

## Supplementary material for Paper ID: 1343

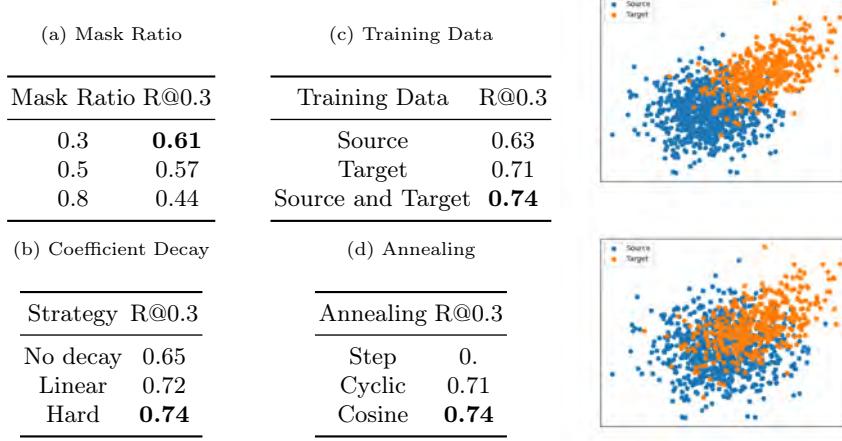


Table S1: The MAE ablation study shows that a low initial mask ratio, decaying  $\lambda_{mask}$ , and training on both source and target features improve performance, with D-MASTER reducing overfitting.

Hyper-parameter Description	INBreast	DDSM
$N_c$	Number of categories for classification head	2    2
$N_{enc}$	Number of encoder layers	8    6
$N_{dec}$	Number of decoder layers	8    6
$N_{aux}^e$	Number of MAE auxiliary encoder layers	2    2
$N_{aux}^d$	Number of queries for decoder	300    300
$N_q$	Number of queries for MAE auxiliary decoder	882    882
$H$	Number of hidden dimension for deformable attention	256    256
$F$	Number of feedforward dimension for deformable attention	1024    1024
$L$	Number of feature levels for deformable attention	4    4
$M$	Number of heads for deformable attention	8    8
$K$	Number of reference points for each attention head	4    4
$B$	Batch Size during training	16    16
$lr$	Learning rate for modules except backbone and projection	$2 \times 10^{-4}$ $2 \times 10^{-4}$
$lr_{bac}$	Learning rate for backbone and projection modules	$2 \times 10^{-5}$ $2 \times 10^{-5}$
$\beta_{bac}$	Coefficient of discrimination loss after backbone $L_{bac}^{dis}$	0.3    0.3
$\beta_{enc}$	Coefficient of discrimination loss after encoder $L_{enc}^{dis}$	1.0    1.0
$\beta_{dec}$	Coefficient of discrimination loss after decoder $L_{dec}^{dis}$	1.0    1.0
$\lambda_{unsup}$	Coefficient of unsupervised loss $\mathcal{L}_{unsup}$	1.0    1.0
$\lambda_{mask}$	Coefficient of supervised loss $\mathcal{L}_{sup}$	1.0    1.0
$\gamma$	EMA update ratio	0.9996    0.9996
$\mu_t$	Initial Mask ratio in MAE branch	0.2    0.3
$\eta$	Initial step for annealing	0.2    0.3
$\eta_{min}$	Minimum jump in mask annealing step $\eta$	0.05    0.05
$\eta_{max}$	Maximum jump in mask annealing step $\eta$	0.15    0.15
$C_s$	Soft Confidence Metric	0.15    0.20
$C_h$	Hard Confidence Metric	0.80    0.90
$E_{pre}$	MAE branch with source data training epoch number	88    87
$E_{teach}$	Teacher-student training epoch number	84    76
$E_{decay}$	After Edecay epochs in teaching stage, we drop the MAE branch	30    10
$E_{reinit}$	Re-initialization epoch for selective retraining	40    20

Table S2: Below are the detailed hyper-parameters corresponding to each benchmark, with the source dataset as the In-house dataset

