

Ergonomic Portable for Radiology Ultrasound

Christina Gray, Elise Weber

PROBLEM Outdated and large portable Ultrasound equipment often leads to repeat imaging and poor Evaluate the impact ergonomic conditions which has a negative impact on patient satisfaction and has directly Ultrasound Unit with a r result in increased use of FMLA and Workers Compensation by Ultrasound Techs. for po -**SCOPE IN/OUT** PLAN -Memorial Campus / Ultrasound Exams / Portable Ultrasound Only / Monday - Friday IN Ultrasound technologists at Memorial car **OUT** All other campus / All other modality / Saturday, Sunday, Holiday portable exams. Comparisons will be done demonstrating **BACKGROUND / CURRENT CONDITIONS** ICU/NICU compared with other inpatient Research latest Ultrasound portable equip DO - | Task Track time spent during portables Ult Calculate Data Ch Research Equipment / Ergonomics Ch STUD □ More than 1,300 portable Ultrasounds in FY18 □ Portable equipment is 16 years old Portable exams completed in ICU / NICU Portable equipment weighs 34% more than latest rooms models available Based on exam room size – and the nece □ No ergonomic training / evaluation regarding are frequently reaching, stretching in aw portable Ultrasound This additional 33 minutes per portable that can be performed annually - causing **Negative Financial Impact Directly Linked to Portable Ergonomics** ACT – Fo \$39,000 WORKERS COMPENSATION COST \$ 120,740 COST OF ULTRASOUND TEMP \$43,716 Ergonomic evaluation will be performed **Negative Financial** Summer 2019 **REVENUE LOST – PORTABLE EXAM** \$38,024 Impact □ Include equipment evaluation LENGTH (33 min LONGER) Sonographer (individual) evaluat **ROOT CAUSES** Training staff on how to complete portable LESS MACHINE MAN METHOD Capital requests and evaluation of equips • Staff not provided any Positioning for exam • Machine is cumbersome simple and straightforward. training in ergonomics Repetitive use, chronic reaching Confined space (NICU)

٠

Issues that are Sonographer (individual)

	UMassMemory Health Care Less waste More value for the Customer	
MART Goal		
ct of replacing the current new compact design intended ortable use.		
Countermeasure		
npus will track exam length during		
the differences in Exam length in units. oment and ergonomic education		
mplementation		
Responsible	Due Date	
trasound techs	12/15/18	
ristina Gray	12/31/18	
ristina Gray	12/31/18	
DY - Conclusion		
J rooms take 10% longer than in other		
essary support equipment – Sonographers		
vkward positions. equates to approximately 388 fewer exams ng decreased access.		
ollow Up / Actions		
l by Environmental Health & Safety –		
ion ble exams in ICU / NICU		
ONS LEARNED		
oment is time consuming. This process is not		
dependent are often difficult to quantify		