

## CONO Clinical Examination Blueprint

Competencies	% of Exam
<b>1. ASSESSMENT &amp; DIAGNOSIS</b>	<b>30-34%</b>
<i>1.01 Evaluate patients.</i>	
1.01.01 Apply ethical principles to doctor-patient interactions.	
1.01.02 Take a medical and psychosocial history.	
1.01.03 Perform a physical examination.	
1.01.04 Select lab tests*.	
1.01.05 Collect and prepare specimens for lab evaluation.	
1.01.06 Select imaging studies**.	
<i>1.02 Assess common conditions, both acute and chronic.</i>	
1.02.01 Identify risk factors.	
1.02.02 Recognize signs and symptoms.	
1.02.03 Identify comorbidities.	
1.02.04 Generate a differential diagnosis.	
1.02.05 Determine pathogenesis and etiologies.	
<i>1.03 Interpret findings.</i>	
1.03.01 Interpret findings of physical examination.	
1.03.02 Interpret results of lab tests.	
1.03.03 Identify factors that may interfere with lab results.	
1.03.04 Interpret results of imaging.	
1.03.05 Predict the complications and sequelae.	
1.03.06 Determine the prognosis.	
1.03.07 Monitor patient progress using lab tests and imaging studies.	
<i>1.04 Apply evidence informed practice to patient management.</i>	
1.04.01 Interpret and critique the results of research studies.	
1.04.02 Apply the results of research studies to patient management	

\*Refer to Ontario Clinical Sciences Examination Reference Guide, section Laboratory Tests

\*\*Refer to Ontario Clinical Sciences Examination Reference Guide, section Imaging Studies

Competencies	% of Exam
<b>2. MODALITIES</b>	<b>55-59%</b>
<i>2.01 Manage patient care by applying principles of botanical prescribing.</i>	
2.01.01 Evaluate the safety of botanical medicine prescriptions, including side effects, contraindications, interactions, and toxicity.	
2.01.02 Prescribe botanical medicines*, including the posology and prescribing abbreviations, based on pharmacognosy, therapeutic effects, indications, mechanisms of action, and route of administration.	
<i>2.02 Manage patient care by applying principles of homeopathic prescribing.</i>	
2.02.01 Demonstrate knowledge of the critical aspects of case taking (e.g., timing, sidedness, intensity, aggravating and ameliorating factors).	
2.02.02 Prescribe homeopathic preparations** for acute conditions based on keynotes, including the posology and prescribing abbreviations, using classical Hahnemannian homeopathy.	
<i>2.03 Manage patient care by applying principles of clinical nutrition, including nutraceuticals***.</i>	
2.03.01 Assess diet and nutritional status (intake, absorption, utilization, loss).	
2.03.02 Evaluate the safety of nutritional interventions, including side effects, contraindications, interactions, and toxicity.	
2.03.03 Prescribe nutritional interventions based on indications, bioavailability, food sources, route of administration, and requirements for macronutrients and micronutrients.	
2.03.04 Prescribe therapeutic diets**** based on indications and contraindications.	
2.03.05 Counsel patients about general nutrition and food sources of nutrients.	
<i>2.04 Manage patient care by applying principles of physical medicine.</i>	
2.04.01 Evaluate the safety of physical medicine interventions, including side effects, contraindications and interactions.	
2.04.02 Perform specialized orthopedic tests*****.	
2.04.03 Perform osseous manipulation.	
2.04.04 Perform soft tissue manipulation.	
2.04.05 Treat patients using therapeutic devices (diathermy, sine wave and TENS, interferential and micro-current, light therapy, and therapeutic ultrasound).	
2.04.06 Prescribe and administer hydrotherapy treatments.	
2.04.07 Prescribe therapeutic exercise.	
2.04.08 Counsel patients regarding prevention of musculoskeletal conditions.	

