Since January 2020 Elsevier has created a COVID-19 resource centre with free information in English and Mandarin on the novel coronavirus COVID-19. The COVID-19 resource centre is hosted on Elsevier Connect, the company's public news and information website.

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Materials and Methods: In March 2020, as a result of a department-wide COVID disaster management plan, a 4-angiosuite IR department in a 900-bed tertiary care center experienced reduced case volume by approximately 1/3, matched by decreased physician staffing (3 to 2 attendings). IR technologist and nurse staffing remained unchanged. Normal staffing resumed June 2020. A prospective database of event times related to room workflow was reviewed for case volume, room turnaround time, and first case delay time before and after volume and staff changes. Tumour times greater than 2 hours were excluded to correct for gaps in schedule and the prolonged turnaround associated with COVID-positive patient cases. Wilcoxon rank-sum two-sample tests were used to evaluate the differences between time periods. All P values reported are two-sided. Analysis was done in RStudio 1.2.5033 (RStudio Team, Boston, MA).

Results: Under standard operation, the median values for room turnaround time, case start delay, weekly case volume, and total case hours were 43.0 minutes, 30.0 minutes, 64 cases, and 44.4 hours, respectively. Under the COVID disaster management plan, a 32.6% (P < 0.001, 95% C.I. 23.3%, 41.9%) estimated increase was observed for room turnaround times, and a 53% (P < 0.001, 95% C.I. 36.7%, 70.0%) estimated increase was observed in case start delay; despite a 29.7% (P < 0.001, 95% C.I. 20.3%, 42.2%) decrease in case number and 29.5% (P = 0.009, 95% C.I. 13.1%, 43.2%) estimated decrease in total case hours.

Conclusions: Paradoxically, a relative increase in staffing did not improve measured metrics for room utilization, despite a stable attending physician-to-case ratio. Rather, findings may be allegorical to Parkinson’s law suggesting that work expands so as to fill the time available for its completion.

Abstract No. 589
Assessing the role of interventional radiology during the initial phase of COVID-19: a large health system experience
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Purpose: COVID-19 remains a global health crisis and continues to greatly impact health care systems. Our study highlights the role of interventional radiology (IR) during the initial phases of COVID-19 in a large health care system based in the Midwest.

Materials and Methods: IR procedural volumes were compiled and stratified by service location from January 1, 2020 to April 30, 2020 for a large health care system in the Midwest. Seven-day rolling aggregate values were calculated and comparisons were made to diagnostic radiology (DR) imaging volumes during the same time frame. Percentage change in volume was calculated in relation to a state-mandated order to halt all nonessential medical care on March 17, 2020. IR procedures were stratified by category with interventional oncology (IO), dialysis interventions, and aspiration/drainage interventions comprising a majority of procedures. A Z-test for proportions was performed to assess for change in each following the state-mandated shutdown.

Results: IR demonstrated a 34.9% decrease in total procedural volume following the shutdown of nonessential medical care, compared to a 45.4% decrease in DR volume. There was a 25.4% decrease in inpatient IR volume and a 41.0% decrease in outpatient volume, DR volume showed 22.2% and 57.3% decrease, respectively. Weekly outpatient volume analysis revealed the largest decrease in week 2 for IR at 49.3% and week 4 for DR at 67.0%. IO, dialysis and aspiration/drainage procedures comprised 29.1%, 13.8% and 20.4% of procedures prior to the state mandated shutdown and 31.7%, 16.2% and 26.3% afterwards. The proportion of IO and dialysis procedures were not statistically significant (P = 0.16 and 0.08 respectively) while aspiration/drainage procedures comprised a significantly higher proportion (P < 0.05) after the shutdown.

Conclusions: IR volumes during the initial phase of COVID-19 were relatively less affected than total DR volumes. Specific attention to outpatient IR volumes demonstrates the valuable care provided following the state-mandated shutdown of nonessential procedures. There was no significant change in oncology or dialysis interventions provided with a significant increase aspiration/drainage procedures.

Abstract No. 590
Contralateral lobe hypertrophy after selective Y90 radioembolization/Y90 segmentectomy
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Purpose: To retrospectively analyze the extent of left liver lobe hypertrophy after selective Y90 radioembolization of a single right lobe hepatocellular carcinoma (HCC)

Materials and Methods: A retrospective review was performed of all patients that underwent selective Y90 radioembolization/Y90 segmentectomy for right lobe HCC from November 2017- June 2020 at our institution. Pre- and post-treatment contralateral liver lobe volumes were calculated using manual volumetry utilizing the MIM software (Cleveland, OH). Percent hypertrophy of the contralateral lobe was obtained by calculating the ratios of post-to-pre-treatment lobe volumes.

Results: 29 patients underwent Y90 segmentectomy for solitary right liver lobe HCC over the study period. Mean age of patients was 69.2 (53–86) years with 21 males and 8 females. All 30 patients had underlying cirrhosis. Mean imaging follow up was 14 [4–36] weeks.

Left liver lobe hypertrophy was noted in 26 of 29 patients that underwent Y90 segmentectomy. The mean left liver lobe hypertrophy range was 17% (-13% to 55%).

Conclusions: Y90 radiation segmentectomy appears to lead to substantial hypertrophy of the contralateral liver lobe. Future larger scale studies may be useful in examining the role of segmental Y90 radioembolization without Y90 radiation lobectomy in causing contralateral lobe hypertrophy.

Abstract No. 591
Purse-string technique for venous closure after large-bore mechanical thromboembolectomy
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Purpose: Mechanical removal of clots in patients with pulmonary embolism and deep venous thrombosis is an attractive alternative to pharmacological treatment or catheter-directed lytic infusion. The most effective mechanical thrombectomy devices have large