to practice.

**Teaching/Learning Methods:**

Lectures/Group Work/Independent Study. The lectures will provide students with an overview of the core topics in this course. Lectures are used to present an overview of key information and will include interactive group activities where students can practice applying theory to practical situations. Independent study will be required in terms of reading in preparation for each lecture and completing course assignments. For these experiences students will be set a task to guide their independent learning, such as a topic or problem related to set reading or lecture material. A group project will also provide the opportunity for more in-depth investigation of key issues drawn from the lectures. Skills such as criticizing, analysis, problem solving and decision making are developed.

You will be working throughout the course in a group of 5 students. You can form your own groups or I will assign you to a group on September 16<sup>th</sup>. You will meet independently every two weeks to review articles as part of the reading scheme, and will also be working together on the group project. As a group you will be responsible for coordinating meetings and completing group tasks. It is expected that you will be available to meet with your group at the very least between 2 and 3.30 on thursdays. That is, **there is no excuse for not being able to find a time that everyone in your group can meet.**

**Assessment Timetable:**

<b>Assessment Type</b>	<b>Weight</b>	<b>Due Date</b>
1. 5 * Reading synopses	20%	Every two weeks
2. Group Task: Develop an exercise intervention for students seeking help for depression	60%	Draft outline (10% - November 4 <sup>th</sup> ) Final assignment (50% - December 9 <sup>th</sup> )
3. Examination a) Abstract	20%	Exam period

**Assessments****1. Reading synopsis (20%)**

This will include five one-page (300 word) synopses of current research articles plus critical commentary. Marks are given for successful completion within the established guidelines (2% for each synopsis and 1% for completion of group summary to be posted on canvas – and attendance for 1%). This assessment task will enable students to evaluate differing views based on required reading and information from a variety of sources, and to disseminate and critically appraise research evidence.

## 2. Group Project (60%)

A problem-based learning exercise will provide an opportunity to collaborate on a project. The objective of this assignment is to integrate components of the course in terms of physical activity assessment, applying theory to practice, and planning and evaluation of interventions. The class has been asked to develop an exercise intervention for community members seeking help for depression. The general outline for the final assignment should be:

- Synthesis of evidence for exercise as a treatment for depression
- Rationale for the intervention (including theoretical basis and logic model); and a cool acronym.
- A description of the intervention including discussion of
  - Content – what is the intervention aiming to deliver, and how?
  - Delivery method
  - Deliverer – who will deliver the intervention?
- Methods for evaluating the key outcomes, behaviours, and mediators of behavior change
- Outline of assessment of intervention implementation.

Draft outline addressing these in bullet point required November 4<sup>th</sup> (10%). A final group paper will be produced (maximum of 3000 words excluding references/appendices). Each group(s) will provide a brief oral presentation of the intervention via zoom to the instructor and teaching assistant.

Opportunities will be provided weekly on Thursdays to discuss the project while course content and readings will be geared to support its development. The group will be responsible for identifying roles and responsibilities of each group member.

The final assessment includes two components. First, 80% of the final grade is based on the final report. Everyone shares the same grade based on the report assessment. The final 20% will consist of 10% based on self-assessment of personal contribution to the group project, and 10% based on average peer assessment. The self and peer assessment form are in Appendix 1.

## 3. Final exam – article synopsis and essay (30%)

The final examination will be scheduled during the exam period and is worth 20% of the final grade. The exam will require you to write a 300 word abstract of a short article and identify four concerns with the presented article. A portion of the course structure consists of a student directed learning component requiring students to organise their own learning enabling them to address this section. Specifically, the synopsis tasks prepare you for this section of the examination.

The final exam will be held during the official examination period and will be 1 hour long. Alternative exam dates will only be provided for students experiencing medical or serious family emergencies (and only where medical documentation is provided). Do not book flights or make travel arrangements for the holiday period until you know your exam schedule! All students must attend the final exam on the date allotted. This date is not negotiable and failure to show up at this time will result in a zero.

