

I'm not robot!

Table 11.1 Classification of erythemas

Widespread Caused by infection (bacterial or viral) Drug reaction Connective tissue disease Underlying malignancy (e.g. Sjögren syndrome) Idiopathic ('viral' or 'reactive')	Palmar erythema This may be an isolated finding in a normal person or be familial. Sometimes it is seen in pregnancy, liver disease or rheumatoid arthritis. Often associated with spider telangiectases (see below), it may be caused by increased circulating oestrogens.
Localised Pruritus, liver disease, rheumatoid arthritis (causing palmar erythema) Drug reaction (fixed drug eruption) Infection (e.g. erythema multiforme triggered by <i>Herpes simplex</i>)	Erythema migrans (p. 135) These annular erythematous areas are usually solitary, and occur most often on exposed skin after a tick bite. They expand slowly and may become very large.
or caused by a myeloproliferative disease (e.g. polycythaemia rubra vera or thrombocythemia), lupus erythematosus, rheumatoid arthritis, diabetes, digitalis or peripheral vascular disease or hypertension. Small doses of aspirin give symptomatic relief. Alternatives include non-steroidal anti-inflammatory drugs (NSAIDs), or heparin and caprothylone (pentoxifylline).	Telangiectases This term refers to permanently dilated and visible small vessels in the skin. They appear as linear, punctate or stellate crimson purple markings. The common causes are given in Table 11.2.
Erythemas Erythema accompanies all inflammatory skin conditions, but the term 'erythema' is usually applied to a group of conditions with redness but without primary scaling. Such areas are seen in some bacterial and viral infections such as toxic shock syndrome and measles. Drugs are another common cause (Chapter 25). If the cause is obvious, the rash is often called a 'reactive' or 'infective' erythema (Table 11.1). When erythema is associated with oedema ('urticarial erythema') it becomes palpable.	Spider naevi These telangiectases do look rather like spiders, with legs radiating from a central, often palpable, feeding vessel. If the diagnosis is in doubt, press on the central feeding vessel with the corner of a glass slide and the entire lesion will disappear. Spider naevi are seen frequently on the face of normal children, and may erupt in pregnancy or be the presenting sign of liver disease, with many lesions on the upper trunk. Liver function should be checked in those with many spider naevi. The central vessel can be destroyed by electrocauterisation without local anaesthesia or with a painted dye laser (p. 327).
Figurate erythema These are chronic eruptions, made up of linear serpiginous and erythematous rings. In the past most carried Latin labels (herpes, these eruptions are now grouped under the general term of 'figurate erythema'). Underlying malignancy, a connective tissue disorder, a bacterial, fungal or yeast infection, worm infestation, drug sensitivity and rheumatic heart disease should be excluded, but often the cause remains obscure.	Livedo reticularis The colour of the skin is net-like or mottled and caused by stasis in the capillaries farthest from their arterial supply at the periphery of the involved area supplied by a dermal artery (see Fig. 2.1). 'Crisis morbosus' is the name given to the mottling of the skin seen in many normal children. It is physiological and disappears on warming, whereas true livedo reticularis remains. The causes of livedo reticularis are listed in Table 11.3. Livedo vasculitis and antinuclear polyarteritis are

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HB_sAg+

HB_eAg-positive

ALT < ULN HBV DNA* > 2000 IU/mL	ALT 1–2 × ULN HBV DNA > 2000 IU/mL	ALT > 2x ULN HBV DNA > 2000 IU/mL
Q 3–6 mo ALT Q 6–12 mo HBV DNA and HB _e Ag	Consider biopsy if age > 40, elevated ALT, family history of HCC	Liver biopsy optional Q 1–3 mo ALT & HBV DNA Q 3 mo HB _e Ag
Active inflammation?	Active inflammation?	Active inflammation?
No	No Yes	No Yes
No treatment**	Antiviral treatment as needed	Antiviral therapy indicated if HB _e Ag remain: positive > 3–6 mo

Where to get tested for HIV?

Home-testing kit by other providers

Convenience



Get tested for HIV by ordering at-home HIV test from other providers just sitting from your home

Cost-effective



Taking a single HIV test from other providers is not enough, an additional test is required to confirm the results

Accuracy



Test results provided by others are only 90% accurate and there are high chances for false results



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Convenience



Get tested for HIV by ordering at-home HIV test from our provider just sitting from your home

Cost-effective



Take a single HIV test and get quick and reliable results. No additional test required unless specified.

