COVID-19 INFECTION CONTROL AND PREVENTION IN OPHTHALMOLOGY OFFICES PRE- APPROVED TEMPLATE

Title: Covid-19 response of Henry Ford Ophthalmology Department to Minimize Patient and staff Exposure to Corona Virus

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Project	1) Evaluate the use of SMS messaging in preventing COVID-19 or exposed
Description	suspects from entering the office.
	2) Evaluate the effect of clinical volume reduction to allow social distancing in the
	waiting room.
	3) Evaluate the utilization of newly adopted telemedicine technology during the
	epidemic.
	4) Evaluate the effectiveness of various infection control measures in response to
	the outbreak.
Background	COVID-19 first appeared in the Seattle area in the US. Diplomate's practice is
Information	located in Kitsap County, Washington, across the Puget Sound from Seattle. The
	geographic isolation from the epicenter of this epidemic in the US may in part
	explain the relatively lower-case number in Kitsap County. At the time of this
	writing, there are 33 confirmed cases in this county with 850 negatives.
Project Setting	Solo Practice
Study Population	Diplomate's practice is roughly 70% pediatric ophthalmology and 30% general
	ophthalmology. Beginning on March 2, 2020, we began to use SMS messaging to
	advise scheduled patients to stay home and cancel appointments if they
	experience fever, cough, or sore throat. Text messages also advised patients that
	each minor patient can only be accompanied by one parent to reduce crowd
	size. On March 19, we all began triaging patients such that only urgent and
	emergent patients will be seen. Elective procedures are also cancelled. Blast
	emails were also sent out to all patients of the practice to inform them of the
	availability of Telemedicine service in a Zoom platform to address their eye
	concerns if needed during the epidemic. Multiple signs were posted throughout
	the building and in the clinic space to remind patients of COVID-19 symptoms.
	Doors were kept open to reduce unnecessary contacts. Chairs were rearranged
	in the waiting room to provide social distancing and wiped with Lysol disinfecting
	wipes after each use. All instruments and chairs were similarly wiped in the exam
	rooms after each use. To open with a disposable sleeve was used to check
	pressure. Extra-large face shield was added to all slit lamp to protect patients
	and providers.
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Quality Measures	Evaluate the rate of compliance to SMS messages. Evaluate the overall daily reduction of clinical volume as well as peak volume reduction. We will report the number of patients who selected Telemedicine evaluation as well as any known infection contact to our office as reported by our public health authority.
Project Interventions and Improvement Period	Interventions already described as above. We will track the data for a period of 30 days (or longer if indicated) beginning on March 2.
Project Team	I am the lead on this improvement project. Office manager will help comply data on messaging and clinical volume. Front desk staff and techs will all participate in infection control measures.

COVID-19 Infection and Prevention in Ophthalmology Offices Section 2. Project Evaluation

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	case was traced to our office by our county health officials. As of 4/30/2020,
	there were a total of 150 confirmed cases with 2 deaths in Kitsap County.
PROJECT	SMS messaging is a cost-effective way to disseminate urgent messages to
IMPACT	patients. However, response rate can be low and follow-up phone calls are
	needed for confirmation.
	2) A clinical volume reduction of at least 54% allowed for proper social distancing in
	our office set up. The minimum volume reduction to maintain social distancing
	remains to be determined.
	3) Telemedicine eye visit on the Zoom platform can be sufficient for certain eye
	conditions in placed of in-person exam. The appeal of telemedicine to pediatric
	population was low in our experience perhaps due to lack of cooperation with the
	patients in front of a camera and that the perceived risk of COVID-19 infection in
	this population was low.
	4) While the infectious control measures that we described can be followed with
	some impact to workflow, the effectiveness of such measures would be difficult to
	accurately determine due to the low incidence of COVID in our county and the lack
	of a control group in this study.
PROJECT	Do you feel that the project was worthwhile, effective?
REFLECTION	Yes
	How might you have performed the project differently?
	It is unclear if patients cancelled after receiving our SMS messages did so because
	they were actually having COVID related symptoms or the cancellation was done
	out of fear of contracting the virus by appearing at out clinic. A follow-up phone
	call or email survey will help elucidate the actual compliance with the
	recommended order through SMS messaging.
	• Please offer suggestions for other ophthalmologists undertaking a similar project.
	The relatively low utilization of our telemedicine service was disappointing. My
	suggestion is that every patient who called or texted us to cancel or was cancelled
	by the office should be offered a telemedicine visit. This may increase the
	adoption rate of this technology in general/pediatric ophthalmology practice.