Table 1. Summary of commonly-used fluid-resistant disposable gloves

Glove Material	Advantages	Limitations
Latex	 Elastic with good tensile strength Durable while performing routine, low-impact tasks Tear, abrasion and puncture resistant¹ under routine, low-impact conditions Good tactile sensitivity Comfortable with low modulus (resistance to hand movement) Good for biological and water-based materials 	 Limited chemical protection; can be degraded by oils and many organic solvents Deteriorate with long-term exposure to oxygen, ozone, and UV light Can induce or exacerbate latex allergies (leading to anaphylaxis in some cases) Difficult to detect small punctures in glove matrix-may lead to accidental exposures
Nitrile	 Resistant to a wide range of chemicals including oils, alcohols, aldehydes, and some acids/bases Durable while performing routine, low-impact tasks Tear, abrasion and puncture resistant under routine, low-impact conditions Clear indication of punctures or small breaks Comfortable Good alternative for those with latex allergies Good for biological materials 	 Can have a high modulus/ stiffness leading to hand fatigue Deteriorate with long-term exposure to oxygen, ozone, and UV light Tactile sensitivity is not as good as for latex gloves, and may be inadequate/poor with thicker gauges
Neoprene	 Resistant to a wide range of chemicals including oils, alcohols, aldehydes, peroxides and some acids/bases Durable while performing routine, low-impact tasks Tear, abrasion and puncture resistant under routine, low-impact conditions 	 Poor for aromatic or halogenated hydrocarbons Can have a high modulus/ stiffness leading to hand fatigue Deteriorate with long-term exposure to oxygen, ozone, and UV light Tactile sensitivity is not as good as for latex gloves, and may be inadequate/poor with thicker gauges
Vinyl (Polyvinyl Chloride)	 Resistant to oils, fats, peroxides, and some acids/bases Not as prone to deterioration via oxygen/ozone exposure Abrasion resistant 	 Poor durability Poor elasticity and tensile strength; gloves readily tear or rupture Poor resistance to many chemicals including alcohols, aldehydes, and many organic solvents Not form-fitting, increasing risk for exposure to hazards Not adequate for handling infectious materials

Puncture resistance does not include protection from needles, sharp devices, or anything else that focuses pressure across a very small area.