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o ith the enctent of the Medic re Prescription $Dr_{\mathbf{x}}g$ proper enter nd Moderniz tion ne prescription $dr_{x}g$ enefit s dded to Medic re constituting the Act of MMA rgest e p nsion of enefits since Medic re s cre tion in, hrough the MMA the r et for prescription $dr_{x}g$ ins r nce here pri te p ns de i er the go ern ent cre ted ne enefits nd the e der y p y s_{λ} sidized pre i_{λ} to o t in the the cti e roe of the go ern ent in cre ting nd s_{N_s} sidizing this r et s response to the sence of ppropri te prescription $dr_{\lambda}g$ co er ge for the e der y $d_{\lambda}e$ to d erse se ection nd response to difficing ties f ced y o inco e seniors in p ying for $dr_{\lambda}gs$ when i p e ent tion of the program st rted in ssi e entry of pri te p nş, , i ion Medic re enefici ries enro ed ith n_N ry y the end of the first open enroent period CM . The e der y h e the option of either dding st nd one prescription $dr_{\mathbf{x}}g p$ n PDP to their Medic re fee for ser ice co er ge or n ged c re p n th t is p rt of Medic re Ad nt ge MA th t offers $dr_{\mathbf{x}}g$ inp tient enro in

th t o_{1x} d require the go ern ent to negoti te drag prices ith n_{1x} f c_{1x} rers n ddition in n n ysis of opinions of seniors done y the iser F i y Fo_{1x} nd tion one s_{1x} ry st tes Benefici ries nt fe er P rt D choices iser F i y Fo_{1x} nd tion Another report finds th t of enefici ries strong y f or nd so e h t f or i p ifying the ne enefit y red_{1x} cing the n_{1x} er of i e p ns iser F i y Fo_{1x} nd tion these findings indic te th t there y e po itic press_{1x} re to i it the n_{1x} er of choices

n ight of the ch enges the program ent f ces in regarding this r et effectie y on r p per es se er contributions. First e provide e idence on the re tient i type that the e der y deri e fro p n design fetheres such s the e istence of the co er geg proble fetheres re he i y dict ted y poicy so it is i port nt to no ho they re need econd e n yze the effrei p ct of this go ern ent inter ention y seeing h t consumers are surplus nd producer surplus h s een cre ted y the program whire disting our de nd nd supply side estites e conduct se er counterficted s regarding regardin

For on repiric or ense discrete choice ethods pioneered y Berry, to reco er structur esti tes of pr eters of the de nd nd cost functions for the differenti ted PDPs. This ethod is especi y ppe ing since it requires on y ggreg ted t t the p n e e hich is put i e for PDP p ns eg p n r et sh res nd ch r cteristics. The esti tes fro this procedure on us to e sure the me of p n ch r cteristics to how seho ds price e sticities of de nd for e ch p n nd the constant er surplus cre ted y the r et n ddition e ode the supply side of the r et t ing into ccount the e pected subjected y fir s. Co ining the supply ode ith the de nd ode e c n c out fir s rgin costs nd ti te y producer supply side he prices nd ef re out d ch nge if e de ch nges in progr design.

Medic re Prescription $Dr_{A}g$ Price Negoti tion Act of + nd P rt D Medic re $Dr_{A}gs$ Price Bi of MR Act of + i e t <u>http</u> opencongress org i s sho nd http opencongress org i U

sing this pproche hese er ey findings First est rize rest ts fro our ssess ent of ho const ers the riots p n ttring test of e find that the e dery the decrease in the nn deducting from to to to pprove the provide term of term of

econd e esti te the efrei p ct of this ne go ern ent cre ted r et the esti tion ppro ch e fo o o s s to c c te oth const er nd producer s rp s so e c n deter ine hether the enefits of the program rec pt red in y y the e der y or y the pri te p ns o e find that the program rest ts in nn, const er s rp s of i ion nd producer s rp s of i i ion o e find that go ern ent e pendit re in s sidizing st nd one prescription dr g co er ge is i ion o hi e the const er nd producer s rp s ses c e r y do not o t eigh the go ern ent e pendit res the effect of the s sidy on

