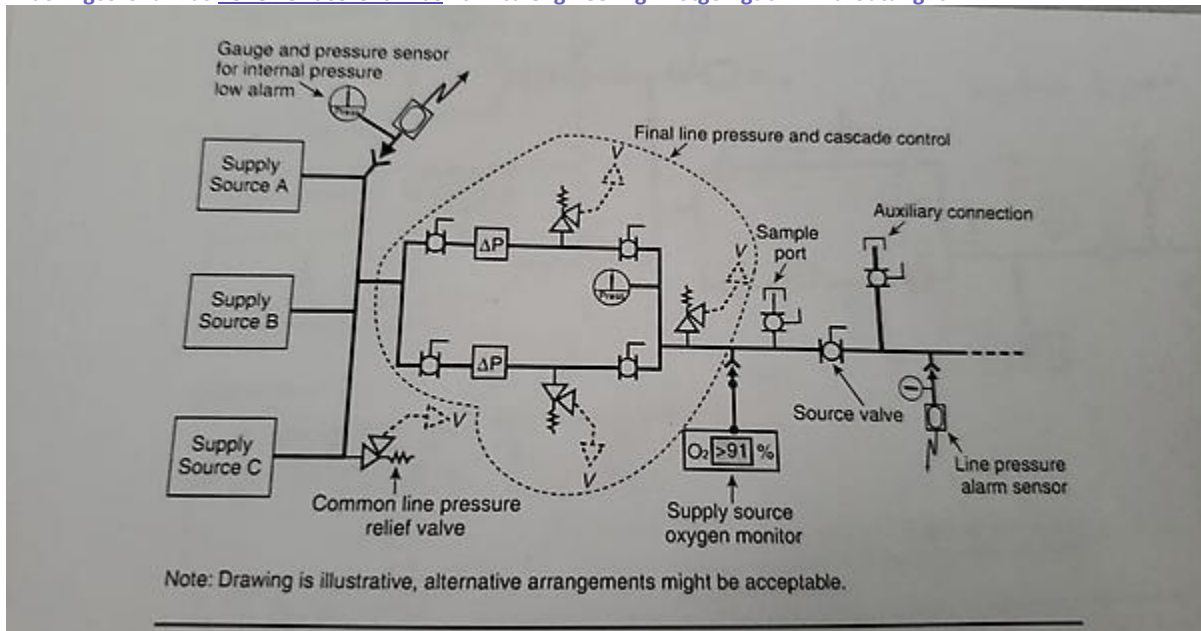


## References for Oxygen Delivery Systems Townhall May 5, 2020

### References:

1. WHO re COVID19
  - a. Critical items: <https://www.who.int/emergencies/diseases/novel-coronavirus-2019/technical-guidance/covid-19-critical-items>
  - b. Treatment Centers: <https://www.who.int/publications-detail/oxygen-sources-and-distribution-for-covid-19-treatment-centres>
  - c. WHO-UNICEF O2 Tech Specs: <https://apps.who.int/iris/bitstream/handle/10665/329874/9789241516914-eng.pdf?ua=1>
2. Ashenafi Hussein (Ethiopia and IFMBE WGAA Chair-Working Group on Africa Activities): May 5 LMIC Presenter, attached pdf
3. Elliot Sloane (USA): Rapid, safe scaling up oxygen supplies is NOT trivial. Ventilators, masks, anesthesia, and CPAP consume huge quantities of O<sub>2</sub>. High pressure tanks and large volumes of oxygen can present huge fire hazards (see OR fires and photos at TheMedicalDetective dot com <https://imgur.com/97HXF0p>) or severe physical injury risks. Inadequate O<sub>2</sub> capacity causes low/no O<sub>2</sub> concentration for patients' oxygen-starved tissues and organs, leading to further damage and death. Colleagues around the world - & WHO - are working to gather and share life-saving clinical engineering documentation to safely design, install, and maintain O<sub>2</sub> systems at the scale needed for COVID-19 patients. Some examples that sourced from friends in Italy, Geneva, UK, US, and elsewhere: <https://imgur.com/xEyhjqn> and <https://imgur.com/yCchttz>. WHO just published this tech document: <https://lnkd.in/eih5TWf>. A US O<sub>2</sub> company, BeaconMedas, just published a special COVID-19 bulletin and worksheet for O<sub>2</sub> planning: <https://lnkd.in/eFei5MH>. Kudos: Hacking COVID-19 one breath at a time! <https://imgur.com/6m60F57>.  
[#hackingcoronavirus](#) [#oneworldcoronavirus](#) [#clinicalengineering](#) [#notgoingdownwithoutafight](#)



4. Anwar Hossain (Bangladesh): attached ppt re MOH Oxygen Delivery Sources in public health system
5. Joseph Rugut (Kenya): INSTALLATION OF OXYGEN GAS MANIFOLDS IN EMERGENCY CARE CENTRES, Info and pictures attached
6. ECRI Institute
  - a. COVID19 Resources: <https://www.ecri.org/covid-19-resources-clinical-care>
  - b. HTM: <https://www.ecri.org/components/HDJournal/Pages/COVID-19-Technology-Management-Resources.aspx?tab=1>
  - c. Oxygen Supply Alert: [https://www.ecri.org/EmailResources/Health%20Devices/ECRI\\_COVID-19\\_Alert\\_S0396.pdf](https://www.ecri.org/EmailResources/Health%20Devices/ECRI_COVID-19_Alert_S0396.pdf)