### **Academic Dishonesty and Plagiarism**

Plagiarism, cheating or any other form of academic dishonesty will not be tolerated. This especially means that individual assignments must be completed individually. Violations will be taken seriously and will be dealt with according to the University policy regarding academic dishonesty (See Academic Calendar, <http://www.students.ubc.ca/calendar/>). Any transgression could result in failure of the course. It is your responsibility to become familiar with the University of British Columbia's Academic Honesty and Plagiarism Policies, as well as the Student Declaration and the consequences of violating these policies.

For group projects, all contributors have joint ownership of the work, and therefore intellectual property rights. Along with joint ownership comes joint responsibility. If group work contains material which has been plagiarised all members of the group will be deemed responsible and will be liable for the same penalty.

### **Required and Recommended Reading**

There is no course textbook. All readings are available via the UBC library online. There is a range of core readings supporting each session - Students are expected to study the readings **each week**. Further independent reading will be required as directed by the reading group scheme and the intervention assignment. Support will be available throughout the course in terms of group work, and appointments can also be booked on an individual basis.

### **Recommended Text if interested in grad school as well as this course**

Biddle, S.J.H., Mutrie, N., Gorely, T., & Faulkner, G. (2021). *Psychology of Physical Activity: Determinants, Well-Being and Interventions* (4<sup>th</sup> Edition). London: Routledge. A copy of this textbook is on 'reserve' in the Education Library for short reservations.

## Course Outline

Week 1	
<p>Tuesday, September 6</p> <ul style="list-style-type: none"> <li>• Course Outline and Introduction</li> <li>• Intro to reading group scheme</li> <li>• Intro to group project</li> <li>• Epidemiology of Physical Activity &amp; Sedentary Behaviours</li> </ul>	<p>September 8</p> <ul style="list-style-type: none"> <li>• An ecological approach</li> </ul> <p><i>Core reading: Sallis et al (2006)</i></p>
Week 2	
<p>September 13</p> <ul style="list-style-type: none"> <li>• PA assessment 1</li> </ul> <p><i>Core reading: Bauman et al (2006)</i></p>	<p>September 15</p> <ul style="list-style-type: none"> <li>• PA assessment 2</li> </ul> <p><i>Core reading: Bauman et al. (2006)</i></p>
Week 3	
<p>September 20</p> <ul style="list-style-type: none"> <li>• Exercise as a treatment for depression: Making the case</li> </ul> <p><i>Core reading: Ravindran et al. (2016)</i></p>	<p>September 22</p> <p><b>Reading Group 1: PA and depression (Note: virtual option)</b></p>
Week 4	
<p>September 27 (<b>via canvas</b>)</p> <ul style="list-style-type: none"> <li>• Intervention Development 101</li> <li>• Mediating Variables and Physical Activity Theory/Interventions</li> </ul> <p><i>Core reading: Biddle et al., 2021</i></p>	<p>September 29</p> <ul style="list-style-type: none"> <li>• Q &amp; A on intervention development material</li> <li>• Group project planning</li> <li>• Mind in Motion 2.0</li> </ul>
Week 5	
<p>October 4</p> <ul style="list-style-type: none"> <li>• Theory Recap 1</li> </ul> <p><i>Core reading: Rhodes et al. (2019)</i></p>	<p>October 6</p> <p><b>Reading Group 2: Barriers to PA</b></p>
Week 6	
<p>October 11</p> <ul style="list-style-type: none"> <li>• Theory Recap 2</li> </ul> <p><i>Core reading: Glowacki et al. (2017)</i></p>	<p>October 13</p> <ul style="list-style-type: none"> <li>• Theory application</li> <li>• Group project planning</li> </ul>
Week 7	
<p>October 18</p> <ul style="list-style-type: none"> <li>• Program evaluation</li> </ul> <p><i>Core reading: Bauer et al. (2015); Saunders et al. (2013)</i></p>	<p>October 20</p> <p><b>Reading Group 3: Exercise and depression interventions 1</b></p>
Week 8	
<p>October 25</p>	<p>October 27</p> <ul style="list-style-type: none"> <li>• Fresh start case study</li> </ul>