P rt B the de i ery of the ne enefit h s een co p ete y entrasted to the pri te sector Pri te co p nies c n pro ide the ne enefit s either st nd one p ns c ed Prescription Dr, g P ns PDPs or they c n offer it together ith P rts A nd B s Medic re Ad nt ge p ns MA PDs, ⁺ Medic re enefici ries c n enro in these p ns y p ying s_x sidized pre i_{x} , ⁻ F_{λ} rther price red_x ctions h ppen ccording to inco e nd d_x. Medic id st t_xs he first open enro ent too p ce fro No e er, the to M y, the daring hich ti e the e der y $co_{x}d$ e decisions $o_{x}t$ p rticip ting in this r et n s_{x} seq_x ent ye rs open enro ent t es p ce fro No e er, th Dece er, st of the pre ions ye r D_{A} e igi e enefici ries ere \mathbf{x} to tic yenro ed in cert in o cost p ns \mathbf{x} t o ed to s itch to other p ns A though MMA specifies st nd rd $dr_{\mathbf{x}}g$ enefit the o s de i tions fro th t design s ong s the odified p ns re ct_{x} ri $y eq_{x}$ i ent to the st nd rd enefit. Most enefici ries re oc ed in to their $c_{\mathbf{x}}$ rrent p n for $f_{\mathbf{x}}$ ye r $\mathbf{x}^{\mathbf{t}}$ re o ed to s itch p ns e ch open ent period t pre i_{λ} th t is co λ nity r ted the e ception is for Medic id enro Medic red e igi e enro ees ho re o ed tos itch p ns t ny point in the ye r nd yh e to p y s pre $i_{\mathbf{x}}$ to the e tent th t they s itch into cert in higher priced ho p ns

The st nd rd $dr_{x_x}g$ enefit design specified in MMA for ye r co prises ded cti e of nd three co er ge zones here the fr ction of the ddition $dr_{x_x}g$ do r co ered y the instarrer ries stating to the state of the state of the energy of the instarrer ries of the energy in the energy of the energy of the energy in the energy of the energy in the energy of the o the second se

e pected cost per enefici ry of pro iding the sic drag co er ge he e pected cost is c cated ith the anderst nding th t CM nd not the indi idations rer is response e for of drag costs that re incarred in the c t strophic zoner has is required y MMA nd is referred to s the reins race fe tare of P rt D hich essens fe rs o

o e focas on the t nd A one p ns hich enro ed i ion of the i ion P rt D enro ees in A tot of different instruct nce p ns o ned y ppro i te y + different co p nies ere i e in regions into hich the conntry is di ided. +h s seen e en ore p ns enter ith ne tot of p ns cross regions MMA sets st nd rds for p n design x p ns h e consider e freedo x here is s_x st nti ri tion in the pre $i_{\mathbf{x}}$ s ch rged nd in the design of the enefits o hi e cert in fe $t_{\mathbf{x}}$ res of p n design s_{λ} ch s the ded cti e re e ident hen p ns re se ected y cons_ ers nd re o ser s_{N} ry fi e re e sed y CM p ns c n differ in other spects s_{N} ch s prices negoti ted ith ph r centic co p nies nd the co p y ents required fro the enefici ries for different $dr_{x}gs$ hese re ttri tes rese rehers $nd cons_{x}$ ers c n on y o ser e through e $q_{x}eries$ nd in tion of the p n s for \mathbf{N} ry -Mo d eyet \mathbf{r}' o e so o t ined d t on ess n e isi e p n fe tares drag prices for \mathbf{x} ry design nd cost sh ring for e ch PDP p n y repe ted y q_x erying the p n finder too i p e ented y Medic re in the r_x er of for ten sets of $dr_{\lambda}gs \cdot o$ e processed the so_{λ} rce code of e ch res_{λ} ting e p ge to cre te d t se of p n ttri tes to styppe ent d t pro ided y CM to rese rchers n this pre i in ry n ysis e see generosity inde sed on the top $dr_{x}gst$ en y seniors

And the reference of the rest of the rest

site tion s this is ech nis for re e ing pri te infor tion of the cost stract, re h sing dyn ic progr ing ppro che ted the i p ct of Medic re y e ns of connerf ct, th t ssa ed Medic re s dis nded Me so concades th t Medic re pro ides consider e enefits to the e der y through insar nce g inst edic e penditares s i p ct on i pro ed ort ity nd he th st tas nd incre ses of edic c re consa ption of ont to C osest in spirit to one r or is no n nd Lia ho esti te the ef re i p ct of Medic re MMOs daring the to period they for nd ig incre ses in consa er sarp as dae to the introdaction of Medic re MMOs nd siz e portion of th t sarp as co es fro ing i e prescription drags to the e der y throagh these p ns n different po icy conte t they perfor ed si i r connerf ct, s to oars nd pro ide er y e idence th t ro d prescription drags co er ge for the e der y cond e chie ed throagh pri te n ged c re p ns