Accuracy



Test results provided by our partner myLAB Box are 99.9% accurate



myLAB Box
myLAB Box is a home testing kit for HIV-1 and HIV-2. It is a rapid, accurate, and easy-to-use test that can be performed at home. The kit includes a test card, a buffer solution, and a control solution. The test card is used to perform the test, and the results are displayed on the card within 15 minutes. The kit is designed to be used by anyone, and it is suitable for use in both developed and developing countries. The kit is also suitable for use in home care settings, such as in the home of a patient or in a community health center. The kit is available in both English and Spanish. For more information, visit www.dxsaver.com.



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technicians and veterinarians about their work. Find out about their research, collaborations and innovative science activities designed to safeguard food, animals and plants, and enhance the well-being of Canada's people, environment and economy. August 2022 | Canadian Food Inspection Agency | by Fedaa Khirallah and Bruno Gallant, Invasive Alien Species and Domestic Programs Section All Canadians have a role to play in protecting plants in Canada from invasive insects and plant species. This includes reporting findings of plant pests to the Canadian Food Inspection Agency (CFIA). Invasive plants, insects, snails, slugs and pathogens all have the potential to negatively impact Canada's agriculture, forestry and environmental resources. June 2022 | Canadian Food Inspection Agency | by Nicole Mielewiczky and Erin Appleton, Plant Health Surveillance Unit Many would have been discouraged by the pouring rain and cold winds that settled in southern Ontario on April 21, 2022. But a dedicated team of specialists was undeterred and eager to get to work on some important research on hemlock woolly adelgid (HWA) - an aphid-like insect pest that attacks and kills hemlock trees. April 2022 | Canadian Food Inspection Agency | by Dr. Thomas Teklemariam The Canadian Food Inspection Agency (CFIA) is always looking for ways to enhance food safety. Electromagnetic radiation (EMR) can provide a unique perspective on what's in food and is extremely useful in investigations into food safety, quality and potential fraud. February 2021 | Canadian Food Inspection Agency | by Dr. Sharon Calvin and Dr. Andrea Osborn This past year the whole world was pulled into the life of an epidemiologist. Epidemiologists in the Canadian Food Inspection Agency's (CFIA) Animal Health Science Directorate are used to following infectious diseases around the world as they come and go. These emerging diseases sometimes raise the alarm for scientists in multiple countries. In some cases, when they make it into the mainstream media, family and friends express concern as well. The work of epidemiologists was at the forefront and words like the "R number" became a common household term, as the rise of the SARS-CoV-2 virus brought about a global pandemic. Despite the challenges the pandemic has placed on health systems, economics, food supply, education and mental health, it has also provided opportunities to advance science. June 2020 | Ottawa Laboratory Carling, Canadian Food Inspection Agency | by Burton Blais The Canadian Food Inspection Agency (CFIA) safeguards the health of Canadians by using science to figure out what poses the greatest risk to the food supply, and conducts inspections accordingly. February 2020 | Canadian Food Inspection Agency | by Stefanie Sultmanis, Tracy Lawrence, Brittany Day and Anitha Selvakumar Science at CFIA is ever-growing, always changing, and constantly improving. As our science changes, the tools, techniques and infrastructure must also evolve to meet the needs of our innovative scientists across the country. November 2019 | Canadian Food Inspection Agency | Calling all superheroes! We need your help in the fight against our worst enemies. Every day, the Canadian Food Inspection Agency (CFIA) protects food, animals and plants, which helps improve the health of Canada's people, environment and economy. But, we constantly need the help of brave superheroes, like you and your friends, to keep all Canadians safe. August 2019 | Canadian Food Inspection Agency | by Guillaume Bilodeau and Emily Giroux My kids always ask me, "Dad what is your job? What do you do at work?" My response is simple, "I work with DNA. I use DNA to identify diseases affecting plants." June 2019 | Canadian Food Inspection Agency | by Martin Damus Ah, a nice warm fire! Gathering around campfires in the summer or a hearth in the cold winter is classically Canadian. Firewood is plentiful and who doesn't like its cheery warm glow? April 2019 | Canadian Food Inspection Agency | by Jennifer Platts-Fanning, Shara Cody One misty Island morning, as I climbed into a cab on my way to work, the driver asked where I was going. I responded in the Island way, simply, "the big white building with the greenhouses." Immediately he exclaimed, "Oh, the plant hospital!" to which I replied smiling, "It does look like a hospital, but we only diagnose and we don't treat the plants." The work performed in the incredible building has