<ul style="list-style-type: none"> <li>Behavior change wheel (BCW) and taxonomy</li> </ul> <p><i>Core reading: Olander et al (2013)</i></p>	<ul style="list-style-type: none"> <li>Group project discussions</li> </ul>
Week 9	
Nov 1 An introduction to motivational interviewing  <i>Core reading: Tuccero et al. (2016); Fornier et al., (2020)</i>	Nov 3 <b>Reading Group 4: Exercise and depression interventions 2</b>
Week 10	
Nov 8 <ul style="list-style-type: none"> <li>Considering group dynamics</li> </ul> <p><i>Core reading: Beauchamp et al. (2015)</i></p>	Nov 10 <ul style="list-style-type: none"> <li>MID-TERM BREAK</li> </ul>
Week 11	
Nov 15 <ul style="list-style-type: none"> <li>Behavioral economics: Can we pay people to exercise?</li> </ul> <p><i>Core reading: Mitchell et al (2019)</i></p>	Nov 17 <b>Reading Group 5: Mechanisms</b>
Week 12	
Nov 22 <ul style="list-style-type: none"> <li>Bridging the gap between research and practice</li> </ul> <p><i>Core reading: Estabrooks &amp; Gyurcsik (2003)</i></p>	Nov 24 <ul style="list-style-type: none"> <li>Group project tutorials</li> </ul>
Week 13	
Nov 29 <ul style="list-style-type: none"> <li>Group project tutorials</li> </ul>	Dec 1 <ul style="list-style-type: none"> <li>Group project tutorials</li> </ul>
Week 14	
Dec 6 <ul style="list-style-type: none"> <li>Course summary/Exam prep</li> </ul>	

### Core Readings

#### Week 1

Sallis, J.F., Cervero, R.B., Ascher, W., Henderson, K.A., Kraft, M.K. & Kerr, J. (2006). An ecological approach to creating active living communities. *Annual Reviews of Public Health*, 27, 297-322.

#### Week 2

Bauman, A., Phongsavan, P., Schoeppe, S., & Owen, N. (2006). Physical activity measurement--a primer for health promotion. *Promotion and Education*, 13(2), 92-103.

#### Week 3:

Ravindran AV, Balneaves LG, Faulkner G, Ortiz A, McIntosh D, Morehouse RL, Ravindran L, Yatham LN, Kennedy SH, Lam RW, MacQueen GM, Milev RV, Parikh SV; CANMAT Depression Work Group. (2016). Canadian Network for Mood and Anxiety Treatments (CANMAT) 2016

Clinical Guidelines for the Management of Adults with Major Depressive Disorder: Section 5. Complementary and Alternative Medicine Treatments. *Can J Psychiatry*. 2016 Sep;61(9):576-87.

#### Week 4

Biddle, S.J.H., Mutrie, N., Gorely, T., & Faulkner, G. (2021). Intervention Planning (Chapter 11). *Psychology of Physical Activity Determinants, Well-Being and Interventions* (4th Edition). London: Routledge. This will be posted on canvas.

#### Week 5:

Rhodes, R. E., McEwan, D., & Rebar, A. L. (2019). Theories of physical activity behaviour change: A history and synthesis of approaches. *Psychology of Sport and Exercise*, 42, 100-109. doi:<https://doi.org/10.1016/j.psychsport.2018.11.010>

#### Week 6

Glowacki, K., Duncan, M., Gainforth, H., & Faulkner, G. (2017). Barriers and Facilitators to Physical Activity and Exercise among Adults with Depression: A Scoping Review. *Mental Health and Physical Activity*, 13, 108-119.

#### Week 7:

Bauer MS, Damschroder L, Hagedorn H, Smith J, Kilbourne AM. An introduction to implementation science for the non-specialist. *BMC Psychol*. 2015; 3:32. doi: 10.1186/s40359-015-0089-9.

Saunders RP, Evans AE, Kenison K, Workman L, Dowda M, Chu YH. Conceptualizing, implementing, and monitoring a structural health promotion intervention in an organizational setting. *Health Promot Pract*. 2013 May;14(3):343-53.