\*Refer to Ontario Clinical Sciences Examination Reference Guide, section Botanical Medicines

\*\*Refer to Ontario Clinical Sciences Examination Reference Guide, section Homeopathic Preparations

\*\*\*Refer to Ontario Clinical Sciences Examination Reference Guide, section Nutraceuticals

\*\*\*\*Refer to Ontario Clinical Sciences Examination Reference Guide, section Therapeutic Diets

\*\*\*\*\*Refer to Ontario Clinical Sciences Examination Reference Guide, section Orthopedic Tests

Competencies	% of Exam
<i>2.05 Manage patient care by applying principles of counseling and health psychology.</i>	
2.05.01 Apply basic counseling principles and use counseling techniques to provide patient care.	
2.05.02 Counsel patients regarding lifestyle choices, health promotion, and the prevention of chronic disease.	
2.05.03 Use and prescribe mind-body techniques.	
2.05.04 Identify and address lifespan/developmental issues.	
2.05.05 Use evidence-based psychological assessment tools*.	
<i>2.06 Manage patient care by applying principles of Traditional Chinese Medicine.</i>	
2.06.01 Demonstrate knowledge of the critical aspects of case taking (e.g., ten questions, pulse and tongue).	
2.06.02 Recognize signs and symptoms according to Traditional Chinese Medicine patterns (eight principles, vital substances, organs, meridians, five elements).	
2.06.03 Diagnose Zang-Fu pathologies**.	
2.06.04 Evaluate the safety of Chinese patent herbal formulas***, including side effects, contraindications, interactions, and toxicity.	
2.06.05 Prescribe Chinese patent herbal formulas based on Zang-Fu diagnosis.	
2.06.06 Determine acupuncture**** prescription.	
2.06.07 Administer acupuncture including point location, angulation, depth, and clean needling technique.	
2.06.08 Evaluate the safety of acupuncture including side effects, contraindications, interactions, and cautions.	
2.06.09 Prescribe adjunct therapies (moxibustion, cupping, electro-acupuncture, and laser).	
<i>2.07 Manage patient care by applying principles of pharmacotherapy.</i>	
2.07.01 Evaluate the safety of pharmaceuticals, including side effects, contraindications, interactions, and toxicity.	
2.07.02 Prescribe pharmaceuticals***** based on therapeutic effects, indications, mechanisms of action, and route of administration.	
2.07.03 Monitor and assess for therapeutic drug levels.	

\*Refer to Ontario Clinical Sciences Examination Reference Guide, section Psychological Assessment Tools

\*\*Refer to Ontario Clinical Sciences Examination Reference Guide, section Zang-Fu Pathologies

\*\*\*Refer to Ontario Clinical Sciences Examination Reference Guide, section Chinese Patent Herbal Formulas

\*\*\*\*Refer to Ontario Clinical Sciences Examination Reference Guide, section Acupuncture Point

\*\*\*\*\*Refer to Ontario Clinical Sciences Examination Reference Guide, section Pharmaceuticals

Competencies	% of Exam
<b>3. CRITICAL CARE AND PUBLIC HEALTH</b>	<b>9-13%</b>
<i>3.01 Manage high-risk patients and critical conditions.</i>	
3.01.01 Identify high-risk patients and critical conditions.	
3.01.02 Manage high-risk patients and critical conditions, including referral as appropriate.	
3.01.03 Perform Cardiopulmonary Resuscitation.	
3.01.04 Administer oxygen.	
<i>3.02 Implement occupational and public health policies.</i>	
3.02.01 Apply principles of sterilization, disinfection, and universal precautions.	
3.02.02 Manage bio-hazardous substances and materials.	
3.02.03 Counsel patients regarding communicable diseases.	
3.02.04 Report communicable diseases to local public health authorities.	
3.02.05 Report adverse reactions to therapeutic substances to Health Canada.	

### Other Blueprint Parameters

Condition	% of Exam
1. Vascular	9-11%
2. Infectious	9-11%
3. Neoplastic	4-6%
4. Degenerative	9-11%
5. Inflammatory/Immunologic	9-11%
6. Congenital/Developmental	6-8%
7. Autoimmune	8-10%
8. Toxic/Environmental	6-8%
9. Traumatic	4-6%
10. Endocrine	9-11%
11. Metabolic	6-8%
12. Psychosomatic/Psychiatric	9-11%

Patient Population	% of Exam
Pediatric (0-14)	15-25%
Adult (15-49)	25-35%
Older Adult (50-65)	25-35%
Geriatric (over 65)	15-25%

<b>Item Type</b>	<b>% of Exam</b>
Independent	28-32%
Case-Based	68-72%

<b>Taxonomy (Cognitive Level)</b>	<b>% of Exam</b>
Knowledge/Comprehension	15-25%
Application	45-55%
Critical Thinking	25-35%

Asterisks refer to corresponding lists, as set out in the [Clinical Sciences Examination Reference Guide](#)