always been a topic of rumour around our little town. January 16, 2019 | Canadian Food Inspection Agency | by Dr. Elie Chamoun Students know best how daunting it is to kick-start a career after graduation. For those educated in science, looking for the right place to apply their talent and skills is an exciting yet sometimes difficult endeavour. This challenge is magnified by having to decide between a vast array of science jobs on the market: industry, academia, consulting, and government. In the competitive job market of the 21st century, it takes a proactive and innovative employer to convey to students that their competencies are valued and sought after. October 22, 2018 | Canadian Food Inspection Agency | by Loren Matheson, April Killikelly, Bradley Pickering High consequence pathogens, such as those that cause hemorrhagic fevers or pandemic influenza, have the potential to significantly impact human health, animal health as well as our Canadian economy. The mandate of the Canadian Food Inspection Agency (CFIA) includes work on foreign animal diseases such as these in order to contribute to our country's preparedness and response planning. This work covers all aspects of risk assessment, prediction, prevention, detection as well as restoration and recovery after a potential disease outbreak. Page 9 Research and science collaboration in the Government of Canada. Stories, people, funding, educational resources, evidence-based decision making, research facilities and more. Science and research stories Federal science and research Laboratories Canada Laboratories Canada is a whole-of-government 25-year strategy designed to further strengthen collaboration across federal science institutions, and with academia, international partners and Canadians. Office of the Chief Science Advisor Dr. Mona Nemer is Canada's Chief Science Advisor. Priorities include making government science available, ensuring government scientists can speak freely and promoting evidence-based decision making. Research facilities Learn about government research centres across the country and find out about opportunities to partner with and access these facilities for your research. Collaborative research and funding Get involved Citizen Science Portal Find out about science projects and experiments in your community that you can get involved in. Educational Resources Find science activities, lesson plans, videos and more to help children and teens learn about science and technology. Careers in Science Learn about science-based career opportunities in the federal government for students and science professionals. Features The first images of the James Webb Telescope are now available. A national conversation held June 8 brought together experts in science education, communications and skills development from across the country to discuss the findings of a survey the CFI and Aclás commissioned last year to shed light on the attitudes 18- to 24-year-old Canadians have toward science. Canada strongly condemns the unprovoked and unjustifiable actions taken by Vladimir Putin against Ukraine and its people. Page 10 Collaboration en recherche et en science au sein du gouvernement du Canada. Histoires, personnes, financement, ressources éducatives, prise de décisions fondées sur des données probantes, installations de recherche et plus encore. Histoires de science et de recherche Science et recherche à l'échelle fédérale Laboratoires Canada Laboratoires Canada. Ses priorités sont de s'assurer que les travaux scientifiques du gouvernement fédéral soient accessibles, de veiller à ce que les scientifiques du gouvernement puissent s'exprimer librement et de promouvoir une prise de décision fondée sur des données probantes. Installations de recherche Renseignez-vous sur les centres de recherche gouvernementaux du pays et découvrez les possibilités de partenariat et d'accès à ces installations pour vos recherches. Recherche et financement collaboratifs Impliquez-vous Portail science citoyenne Renseignez-vous sur les projets scientifiques et sur les expériences dans votre collectivité auxquels vous pouvez participer. Ressources pédagogiques Consultez des activités scientifiques, des plans de cours, des vidéos et plus encore pour aider les enfants et les adolescents à en apprendre davantage sur les sciences et la technologie. Carrières scientifiques Renseignez-vous sur les possibilités de carrière dans le domaine des sciences au sein du gouvernement fédéral pour les étudiants et pour les professionnels scientifiques. En vedette Les premières images du télescope Webb sont maintenant disponibles. Une conversation nationale s'est tenue le 8 juin, réunissant des spécialistes de l'enseignement des sciences, des communications scientifiques et du développement des compétences de tout le pays. On y a discuté des résultats d'un sondage que la FCI et l'Acfas avaient commandé l'an dernier afin de faire la lumière sur les attitudes des Canadiennes et Canadiens de 18 à 24 ans vis-à-vis de la science. Le Canada condamne fermement les actes injustifiés et non provoqués posés par Vladimir Poutine à l'encontre de l'Ukraine et de son peuple.

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