

Program of Study : General Medicine
Course : **Epidemiological Methodology; Evidence Based Medicine**
Abbreviation : **PVL/VAA11**
Schedule : 12 hours of seminars
Course Distribution : **3rd year , 5th semester, academic year 2022/2023**
Number of Credits : 1
Course Form : Seminars

Seminars :

Teachers: prof. MUDr. Dagmar Horáková, Ph.D. – course guarantor
Mgr. Simona Zatloukalová, Ph.D. – course guarantor
Mgr. Veronika Koutná

Study: Continuous

Block Date:

Tuesday: 20. 09. – 29. 11. 2022, 13:00-14:30 gr. C
Wednesday: 21. 09. – 26. 10. 2022, 13:00-14:30 gr. A

Department of Public Health, room no. TU-PV1a

Tuesday: 20. 09. – 29. 11. 2022, 13:00-14:30 gr. C
Department of Public Health, room no. TU-PV1a

	Date	Subject	No. of Less.	Teacher
1	20. 09. 2022 13:00-14:30 TU-PV1a	Introduction to epidemiological methodology – significance, basic types and design of studies. Epidemiological measures of frequency and association – practical use and examples.	2	Zatloukalová
2	04. 10. 2022 TU-PV1a	Descriptive studies – epidemiological characteristics, designs of descriptive studies, advantages, disadvantages, practical examples. Hypotheses formulation, data sources.	2	Zatloukalová
3	18. 10. 2022 13:00-14:30 TU-PV1a	Analytical studies: case control study – basic principle, analysis, interpretation, advantages, disadvantages, practical examples.	2	Zatloukalová
4	01. 11. 2022 13:00-14:30 TU-PV1a	Analytical studies: cohort study – basic principle, analysis, interpretation, advantages, disadvantages, practical examples.	2	Zatloukalová
5	15. 11. 2022 13:00-14:30 TU-PV1a	Analytical studies: interventional study, RCTs – basic principle, analysis, interpretation, advantages, disadvantages, practical examples.	2	Zatloukalová
6	29. 11. 2022 13:00-14:30 TU-PV1a	Evidence-based medicine: definition, role in clinical practice, pyramid of evidence, 5A model, PICO question, practical examples. Credit test	2	Zatloukalová

Wednesday: 21. 09. – 26. 10. 2022, 13:00-14:30 gr. A
 Department of Public Health, room no. 4. 016, TU-PV1a

	Date	Subject	No. of Less.	Teacher
1	21. 09. 2022 13:00-14:30 TU-PV1a	Introduction to epidemiological methodology – significance, basic types and design of studies. Epidemiological measures of frequency and association – practical use and examples.	2	Koutná / Zatloukalová
2	28. 09. 2022 13:00-14:30 Public Holiday	Descriptive studies – epidemiological characteristics, designs of descriptive studies, advantages, disadvantages, practical examples. Hypotheses formulation, data sources.	2	Koutná / Zatloukalová
3	05. 10. 2022 13:00-14:30 TU-PV1a	Analytical studies: case control study – basic principle, analysis, interpretation, advantages, disadvantages, practical examples.	2	Koutná / Zatloukalová
4	12. 10. 2022 13:00-14:30 TU-PV1a	Analytical studies: cohort study – basic principle, analysis, interpretation, advantages, disadvantages, practical examples.	2	Koutná / Zatloukalová
5	19. 10. 2022 13:00-14:30 TU-PV1a	Analytical studies: interventional study, RCTs – basic principle, analysis, interpretation, advantages, disadvantages, practical examples.	2	Koutná / Zatloukalová
6	26. 10. 2022 13:00-14:30 TU-PV1a	Evidence-based medicine: definition, role in clinical practice, pyramid of evidence, 5 A model, PICO question, practical examples. Credit test	2	Koutná / Zatloukalová

Completed by: Practicavit.
Credit: Credit test with both theoretical and practical tasks.

Requirements: **Absences:** tolerated absence is up to 1 block of seminars (1 day) without the need for apology or substitution. In case of absence without serious reasons beyond 1 block (1 day), the student must replace the absence by preparing a seminar paper on a given topic. If the student proves an illness (an apology from a physician) or another serious reason for absence (eg visa meeting), it is not necessary to replace the seminars. **It is not possible to sign for exams or credits from other subjects during the seminars! Exam or credits from other subjects are not a serious reason for absence.**
Apology for absences: Mgr. Zatloukalová Simona, Ph.D.
simona.zatloukalova@upol.cz

Literature :

1. SACKETT, D., L. et al. 2000. *Evidence Based Medicine – How to Practice and Teach EBM*. Churchill Livingstone. ISBN 0 443 06240 4.
2. GUYATT G. a E. RENNIE: *Users' Guides to the Medical Literature*, JAMA & Archives Journals, American Medical Association, 2002, ISBN 1-57947-191-9.
3. HEYMAN, D. L. 2004. *Control of communicable diseases manual*. Washington: American Public Health Association. ISBN 0875530346.
4. GREENBERG, R. S., DANIELS, S. R., FLANDERS, D. W., ELEY, J. W. a J. R. BORING, 2005. *Medical epidemiology*. New York: McGraw-Hill. ISBN 0071416374.
5. GUEST, G. a Emily E. NAMEY, ed. 2015. *Public health research methods*. Thousand Oaks, Calif.: Sage. ISBN 978-1-4522-4133-3.
6. FINK, A. 2013. *Evidence-based public health practice*. Thousand Oaks, Calif.: Sage. ISBN 978-1-4129-9744-7.
7. BROWNSON, Ross C. 2011. *Evidence-based public health*. 2nd ed. New York, N.Y.: Oxford University Press. ISBN 978-0-19-539789-5.

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