#### Week 8:

Michie, S. et al. (2013). The Behavior Change Technique Taxonomy (v1) of 93 Hierarchically Clustered Techniques: Building an International Consensus for the Reporting of Behavior Change Interventions. *Ann. behav. med.* 46:81–95. DOI 10.1007/s12160-013-9486-6

#### Week 9:

Fortier M, McFadden T, Faulkner G. Evidence-based recommendations to assist adults with depression to become lifelong movers. *Health Promot Chronic Dis Prev Can*. 2020 Oct;40(10):299-308. doi: 10.24095/hpcdp.40.10.01. PMID: 33064071; PMCID: PMC7608934.

Tuccero D, Railey K, Briggs M, Hull SK. (2016). Behavioral Health in Prevention and Chronic Illness Management: Motivational Interviewing. *Primary Care*, 43(2), 191-202. doi: 10.1016/j.pop.2016.01.006.

#### Week 10:

Beauchamp MR, Harden SM, Wolf SA, Rhodes RE, Liu Y, Dunlop WL, Schmader T, Sheel AW, Zumbo BD, Estabrooks PA. Group based physical Activity for Older adults (GOAL) randomized controlled trial: study protocol. *BMC Public Health*. 2015 Jun 27;15:592. doi: 10.1186/s12889-015-1909-9.

#### Week 11:

Mitchell MS, Orstad SL, Biswas A, et al. Financial incentives for physical activity in adults: systematic review and meta-analysis. *British Journal of Sports Medicine* Published Online First: 15 May 2019. doi: 10.1136/bjsports-2019-100633

Week 12:

Estabrooks, P.A. & Gyurcsik, N.C. (2003). Evaluating the impact of behavioural interventions that target physical activity: issues of generalisability and public health. *Psychology of Sport & Exercise*, 4, 41-55.

### **University Policies**

UBC provides resources to support student learning and to maintain healthy lifestyles but recognizes that sometimes crises arise and so there are additional resources to access including those for survivors of sexual violence. UBC values respect for the person and ideas of all members of the academic community. Harassment and discrimination are not tolerated nor is suppression of academic freedom. UBC provides appropriate accommodation for students with disabilities and for religious observances. UBC values academic honesty and students are expected to acknowledge the ideas generated by others and to uphold the highest academic standards in all of their actions. Details of the policies and how to access support are available on [the UBC Senate website](#).

### **Inclusivity**

Education is a multidisciplinary field that brings together faculty, students and others from diverse academic and personal backgrounds. UBC's Faculty of Education is committed to creating a respectful workplace and learning environment that supports inclusion based on the principles of equity, diversity and social justice in order to create an environment that supports its community members' full participation. The Faculty of Education is committed to providing accessible, usable, and welcoming spaces for faculty, staff, students, and visitors who have disabilities, are members of racialized communities, Indigenous, transgender, two-spirit and gender-diverse people, regardless of their age, sexual orientation, social status, religion, ethno- linguistic, nationality and/or citizenship status.

Faculty of Education courses take place in learning environments that are inclusive of gender identity, gender expression, sex, race, ethnicity, class, sexual orientation, ability, age, etc. Learners and educators expect to be treated respectfully at all times and in all interactions. Non-sexist, non-racist, non-homophobic, non-transphobic and non-heterosexist language is expected in Faculty of Education classes, course content, discussions and assignments.

*Please feel welcome to e-mail me your name and pronoun and how you would like these to be used.*

### **Academic Integrity**

All UBC students are expected to behave as honest and responsible members of an academic community. Breach of those expectations or failure to follow the appropriate policies, principles, rules, and guidelines of the University with respect to academic honesty may result in disciplinary action. It is your responsibility to become familiar with the

University of British Columbia's Academic Honesty and Plagiarism Policies, as well as the Student Declaration and the consequences of violating these policies.

Students are responsible for submitting original work and accurately citing (referencing) the work of others within assignments. All submitted assignments become the property of the University of British Columbia and electronic copies of submitted assignments will be stored and used to check against future, present, or past cases of academic misconduct. Students will also be required to submit a copy of all of their assignments to TurnItIn.com.