Datasets	Model Name	Venue	R@0.05	R@0.1	R@0.3	R@0.5	R@1.0	R@2.0	Accuracy	F1-score
In-house to DDSM [18]	SFA[36]	MM'21	0.01	0.01	0.05	0.07	0.11	0.313	0.216	0.329
	UMT[6]	CVPR'21	0.0	0.01	0.04	0.07	0.09	0.13	0.261	0.362
	D-Adapt[14]	ICLR'22	0.0	0.02	0.06	0.09	0.10	0.13	0.382	0.215
	AT[21]	CVPR'22	0.01	0.03	0.08	0.10	0.15	0.21	0.216	0.311
	H2FA[38]	CVPR'22	0.02	0.03	0.06	0.10	0.12	0.17	0.371	0.315
	AQT[13]	IJCAI'22	0.01	0.03	0.07	0.13	0.15	0.18	0.412	0.398
	HT[7]	CVPR'23	0.03	0.05	0.08	0.10	0.13	0.15	0.362	0.362
	ConfMIX[24]	WACV'23	0.02	0.04	0.09	0.12	0.16	0.19	0.336	0.412
	CLIPGAP[34]	CVPR'23	0.01	0.03	0.07	0.11	0.15	0.16	0.336	0.458
RSNA-BSD1K to In-house	MRT[43]	ICCV'23	0.03	0.04	0.09	0.12	0.17	0.21	0.421	0.587
	Ours	-	<b>0.02</b>	<b>0.05</b>	<b>0.12</b>	<b>0.17</b>	<b>0.29</b>	<b>0.49</b>	<b>0.561</b>	<b>0.613</b>
RSNA-BSD1K to In-house	SFA[36]	MM'21	0.03	0.07	0.13	0.18	0.27	0.31	0.629	0.210
	UMT[6]	CVPR'21	0.01	0.04	0.09	0.15	0.19	0.23	0.568	0.193
	D-Adapt[14]	ICLR'22	0.03	0.06	0.11	0.18	0.25	0.31	0.668	0.241
	AT[21]	CVPR'22	0.10	0.28	0.37	0.45	0.51	0.66	0.725	<b>0.319</b>
	H2FA[38]	CVPR'22	0.03	0.06	0.14	0.17	0.21	0.24	0.591	0.274
	AQT[13]	IJCAI'22	0.01	0.05	0.08	0.11	0.17	0.20	0.527	0.230
	HT[7]	CVPR'23	0.02	0.10	0.17	0.24	0.33	0.41	0.710	0.291
	ConfMIX[24]	WACV'23	0.03	0.09	0.16	0.28	0.35	0.39	0.622	0.263
	CLIPGAP[34]	CVPR'23	0.04	0.08	0.23	0.36	0.64	0.72	0.797	0.231
In-house	MRT[43]	ICCV'23	0.06	0.11	0.29	0.44	0.65	0.76	0.825	0.304
	Ours	-	<b>0.14</b>	<b>0.20</b>	<b>0.37</b>	<b>0.54</b>	<b>0.72</b>	<b>0.83</b>	<b>0.825</b>	0.312

Table S3: [Table 1](#) in the main paper showed similar comparison with SOTA UDA methods on few dataset pairs. Here we show results for few more pairs.

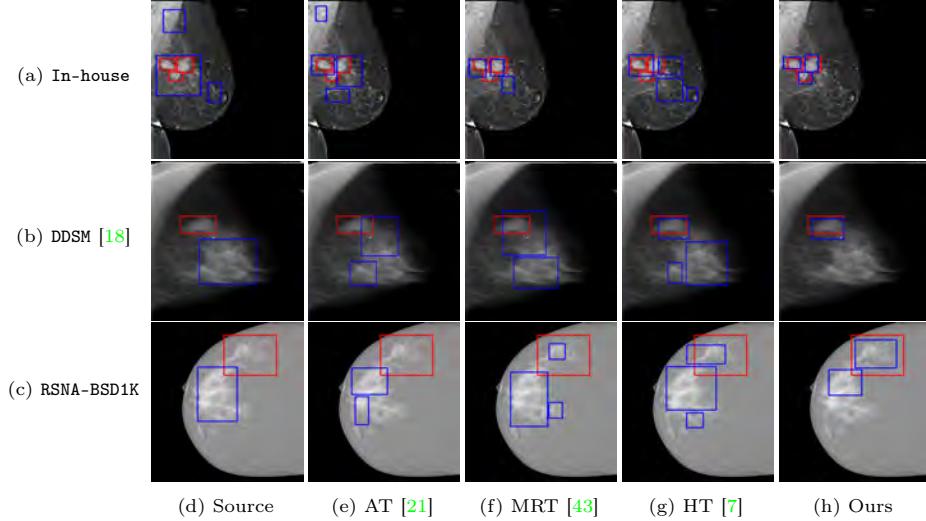


Fig. S1: Qualitative result comparison on in-house, DDSM, and RSNA-BSD1K datasets. Red boxes show the ground truth, and blue boxes show the predictions.