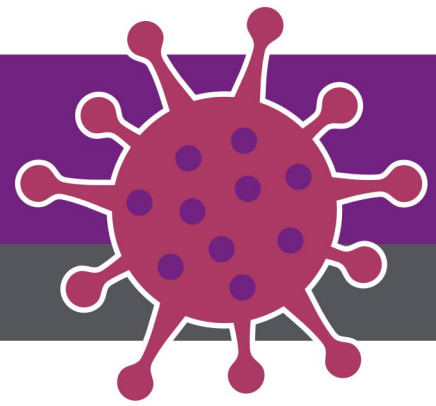


CORONAVIRUS DISEASE 2019 (COVID-19)



USE OF RESPIRATORS APPROVED BY STANDARDS USED IN OTHER COUNTRIES: KN95 Respirator



Audience: Colleagues

Revision Date: 3/28/2020

Version: Version #1

Use of the KN95 respirator is approved for use across Trinity Health as an alternative to current N95s as a contingency strategy during respirator shortages.

KN95s are manufactured in China and are evaluated using similar methods to NIOSH. In the US, the standard is NIOSH-42CFR 84 for N95's. Similarly, in China GB2626-2006 is used to specify the performance of KN95 masks.

Respirators complying with both standards have very similar performance with respect to their filtration efficiency and breathability. The [CDC](#) has recommended the use of alternatives like this mask during the COVID-19 pandemic, in recognition that N95 respirators may be in short supply.

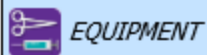
These respirators have protection factors of at least 10 and specifics are outlined in the standards and guidance documents listed below from the CDC.

Country	Performance Standard	Acceptable product classifications	Standards/Guidance Documents	Protection Factor \geq 10
China	GB 2626-2006	KN 100 KP100 KN95 KP95	GB/T 18664—2002	YES
US NIOSH Requirements	NIOSH approved 42 CFR 84	N100, P100, R100 N99, P99, R99 N95, P95, R95	OSHA 29CFR1910.134	YES

The KN95 will have a different appearance than the US Made N95s (See below). The indications for use, as well as conservation strategies for respirator masks will be the same as for N95s.



Important: For the KN95 and any other respirator, always perform a seal check (sometimes called a "fit check") before using. The illustration below is a helpful general guide:

**EQUIPMENT****RESPIRATOR SEAL CHECK**

After you put on your respirator, perform a seal check by placing your hands over the facepiece, as shown below, and then exhaling gently. The seal is considered satisfactory if a slight positive pressure builds up inside the facepiece without air leaking from the seal.¹⁵ Air leakage is evidenced by the fogging of your glasses, a feeling of air trickling down your uncovered face, or a lack of pressure buildup under the facepiece.



If the respirator has an exhalation valve, cover the filter surface with your hands as much as possible and then inhale. The seal is considered satisfactory if the facepiece collapses on your face and you don't feel air passing between your face and the facepiece.

References:

<https://www.cdc.gov/coronavirus/2019-ncov/hcp/respirators-strategy/crisis-alternate-strategies.html>

"Airborne Precautions." (2020), In Lippincott procedures. Retrieved from <http://procedures.lww.com>