n the c tegory of p pers th t stady the post i p e ent tion of P rt D the iter tare h s $\operatorname{prod}_{\mathbf{A}}$ ced $\operatorname{n}_{\mathbf{A}}$ er of descripti e p pers $C_{\mathbf{A}}$ ns i pro ides n n ysis of fir specific r et sh res for oth PDP nd MA PD p ns nd finds th t fir s c pt red + of the tot enro ent pri ri y in their o pre i p ns God nd Mo d ey et pro i pro ide e idence that ost of the p ns offered reprovided y_{r} n tion inspirers nd ner n tion instarters where h e een so e start eys of seniors to find on their opinions of the Medic re P rt D p ns Meiss McF dden nd o inter s r eyed seniors through o e t de ices nd report on s tisf ction ith p n ch r cteristics hey find for e p e th t seniors ere diss tisfied ith the don, the provision of the p n A is er F i y Fo, nd tion M r rd choo of $P_{\underline{x}}$ ic $\underline{M}e$ the po cond_{\underline{x}} cted $d_{\underline{x}}$ ring the open enro ent period iser F i y finds the t seniors f or si p if ic tion re o ing the don the etc on y_{yy} Fox nd tion strong y f ored eeping the progr s is L dh nd ood + esti te the efre cre ted y Medic re drag instar nee in ter s of ho it corrects distortions th t discoar ge inno tion c_{λ} rrent y f there is $dr_{\lambda}g$ ins r nce then the f ct th t cons c ered ered rgin cost gi es n dded incenti e for inno tion correcting the disincenti e th t e ists ec se of i ited p tent engths hey esti te th t ong this di ension one P rt D incre ses e f re y i ion ye r through reduction in e isting de d eight oss

For $o_{x}r$ e pirics e esti te the str_x ct_x r p r eters of the de nd

o e deco pose ti ity into t o p rts e n ti ity nd n idiosyncr tic shoc t she e n ti ity for prod₁ ct is s fo o s

$$\delta_{jt} = X_{jt}^{\dagger}\beta + \alpha p_{jt} + \xi_{jt}$$

nd the idiosyncr tic shoc is si $p y \varepsilon_{iji}$, o e ignore the inco e ter since it is co on to p ns nd i e ent, y drop on t of the n ysis

o ithin the o e fr e or once distriction for the idiosyncr tic error ter s is chosen e c n then c c te the pro i ity th t n indi id i choose gi en p n. At the ggreg te e e these pro i ities represent r et sh res for e ch p n. For e p e if e ss e the ε_{ijt} re districted i i d type e tre the o e ode si p ifies to the ggreg te ogit ode here the pro i ity of choosing gi en p n nd hence the r et sh re of th t p n is

$$s_{jt} \delta = \frac{e p \delta_{jt}}{+\sum_{k=\overline{t}}^{J} e p \delta_{kt}}$$

Ne t e find the ector of e n ti ities

$$+ n s_{jt} - n s_{t} = \hat{X_{jt}} \beta - \alpha p_{jt} + \xi_{jt}$$

o ritten this y e c n see L esti tor sing proper instratents to get esti tes for nd f e ssate X_{jt} nd p_{jt} remancarre ted ith ξ_{jt} e i get proper esti tes y si p y perfor ing OL .

n pr ctice e esti te nd $x_s sing t$ o different ssa ed distri tions for the idiosyncr tic error ter s o e first ssa e they reiid type e tre x r ndo ri es prodacing the ggreg te ogit s descri ed o e A co on criticis of the ogit ssa ption is th t it i poses strong restrictions on sa stitution p tterns cross prodacts. For e p e it Gi en this tity for tion e fo o the s e

here c p nd s re ectors of rgin costs prices nd r et sh res nd $\Delta p X_{i} \theta$ is the ppropri te y defined tri of o n nd cross price sh re deri ti es Petrin . Once e h e esti tes for the de nd side p r eters e c n direct y so e for rgin costs sing equation, .

sing the esti ted p r eters of the x_1 ti ity f_{x_2} nction e c n c c_{x_2} te o n nd cross price e sticities for e ch prod ct F_{x_2} rther co ining these de nd side esti tes ith o_{x_2} r rgin cost esti tes e c n c c_{x_2} te e f re nn_{X} enro ent period n the enro ent fi e it is i possi e to te h t n_{X} er is d_{X} e to Medic id d_{X} s s opposed to others o e set the tot enro ent

