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| **Knowledge, Attitudes and Perceptions of COVID-19 Vaccination among Healthcare Workers Public Hospitals in Bungoma County,Kenya.****Author**: Vincent T.Aliong’o**Organization:** Webuye county Hospital.**Country:** Kenya**Email:** aliongov@gmail.com**Co-author:** Nimrod Omuli**Organization**: Bungoma West Hospital. | Coat of arms of Kenya - Wikipedia |
| **Introduction*** Bungoma County is one of the countys most affected by the COVID-19 pandemic in the Kenya.
* Healthcare workers are among those at high risk of contracting the virus, and a vital source of

 information and trust in vaccines to the  community. **Method** This study was conducted about attitudes towards  COVID-19 vaccination among healthcare workers at a  public hospital in Bungoma County during the  beginning of COVID-19 vaccination.400 hospital  employees responded.**Results*** Several factors were significantly associated with vaccine attitudes, including demographics

 such as gender (p = 0.002), age (p = 0.005),  race (p&lt; 0.001) and home location (p &lt;  0.001),role within the hospital (p &lt; 0.001),  knowledge about the virus (p &lt; 0.001) and  confidence in and expectations about  personal protective equipment and behaviors  (p &lt;0.001).* Structural equation modeling revealed that the most predictive factors were prior vaccine attitudes and concern with the speed of testing and approval of the vaccines (p &lt; 0.001).
* Multivariate analysis reinforced these, while also identifying perceived personal risk as significant (p = 0.033).

**Conclusion** Several modifiable factors that reflect confidence in science, scientific knowledge, personal risk perception, experience and medical authority are correlated with vaccine attitudes, indicating that a holistic educational approach to improve trust in science is likely to be effective in long-term reduction in vaccine hesitancy.  | Table 1: Socio-demographic characteristics among  healthcare workers in Bungoma County.

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| Question Frequency(n) Percentage(%) |
| **Sex:** Female 194 48.5  Male 208 52**Age (yrs)**20-30 177 44.3  31-40 174 43.5  41-50 27 6.8 51-60 20 5.0**Profession**  Medical doctor 24 6 Laboratory technician 36 9 KRN 230 57.5 Pharmacist 20 5 Radiographer 10 2.5 Anesthesiologist 2 2.0 Public health officer 26 6.5Nonmedical auxiliary staff 40 10 |

**Figure 1**: Survey responses were unevenly distributed among hospital employees, with an abundance of Nurses .However multiple roles in all aspects of hospital employment are represented.**Figure 2:** Source of information |
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