**Please note the following dates:**

Term Dates: Tuesday September 6<sup>th</sup> to December 7<sup>th</sup>, 2022

Last date for withdrawal without a W on your transcript: September 19, 2022

Last date for withdrawal with a W standing on your transcript: October 28, 2022

Exam dates (do not book travel until the date of the final exam is confirmed): December 11 to December 22, 2022

**Policy on text-matching software**

UBC subscribes to Turnitin, an online system that compares written material with the Web and with other material submitted to its database. Faculty, staff and students can upload submissions and check for duplication of material in other sources and possible plagiarism.

**Learning Analytics**

Learning analytics includes the collection and analysis of data about learners to improve teaching and learning. This course will be using the following learning technologies: Canvas. Many of these tools capture data about your activity and provide information that can be used to improve the quality of teaching and learning. In this course, I plan to use analytics data to:

- View overall class progress
- Review statistics on course content being accessed to support improvements in the course

**Copyright**

All materials of this course (course handouts, lecture slides, assessments, course readings, instructor recorded videos etc.) are the intellectual property of the Course Instructor or licensed to be used in this course by the copyright owner. Redistribution of these materials by any means without permission of the copyright holder(s) constitutes a breach of copyright and may lead to academic discipline. Students are not permitted to record classes or take photographs during class unless they are granted prior permission from the instructor.

*Academic Accommodation for Students with Disabilities*

The University's goal is to ensure fair and consistent treatment of all students, including students with a disability, in accordance with their distinct needs and in a manner consistent with academic principles. Students with a disability who wish to have an academic accommodation should contact Access and Diversity without delay.

**Course Review**

We are continually trying to improve our teaching, and student opinion is an important factor which influences this. At the end of the course every student should fill in a questionnaire. This involves a set of predetermined questions to grade all aspects of the course, as well as the opportunity to add any written comments. Make sure you do this if you want your opinion to be considered.

## READING SCHEME STUDY GUIDE

### **What I must do?**

**Every two weeks, I must read ONE article and write a ONE page synopsis.**

### **What's in it for me?**

#### **Working in a reading group . . . .**

- **Will allow me to cover a larger range of material**
- **Will give me the opportunity to critically examine research with my colleagues**
- **Will give me a one page synopsis of five articles every two weeks which will help me prepare for the exam**

### SETTING UP

- 1) Form into groups of 5. Give yourself a name and elect a team leader. The team leader must email me (guy.faulkner@ubc.ca) with the names of those in the group and a group name by September 17th. Groups will be confirmed on this date based on numbers enrolled in the course.
- 2) A week before the designated sessions are due to meet in class time you will meet as a group to coordinate which reading each person will do (other than the identified core reading) from the list of five articles in each topic. Each person then conducts a critical reading of their chosen article and writes a 1-page synopsis. The articles are available through the electronic collections of the library.
- 3) This synopsis, with your name on it, and the name of your group, must be posted on canvas the day before the identified class period (for example, you must post your first synopsis on September 21<sup>st</sup>) and your group response to set questions the day after (September 23<sup>rd</sup> in the first example). This will allow for monitoring. Additionally, you will be able to access the synopses of your colleagues. Failure to post a completed synopsis when required will result in a 2% reduction from your final grade. Further information will be provided in class about this process.
- 4) Your group will meet in class to review the synopses and answer set questions. You will share with your group your key interpretations of each reading and discuss any issues that were raised.
- 5) Focus questions will be provided that you must answer as a group based on the readings. The Thursday sessions will provide further opportunities for discussion of the focus questions, and potential implications for the group project.

