

	Risks
	Usual travel-related risks
	Getting COVID
	Spreading COVID
	Being stranded
	Quarantine
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Travelling to resource-poor setting

Crowding

Poor hygiene

Poor/overwhelmed healthcare

Difficulty evacuating

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Should they go? Those at higher risk for severe illness (elderly, underlying medical conditions) should consider postponing travel obesity medical complexity severe genetic disorders severe neurologic disorders inherited metabolic disorders sickle cell disease congenital heart disease diabetes chronic kidney disease asthma and other chronic lung disease immunosuppression





Things to avoid

Air travel and cruises, where physical distancing may be difficult for prolonged periods

Travel at peak times and congested routes

Crowded spaces, poorly ventilated enclosed spaces, and any social or mass gatherings eg. concerts, events and parties

Avoid eating out - carry food and drinks

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Reduce risk of infection

and physical distancing is not possible

Seek medical care early if any symptoms of COVID-19

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Vaccine considerations

Routine vaccines - flu, pneumococcal, etc

Travel vaccines

?? COVID vaccine

?? MMR, Hep A vaccine, BCG





Flu and pneumococcal vaccines

Protect against flu, partic those with co-morbidities

Reduce risk of secondary bacterial pneumonia due to any respiratory viruses during winter

Save healthcare services at time of high demand

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	Age	Minimum Interva
DTaP	6 weeks	4 weeks
Hepatitis B	Birth	4 weeks
Hib	6 weeks	4 weeks
IPV	6 weeks	4 weeks
MMR	6–11 months, followed by	4 weeks
	MMR at 12 months old	
OPV	Birth	4 weeks
PCV13	6 weeks	4 weeks
Rotavirus	6 weeks	4 weeks

Routine immunisations - boosters

One-off polio booster for endemic countries

Consider tetanus booster if >10 yrs since last one

Give dTpa-inactivated polio vaccine (Boostrix-IPV*, Adacel Polio*) if possible

Repeat doses of Tdap vaccine after 10 years well tolerated and immunogenic in adults

Vaccine 2012 20;30:974-82

COVID immunity

SARS-CoV-2 infection results in development of functional neutralising abs associated with protection from reinfection - ? durability

Both memory T cell and B cell responses specific to SARS-CoV-2 have been found up to 6 mths after infection

BMJ 2020;371:m4838

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COVID vaccine Immunity

In phase I and II trials, these 3 vaccines induced neutralising abs to the spike protein **and** cellular immune responses

Interim data from phase III trials suggest all 3 vaccines protect against symptomatic infection with SARS-CoV-2

Other vaccines in late-phase studies

NVX-CoV2373 (Novavax) Recombinant protein nanoparticle vaccine 2 IM doses 3 w apart

Ad26.COV2.S (Janssen) Adenovirus vector expressing spike protein 2 IM doses 3 w apart

Ad5-based COVID-19 vaccine (CanSino Biologics) Sputnik V (Gamaleya Institute) BBIBP-CorV (Sinopharm) CoronaVac (Sinovac)

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COVID vaccines in kids

Pfizer and Moderna vaccines both currently in Phase 3 trials in kids 12-18 yrs

Sinovac and SinoPharm (China) have opened COVID vaccine studies down to 3 yrs

Given hypothesis that PIMS-TS/MIS-C is associated with immune dysregulation precipitated by SARS-CoV-2, need to monitor closely for adverse effects

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Outstanding efficacy uncertainties

Duration of protection from disease

Potential need for and timing of boosters

Effectiveness in subpopulations not evaluated in clinical trials

Impact on community transmission (ie herd immunity)

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Can Hepatitis A Vaccine Provide Protection Against COVID-19?

Faik Sarialioglu¹, Fatma Burcu Belen Apak¹, Mehmet Haberal²

Experimental and Clinical Transplantation (2020) 2: 141-143

? Adaptive immune cross-reaction

? Helps keep COVID-19 infection at mucosal colonisation levels, preventing LRTI

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Beneficial non-specific effects on immune system

Considering BCG

vaccination to reduce

the impact of COVID-19

protects against wide range of other infections reduces all-cause neonatal mortality used to treat bladder cancer

www.thelancet.com Vol 395 May 16, 2020

International trial to assess whether BCG reduces incidence and severity of COVID-19 in HCWs

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Tuberculosis

Consider BCG for any child ≤5 yo going for >4 weeks to region of high prevalence

Consider BCG for any VFR child ≤5 yo going for any period

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Travelling in the COVID context

Plan

Hand hygiene, physical distancing, masks

Routine vaccines - flu, pneumococcal, etc

Travel vaccines

?? COVID vaccine

?? MMR, Hep A vaccine, BCG