Medic id d_x s s opposed to others o e set the tot enro ent O_xr d t set consists of one o ser tion for e ch of p ns of hich enro ent d t re i e for p ns s the others enro ed fe er th n th t ere offered in the PDP r et in

ri e definitions

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 $n \ge e$ e present the res₁ ts for t o ode s

 r_{y} r_{y} r_{y} An e tr top drag dded to the for ray is orth ppro i te y nd g p co er ge of generics is orth on t whe co er ge of r nded drags ppe rs to se h t seniors we the ost ith n esti ted n_n we of sing the esti tes fro on r se ine ode e c n c ch te o n nd cross price

e sticities for the different p $ns_{\mathbf{x}}$ sing the fo o ing for \mathbf{x} s

$$\eta_{jj} = \frac{\partial s_j}{\partial p_j} \frac{p_j}{s_j} = -\alpha p_j s_j + \alpha p_j \frac{q}{q - \sigma} - \frac{\sigma}{q - \sigma} s_{j,g}$$

$$\eta_{j\,j} = \frac{\partial s_j}{\partial p_k} \frac{p_k}{s_j} = -\alpha p_k s_k \text{ if } j \neq k \quad k \notin g \quad j \in g$$

$$\eta_{jj} = \frac{\partial s_j}{\partial p_k} \frac{p_k}{s_j} = -\alpha p_k s_k \frac{\sigma}{1 - \sigma} \frac{s_{jg}}{s_k} + \text{ if } j \neq k \text{ } j \text{ } k \in g$$

here g is the $gro_{A}p$ enh nced or not enh nced.

The first for \mathbf{x} is the on price e sticity the second is the cross price e sticity for p ns j nd k th t do not e ong to the s e nest g nd the third the cross price e sticity for products that e ong to the s e nest Gi en the rge $n_{\lambda_{i}}$ er of p ns e c n on y present p e of $o_{\lambda}r$ esti ted e sticities $O_{\lambda}r$ esti tes reconsistent ith pre i $o_{\lambda}s$ y esti ted S e sticities $M r_{x} y$ Fed net nd e re e to c pt_{x} re the intrati e resp. t th t enh nced p ns re c oser s stit tes to e ch other th n to non enh nced p ns Δ e sho s p e of ox r esti ted e sticities for the p yers ith the rgest r et sh res theS e sticities in the t e sho th t enh nced p ns denoted y recover s_{x} stit tes to e ch

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 $O_X r$ esti tes so o X_S to c C_X te i port nt e f re e sares of this r et n p rtic r e c n c C_X te prodacer nd const er sarp rs nd co p re those to go ern ent e penditare on sa sidiz tion. The for a s for these three e sares re s fo o s

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r et po er d'a e to this erger rest ted in $\frac{1}{2}$ incre se in er ge prices for the erged fir s nd $\frac{1}{2}$ + incre se in prices for other fir s Const er st rp t s dec ined y hi e producer st rp t s incre sed $\frac{1}{2}$ + $\frac{1}{2}$ hese rest ts not on y i ts tr te the effects of erger of this gnitted on this r et ts to de onstr te of r ode s i ity to produce sensi e counterf ct rest ts consistent ith econo ic theory

On r reining to poicy e perients fochs on the effects from reioning pints from the riet. The first of these poicy e perients in ones the reion of pints offering gip conerge one perform this e perinent to seess the reion of pints of the gone reint high difference on the perient to seess the reion of pints of the reion of the rei

The second of these poicy e peri ents e pores ht on d e the effect of ore ni ers i it tion in the name er of options n p rtich r e consider the effect of restricting fir s to i of t op n offerings per region o hen i posing this rate in on r ode e ssate fir s eep the p ns th th d the rgest enro ent this e peri ent i its the name er of p ns to + of the se ine e e s the pre i of the re ining p ns increases y ppro i te y + o e find th t oth constant er starp as f s y ppro i te y nd prodacer starp as f s y on t Enro ent f s y nder the ssate ption th t the equi i rist e find is ctally p yed fter this poicy is i p e ented the oss in starp as per person ppro i te y - ong ith the oss of p rticip tion as the eighed g inst the g in date to reduced se rch costs hen e a ting such poicy

t show d e noted that the ne equi i rive pre i rec c_x ted sed on the structure reco ered for $o_x r$ Bertr nd g e hich is n struction of the re idding ech nis o e recurrent y odifying this ssar ption to c ptare the effect of $o_x r$ counterf c_{t_x} s and recurrent or $c_x r$ te regar to y fr e or

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