### **Writing a Synopsis**

It is difficult to lay down any specific structure to help you develop your notes or a 1-page/300 word synopsis of each paper you read. If you have a personal preference already, stick with that, otherwise, consider some of the following ideas. First, to work as a group, each person must develop a synopsis that is of the quality you would personally want to receive from your colleagues, and that would personally help you in the exam. As such, you need to:

WRITE YOUR NAME and GROUP NAME

Clearly identify the author (date) and all publishing details as used in the course outline

1. Introduction (why?)
  - a) what are the authors trying to settle, prove or demolish? What are they asking?
  - b) How did this issue come up?
  - c) Why bother in the first place – SO WHAT?
2. Methods (how?)
  - a) what was assessed
  - b) how did they do this?
3. Results (what?)
  - a) briefly summarise key results
4. Discussion (general)
  - a) what is discussed? (what theoretical and/or applied implications are derived, what limitations are noted, what recommendations are made for future research?)

FINALLY:

Separate from your synopsis, try to identify and list a few criticisms you may have of the research undertaken. What might have you done differently?

FEEDBACK SUGGESTION:

Don't read the abstract at first! Write your synopsis and compare it with the original abstract of the paper. Your synopsis will be slightly different in that the focus is on being critical of the paper but the original abstract will give you feedback as to whether you are picking up the important elements of the study. This will help prepare you for the exam.

## TOPICS AND READINGS

### Topic 1 – Physical and Depression – Setting the Scene

Moret C, Isaac M, Briley M. Problems associated with long-term treatment with selective serotonin reuptake inhibitors. *J Psychopharmacol.* 2009 Nov;23(8):967-74. doi: 10.1177/0269881108093582.

Dishman RK, McDowell CP, Herring MP. Customary physical activity and odds of depression: a systematic review and meta-analysis of 111 prospective cohort studies. *Br J Sports Med.* 2021 Aug;55(16):926-934. doi: 10.1136/bjsports-2020-103140. Epub 2021 Jan 5. PMID: 33402345.

Schuch F, Vancampfort D, Firth J, Rosenbaum S, Ward P, Reichert T, Bagatini NC, Bgeginski R, Stubbs B. Physical activity and sedentary behavior in people with major depressive disorder: A systematic review and meta-analysis. *J Affect Disord.* 2017 Mar 1;210:139-150.

Samuel, S. et al. (2021). Antidepressant medication use and objectively measured physical activity and sedentary behaviors in adults: A cross-sectional analysis of a nationally representative sample of Canadian adults. *Mental Health and Physical Activity*, 20, 100394.

Walker ER, McGee RE, Druss BG. Mortality in mental disorders and global disease burden implications: a systematic review and meta-analysis. *JAMA Psychiatry* 2015;72: 334–341.

### Topic 2 – Preferences and Barriers to exercise

Azar, D., Ball, K., Salmon, J., & Cleland, V. J. (2010). Physical activity correlates in young women with depressive symptoms: a qualitative study. *The international journal of behavioral nutrition and physical activity*, 7, 3. <https://doi.org/10.1186/1479-5868-7-3>

Bush M.A., et al. (2016). Preferences for exercise as a treatment for depression. *Mental Health and Physical Activity* 2016; 10: pp. 68-72.

Cody et al. (2022). The experience of a physical activity counseling intervention among people with major depression within the PACINPAT trial – A reflexive thematic analysis. *Mental Health and Physical Activity*, 23, 100464.

Pickett, K., T. Kendrick, L. Yardley (2017). A forward movement into life”: A qualitative study of how, why and when physical activity may benefit depression. *Mental Health and Physical Activity*, 12 (2017), pp. 100-109, 10.1016/j.mhpa.2017.03.004

Searle, A., Calnan, M., Lewis, G., Campbell, J., Taylor, A., & Turner, K. (2011). Patients' views of physical activity as treatment for depression: a qualitative study. *British Journal of General Practice*, 149-156.

**Topic 3 – Exercise Interventions 1**

Blumenthal, J. A., Babyak, M.A., Moore, K.A., Craighead, E., Herman, S., et al. (1999). Effects of exercise training on older patients with major depression. *Archives of Internal Medicine* **159**, (19), 2349-2356.

Blumenthal JA, Babyak MA, Doraiswamy PM, Watkins L, Hoffman BM, Barbour KA, Herman S, Craighead WE, Brosse AL, Waugh R, Hinderliter A, Sherwood Exercise and pharmacotherapy in the treatment of major depressive disorder. *Psychosomatic Medicine*. 2007 Sep-Oct;69(7):587-96. Epub 2007 Sep 10.

