Supplemental Appendix I

COG Pharmacist Survey

The Children's Oncology Group (COG) is conducting a survey on how oncology drug shortages impact clinical care and research in pediatric oncology. Your participation will help COG understand and address the impact of drug shortages in pediatric patients with cancer. It should take about 10 minutes and is completely voluntary and anonymous.

We ask for one pharmacist to complete the survey per an institution.

Inst	itutional Information
	s your institution part of a group purchasing organization (GPO)?
0	No
0	Yes (please identify)
2. V	Which wholesalers does this institution use? Please select all that apply.
	AmeriSourceBergen
	Cardinal
	McKesson
	Morris & Dickson
	Other (please identify)

3. V	Which of the following describes your institution? Please select all that apply.
	Academic medical center
	Community Hospital
	Freestanding children's hospital
	Children's hospital within an adult hospital
	Other (please specify)
5. (c) you	How many licensed beds are there at your institution? On average, how many doses of chemotherapy are dispensed (per business day) at air institution in the inpatient setting? On average, how many doses of chemotherapy are dispensed (per business day) at air institution in the outpatient setting?
Dru	g Shortage Information

	Medication was difficult to obtain due to shortage.	Shortage of medication prevented accrual or continuation on a COG trial.	Shortage of medication prevented accrual or continuation on a non-CC trial.
Asparaginase/Peg- Asparaginase			
Bleomycin			
Carboplatin			
Cisplatin			
Cyclophosphamide			
Cytarabine			
Daunorubicin			
Doxorubicin			
Etoposide			
Fluorouracil			
darubicin			
fosfamide			
rinotecan			
Mesna			
Methotrexate			
Paclitaxel			
Γhiotepa			
/incristine			
other (please specify)			
	erienced a shortage of any om being able to administ		
revented you in dentify the ager ○ №	ιτ.		
dentify the agen			
dentify the agen		<u>A</u>	

_	o years, how many patients at your institution have experienced "near dication errors as a result of chemotherapy shortage?
O None	alcation circle as a result of elicinotherapy shortager
O 1-5	
O 6-10	
C 10-20	
○ >20	
C Unknown	
	e the number of patients at your institution that have experienced the patient outcomes as a result of chemotherapy shortage over the past 2
If you are unsure a	nd unable to provide an estimate, please type "Unsure."
Increased toxicity	
Disease progression	
Cardiac Event	
Other	
-	years, have you noticed an increased number of adverse events in e an alternate medication is substituted due to chemotherapy shortage?
Institutional Res	ponses

12. How have drug shortages been addressed at y	our institution? Please select all that
apply.	
Changed to another regimen	
Sent patient to another institution	
Omitted drug without substitution	
Converted to another form of drug	
Reduced drug dosage for treatment	
Obtained drug from another institution	
Obtained drug/no effect on practice	
☐ Cohorted patients	
Prevented enrollment on clinical trial	
Unknown	
Other (please describe)	
V	
13. In the past two years, has your institution issue	_
operating procedures to address current shortage	es (chemotherapy OR other shortages)?
O No	
C Unknown	
Yes (please describe briefly)	
V	

ır ability to care for	chilaren with C	ancer.		
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Supplemental Appendix I

COG Principal Investigator Survey

The Children's Oncology Group (COG) is conducting a survey on how oncology drug shortages impact clinical care and research in pediatric oncology. Your participation will help COG understand and address the impact of drug shortages in pediatric patients with cancer. It should take about 5 minutes and is completely voluntary and anonymous.

We ask for one principal investigator to complete the survey per an institution.

1. Over the past two years, select all medications for which the following scenarios were

true:			
	Medication was difficult to obtain due to shortage.	Shortage of medication prevented accrual or continuation on a COG trial	Shortage of medication prevented accrual or continuation on a non-COG trial.
Asparaginase/Peg- Asparaginase			
Bleomycin			
Carboplatin			
Cisplatin			
Cyclophosphamide			
Cytarabine			
Daunorubicin			
Doxorubicin			
Etoposide			
Fluorouracil			
Idarubicin			
Ifosfamide			
Irinotecan			
Methotrexate			
Mesna			
Paclitaxel			
Thiotepa			
Vincristine			
Other (please specify)			

_	two years, how many patients have had their clinical trial impacted by tyour institution?
O None	
C 1-5	
C 6-10	
O 11-20	
C >20	
3. Over the past	two years, how many patients have had their clinical care impacted by
drug shortage a	t your institution?
O None	
O 1-5	
C 6-10	
O 11-20	
○ >20	
_	two years, have you noticed an increased number of adverse events in
_	two years, have you noticed an increased number of adverse events in ere an alternative medication is substituted due to a chemotherapy
clinical trials wh shortage?	nere an alternative medication is substituted due to a chemotherapy
clinical trials wh shortage?	nere an alternative medication is substituted due to a chemotherapy
clinical trials wh shortage?	nere an alternative medication is substituted due to a chemotherapy