PP58 SARS-CoV-2: A Rapid Review Of The Transmission Risk From Vaccinated Populations

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Introduction. Since the vaccine roll out, research has focused on vaccine safety and efficacy, with large clinical trials confirming that vaccines are generally effective against symptomatic COVID-19 infection. However, breakthrough infections can still occur, and the effectiveness of vaccines against transmission from infected vaccinated people to susceptible contacts is unclear.

Health Technology Wales (HTW) collaborated with the Wales COVID-19 Evidence Centre to identify and examine evidence on the transmission risk of SARS-CoV-2 from vaccinated people to unvaccinated or vaccinated people.

Methods. We conducted a systematic literature search for evidence on vaccinated people exposed to SARS-CoV-2 in any setting. Outcome measures included transmission rate, cycle threshold (Ct) values and viral load. We identified a rapid review by the University of Calgary that was the main source of our outcome data. Nine studies published following the rapid review were also identified and included.

Results. In total, 35 studies were included in this review: one randomized controlled trial (RCT), one post-hoc analysis of an RCT, 13 prospective cohort studies, 16 retrospective cohort studies and four case control studies.

All studies reported a reduction in transmission of the B.1.1.7 (Alpha) variant from partial and fully vaccinated individuals. More recent evidence is uncertain on the effects of vaccination on transmission of the B.1.617.2 (Delta) variant. Overall, vaccine effectiveness in reducing transmission appears to increase with full vaccination, compared with partial vaccination. Most of the direct evidence is limited to transmission in household settings therefore, there is a gap in the evidence on risk of transmission in other settings. One UK study found protection against onward transmission waned within 3 months post second vaccination.

Conclusions. Early findings that focused on the alpha variant, showed a reduction in transmission from vaccinated people. There is limited evidence on the effectiveness of vaccination on transmission of the Delta variant, therefore alternative preventative measures to reduce transmission may still be required.

PP59 Multidimensional Evaluation Of The Reducer Device In Patients With Refractory Angina

Americo Cicchetti, Filippo Rumi (filipporumi@gmail.com), Ludovica Siviero and Agostino Fortunato **Introduction.** Treatments for coronary heart disease patients have had major developments in recent decades, both in the pharmacological and interventional fields, and this has helped to prolong the survival of these patients. However, the growing number of patients who show persistent and disabling symptoms of angina proves that at the same time their quality of life has not been equally improved.

Methods. We conducted a multidimensional assessment coherent with health technology assessment methodology on the Coronary Sinus Reducer System (CSRS). CSRS is the latest line of therapy for patients with coronary artery disease who are ineligible for revascularization, demonstrate reversible ischemia, and have refractory angina pectoris (AP) despite optimal standard medical therapy. We performed a literature review in order to gather evidence on efficacy and safety of the device and on the economic and organizational impact of the procedure. In the economic domain we developed a cost-utility model based on a decision tree and a five-year time horizon budget impact model.

Results. Several studies in the literature have shown that this therapy is related to an increase in quality of life and an improvement in symptoms of refractory angina. The economic evaluations conducted show how the therapy, despite an increase in the resources absorbed in the first years of implementation, reaches a cost saving profile in the medium term due to positive outcomes, while leading to an increase in the quality of life in patients suffering from refractory angina.

Conclusions. The treatment of refractory angina remains a challenge for today's medicine. Patients suffering from this condition are often described as "no option" patients. Thus, despite there is a need of further evidence to establish even more robustly the economic sustainability of the device, especially on its effectiveness in the mediumlong term, the device should be taking into account in those patients who could benefit from it in terms of relieving the symptoms of angina and improving their quality of life.

PP61 Plugging the Gap of Fetoscopy in Congenital Diaphragmatic Hernia Pregnancies: Value for Money?

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Introduction. Fetoscopic endoluminal tracheal occlusion (FETO) for congenital diaphragmatic hernia (CDH) fetuses increases the neonatal survival rate. However, FETO also increases the number of preterm prelabour rupture of membranes (PPROM) and preterm deliveries (PTDs) as fetal membrane defects after fetoscopy do not spontaneously heal. To solve this issue, an advanced sealing plug is being developed. Through early-stage health economic modelling, we estimated the potential value of this innovative plug in terms of costs and effects and determined the properties for it to become cost-effective.