Dunn, A.L., Trivedi, M.H., Kampert, J.B., Clark, C.G., & Chambliss, H.O. (2005). Exercise treatment for depression: Efficacy and dose response. *American Journal of Preventive Medicine*, 28 (1), 1-8.

Gerber M, Minghetti A, Beck J, Zahner L, Donath L. Sprint Interval Training and Continuous Aerobic Exercise Training Have Similar Effects on Exercise Motivation and Affective Responses to Exercise in Patients With Major Depressive Disorders: A Randomized Controlled Trial. *Front Psychiatry*. 2018 Dec 21;9:694. doi: 10.3389/fpsy.2018.00694. PMID: 30622487; PMCID: PMC6308196.

Stanton, R. & Reaburn, P. (2014). Exercise and the treatment of depression: A review of the exercise program variables. *Journal of Science and Medicine in Sport*, 17(2), 177-182.

**Topic 4 – Exercise Interventions 2**

Adams DJ, et al. (2015). Exercise as medicine-the use of group medical visits to promote physical activity and treat chronic moderate depression: a preliminary 14-week pre-post study. *BMJ Open Sport Exerc Med*. 2015 Nov 2;1(1):e000036

DeJonge, M. et al. (2021). On campus physical activity programming for post-secondary student mental health: Examining effectiveness and acceptability. *Mental Health and Physical Activity*, 20, 100391.

Chalder M, et al. (2012). Facilitated physical activity as a treatment for depressed adults: randomised controlled trial. *BMJ*. 2012 Jun 6;344:e2758. doi: 10.1136/bmj.e2758.

Khoubaeva, D. et al. (2022). Toward exercise as medicine for adolescents with bipolar disorder (TEAM-BD): A feasibility study. *Mental Health and Physical Activity*, 22, 100441.

Taylor A, et al. (2021). Randomised controlled trial of an augmented exercise referral scheme using web-based behavioural support for inactive adults with chronic health conditions: the e-coachER trial. *Br J Sports Med*. 2021 Apr;55(8):444-450. doi: 10.1136/bjsports-2020-103121.

**Topic 5 – Mechanisms**

Brüche W, et al. (2021). Physical Activity Reduces Clinical Symptoms and Restores Neuroplasticity in Major Depression. *Front Psychiatry*. 2021 Jun 9;12:660642. doi: 10.3389/fpsyt.2021.660642. PMID: 34177647; PMCID: PMC8219854.

Craft, L.L. (2005). Exercise and clinical depression: Examining two psychological mechanisms. *Psychology of Sport and Exercise*, 6(2), pp.151–171.

Krogh J, Rostrup E, Thomsen C, Elfving B, Videbech P, Nordentoft M. The effect of exercise on hippocampal volume and neurotrophines in patients with major depression--a randomized clinical trial. *J Affect Disord*. 2014 Aug;165:24-30. doi: 10.1016/j.jad.2014.04.041. Epub 2014 Apr 23.

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**Appendix 1: Self and Peer Assessment Form**

<b>General Aspect</b>	<b>Specific Aspect</b>	<b>My Contribution</b>	<b>Peer Initials:_____</b>	<b>Peer Initials:_____</b>	<b>Peer Initials:_____</b>	<b>Peer Initials:_____</b>
<i>Group Task</i>	Attended all group meetings					
	Maintained contact with other group members					
	Contributed constructively to discussion					
	Asked useful questions					
	Generally was cooperative in group activities					
	Encouraged and assisted other group members					
<i>The Task</i>	Made a genuine attempt to complete all jobs agreed by the group					
	Made an intellectual contribution to the completion of the task					
	Did (at least) their fair share of the work					
	Contributed a significant amount (measured in ideas as well as words) to the final report					
	Read and commented in a timely manner on drafts of the final report					
<i>Overall</i>	Based on your ratings and comments above, this student's contribution overall on this group task.					

Rated on a scale: 4: did this very well; 3: did this adequately; 2: did this less than adequately; 1: did this poorly